

Bihar Electricity Regulatory Commission



Case No. 29/2024 & 33/2024 (NBPDC)

and

Case No. 30/2024 & 34/2024 (SBPDCL)

Tariff Order

**True up for FY 2023-24,
Annual Performance Review for FY 2024-25 and Aggregate
Revenue Requirement (ARR) for FY 2025-26 including
Business Plan for control period FY 2025-26 to FY 2027-28
and**

Determination of Retail Tariff for FY 2025-26

for

**North Bihar Power Distribution Company Limited (NBPDC)
South Bihar Power Distribution Company Limited (SBPDCL)**

Issued on 28.03.2025

(With effect from 1st April, 2025)

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ABBREVIATIONS

A&G	Administration and General Expenses
ACT	Electricity Act. 2003
ARR	Aggregate Revenue Requirement
BERC	Bihar Electricity Regulatory Commission
BSHPC	Bihar State Hydro Power Corporation
BSEB	Bihar State Electricity Board
BSPHCL	Bihar State Power (Holding) Company Limited
BSPTCL	Bihar State Power Transmission Company Limited
BTPS	Barauni Thermal Power Station
CAGR	Compounded Annual Growth Rate
CAPEX	Capital Expenditure
CEA	Central Electricity Authority
CERC	Central Electricity Regulatory Commission
CGS	Central Generating Station
CTU	Central Transmission Utility
CWIP	Capital Work in Progress
DISCOM	Distribution Company
FC	Fixed Charges
FPPCA	Fuel and Power Purchase Cost Adjustment
FY	Financial Year
GFA	Gross Fixed Asset
KBUNL	Kanti Bijlee Utpadan Nigam Limited
KVA	Kilo Volt Ampere
KVAH	Kilo Volt Ampere Hour
KWH	Kilo Watt Hour
MoP	Ministry of Power
MU	Million Unit
MVA	Mega Volt Ampere
MW	Mega Watt
MYT	Multi-Year Tariff
NBPDCCL	North Bihar Power Distribution Company Limited
NFA	Net Fixed Asset
NHPC	National Hydro Power Corporation
NTPC	National Thermal Power Corporation
O&M	Operation and Maintenance
PLF	Plant Load Factor
R&M	Repairs and Maintenance
RE	Revised Estimates
RoE	Return on Equity
SAC	State Advisory Committee
SBPDCL	South Bihar Power Distribution Company Limited
SERC	State Electricity Regulatory Commission
TPS	Thermal Power Station



BIHAR ELECTRICITY REGULATORY COMMISSION

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Case No. 29/2024 & 33/2024 (NBPDCL)

and

Case No. 30/2024 & 34/2024 (SBPDCL)

In the matter of:

Petitions for approval of True-up for FY 2023-24, Annual Performance Review (APR) for FY 2024-25, Annual Revenue Requirement (ARR) for control period for FY 2025-26 to FY 2027-28 and determination of Retail Tariff of electricity for FY 2025-26.

and

Approval of Capital Expenditure and Capitalisation Plan(s) (Business Plan(s)) for the MYT Control Period 2025-26 to 2027-28 in the State of Bihar filed by North Bihar Power Distribution Company Limited (NBPDCL) and South Bihar Power Distribution Company Limited (SBPDCL).

and

North Bihar Power Distribution Company Limited (NBPDCL) **Petitioner**

South Bihar Power Distribution Company Limited (SBPDCL) **Petitioner**

Present:

Amir Subhani

Chairman

Arun Kumar Sinha

Member (Technical)

Parshuram Singh Yadav

Member (Legal)

ORDER**Dated: 28th March, 2025**

In accordance with the Bihar Electricity Regulatory Commission (Distribution Multi Year Tariff) Regulations 2021, Bihar Electricity Regulatory Commission (Distribution Multi Year Tariff) Regulations 2024, the North Bihar Power Distribution Company Limited (NBPDC) and South Bihar Power Distribution Company Limited (SBPDCL) have filed petitions on 15th November, 2024 for Trueing-up for FY 2023-24, Annual Performance Review (APR) for FY 2024-25, Approval of Capital Expenditure and Capitalisation Plan (Business Plan), Annual Revenue Requirement (ARR) for control period from FY 2025-26 to FY 2027-28 and determination of Retail Tariff of electricity for FY 2025-26.

The Commission, in exercise of the powers vested in it under Sections 61, 62 and 86 of the Electricity Act, 2003 (EA, 2003) and all other powers enabling it in this behalf, and after taking into consideration all the submissions made by petitioners and stakeholders and material on record has approved the Trueing-up for FY 2023-24, Annual Performance Review (APR) for FY 2024-25, and determined the Annual Revenue Requirement (ARR) for control period from FY 2025-26 to FY 2027-28 and for retail tariff for sale of electricity to the consumers for the Financial Year 2025-26. The Commission has also approved the Capital Expenditure and Capitalisation Plan(s) (Business Plan(s)) for the MYT Control Period from FY 2025-26 to FY 2027-28 of NBPDC and SBPDCL.

1. Background

The two Discoms in the State of Bihar, namely, North Bihar Power Distribution Company Limited (NBPDC) & South Bihar Power Distribution Company Limited (SBPDCL) came into existence on 1st November, 2012 after restructuring of erstwhile Bihar State Electricity Board vide Notification No. 17 dated 30th October, 2012 issued by Energy Department, Government of Bihar.

2. Common order for SBPDCL & NBPDC

The Commission, considering the common issues, common Tariff structure for both the Discoms, similarities in Tariff format and nature of major comments & suggestions received from consumers and stakeholders, is issuing common Tariff Order for both the Discoms (NBPDC and SBPDCL) for FY 2025-26 in order to obviate duplication of work and

to present a holistic power scenario of the entire state at one place.

3. Regulatory Provision

The Tariff orders are being passed in exercise of the powers vested in Bihar Electricity Regulatory Commission (hereinafter referred as the 'Commission') under section 62 (1) (d) read with Section 62 (3) and Section 64 (3) (a) of the Electricity Act, 2003 and BERC (Multi Year Distribution Tariff) Regulations, Regulations 2021 and BERC (Multi Year Distribution Tariff) Regulations, Regulations 2024.

4. Filing of Tariff Petitions

The Discoms (NBPDC & SBPDCL) had filed petitions on 15th November, 2024 for True up of ARR for FY 2023-24, APR for FY 2024-25 and determination of ARR and Retail Tariff for FY 2025-26. The Commission admitted the respective Tariff Petitions and Business Plan Petitions on 2nd January, 2025 as Case No. 29/2024 & 33/2024 (NBPDC) and Case No. 30/2024 & 34/2024 (SBPDCL).

5. Public Notice and Consultation Process

The Section 64(3) of the Electricity Act, 2003, read with Regulation 12.9 of the BERC (Multi Year Distribution Tariff) Regulations 2024, provides for giving adequate opportunities to all stakeholders and general Public for making comments, suggestions and objections on the Tariff Petitions and Business Plan Petitions. Accordingly, the Commission directed the two Discoms (NBPDC & SBPDCL) to publish public notices showing the contents of the ARR and Tariff Petitions along with Business Plan Petitions in an abridged form in the leading newspapers having wide circulations in the State of Bihar and invite comments, suggestions and objections thereon. Accordingly, the Discoms (NBPDC & SBPDCL) issued their respective public notices of their Tariff Petitions and Business Plan petitions in abridged versions in various newspapers and the same were also uploaded on the websites of the Commission and the respective Discoms. The last date of submission of comments, suggestions and objections was fixed as 30.01.2025.

Further, an urgent hearing was conducted on 30.01.2025 in the extra-ordinary circumstances arising due to submission of separate letters dated 29.1.2025 by the

Petitioners, whereby the Petitioners had acknowledged that there had been some inadvertent error on their part in not considering the ARR gap/surplus of previous years in true-up of 2023-24. Upon hearing the Petitioners, the Commission directed to publish the revised/ modified abridged form of the tariff petitions, as approved by the Commission, as a Corrigendum to the previous Public Notices on the subject matter approved by the Commission vide order dated 02.01.2025. The last date of submission of comments, suggestions and objections was fixed as 07.02.2025.

The Commission, in order to ensure transparency in the Tariff determination process and for providing convenient opportunity to wide section of stakeholders and general Public for offering their comments, suggestions and objections on the Tariff Petitions conducted Public hearings at Chapra on 08.02.2025, Munger on 11.02.2025, Darbhanga on 13.02.2025, Jehanabad on 15.02.2025 and Patna on 20.02.2025.

In the meanwhile, some additional information appearing necessary to the Commission for evaluating the tariff and Business Plan Petitions were also sought from the Petitioners and the reply submitted by them in response thereof has also been taken in to consideration while evaluating the petitions.

The Commission, after taking into consideration the facts presented by the Discoms in their Petitions and various subsequent filings, comments, suggestions and objections received from all section of stakeholders, consumer organizations, general public and response of the Discoms thereupon, has Trued up the ARRs for FY 2023-24, reviewed the APRs for FY 2024-25, approved ARRs from FY 2025-26 to FY 2027-28 and determined the common Tariff for Retail Sale of electricity for FY 2025-26 for the Discoms in their respective jurisdictions.

6. True up for FY 2023-24

The ARRs for FY 2023-24 as claimed by both the Discoms on the basis of the audited annual accounts vide their tariff petitions and approved by the Commission in true up after careful examination of the claims in the light of laid down norms and exercising prudence check are as under:

(Rs. Crore)

Name of the Discom	Claimed by the Discoms in truing up for FY 2023-24				Approved by the Commission in true up for FY 2023-24			
	ARR including (gain)/ loss on account of controllable factors	Past period trued up Gap with carrying cost	Revenue from sale of power	Net Gap/(Surplus) claimed	ARR including (gain)/ loss on account of controllable factors approved by the Commission	Past period trued up Gap with carrying cost	Revenue from sale of power and subsidy	Net Gap/ (Surplus) approved
1	2	3	4	5=(2+3-4)	6	7	8	9=(6+7-8)
NBPDCCL	13083.28	379.14	14003.27	(540.85)	12890.88	379.14	14003.27	(733.25)
SBPDCL	16274.35	4548.14	16735.99	4086.50	15588.95	4548.14	16735.99	3401.10
Total	29357.63	4927.28	30739.26	3545.65	28479.83	4927.28	30739.26	2667.85

The Commission after True up exercise of the ARR including (gain)/ loss on account of controllable factors of FY 2023-24 of both Discoms has approved combined ARR of **Rs.28479.83 Crore** and gap of **Rs.2667.85 Crore** as against the claim of combined ARR including (gain)/ loss on account of controllable factors of Rs. 29357.23 Crore and combined revenue gap of Rs. 3545.65 Crore. The revenue gap of FY 2023-24 along with carrying cost shall be carried forward to the ARR of FY 2025-26 as per the regulatory provisions.

7. Annual Performance Review (APR) for FY 2024-25

The Commission, after examination of projected expenditure for revised ARR by the NBPDCCL and SBPDCL in their Annual Performance Review petitions for FY 2024-25 has approved the combined revised ARR and surplus as under:

(Rs. Crore)

Name of the Discom	Claimed by the Discoms in review for FY 2024-25				Approved by the Commission in review for FY 2024-25			
	ARR claimed	Past period trued up Gap with carrying cost	Revenue from sale of power	Net Gap/ (Surplus) claimed	ARR approved by the Commission	Past period trued up Gap with carrying cost	Revenue from sale of power	Net Gap/ (Surplus) approved
1	2	3	4	5= (2+3-4)	6	7	8	9= (6+7-8)
NBPDCCL	14546.21	0	14055.43	490.78	13110.02	899.14	14114.00	(104.84)
SBPDCL	16513.38	0	17356.14	(842.76)	15438.65	(1250.94)	17328.72	(3141.00)

Name of the Discom	Claimed by the Discoms in review for FY 2024-25				Approved by the Commission in review for FY 2024-25			
	ARR claimed	Past period trued up Gap with carrying cost	Revenue from sale of power	Net Gap/ (Surplus) claimed	ARR approved by the Commission	Past period trued up Gap with carrying cost	Revenue from sale of power	Net Gap/ (Surplus) approved
1	2	3	4	5= (2+3-4)	6	7	8	9= (6+7-8)
Total	31059.59	0.00	31411.57	(351.98)	28548.68	(351.80)	31442.72	(3245.84)

However, the Commission in accordance with the Regulation 14.1 (f) of BERC (Multi Year Distribution Tariff) Regulations 2021, has not considered to carry forward this revenue surplus of **Rs. 3245.84 Crore** of FY 2024-25 in the proposed ARR of FY 2025-26 as the gap arrived in review for FY 2024-25 is based on estimates submitted by the petitioners and may vary with reference to audited accounts for FY 2024-25 while Truing-up.

8. Aggregate Revenue Requirement (ARR) for FY 2025-26

The Commission, taking into consideration the comments, objections and suggestions of the stakeholders, general public vis-a vis the reply of petitioners there upon and after strict scrutiny and prudence check of the proposed revenue & expenses and other submissions of the Petitioners (NBPDCCL & SBPDCL), determined the net revenue requirement as under for the control period from FY 2025-26 to FY 2027-28:

ARR for FY 2025-26 to FY 2027-28 as approved by the Commission

(Rs. Crore)

Sr. No.	Particulars	NBPDCCL			SBPDCL		
		FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
1	Purchase of power (excluding transmission charges)	9908.39	10581.35	11389.78	11931.04	12730.03	13688.31
2	Transmission Charges	1835.50	2084.91	2176.74	2264.82	2560.89	2672.11
A	PGCIL and other transmission charges	949.00	977.47	1006.79	1224.14	1260.86	1298.69
B	BSPTCL transmission charges	718.70	870.16	937.60	843.70	1021.50	1100.66
C	BGCL transmission charges	149.09	218.24	211.79	175.02	256.19	248.63
D	SLDC charges	12.91	12.66	13.54	15.15	14.86	15.90
E	ERLDC, POSOCO	5.80	6.38	7.02	6.81	7.49	8.24
3	O & M Expenses	1066.76	1143.86	1219.98	1418.64	1526.93	1642.03
A	Employee expenses	523.71	559.37	599.93	801.33	856.06	922.14
B	R&M expenses	236.97	257.40	269.85	287.94	321.90	349.78
C	Total A&G expenses	268.13	287.07	308.00	290.74	308.24	327.15

Sr. No.	Particulars	NBPDCCL			SBPDCL		
		FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
4	Holding company expenses	37.94	40.01	42.20	38.62	40.73	42.95
5	Depreciation	428.33	485.12	512.27	375.42	440.88	480.01
6	Interest on loan	637.81	693.84	686.29	525.89	616.93	645.75
7	Other finance charges	73.78	81.16	89.27	141.70	155.87	171.46
8	Return on equity	531.27	604.47	639.43	427.46	519.68	575.37
9	Interest on SD	35.48	37.95	40.42	59.92	63.51	67.10
10	Interest on working capital	7.60	9.24	10.05	0.00	0.00	0.00
12	Demand Side Management	0.00	0.00	0.00	0.00	0.00	0.00
13	Total Revenue requirement	14524.92	15721.90	16764.23	17144.88	18614.72	19942.14
14	Less: Non-tariff income	558.83	568.06	577.06	465.70	476.65	487.35
15	Net Revenue requirement	13966.09	15153.85	16187.17	16679.18	18138.07	19454.79

Net ARR approved, past period true-up gap / surplus, revenue from existing tariff and net gap projected by Discoms and approved for FY 2025-26 are as detailed in the table below:

ARR for FY 2025-26 as approved by the Commission

(Rs. Crore)

Name of the Discom	Claimed by the Discoms in ARR for FY 2025-26				Approved by the Commission in ARR for FY 2025-26			
	ARR claimed	Past period trued up Gap with carrying cost	Revenue from sale of power	Net Gap /(Surplus) claimed	ARR approved by the Commission	Past period trued up Gap with carrying cost	Revenue from sale of power	Net Gap/ (Surplus) approved
1	2	3	4	5= (2+3-4)	6	7	8	9= (6+7-8)
NBPDCCL	15994	(650)	14627	717	13966.09	(891.54)	15055.29	(1980.74)
SBPDCL	17800.1	4908	18592.52	4115.58	16679.18	4106.49	18912.47	1873.19
Total	33794.1	4258	33219.52	4832.58	30645.26	3214.94	33967.76	(107.55)

The NBPDCCL and SBPDCL have proposed net ARR of Rs. 15994 Crore and Rs.17800.10 Crore respectively for FY 2025-26 with a revenue gap of Rs. 717 crores (including revenue gap with carrying cost of FY 2023-24) for NBPDCCL and Rs. 4115.58 Crore for the SBPDCL. Thus, Discoms have proposed total revenue gap of Rs. 4832.58 crore for FY 2025-26.

The Commission, after thorough examination of their proposals and prudence check has approved the ARR of **Rs. 13966.09 Crore** with revenue surplus of **Rs. 1980.74 Crore** for NBPDCCL and ARR of **Rs. 16679.18 Crore** with revenue gap of **Rs. 1873.19 Crore** for SBPDCL after considering the revenue from sale of power during FY 2025-26 with approved tariff

and Trued-up gap of FY 2023-24 including carrying cost. Thus, the combined Revenue surplus approved is at **Rs. 107.55 Crore** for FY 2025-26 for both DISCOMs.

9. Approved Retail Tariff for FY 2025-26

The DISCOMs have not proposed any tariff hike for FY 2025-26, except for HTSS category, where an increase @Rs1/unit in the energy charge has been proposed.

The Commission, based on the approved revenue gap for DISCOMs and after taking all facts, views and circumstances into account, has decided not to change the prevailing Retail Supply tariff for all the categories of consumers, except few changes as detailed below.

The Commission has taken the following decisions after due deliberations and consultations:

- The proposal of the Discoms for merging both the slabs of DS-I category at lower slab rate is accepted. This will result in reduction of Rs. 0.54/unit for rural domestic consumers having monthly consumption more than 50 units. It is likely to benefit approximately 93 lakh consumers.
- The Commission decides to introduce kVAh based tariff for NDS-I and NDS-II (Contract demand above 0.5 kW upto 70kW) consumers; i.e. demand charges in terms of Rs/kVA and energy charges in terms of Rs/kVAh.
- The proposal of Cold Storage to be added under the LT IAS I metered category is accepted. This would be applicable up to connected load of 74 kW for LT category. Further, a separate category is being approved under HT level, i.e. HT Cold Storage (11 kV). The tariff for HT Cold Storage would be applicable for contracted demand from 50 kVA to 1500 kVA. This tariff would only be applicable for cold storages exclusively for storing of Agriculture Products. The Consumers should produce certificate from Agriculture or Industry Department for availing benefit under this category.
- DISCOMs' proposal to increase the energy charges of HTSS (11/33 KV) consumer is not accepted.
- ToD tariff has been made applicable for all consumers having Contract Demand more than 10kW including all industrial and commercial consumers having Contract

Demand more than 10kW (excluding Agriculture consumer). The evening peak hours, for the purpose of ToD tariff will be from 5 PM to 11 PM only.

- The proposal to introduce “Green Tariff” so as to encourage consumption of clean energy is accepted. The “Green Tariff” approved will be incremental @ Rs.0.42/kWh over and above the applicable tariff of respective category. The detailed terms and conditions are given in detailed order.
- The Commission decides to modify load factor incentive for all HT consumers, including HTSS consumers.
- Online payment rebate to HT consumers for online or digital payment has been approved as 1% of the billed amount or Rs 50,000, whichever is lower.
- The DISCOMs proposal to replace the existing rebate of 3% (2% prompt payment rebate and 1% rebate on online recharge) by a rebate of Rs.0.25/kWh on energy charge for smart prepaid meter consumers is accepted. This will result in an effective reduction of tariff by Rs.0.25/unit for those consumers (approximately 60 lakh at present) who get smart pre-paid meter installed for themselves.
- Regarding the proposal for relaxing penalty provision related to violation of contract demand for smart pre-paid meters, the Commission decides to provide an exemption of six months period post installation of smart meters, without levying any penalties.
- Agreeing to the Petitioners’ request, the Commission decides that power factor surcharge shall not be applicable for IAS-I category for FY 2025-26.
- The proposal of additional benefit of interest on advance payment to consumers for smart prepaid consumers (<20 kW) excluding govt. consumers is accepted.

10. Open Access charges

The Commission has determined the wheeling charges for FY 2025-26 as given below, resulting into slight reduction in each of the category:

- Wheeling charges at 33kV voltage level: 50 paisa/kWh
- Wheeling charges at 11kV voltage level: 52 paisa/kWh

[In the previous FY 2024-25, the respective charges were 51 paisa/kWh and 56 paisa/kWh]

The Commission, in terms of Rule 13 of the Electricity (Amendment) Rules, 2022 dated

06.06.2023, has determined the Cross-subsidy surcharge limited to 20% of the Average Cost of Supply for FY 2025-26 as given below:

Sl. No	HT category	Rs/kWh
1	For 440/220/132kV consumers	1.86
2	For 33kV consumers	1.86
3	For 11kV consumers	1.86

11. Power Purchase Cost and Average Cost of Supply

The Average Power Purchase cost for both Discoms at Generator ex-bus for FY 2025-26 is Rs.4.81/kWh (excluding PGCIL and Grid-India (POSOCO) charges) and that at the state periphery (including PGCIL and Grid-India (POSOCO) charges and CTU Losses) comes to Rs.5.43/kWh for FY 2025-26.

The Average Cost of Supply (ACoS) for both Discoms for FY 2025-26 comes to Rs.9.30/kWh on the basis of approved ARR of FY 2025-26, including past period revenue gap.

The Average Revenue Realisation with approved tariff for both Discoms during FY 2025-26 is Rs.9.32/kWh.

12. Compliance of Directives

The Commission has reviewed the directives issued in its earlier Tariff Orders and noted that some of these directives have been complied and some are partially attended to. Accordingly, the Commission has decided to drop directives that are fully or substantially complied with and has further directed the Discoms to comply with the remaining directives along with fresh ones added in the instant order. The Commission will monitor the compliance of these directives through the quarterly reports, to be submitted by the DISCOMs.

13. General

The Commission has been determining the Retail Tariff without considering the Government subsidy and accordingly approves the retail tariff for FY 2025-26 also without considering Government subsidy.

The Government of Bihar has been announcing direct subsidy to consumers. The State Government announces tariff subsidy, if any to any category of consumers after the

pronouncement of this retail tariff order for FY 2025-26 by the Commission, the DISCOMs shall immediately bring the same to the notice of the Commission intimating the tariff rates, at which the DISCOMs propose to bill the energy charges from such category of consumers and also ensure adequate publicity of the same. Further, the details such as the energy charges as per the tariff rates, reduction of energy charges/tariff due to government subsidy and net energy charges to be paid by the consumers shall be clearly exhibited in the electricity bill to be served to the consumers.

The Discoms shall ensure implementation of the order from the effective date after issuance of a Public Notice, within a week in at least two daily newspapers (Hindi and English) having wide circulation in the State of Bihar in a easily readable font and compliance of the same shall be submitted to the Commission.

This Order shall be effective from 1st April, 2025 and shall remain in force till 31st March, 2026 or till the next Tariff Order of the Commission.

This order will be placed on the website of the Commission and copies will be sent to BSPHCL, NBPDCCL, SBPDCL, BSPTCL, SLDC, BGCL, Department of Energy of Government of Bihar, Central Electricity regulatory Commission and Central Electricity Authority.

Pronounced in the open Court on the day of 28th March, 2025.

Sd/-
Parshuram Singh Yadav
Member (Legal)

Sd/-
Arun Kumar Sinha
Member (Technical)

Sd/-
Amir Subhani
Chairman

1. Introduction

1.1. Bihar Electricity Regulatory Commission (BERC)

The Bihar Electricity Regulatory Commission (herein after referred to as “Commission “or “BERC”) was constituted by the Government of Bihar under Section 17 of the Electricity Regulatory Commission Act, 1998 vide Government of Bihar notification No.1284 dated 15th April 2002.

Section 82(1) of the Electricity Act 2003 specifies that the State Electricity Regulatory Commission established by the State Government under Section 17 of the Electricity Regulatory Commission Act, 1998 and functioning as such, immediately before the appointed date, shall be the State Electricity Regulatory Commission for the purpose of the Act.

1.2. Functions of BERC:

As per Section 86 (1) of the Electricity Act 2003, the State Commission shall discharge the following functions, namely:

- i). Determine the tariff for generation, supply, transmission and wheeling of electricity, wholesale, bulk or retail, as the case may be, within the State. Provided that where open access has been permitted to a category of consumers under section 42, the State Commission shall determine only the wheeling charges and surcharge thereon, if any, for the said category of consumers;
- ii). Regulate electricity purchase and procurement process of distribution licensees including the price at which electricity shall be procured from the generating companies or licensees or from other sources through agreements for purchase of power for distribution and supply within the State;
- iii). Facilitate intra-state transmission and wheeling of electricity;
- iv). Issue licenses to persons seeking to act as transmission licensees, distribution licensees and electricity traders with respect to their operations within the State;
- v). Promote co-generation and generation of electricity from renewable sources of energy by providing suitable measures for connectivity with the grid and sale of electricity to any person, and also specify, for purchase of electricity from such

- vi). sources, a percentage of the total consumption of electricity in the area of a distribution licensee;
- vii). Adjudicate upon the disputes between the licensees, and generating companies and to refer any dispute for arbitration;
- viii). Levy fee for the purposes of this Act;
- ix). Specify State Grid Code consistent with the Indian Electricity Grid Code specified with regard to grid standards;
- x). Specify or enforce standards with respect to quality, continuity and reliability of service by licensees;
- xi). Fix the trading margin in the intra-state trading of electricity, if considered, necessary; and
- xii). Discharge such other functions as may be assigned to it under this Act.

1.3. Brief history and Profile of DISCOMs

Discoms (North Bihar Power Distribution Company Limited (NBPDCCL) and South Bihar Power Distribution Company Limited (SBPDCL) have been formed under the 'Bihar State Electricity Reforms Transfer Scheme 2012' duly segregating the Distribution business of the Bihar State Electricity Board.

The Discoms/South Bihar Power Distribution Company Limited and North Bihar Power Distribution Company Limited (SBPDCL and NBPDCCL) are companies registered under the Companies Act 1956 and are subsidiary companies of Bihar State Power (Holding) Company Limited (BSPHCL)

Discoms being distribution licensee as per section 14 of the act, have the universal obligation to supply electricity to all the consumers of the State. The table below presents status of key data relating to power supply by the Discoms in Bihar as on 31st March, 2024.

Table 1.1: Existing Distribution infrastructure as on 31st March, 2024

Sl. No	Particulars	Unit	NBPDCCL	SBPDCL
1	Number of electrified villages	No	20552	18521
2	Number. of Consumers	No	126.94 Lakhs	75.03 Lakhs
3	Number. of Capacity of	No/MVA	633/9847.5	615

Sl. No	Particulars	Unit	NBPDCCL	SBPDCL
	33/11kV Substations			
4	No. of Capacity of 11/0.4 kV 3 phase Transformers	No/MVA	194862/11890	141233
5	Length of 33kV Line	CKM	9748.3	8878
6	Length of 11kV Line	CKM	78834.2	60991.5
7	Length of LT Line	CKM	206106	147179
8	Distribution Line	CKM	294688	228600

1.4. Admission of Current Petition and Public Hearing Process

Discoms have filed the current petitions on 15.11.2024 for Truing-up of FY 2023-24, Annual Performance Review for FY 2024-25, Annual Revenue Requirement (ARR) for control period FY 2025-26 to FY 2027-28 and determination of Tariff for Retail sale of electricity for FY 2025-26.

Under Section 62 of the Electricity Act 2003 read with Bihar Electricity Regulatory Commission (Multi Year Distribution Tariff) Regulations, 2021 and 2024. The Commission is issuing the combined order for ARR and Tariff (Case No. 29/2024 and 33/2024 (NBPDCCL); Case No. 30/2024 and 34/2024 (SBPDCL) for FY 2025-26.

The Commission admitted the aforesaid Petitions on 02.01.2025. In accordance with Section 64 of EA 2003 and Regulation 11(10) of Bihar Electricity Regulatory Commission (Multi Year Distribution Tariff) Regulations, 2021 and 2024. the Commission directed the Discoms to publish the Tariff Petition in an abridged form in at least two daily newspapers, one in English and the other in Hindi, having wide circulation in the State of Bihar inviting objections and suggestions from the stakeholders on Tariff Petition. Discoms were also directed to publish the schedule for Public Hearing along with the Public notice inviting comments/suggestions/objections. The Public notice was issued in the following newspapers as given below.

Table 1.2: Details of Publication of Public Notice

Sl. No	Name of utility	Name of News Paper	Language	Date of Publication
1	NBPDCCL	Prabhat Khabar, Muzaffarpur	Hindi	18.01.2025
2		Prabhat Khabar, Bhagalpur	Hindi	18.01.2025
3		Dainik Jagran, Bhagalpur	Hindi	01.09.2025
4		Hindustan, Gaya	English	01.09.2025
5		Dainik Bhaskar, Bhagalpur	Hindi	01.02.2025
6		Hindustan, Patna	English	01.09.2025
7		Hindustan, Muzaffarpur	English	01.09.2025
8		Times of India, Patna	English	01.09.2025

Sl. No	Name of utility	Name of News Paper	Language	Date of Publication
9		Prabhat Khabar, Patna	Hindi	18.01.2025
10		Times of India, Patna	English	03.02.2025
11		Hindustan, Patna	English	01.02.2025
12		Hindustan, Gaya	English	01.02.2025
13		Hindustan Times, Patna	English	18.01.2025
14		Hindustan, Muzaffarpur	English	01.02.2025
1	SBPDCL	Hindustan, Patna	English	10.01.2025
2		Prabhat Khabar, Patna	Hindi	10.01.2025
3		Prabhat Khabar, Bhagalpur	Hindi	10.01.2025
4		Prabhat Khabar, Muzaffarpur	Hindi	10.01.2025
5		Times of India, Patna	English	10.01.2025
6		Hindustan Times, Gaya	English	11.01.2025
7		Dainik Jagran, Patna	Hindi	17.01.2025
8		Dainik Jagran, Bhagalpur	Hindi	17.01.2025
9		Dainik Jagran, Muzaffarpur	Hindi	17.01.2025
10		Times of India, Patna	English	17.01.2025
11		Hindustan, Patna	English	02.02.2025
12		Hindustan, Gaya	English	02.02.2025
13		Prabhat Khabar, Muzaffarpur	Hindi	02.02.2025
14		Prabhat Khabar, Bhagalpur	Hindi	02.02.2025
15		Times of India, Patna	English	03.02.2025

The Tariff Petitions were also placed on the website of the Discoms (NBPDC & SBPDCL) for inviting objections and suggestions on the petitions and copies of the Petitions along with annexures were also made available for sale in the Office of the Chief Engineer (Commercial), NBPDC, 3rd Floor, Vidyut Bhawan-I, Bailey Road, Patna and Chief Engineer (Commercial), SBPDCL, 2nd Floor, Vidyut Bhawan-I, Bailey Road, Patna. The interested stakeholders were asked to file their comments/objections/suggestions on the Petition on or before 31th January, 2025 which was further extended to 07th Feb 2025.

On preliminary verification of the Petition, the Commission vide Letter No. BERC-Case No.29/2024/975 & BERC-Case No.33/2024/974 dated 05.12.2024 (NBPDC) and Letter No. BERC-Case No.30/2024/972 & BERC-Case No.34/2024/973 dated 05.12.2024 (SBPDCL), directed the Petitioners to submit additional information/clarification data on the Tariff Petition filed by them. NBPDC and SBPDCL submitted replies vide Letter No. NB/COM/TP-25-26/rev/120/2024part-1737 dated 17.12.2024 and Letter No.SBC/312/2024-2049 dated 18.12.2024 respectively.

On further careful examination of this tariff petitions, the petitioners (NBPDC and

SBPDCL) were further directed to submit some more data/ clarification; vide following letters of BERC:

1. Letter No. BERC-Case No.-29/2024-1038 dated 24.12.2024 (NBPDCL)
2. Letter No. BERC-Case No.-30/2024-1039 dated 24.12.2024 (SBPDCL)
3. Letter No. BERC-Case No.-29/2024-50 dated 15.01.2025 (NBPDCL)
4. Letter No. BERC-Case No.-30/2024-48 dated 15.01.2025 (SBPDCL)

Discoms have replied vide the following letters

1. Letter No-NB/COM/TP-25-26/REV/120/2024 part-1803 dated 27.12.2024 (NBPDCL)
2. Letter No-SBC/312/2024 -2112 dated 27.12.2024 (SBPDCL)
3. Letter No-NB/COM/TP-25-26/PMC/118/2024 part-55 20.01.2025 & NB/COM/TP-25-26/PMC/118/2024 part-71 dated 28.01.2025 (NBPDCL)
4. Letter No-SBC/312/2024 -88 dated 20.01.2025 & SBC/312/2024-148 dated 28.01.2025 (SBPDCL)

The Commission, informed the Discoms vide Letter No- BERC-Case No.-29 & 33/2024-115 dated 29.01.2025 (NBPDCL) and Letter no- BERC-Case No.-30 & 34/2024-119 dated 30.01.2025 (SBPDCL) regarding the dates of Technical Validation session with the representative of Discoms. Accordingly Technical Validation session was conducted on 29.01.2025 and 30.01.2025 with the officers of the DISCOMs and officers of the Commission and carried out the necessary corrections wherever necessary.

On careful examination of this tariff petitions, and after due discussions during technical validation sessions, the petitioners (NBPDCL and SBPDCL) were directed to submit some more data/ clarification vide Letter No-BERC-Tariff (MISC)-02/24-128 dated 31.01.2025 (NBPDCL) and BERC-Tariff (MISC)-02/24-129 dated 31.01.2025 (SBPDCL)

Discoms have replied vide the following letters

NBPDCL –NB/COM/TP-25-26/PMC/118/2024 part 165 dated 14.02.2025
 SBPDCL-Letter No-SBC/312/2024-213 dated 14.02.2025

All the additional information/ clarifications were taken on record for consideration and determination of ARR and the retail tariff.

As per notification given in the public notice, the Commission has conducted the Public hearings at Munger (SBPDCL) on 11.02.2025, Jahanabad (SBPDCL) on 15.02.2025, Chapra (NBPDC) on 08.02.2025, Darbhanga (NBPDC) on 13.02.2025 and at Patna for both Discoms on 20.02.2025.

The Commission has received all together several written objections/ suggestions from consumers and other stakeholders during the aforesaid hearings the Commission directed the Discoms to submit the replies/ responses to these suggestions/ objections of the stakeholders with a copy to the Commission. The Discoms have submitted the replies/ responses to the Commission as per the details mentioned below:

Table 1.3: Reply to Stakeholder's Comments/ Suggestions/ Objections

Sl.No	Name of Persons/ Stake Holders/ Organization which raised objection	Name of Organization	Letter No and date through which Objections sent to DISCOMs	Letter No and date of Reply received from DISCOMs
1.	AASA Party, Munger	Vidyuth Upaboktha Morcha, Patna	BERC letter no 146 dated 17.02.2025	Letter No-284 dated 28.02.2025
2.	Bihar Industries Association, Patna	Reliance Jio Infocomm Ltd		
3.	Confederation of Real Estate Developers Association of India (CREDAI), Bhagalpur	Bojpur Chamber of Commerce & Industry		
4.	Sri. Shivanand Kumar, Munger	Bihar Industries & Association		
5.	Chamber of Commerce, Jamalpur	Bharatiya Communist Party		
6.	Chamber of Commerce, Munger	Stakeholder		
7.	Bihar Gas Manufacturers Association	Vidyuth Upaboktha Morcha, Patna		
8.	Satyam Jee Pipes	Stakeholder		
9.	Global Energy Alliance for People and Planet	Vidyuth Upaboktha Mahasangh, Patna		
10.	KEDIA, Unique Food processing unit, Muzaffarpur	Group of Consumers		
11.	Divisional Chamber of Commerce & Industries, Darbhanga	North – Eastern Bihar Chamber of Commerce & Industry		
12.	Vidyut Upbhokta Sangarsh Samiti, Gaya	North Bihar Chamber of Commerce & Industry		

Sl.No	Name of Persons/ Stake Holders/ Organization which raised objection	Name of Organization	Letter No and date through which Objections sent to DISCOMs	Letter No and date of Reply received from DISCOMs
13.	Rose Rice Industries, Jehanabad	Airtel		
14.	Indian Group of industries, Jehanabad	Stake Holder		
15.	Natraj Engineers Pvt. Ltd., Patna	Indian Energy Exchange (IEX)	BERC letter no 170 dated 26.02.2025	Letter no. 318 dated 07.03.2025
16.	Bihar Industries Association, Patna	Digital Infrastructure Providers Association		
17.	Patwari Engineers Pvt. Ltd.	Vidyuth Upabhoktha Sangarsh Samithi		
18.	BCCI	Jan Sangarsh Morcha		
19.	Jyoti Engineering	Member of Parliament		
20.	Dina Iron & Steel Ltd., Patna			
21.	Bihar Gas Manufacturers Association	Stakeholder		
22.	HPCL Biofuels Limited, Patna	Bihar Industries Association		
23.	Bihar Steel Manufacturers Association	Akhilya Nharat Grahak Panchayat		
24.	Auro Sundram Foods & Feeds Pvt. Ltd., Patna	Gram Swaraj Sangh Bihar	BERC letter no 178 dated 24.02.2025	Letter no. 284 dated 28.02.2025
25.	Patna Metro Rail Corporation	Nandi Grace School		
26.	Shri Er. Nand Sharma	Chamber of Commerce, Gopalganj	BERC letter no 131 dated 05.02.2025	Letter no. 266 dated 25.02.2025
27.	Bharti Airtel Ltd, Patna	Vidyuth Upbhokta Mahasangh , Bihar		
28.	Bihar Industries Association, President	North Western BCCI		
29.	GNA Energy Pvt. Ltd., Gurugram, Haryana	BCCI		
30.	Prof. Pramod Kumar Sharma, Dilawarpur, Bidupur Bazar, Vaishali	Bihar Gas Manufacturers Association		
31.	Sri. Ashok Seetharam	Patna		
32.	COAI; Director General	Purnea Chamber of Commerce		
33.	Vishnu Sugar Mills Ltd., Gopalganj	Reliance Jio Infocom Ltd	BERC letter no 143 dated 10.02.2025	Letter no. 266 dated 10.02.2025
34.	North-Western Bihar Chamber of Commerce & Industries	Bijili Upabokhta Sangarsh samiti		
35.	Sri. Ajay Kumar Yadav	Patwari Stels Pvt Ltd		

The proposal of Discoms was also placed before the State Advisory Committee (SAC) in its meeting held on 15th January, 2025 and various aspects of the petitions were discussed in the meeting. The Commission solicited the advice/ comments/ suggestions of the State Advisory Committee on the petitions. The minutes of the meeting are given in Annexure-1.

As per notification given in the public notice, the Commission has conducted the Public hearings at Munger (SBPDCL) on 11.02.2025, Jahanabad (SBPDCL) on 15.02.2025, Chapra (NBPDCCL) on 08.02.2025, Darbhanga (NBPDCCL) on 13.02.2025 and at Patna for both Discoms on 20.02.2025.

1.5. Approach of this Order

The Commission has examined the petitions and additional information submitted by the petitioners and has observed that further additional data/ information and clarifications are required for conducting detailed analysis of the petitions. The Commission, accordingly directed the Discoms to submit the additional data/information and clarifications vide following letters.

NBPDCCL:

1. Lr. No. BERC-Case No.29/2024/975 & BERC-Case No.33/2024/974 dated 05.12.2024
2. Lr. No. BERC-Case No.-29/2024-1038 dated 24.12.2024
3. Lr. No. BERC -Case No.-29/2024-50 dated 15.01.2025
4. Lr. No. BERC -Tariff (MISC)-02/24-128 dated 31.01.2025

SBPDCL:

1. Lr. No. BERC-Case No.30/2024/972 & BERC-Case No.34/2024/973 dated 05.12.2024
2. Lr. No. BERC-Case No.-30/2024-1039 dated 24.12.2024
3. Lr. No. BERC-Case No.-30/2024-48 dated 15.01.2025
4. Lr. No. BERC-Tariff (MISC)-02/24-129 dated 31.01.2025

The Discoms submitted additional information/data/clarifications vide following

letters:

NBPDCCL:

1. Lr. No. NB/COM/TP-25-26/rev/120/2024part-1737 dated 17.12.2024.
2. Lr. No. -NB/COM/TP-25-26/REV/120/2024 part-1803 dated 27.12.2024.
3. Lr. No. No- NB/COM/TP-25-26/PMC/118/2024 part-55 20.01.2025 & NB/COM/TP-25-26/PMC/118/2024 part-71 dated 28.01.2025.
4. Lr. No. –NB/COM/TP-25-26/PMC/118/2024 part 165 dated 14.02.2025.

SBPDCL :-

1. Lr. No. SBC/312/2024-2049 dated 18.12.2024.
2. Lr. No. SBC/312/2024 -2112 dated 27.12.2024
3. Lr. No. SBC/312/2024 -88 dated 20.01.2025 & SBC/312/2024-148 dated 28.01.2025
4. Lr. No. SBC/312/2024-213 dated 14.02.2025

The Commission has undertaken Truing-up for FY 2023-24, Annual performance Review (APR) for FY 2024-25, determination of ARR for control period FY 2025-26 to FY 2027-28 and Retail Sale of Electricity for FY 2025-26 in accordance to the BERC (Multi Year Distribution Tariff) Regulations, 2021 and 2024 based on the Tariff petitions and additional information submitted by the Discoms.

1.6. Organisation of Order

This order is divided into Ten (10) chapters as detailed below:

- i). **First Chapter** provides introduction to Discoms
- ii). **Second Chapter** contains a summary of Tariff petitions
- iii). **Third Chapter** provides a brief account of the Public Hearing process objections raised by stakeholders, Petitioner's response and Commission's views on the same.
- iv). **Fourth Chapter** deals with the Truing up for FY 2023-24
- v). **Fifth Chapter** deals with the Annual Performance Review for FY 2024-25

- vi). **Sixth Chapter** deals with Business Plan control period for FY 2025-26 to FY 2027-28
- vii). **Seventh Chapter** deals with the Annual Revenue Requirement for FY 2025-26 to 2027-28
- viii). **Eighth Chapter** Voltage wise cost of supply
- ix). **Ninth Chapter** deals with the Transmission and Wheeling charges for Open Access customers
- x). **Tenth Chapter** deals with Tariff Principles, Design and Tariff Schedule for FY 2025-26
- xi). **Eleventh Chapter** deals with the Directives

2. Summary of Petition filed for Truing up for FY 2023-24, APR for FY2024-25, ARR for FY 2025-26 to FY 2027-28

2.1. Petitions filed by DISCOMs

The summary of Petitions filed by DISCOMs for truing up for FY 2023-24, Annual Performance Review for FY 2024-25, Aggregate Revenue Requirement (ARR) and Business plan for control period FY 2025-26 to FY 2027-28 and Revenue Gap projected for FY 2025-26 are as given in Tables below:

Table 2.1 Summary of the Tariff Petition filed by NBPDCCL

(Rs. Crore)

SI No.	Particulars	FY 2023-24 (Actual) True up		FY 2024-25 (Estimated) APR		Projected in MYT ARR FY 2025-26	Projected in MYT ARR FY 2026-27	Projected in MYT ARR FY 2027-28
		Approved in Tariff Order dated 23.03.2023	Now Claimed in Truing-up of FY 2023-24	Approved in Tariff Order dated 01.03.2024	Revised Estimates for APR for FY 2024-25			
1	No. of consumers	12041203	12694191	13220457	13027567	13373631	13733210	14107026
2	Connected Load (KW)	13109925	13249349	14265716	13914901	14619978	15368799	16164613
3	Sales to consumers (MU)	14752.43	17510.38	16,935.05	16009.22	16240.19	17114.37	18049.18
4	Intra-state Transmission Loss (%)	3.00%	3.22%	3.00%	3.00%	3.00%	3.00%	3.00%
5	Distribution loss (%)	15.00%	13.38%	14.55%	14.55%	14.47%	14.39%	14.31%
6	Energy required at state Trans. Periphery (MU)	17,809.08	17,747	20376.46	18613	19574.96	20609.37	21714.79
7	Capital Expenditure	2,094.93	1,850.55	3716.12	2870.52	4,639.47	1,295.78	31.83
8	Capitalization	91.64	887.96	3000.06	3798.63	3,836.90	2,298.13	593.45
9	Power purchase cost	8,981	9,872	10623.29	9894	10289	11798	13804
10	Transmission Charges	1,538	1,516	2267.46	1741	1915	2107	2317
11	O&M Expenses (A+B+C+D)	990	1,104	1309.3	1384	1,910	2,336	2,470
A	Employee expenses	481	484	527.33	520	521	559	600
B	R&M expenses	265	266	279.09	277	280	321	347

SI No.	Particulars	FY 2023-24 (Actual) True up		FY 2024-25 (Estimated) APR		Projected in MYT ARR FY 2025-26	Projected in MYT ARR FY 2026-27	Projected in MYT ARR FY 2027-28
		Approved in Tariff Order dated 23.03.2023	Now Claimed in Truing-up of FY 2023-24	Approved in Tariff Order dated 01.03.2024	Revised Estimates for APR for FY 2024-25			
	A&G expenses	219	216		233	286	319	355
	Rent charges for smart prepaid meterts	-	104		316	781	1091	1118
C	Total A&G expenses	219	319	477.12	549	1067	1410	1473
D	Holding Company expenses	25	34	25.76	38	41	45	50
12	Depreciation	362	513	489.88	678	779	837	865
13	Interest on loan	547	531	696.12	591	768	897	917
14	Other finance charges	57	77	61.35	84	93	102	112
15	Return on equity	413	421	453.97	524	639	772	836
16	Interest on SD	23	4.31	31.87	33	35	38	40
17	"Interest on working capital"	-	-	-	-	16	18	19
18	Bad and Doubtful debts	-	-	-	-	-	-	-
19	Energy Savings Certificate (ESCerts)	-	10.04	-	-	-	-	-
20	Demand Side Management	-	-	30	30	33	36	40
21	Aggregate Revenue Requirement (ARR)	12,912	14,049	15,963.24	14,959	16,477	18,941	21,419
22	Less: Non-tariff income	1,170	732	783.03	412	483	482	483
23	Net ARR	11,742	13,317	15,180.16	14,546	15,994	18,459	20,935
24	Revenue from sale of Energy	13996	14003		14055	14627		
25	Gap/(Surplus)	(2254)	(686)		491	1367		
26	Less: (Gains)/Loss on account of controllable factors absorbed by the Licensee	-	(234)	-	-	-	-	-
27	Add : Impact of Review Order dated 07.11.2022 relating to True	*574	574					

SI No.	Particulars	FY 2023-24 (Actual) True up		FY 2024-25 (Estimated) APR		Projected in MYT ARR FY 2025-26	Projected in MYT ARR FY 2026-27	Projected in MYT ARR FY 2027-28
		Approved in Tariff Order dated 23.03.2023	Now Claimed in Truing-up of FY 2023-24	Approved in Tariff Order dated 01.03.2024	Revised Estimates for APR for FY 2024-25			
	up for FY 2020-21							
28	Add: Revenue Gap/(Surplus) of earlier FY	*(195)	(195)	899.14	-	(650)	-	-
29	Net Gap/(Surplus).	(1,875)	(541)	602.31	491	717	-	-

* The figure mentioned in column 3 of 25th and 26th rows are respective impact of previous years' (i.e FY 2020-21 and FY 2021-22) Gap/ (Surplus) and has been factored in the trued-up ARR of FY 2023-24 as a full and final settlement and the revenue claimed for FY 2023-24 is the revenue collected during FY 2023-24 as reflected in the audited accounts of FY 2023-24.

Table 2.2 Summary of the Tariff Petition filed by SBPDCL

(Rs. Crore)

SI No.	Particulars	FY 2023-24 (Actual) True up		FY 2024-25 (Estimated) APR		Projected in MYT ARR FY 2025-26	Projected in MYT ARR FY 2026-27	Projected in MYT ARR FY 2027-28
		Approved in Tariff Order dated 23.03.2023	Now Claimed in Truing-up of FY 2023-24	Approved in Tariff Order dated 01.03.2024	Revised Estimates for APR for FY 2024-25			
1	No. of consumers	7042850	7502885	7610949	7,725,449	7,958,197	8,201,736	8,456,715
2	Connected Load (KW)	13499408	12901909	13295998	13,574,090	14,400,329	15,308,545	16,311,177
3	Sales to consumers (MU)	16654.10	20822.21	19679.09	19281.54	20253.51	22173.40	24413.22
4	Intra-state Transmission Loss (%)	3.00%	3.19%	3.00%	3.00%	3.00%	3.00%	3.00%
5	Distribution loss (%)	15.00%	18.00%	17.49%	17.49%	17.40%	17.32%	17.23%
6	Energy required at state Trans. Periphery (MU)	20,199.03	22,143.24	24588.20	23238	25,278	27,648	30,407
7	Capital Expenditure	1914.86	1421.81	2890.38	2127	3,773.03	1,651.26	482.93
8	Capitalization	759.76	961.96	1608.06	2797.51	3,371.08	2,814.17	921.08
9	Power purchase cost	10,419	12,288	12725.85	11614	12079	13850	16204
10	Transmission Charges	1806	1925.00	2661.79	2044	2,248	2,473	2,720

SI No.	Particulars	FY 2023-24 (Actual) True up		FY 2024-25 (Estimated) APR		Projected in MYT ARR FY 2025-26	Projected in MYT ARR FY 2026-27	Projected in MYT ARR FY 2027-28
		Approved in Tariff Order dated 23.03.2023	Now Claimed in Truing- up of FY 2023-24	Approved in Tariff Order dated 01.03.2024	Revised Estimates for APR for FY 2024-25			
11	O&M Expenses (A+B+C+D)	1,166	1,270	1369.20	1481	1,801	2,036	2,168
A	Employee expenses	710	706	763.62	758	790	848	911
B	R&M expenses	274	274	287.91	290	308	357	397
	A&G expenses	155	162	290.90	174	210	233	259
	Rent Charges for smart prepaid meters	0	94		221	451	551	551
C	Total A&G expenses	155	256		395	661	784	810
D	Holding Company expenses	27	35	26.77	38	42	46	51
12	Depreciation	365	360	425.05	424	505	572	595
13	Interest on loan	444	394	517.80	474	623	776	845
14	Other finance charges	71	147	124.84	162	178	196	216
15	Return on equity	379	341	407.99	422	516	646	725
16	Interest on SD	41	18	58.24	56	60	64	67
17	"Interest on working capital"	0	0	-	-	18	23	26
18	Bad and Doubtful debts	0	1	-	1	1	1	1
19	Energy Savings Certificate (ESCerts)	-	35	-	-	-	-	-
20	Demand Side Management	-	0	30.00	30.00	33.00	36	40
21	Aggregate Revenue Requirement (ARR)	14690	16780	18320.77	16,708	18,063	20,672	23,607
22	Less: Non-tariff income	758	323	407.99	195	263	263	263
23	Net ARR	13,932	16,456	17912.78	16513	17,800	20,410	23,344
24	Revenue from sale of energy	16610	16736	18144.54	17,356	18,593		

SI No.	Particulars	FY 2023-24 (Actual) True up		FY 2024-25 (Estimated) APR		Projected in MYT ARR FY 2025-26	Projected in MYT ARR FY 2026-27	Projected in MYT ARR FY 2027-28
		Approved in Tariff Order dated 23.03.2023	Now Claimed in Truing- up of FY 2023-24	Approved in Tariff Order dated 01.03.2024	Revised Estimates for APR for FY 2024-25			
25	Gap/ (Surplus)	(2,678)	(280)		(843)	(792)		
25	Less: (Gains)/Loss on account of controllable factors absorbed by the Licensee	-	(182)		-	-	-	-
26	Add : Impact of Review Order dated 07.11.2022 relating to True up for FY 2020-21	*1033	1033		-	-	-	-
27	Add: Revenue Gap/(Surplus) of earlier FY	*3515	3515	(1250.94)	-	4908	-	-
28	Net Gap/(Surplus)	1870	(4087)	(1482.71)	(843)	4116	-	-

* The figure mentioned in column 3 of 25th and 26th rows are respective impact of previous years' (i.e FY 2020-21 and FY 2021-22) Gap/ (Surplus) and has been factored in the trued-up ARR of FY 2023-24 as a full and final settlement and the revenue claimed for FY 2023-24 is the revenue collected during FY 2023-24 as reflected in the audited accounts of FY 2023-24.

2.2. Tariff Proposals

The Discoms have proposed the rate of retail tariff for FY 2025-26 as shown in the table below

**Table 2.3 Tariff Rates Existing (FY 2024-25) and Proposed for FY 2025-26 by Discoms for
Retail Sale of Electricity**

Existing Category	Approved Tariff for FY 2024-25				Proposed Tariff for FY 2025-26			
	Fixed Charge	Unit	Energy charge	Units	Fixed Charges	Units	Energy Charge	Units
Low Tension supply								
Domestic Kutir Jyoti								
Metered 0-50	20	Month/Connection	7.42	KWh	20	Connection/Month	7.42	KWh
Above 50			As per DS-I or DS -II				As per DS-I or DS -II	
DS I Rural Metered (Demand Based)								
First 50 Units	40	kW/Month	7.42	kWh	40	kW/Month	7.42	KWh
Above 50 units			7.96	kWh			7.42	
DS II Demand Based								

Existing Category	Approved Tariff for FY 2024-25				Proposed Tariff for FY 2025-26			
	Fixed Charge	Unit	Energy charge	Units	Fixed Charges	Units	Energy Charge	Units
First 100 Units	80	kW/Month	7.42	kWh	80	kW/Month	7.42	kWh
Above 100 units			8.95	kWh			8.95	kWh
DS III Demand Based (Optional)	80	kW/Month	9.03	kWh	80	kW/Month	9.03	kWh
Non -Domestic Service								
NDS I – Metered Demand Based								
First 100 Units	60	kW/Month	7.79	kWh	60	kW/Month	7.79	kWh
Above 100 Units			8.21	kWh			8.21	kWh
NDS II-Demand Based								
Contract load upto 0.5 kW	200	Month/Connection	7.73	kWh	200	kW/Month	7.73	kWh
Contract Demand above 0.5 kW & upto 70 kW								
First 100 Units	300	kW/Month	7.73	kWh	300	kW/Month	7.73	kWh
Above 100 Units		kW/Month	8.93	kWh			8.93	kWh
Street Light Services								
SS Metered	100	kW or part /Month	9.03	kWh	100	kW /Month	9.03	kWh
SS Unmetered	4250	kW or part /Month	--	-	4250	kW or part thereof/Month	-	-
Irrigation & Allied Services								
IAS I								
Unmetered	1350	HP or part /Month	--	--	1350	HP or part thereof /Month	--	--
Metered	100	HP or part /Month	6.74	kWh	100	HP or part thereof /Month	6.74	kWh
IAS II								
Metered	500	kVA or part /Month	7.17	kVAh	500	kVA or part thereof /Month	7.17	kVAh
Public Service Connections								
Public Water Works	630	kVA or part /Month	9.72	kVAh	630	kVA /Month	9.72	kVAh
Har GharNal	100	HP or part /Month	8.16	kWh	100	HP or part thereof /Month	8.16	kWh
Low Tension Industrial Services (Demand Based)								
LTIS I (0-19 kW)	288	kVA or part /Month	7.79	kVAh	288	kVA /Month	7.79	kVAh
LTIS II (>19 kW – 74 kW)	360	kVA or part /Month	7.79	kVAh	360	kVA /Month	7.79	kVAh
LT Electric Vehicle charging stations								
Metered			8.72	kVAh			8.72	kVAh
High Tension (General)								
HTS I -11kV	550	kVA/Month	7.98	kVAh	550	kVA/Month	7.98	kVAh
HTS II – 33kV	550	kVA/Month	7.92	kVAh	550	kVA/Month	7.92	kVAh
HTS III -132 kV	550	kVA/Month	7.85	kVAh	550	kVA/Month	7.85	kVAh
HTS IV – 220kV	550	kVA/Month	7.79	kVAh	550	kVA/Month	7.79	kVAh

Existing Category	Approved Tariff for FY 2024-25				Proposed Tariff for FY 2025-26			
	Fixed Charge	Unit	Energy charge	Units	Fixed Charges	Units	Energy Charge	Units
HTS V – 400kV	550	kVA/Month	7.72	kVAh	550	kVA/Month	7.72	kVAh
High Tension (Industrial Service)								
HTIS I -11kV	550	kVA/Month	7.98	kVAh	550	kVA/Month	7.98	kVAh
HTIS II – 33kV	550	kVA/Month	7.92	kVAh	550	kVA/Month	7.92	kVAh
HTIS III -132 kV	550	kVA/Month	7.85	kVAh	550	kVA/Month	7.85	kVAh
HTIS IV – 220kV	550	kVA/Month	7.79	kVAh	550	kVA/Month	7.79	kVAh
HTIS V – 400kV	550	kVA/Month	7.72	kVAh	550	kVA/Month	7.72	kVAh
HTSS 33kV/11kV	800	kVA/Month	4.94	kVAh	800	kVA/Month	5.94	kVAh
HTSS 132 kV/220kV	800	kVA/Month	4.94	kVAh	800	kVA/Month	5.94	kVAh
HTS-I (Oxygen Manufacturers 11 kV)	1000	kVA/Month	5.43	kVAh	1000	kVA/Month	5.43	kVAh
HTS-I (Oxygen Manufacturers 33 kV)	1000	kVA/Month	5.37	kVAh	1000	kVA/Month	5.37	kVAh
Railway Traction Services								
RTS	540	kVA/Month	8.16	kVAh	540	kVA/Month	8.16	kVAh
HT Electric Vehicle Charging station								
Metered			7.85	kVAh			7.85	kVAh

3. Stakeholder's Objections / Suggestion, Petitioners' Response and Commission Observation

3.1. Introduction

Under section 64 (2) and (3) of Electricity Act, 2003 Commission directed the petitioner to publish an abridged form of the petition in the newspapers and upload the tariff petition along with additional information for inviting comments, suggestions, objections from general public and stakeholders. Public hearings on the petitions were scheduled to be conducted on the following dates and places:

DISCOM	Date	Place
NBPDC	08.02.2025	Chapra
NBPDC	13.02.2025	Darbhanga
SBPDCL	11.02.2025	Munger
SBPDCL	15.02.2025	Jahanabad
NBPDC and SBPDCL combined	20.02.2025	Patna

3.2. List of Names of the Objectors / Stakeholders

The following stakeholders and general public submitted their written comments/suggestions and objections:

Sl. No.	Name of the Objectors/Stakeholder
1.	AASA Party, Munger
2.	Bihar Industries Association, Patna
3.	Confederation of Real Estate Developers Association of India (CREDAI), Bhagalpur
4.	Sri. Shivanand Kumar, Munger
5.	Chamber of Commerce, Jamalpur
6.	Chamber of Commerce, Munger
7.	Bihar Gas Manufacturers Association
8.	Satyam Jee Pipes

9.	Global Energy Alliance for People and Planet
10.	KEDIA, Unique Food processing unit, Muzaffarpur
11.	Divisional Chamber of Commerce & Industries, Darbhanga
12.	Vidyut Upbhokta Sangarsh Samiti, Gaya
13.	Rose Rice Industries, Jehanabad
14.	Indian Group of industries, Jehanabad
15.	Natraj Engineers Pvt. Ltd., Patna
16.	Bihar Industries Association, Patna
17.	Patwari Engineers Pvt. Ltd.
18.	BCCI
19.	Jyoti Engineering
20.	Dina Iron & Steel Ltd., Patna
21.	Bihar Gas Manufacturers Association
22.	HPCL Biofuels Limited, Patna
23.	Bihar Steel Manufacturers Association
24.	Auro Sundram Foods & Feeds Pvt. Ltd., Patna
25.	Patna Metro Rail Corporation
26.	Shri Er. Nand Sharma
27.	Bihar Industries Association, President
28.	GNA Energy Pvt. Ltd., Gurugram, Haryana
29.	Prof. Pramod Kumar Sharma, Dilawarpur, Bidupur Bazar, Vaishali
30.	COAI; Director General
31.	Vishnu Sugar Mills Ltd., Gopalganj
32.	North-Western Bihar Chamber of Commerce & Industries
33.	Sri. Ajay Kumar Yadav
34.	Bharti Airtel Ltd, Patna
35.	Sri. Ashok Seetharam

3.3. Comments / Suggestions of Stakeholders, reply by Petitioner and views of the

Commission:

The Commission is issuing common tariff order for NBPDCCL and SBPDCL. The comments/suggestions and objections submitted by stakeholders/general public for NBPDCCL and SBPDCL separately are being grouped issue-wise and are being examined and considered jointly in the light of the responses received from the Discoms as under:

3.3.1 Fixed/Energy charges:**Stakeholders' submission**

- I. Fixed charges should be eliminated and the market selling rate of electricity should be reduced. The tariff of HT consumers in the state is based on 11/33/132/220 kV voltages. The power tariffs and fixed charges in Bihar are higher than the adjoining states.
- II. Reduction in the fixed charges by ₹250 and per unit charges by ₹1 to be on par with the other states and promote industrial development in the state.
- III. DISCOMS to levy different fix charges, for summer and winter months particularly for some of the seasonal industries like Agriculture, cold storages, Hotels, Food Processing units, where the load of electricity depend upon season.
- IV. Fixed charges for oxygen manufacturers (currently ₹1,000/KVA) should be aligned with other HTIS consumers (₹550/KVA) to maintain fairness.
- V. Reduce the fixed charge for urban domestic consumers from ₹80/kW/month to ₹50/kW/month.

Petitioners' response:

The proposed tariff schedule for FY 2025-26 does not include any tariff increase except for HTSS. In the instant tariff petition for approval of Retail supply tariff for FY 2025-26 including truing up of FY 23-24, annual performance review of FY 24-25 has been prepared based on the actual Audited Accounts of the petitioners, BERC MYT Tariff Regulations and all other applicable regulations issued by the Commission time to time. The Honorable Commission fixes the tariff after due diligence and according to the powers granted to it by the Electricity Act, 2003 (specifically 62(1)(d), 63(3), and

64(3) and the BERC (Multi-Year Distribution Tariff) Regulations, 2024.

With regard to fixed charges for seasonal industries, fix/demand charges are being recovered by the petitioner for recovery of the expenses incurred on upgradation and up keeping of the its network/ infrastructure in terms of the BERC (Fixation of charges for supply of electricity by Distribution licensee), Regulation-2018. Further, as most of the consumer categories are under the demand based tariff under which fixed charges are being levied considering the actual demand and contracted demand of the consumer.

With regard to tariff in the adjoining states, different DISCOMs have different cost structure consisting of power procurement cost, O&M cost and other expenses. Power procurement cost is a major part of overall expenditure to provide power supply to consumers, which further depends upon the nature of PPAs, variations in coal pricing, demand etc.

In reference to tariff comparison with other states, it is worthwhile to mention that unlike other states, Government of Bihar is also providing tariff subsidy to HT consumer categories. Therefore, the net applicable tariff after subsidy for HTIS Category in Bihar is lower than that in the other states.

Commission's view:

The Commission has noted the submission of the stakeholders and reply of the Petitioner.

The Commission, while designing retail supply tariff structure for FY 2025-26, has kept in view the principles of determination of tariff as set out in the Electricity Act, 2003, Tariff Policy, 2016 and the BERC (MYT Distribution Tariff) Regulations 2024.

The Electricity Act, 2003 mandates the Commission to strike a balance between the interests of various stakeholders including utilities and consumers. The Commission endeavors to ensure that the tariff determined should reasonably reflect the cost of supply for each consumer category and also ensure appropriate fixed cost recovery for utilities from fixed charges. The Commission determines the tariff in line with the guiding principles in the Electricity Act and the policy and regulations framed under

the Act.

3.3.2 Installation of Prepaid Meters in Government Buildings

Stakeholders' submission

- I. The state government directive to install prepaid meters in government buildings by 30 November 2024 has not been complied
- II. To complete installation of prepaid smart meter in government and semi-government buildings before going for installation of prepaid smart meters for general consumers.

Petitioners' response:

The smart prepaid meters are being installed in the phase wise manner in the state to all applicable consumers along with govt. premises. Further, in more than 80% of govt. offices/ premises, smart pre-paid meters have been installed by the petitioner(s).

Commission's view:

The Commission has noted the submission of the stakeholders and reply of the Petitioner(s).

3.3.3 Metered connection for Irrigation consumers and Streetlights

Stakeholders' submission

- I. Suggestion for metered system for fairer billing to irrigation consumers as they are unmetered presently and are being charged @ ₹1350 per HP per month even though they use electricity only for a part of the year.
- II. Metered connection for unmetered streetlights as the current rate of ₹4250 per Kw per month results is a huge financial burden for municipal bodies.

Petitioners' response:

Metered connection for streetlights and IAS-unmetered consumers, any fixed charge that is being paid is as per the current regulatory framework and terms and conditions of PPAs that have been approved by the Commission. Further, the tariff proposal for FY 2025-26 is submitted as per the extant Regulations and guidelines of the

Commission. Further, the petitioner hereby submits that supply is being provided to its consumers only after installation of proper metering arrangements except few consumers under un-metered categories in IAS-I and Street light which is in accordance with the tariff schedule as notified by the Commission which will be metered in phase wise time bound manner.

Commission's view:

The Commission has repeatedly directed the DISCOMs to provide 100% meters to all categories of consumers. In view of inability expressed by the DISCOMs towards providing metered connections to some categories, the Commission has provided an interim arrangement by way of determination of charges for unmetered consumers of IAS-I and street light categories. Commission is of the view that this interim arrangement should not continue for long and all unmetered connections should be provided with proper metering arrangements as soon as possible. Separate direction in this regard is also being issued.

3.3.4 Power Factor Incentive:

Stakeholders' submission

- I. Power factor incentive should be continued to encourage efficiency. (All industrial consumers)
- II. Request for the removal of power factor penalty for NDS consumers.
- III. Residential and small business owners should be exempted from power factor charges, as their power factor is typically high due to low usage of inductive loads, as opposed to large industrial users who have a significant demand for reactive power.
- IV. Immediate upgradation of infrastructure to increase the power factor in rural and semi-urban areas of the state and suggested holding awareness campaigns to educate consumers about power factor.

Petitioners' response:

Bihar DISCOMs have not proposed for KVAh based billing system for NDS-I and NDS-II consumer category in its MYT tariff petition for FY 2025-26. For the smooth rollout of

smart prepaid meters and easy understanding of bills/ amount charged in the energy bills of the consumer petitioner has proposed non-levying of power factor surcharge till 31st March 2026 for Agriculture and NDS consumer only. Further, the petitioner has not proposed any change in methodology from KWh to KVAh or vis-a-versa. Also, Power factor surcharge is not applicable to the Domestic consumer and categories having kVAh based billing.

Commission's view:

The Commission has noted the stakeholders' views and petitioner's response.

The petitioner response is misconceived as it has been stated that the DISCOMs has not proposed for KVAh based billing system for NDS-I and NDS-II consumer category in its MYT tariff petition for FY 2025-26. In fact, on this issue the petitioners while referring to non-approval of KVAh based tariff for NDS-1 and NDS-2 category consumers in the tariff order dated 01.03.2024, have made the following submission in the current tariff petition under the head **Non-applicability of Power factor surcharge for Agricultural and NDS category** *"In the absence of KVAh based billing system, there are several instances wherein Agricultural and NDS consumer categories are protesting due to levying of Power factor surcharge"*.

Also the Petitioner's case no 32/2024 has inter alia made following prayers to this Commissions:

10 (c) adjourn power factor surcharge, as specified in the Tariff Orders for FY 2024-25 dated 01.03.2024 for single phase LT smart meter consumption for period till 31st arch 2026, otherwise request to introduce kVAh based billing system to such category of consumers, whichever is earlier.

The Commission has addressed this issue in subsequent chapter of this order.

3.3.5 Time of Day (TOD) Tariff Structure:

Stakeholders' submission

- I. It is suggested to implement Time of Day (ToD) billing for LT consumers as optional.
- II. Introduction of discounted ToD tariffs during off-peak hours (11:00 PM to 9:00 AM) to promote usage during this period.

- III. Instead of imposing peak-hour surcharges, Bihar should encourage industrial consumption using surplus power. Off-peak rebates should be allowed from 11 pm to 9 am to support industries that operate at night.
- IV. Existing TOD norms should remain unchanged for at least three years to assess their impact. The stakeholder pointed out that DISCOMs have surplus power, which is being sold at low rates on the exchange, making such a change unnecessary.
- V. It is suggested that the existing TOD of eight hours per day should be increased and not reduced, as 90% of the industrial units in the state work in single shifts.
- VI. ToD tariff should not be applicable for Metro Train operation.
- VII. The higher tariff during the evening hours would cause much inconvenience to households and businesses.
- VIII. Instead of increasing tariffs, the company should tackle electricity theft and internal corruption.
- IX. Increase in industrial electricity costs will have serious consequences such as the following:
 - ❖ Increase in production costs making industries less competitive
 - ❖ Threat to employment as higher costs lead to job cuts
 - ❖ Reduction in industrial growth discouraging new investments
 - ❖ Threat to the survival of small-scale industries
 - ❖ Supply chain disruptions affecting businesses
 - ❖ Export market challenges
 - ❖ Burden on farmers and agro-processing units due to increased input costs
 - ❖ Stagnation in infrastructure development due to higher operational costs
 - ❖ Shifting of industrial operations to lower-tariff states
 - ❖ Overall economic slowdown

To review the tariff structure for industrial consumers, providing discounts or subsidies to maintain business viability and ensuring fair pricing policies that balance industrial growth and power sustainability.

Petitioner's response:

The Commission in its Tariff Order dated 01.03.2024 and review order dated 30.09.2024 while Truing up of FY 2022-23 had approved the Time of Day (ToD) tariff for all HT consumers and had also directed the Petitioner to extend the ToD tariff for

all Commercial and Industrial consumers having Maximum Demand > 10 KW with effect from 1st April 2024, Further, the Commission had also directed the Petitioner to take all necessary steps to ensure that the provisions of Electricity (Rights of consumers) Amendments Rules, 2023 for providing ToD tariff to all consumers except agriculture is made effective not later than 1st April 2025.

It is worthwhile to mention that the Petitioner is in process of implementing Prepaid Smart metering to all consumer categories across the state in the phase wise manner. More than 50 lakhs of Smart Prepaid Meters have been installed in the state of Bihar till date. Therefore, the Petitioner hereby requests the Commission to extend the ToD tariff structure across all consumer categories for which Prepaid Smart meters are installed and are having Maximum Demand > 10kW (excluding Agriculture consumer) with effect from 1st April 2025. The proposed ToD tariff structure by DISCOM is in line with MoP Electricity (Rights of consumers) Amendments Rules, 2023

With reference to Metro train operation, Metro train operates at high voltage and therefore is the HT consumer and as per MoP Rules ToD tariff may be applicable for Metro Train.

Commission's view:

The Commission has noted the stakeholders' views and Petitioner's response and has dealt with this issue in the relevant chapter.

3.3.6 Competitive Electrical Tariff

Stakeholder's submission

It is submitted that to ensure robust industrial growth and attract new investments, the state must implement competitive electrical tariff rates for the industrial sector. Despite creating a separate category for HT industrial consumers called High Tension Industrial Service (HTIS), consumers are yet to be classified under it.

For oxygen gas manufacturers, a new incentive was proposed. For load factors 65%-75%, 15 paise/unit rebate and for load factor above 75% a 25 paise/unit rebate. It observed that competitive electricity rates are crucial to attract new bulk consumers; otherwise, they may shift to DVC.

Petitioners' response

The proposed tariff schedule for FY 2025-26 does not include any tariff increase except for HTSS. DISCOM's hereby submits that the tariff petition for truing up of FY 23-24, annual performance review of FY 24-25, Annual revenue requirement for FY 25-26 to 27-28 and retail sale of electricity for FY 25-26 has been prepared based on the actual Audited Accounts of the petitioners, BERC MYT Tariff Regulations and all other applicable regulations issued by the Commission time to time. The Honorable Commission fixes the tariff after due diligence and according to the powers granted to it by the Electricity Act, 2003 (specifically 62(1-d), 63(3), and 64(3) and the BERC (Multi-Year Distribution Tariff) Regulations, 2024.

The Petitioner submits that for change of category from one tariff rate schedule to another provision is already there in the BESC- 2007 clause 7.8 of Chapter-7. Further, documents such as Udyog Aadhar/ CIN Registration certificate issued by industry department as proof for manufacturing industry is also required for which petitioner has already issued request letters.

The HTIS (Oxygen Manufacturers) have lowest tariff among all the existing consumer category. The Petitioner respectfully submits that the proposed tariff schedule for FY 2025-26 does not include any tariff increase in HT oxygen Manufacturer category.

Commission's view

The Commission has noted the stakeholders' views and Petitioner's response and has dealt with this issue in subsequent chapter.

3.3.7 Separate Tariff:

Stakeholders' submission

Welcomed the proposal for a separate tariff for cold storage segment and suggested that the definition of cold storage should include all units processing dairy, meat, fish, poultry and horticultural products.

It requested for consideration of a special tariff structure for sugar mills and Metro Rail operations in Patna, similar to ferro-alloy and oxygen manufacturing industries, considering their seasonal nature of operations.

Petitioner's response:

Introduction of cold storage (exclusively for storing of Agriculture products) has been proposed by the petitioner in line with the various request from the agriculture

dept./bodies. Further, the petitioner has proposed that eligible consumer should also be required to submit the certificate from the Agriculture/industry dept. for availing such benefit.

Regarding special tariff structure for Metro rail, the petitioner submitted that the Ministry of Power, Govt. of India emphasizes on tariff rationalization and simplification of tariff structure primarily based on voltage of supply. It is pertinent to mention that unlike in other states such as Delhi, Uttar Pradesh wherein separate electricity tariff for traction and non-traction service exist, metro rail in Patna has not become operational. Therefore, electricity connection for development work of metro rail at Patna is provided under HT category. Further, it is worthwhile to mention that creation of a separate tariff category based on the usage of electricity, may further complicate the tariff structure. As per Section 62 (3) of the Electricity Act, 2003 the Commission has the power to differentiate any consumer of electricity its load factor, power factor, voltage, total consumption of electricity during any specified period or the time at which the supply is required or the geographical position of any area, the nature of supply and the purpose for which the supply is required.

It is noteworthy to mention that BERC determines the tariff in accordance with Bihar Electricity Regulatory Commission (Multi Year Tariff) Regulations, 2021 and Bihar Electricity Regulatory Commission (Multi Year Tariff) Regulations, 2024 and assessing the suggestions / proposals received from various consumer's groups, industries, and other stakeholders.

Commission's view:

The Commission has noted the stakeholders' views and Petitioner's response and has dealt with this issue in subsequent chapter. So far as tariff rates for Metro rail is concerned it is to say that a separate petition has been filed by PMRC (Patna Metro Rail Corporation) which is in process of hearing . Orders of the Commission on the above petition shall be applicable.

3.3.8 Security Deposit for Prepaid meters:

Stakeholders' submission;

It requests for immediate refund of security deposit charged for prepaid meters installed in the state.

It is submitted that interest on consumer security deposits should be credited automatically in April or May.

It is submitted that since prepaid metering requires advance payment for electricity, the security deposit held by DISCOMS should either be refunded or adjusted against future bills.

Petitioners' response:

Security deposit of consumers, where smart prepaid meter has been installed is being refunded/adjusted in the monthly bills of respective consumers. Further where new connection is being issued with smart prepaid meter, Security Deposit is not collected from the consumers. However in order to verify the actual amount of security deposited by the consumer and to ascertain the original security money received, petitioner have formulated a mechanism through online portal by which after verification, amount of security deposit are being refunded/adjusted in the monthly bills in the form of recharge to the respective consumers.

Regarding interest on security deposit, the interest accrued on the Security deposit by the consumers as per the provisions of BESC-2007 clause 7.15 (7).

Further, petitioner submits that the details of amount of interest on security deposit refunded/adjusted for the consumers are being submitted to the BERC in compliance to the Directives issued.

Commission's view:

The Commission has already issued directives to the petitioners on the issue of refund of security deposit along with interest for those consumers whose postpaid connection is converted into prepaid connection through smart prepaid meters. It transpires that the system formulated by the licensee for refund of security deposit (with interest) is a bit complicated and lacks transparency and clarity resulting in aforementioned comments by the stakeholders. It may be appreciable if a better methodology is adopted for refund of security deposit without much hassle.

3.3.9 Demand Charges:

Stakeholders' submission

Proportionate reduction in demand charges in case of power supply disruptions.

Lowering of fixed demand charges to a reasonable level, implementing a tiered pricing model and reviewing the charges at periodic intervals.

It is suggested to lower fixed demand charges, simplifying the connection process, and providing temporary incentives to new industrial ventures to foster growth.

Petitioner's response:

As per existing Tariff order, the Commission had linked the recovery of fixed charges in full only if the supply of power duly recorded by a consumer meter (except streetlights, Agriculture and all unmetered categories of consumers) is maintained for at least 21 hours/day during the billing month. In any month if the supply of power is less than 21 hours/ day, then the demand charge for that month shall be levied on pro-rata basis. Petitioner has not proposed any amendment or revision to the same.

Commission's view:

The Commission has noted the stakeholders' views and Petitioner's response and has dealt with this issue in relevant chapter.

3.3.10 Solar Rooftop Net Metering:

Stakeholder's submission:

The units accumulated throughout the year for solar rooftop net metering consumers, which lapses in March, should be allowed to be carried forward or credited as cash in their accounts. Compensation for solar energy generated and fed into the grid be incorporated in the tariff, as per Net Metering regulations, promoting renewable energy utilization.

Petitioners' response:

The settlement for the net metering is done in line with the Bihar Electricity Regulatory Commission (Rooftop Solar Grid Interactive Systems Based on Net and Gross Metering) Regulations, 2018 and its Amendment.

Bihar DISCOMs are undertaking programs for installation of Rooftop solar grid interactive systems under PM Surya Ghar: Muft Bijli Yojana in the state. This provides opportunity for consumers to become eligible for Net-metering arrangement wherein consumers are benefitted due to accounting of Net-metering (unit to unit; import-export accounting). This leads to promoting renewable energy utilization.

Further, it is pertinent to mention that as per Bihar Electricity Regulatory Commission (Rooftop Solar Grid Interactive Systems Based on Net and Gross Metering) Regulations, 2018 the eligible consumer may install the rooftop solar system under

net or gross metering arrangement. The relevant extract of the aforesaid regulations is provided hereunder:

“3. Scope and Application

3.1 These Regulations shall apply to the distribution licensee and eligible consumers of electricity of distribution licensee of the State of Bihar.

3.2 The eligible consumer may install the rooftop solar system under net or gross metering arrangement which,

a) shall be within the permissible rated capacity as defined under these Regulations.

b) shall be located in the consumer premises.”

Commission’s view:

The Commission has noted the stakeholders’ views and Petitioner’s response and is of the opinion that the settlement of solar power generated through Roof top solar projects under net metering is guided by BERC (Rooftop Solar Grid Interactive Systems Based on Net and Gross Metering) Regulations, 2018 and its subsequent amendments.

3.3.11 Outstanding dues:

Stakeholders’ submission

Recovery of dues from big defaulters and government departments.

The outstanding dues in DISCOM balance sheets should be addressed by introducing a One-Time Settlement (OTS) scheme with a waiver facility of Delayed Payment Charges (DPS) requiring only energy charge payments.

Petitioner’s response:

Smart prepaid meters are being installed in the phase wise manner in the state. Larger implementation of smart prepaid meters would lead to automatic recovery of past arrears from defaulting consumers, including from government departments, in a stipulated timeframe and the impact is expected to be positive in the upcoming years. Further DISCOM hereby submit that for the revenue arrears primarily on account of the dues pending from the Govt. consumers efforts have been taken regularly to recover the pending dues from government department on monthly basis. Further, Govt. Departments have been requested to make adequate provision in their budget allocation so that all the electricity dues to Discoms are being paid by the end of a financial year. Further the petitioner has established a dedicated cell at Headquarter

office to keep track of the billing and payment of big defaulters and Govt. consumers to ensure the timely issuance of bills & recovery of payment from govt. departments.

Commission's view:

The Commission has noted the stakeholders' views and Petitioner's response.

3.3.12 Smart Meters:

Stakeholder's submission:

Consumers using smart meters should receive a 2.5% discount upfront on recharges, similar to the 1.5% prompt payment discount for old meters.

Petitioners' response:

No response has been given by petitioner.

Commission's view:

This issue has been dealt with the relevant chapter of this order

3.3.13 Change of KWh Billing:

Stakeholder's submission:

The proposed change of kWh billing to kVAh should not be implemented as it would lead to increase in billing of non-domestic and IAS-I category consumers by at least 10% to 20%.

It requests to retain kWh billing instead of transitioning to kVAh billing.

It objects the proposal to change billing for NDS I & II consumers from kWh to kVAh, as it would result in a 10-20% increase without actual tariff revision.

Non-domestic consumers should not be billed using kVAh.

Petitioners' response:

kVAh based billing system is always beneficial for the consumers as well as for the Discoms to plan the development of electrical systems in a better way because kVAh measures the apparent energy which represents the actual loading on the system. Without knowing the actual loading of the system, planning of electrical generation, transmission and distribution is difficult.

Further, petitioner for the smooth rollout of smart prepaid meters and easy understanding of bills' amount charged in the energy bills of the consumer has proposed for non-levying of power factor surcharge till 31st march 2026 for Agriculture and NDS consumer. Further, the petitioner has not proposed any change

in methodology from KWh to KVAh or vis-a-versa.

Regarding KVAh billing for non-domestic and IAS-1 consumers, Petitioner has not proposed KVAh based billing for non-domestic and IAS-I category of consumers.

Commission's view:

The Commission has noted the views of the stakeholders and the Petitioner's response. This issue has already been dealt with in para 3.3.4 above.

3.3.14 Infrastructure Cost:

Stakeholders' submission

Objects to the proposal charging consumers for erecting and dismantling temporary service lines, stating that infrastructure costs should be borne by DISCOMs, not the consumers.

Petitioners' response:

For providing new connection/upgradation of existing connection the Petitioner are guided by the Chapter 4-New Service connection of BERC (Bihar Electricity Supply Code) 2007 and its Amendments. Further, these charges consist of supervision, labour and establishment charges for service connections as approved by the Commission from time to time.

Commission's view:

The Commission has noted the views of the stakeholders and the Petitioner's response

3.3.15 Power Theft:

Stakeholders' submission

Past estimates show that power theft was as high as 60%, but this has substantially reduced now. It raises concerns regarding the quality and cost of electricity, particularly for industrial consumers.

Petitioners' response:

The query is not related with the instant tariff petition filed by DISCOMs for FY 2025-26.

Commission's view:

The Commission has noted the views of the stakeholders and the Petitioner's response

3.3.16 Tariff Calculations:

Stakeholders' submission

The estimation of sales and revenue should be based on actual figures of 2023–24 and increase based on average of last five years should be allowed. Revenue should be taken on actual unit sales and Average Billing Rate (ABR) decided by BERC in the tariff order for FY 2023–24.

For calculating T&D losses, all purchases made at the highest rate should be disallowed, and any power purchase costs, late payment charges (LPC), interest payments, etc., of previous years should be excluded. It is submitted that revenue from excess power sales should be taken at ABR of ₹9 per unit, and not at the rate actually sold by them.

The opening balance of Gross Fixed Assets (GFA) for FY 2023–24 has to be the same as the closing balance of truing-up of FY 2022–23. Capital expenditure (Capex) and capitalisation projections should be adjusted, allowing only 50% of proposed capital expenditure.

It requests a comprehensive regulatory audit as per BERC regulations as lack of asset registers has led to over-depreciation of ₹257.66 crore.

Petitioners' response:

We are adhering to the established practice of projecting actual unit sales and the Average Billing Rate by applying the Compound Annual Growth Rate (CAGR) from the past five years, as stipulated by the BERC MYT Regulation 2024.

Bihar DISCOMs have filed the tariff petition for truing up of FY 2023-24, annual performance review of FY 2024-25 and Business plan and Annual revenue requirement for FY 2025-26 to FY 2027-28 and determination of tariff for FY 2025-26 based on the actual Audited Accounts for FY 2023-24, BERC MYT Tariff Regulations 2021, BERC MYT Tariff Regulations 2024 and all other applicable regulations issued by the Commission. Further, it is worth noting that power purchase at higher rate, such as IEX purchase, and others are undertaken during the peak hours in order to comply to the universal service obligation (USO) of Bihar DISCOMs.

Regarding GFA, aforesaid computation table in the tariff petition is based on the audited annual accounts for FY 2023-24 which complied in all material aspects with the Indian Accounting Standards (Ind AS) notified under the Companies (Indian Accounting Standards) Rules, 2015 and subsequent amendments thereto, the

Companies Act, 1956 (to the extent notified and applicable), applicable provisions of the Companies Act, 2013, and the provisions of the Electricity Act, 2003 to the extent applicable.

The Fixed Asset Register (FAR) for FY 2023-24 has been prepared and has already submitted for the Commission's review. The FAR has been compiled using financial records, incorporating essential details such as asset categories, acquisition years, values, and depreciation schedules.

Regarding comprehensive regulatory audit, all calculations and projections are based on the BERC MYT (Distribution) Regulations, 2021. We consistently adhere to the annual audited accounts of the respective DISCOMs, Indian accounting standards, and the Companies Act of 1956. All figures and projections included in this petition have been thoroughly reviewed and scrutinized by the Commission.

Commission's view:

The Commission has noted the views of the stakeholders and the Petitioner's response. This issue has been dealt with in the relevant chapter of this order.

3.3.17 Submissions on Terms of Supply:

Stakeholders' submission

No changes should be made in the terms and conditions of prevailing tariff schedule.

No deviations should be made from the Electricity Act, Electricity Rules, BERC Regulations and BERC norms while finalizing the retail electric tariff for FY 2025–26.

No changes should be made in terms, conditions and incentives through tariff petitions, as these are governed by the supply codes.

Petitioners' response:

The petitioner hereby submits that the prevailing terms and condition of supply in the state of Bihar are in line with the BERC Bihar Electricity Supply code 2007 and Amendments thereof and DISCOMs implement the guidelines issued from BERC and Ministry of Power (MoP) from time to time. Moreover, proposed amended/ changes are only wrt to earlier issued tariff orders.

It is worthwhile to mention that the Commission had invited all the members of Electricity Supply Code Review Panel (ESCRP) at BERC office for discussion on draft for

amendment in Bihar Electricity Supply Code during multiple meeting held.

Commission's view:

The Commission has noted the views of the stakeholders and the Petitioner's response.

3.3.18 Reduction in the Security Rate:

Stakeholders' submission

It requests for a reduction in the department security rate for HT consumers.

Petitioner's response:

HT consumers are required to pay security deposit in accordance with Bihar Electricity Supply Code 2007 and its amendments. The relevant extract of the BESC 2007 is provided hereunder:

"4.74 The licensee shall intimate the consumer within the time limit as specified in the Standards of Performance of Distribution Licensee Regulations, the charges required to be paid for the cost of extension, if any, and the amount of security deposit and other charges if any.

.....

7.15 Security Deposit

(1)(a) The licensee may take an initial security deposit from the prospective consumers for consumption equivalent to the estimated consumption of specific period as indicated in the table below.

S. No.	Nature of Consumer	No. of months	Remarks
1	Agricultural	Three	Annual average to be estimated/considered
2	Seasonal	Two	Consumption during the season of operation to be estimated/considered
3	Other consumers	Two	Annual average to be estimated/considered

Commission's view:

The Commission has noted the views of the stakeholders and the Petitioner's response

3.3.19 Flexibility to withdraw Deposited payment :

Stakeholders' submission

Electricity companies should provide interest on advance payments like banks do. Consumers should have the flexibility to withdraw their deposited funds when needed. This would benefit both the company and the public.

Petitioner's response:

The petitioner has already proposed interest on advance payment against his future bills. Rate of interest shall be allowed for interest equivalent to the Bank Rate of RBI. Such amount of interest shall be adjusted in subsequent monthly regular electricity bills on reducing balance, provided that the minimum amount of advance payment shall not be less than Rs.2000/-.

S. No.	Particulars	Details
5.	Advance Amount \geq Rs 2000 and period minimum three (3) months	RBI Bank Rate as applicable from time to time (Currently it is 6.75%)
6.	Advance Amount \geq Rs 2000 and period $>$ three (3) months & $<$ six (6) months	RBI Bank Rate as applicable from time to time plus 0.25% i.e. 7.00%
7.	Advance Amount \geq Rs 2000 and period $>$ six (6) months	RBI Bank Rate as applicable from time to time plus 0.25% i.e. 7.25%

Commission's view:

The Commission has noted the views of the stakeholders and the Petitioner's response. It is also observed that the advance deposited with licensees for adjustment against future electricity bills cannot be treated at par with deposit in bank account.

3.3.20 Load Shedding:

Stakeholders' submission

The load shedding for HT consumers should be planned and communicated in advance. The power quality should improve and uninterrupted power supply should be ensured 24x7. To attract industries into the state, power cost and quality of supply should be at par with or better than that in the neighboring states of West Bengal and Jharkhand.

Petitioner's response:

Bihar DISCOMs is providing quality and uninterrupted power supply to its customers, for more than 21 hours in rural areas and more than 22 hours in urban areas. Moreover, if a situation of power outage arise on account of break down or planned

maintenance, the consumers are informed through messages.

As per existing Tariff order, the Commission had linked the recovery of fixed charges in full only if the supply of power duly recorded by a consumer meter (except streetlights, Agriculture and all unmetered categories of consumers) is maintained for at least 21 hours/day during the billing month. In any month if the supply of power is less than 21 hours/ day, then the demand charge for that month shall be levied on pro-rata basis. Petitioner has not proposed any amendment or revision to the same.

No response has been given by petitioner for planned load shedding of HT consumers.

Commission's view:

The Commission has noted the stakeholders' views and Petitioner's response. This has been dealt with in the relevant Chapter of this order.

3.3.21 T&D Losses:

Stakeholders' submission

The allowable T&D losses for DISCOMs be capped at 10%.

T&D losses should be further reduced to meet the revenue requirement for the next financial year.

A target of 13% should be set for distribution losses and taking corrective action in divisions exceeding 15% loss.

DISCOMs should reduce distribution losses to 15%, as mandated by BERC, instead of the current 18%. Lower losses would benefit both consumers and DISCOMs, eliminating the need for tariff hikes.

HT consumption should increase to at least 25% (from the present 12%) to bring down T&D losses, maintain energy balance and promote economic development.

Benefit of T&D reduction in T&D loss should be passed on to the consumer.

Petitioner's response:

Bihar DISCOMs have been able to bring down the distribution losses through implementation of various initiatives over the years. It is pertinent to mention that distribution loss for NBPDCCL reduced from 25.62% in FY 16-17 to 13.38% in FY 23-24, and for SBPDCL reduced from 35.56% in FY 16-17 to 18.00% in FY 23-24. These figures are as per the audited annual accounts.

Ministry of Power, following discussions with the State Government and state

DISCOMs, has established various distribution and AT&C (Aggregate Technical & Commercial) loss targets for states, which have been approved by the Central Government under the RDSS (Revamped Distribution Sector Scheme). These targets are based on factors such as the differences in consumer mix, geographical conditions, socio-economic parameters, and other considerations, which vary across states.

Accordingly, the AT&C loss targets of Bihar Discoms under RDSS are provided below:

AT&C Loss	FY 21-22	FY22-23	FY23-24	FY24-25
NBPDCCL	25%	22%	19%	16%
SBPDCL	35%	31%	25%	20%

Further, it is pertinent to mention that sunset time for RDSS scheme as specified by Ministry of Power is 31st March 2025. And, therefore, AT&C loss trajectory for DISCOMs including for the Petitioner for FY 2025-26 and subsequent years is not known.

The Petitioner is making the best possible efforts reduce the losses with the introduction of feeder separation schemes, spot billing etc. and various other IT initiatives.

Commission's view:

The Commission has noted the stakeholders' views and Petitioner's response. This has been dealt with in the relevant Chapter of this order.

3.3.22 Collection efficiency:

Stakeholder's Submission

Collection efficiency of SBPDCL is not up to the mark. This led to very high AT&C losses. As collection efficiency is controllable factor, this should be improved on priority basis to prevent wastage of valuable National resource. Discoms are losing money due to poor collection efficiency and want to make up by overloading tariff. The collection efficiency will be 100% to bulk consumer and less for small consumers. Stress should be given to increase bulk consumers.

Petitioner's Response:

Collection efficiency of SBPDCL has increased from 85.33% in FY 20-21 to 94.90% in FY 23-24.

These stated figures of collection efficiencies are as per the Audited annual accounts.

Bihar Discoms are undertaking Smart Prepaid metering project under RDSS to all its urban and rural consumers. This is expected to enhance the billing and collection efficiency further of both the Discoms.

Commission's view:

The Commission has noted the stakeholders' views and Petitioner's response. This has been dealt with in the relevant Chapter of this order.

3.3.23 Increase in A&G Expenditure:**Stakeholders' submission**

Stakeholders demanded rollback of the proposal to increase the administrative and general (A&G) expenditures.

Petitioner's response:

Bihar DISCOMs have filed the tariff petition for truing up of FY 2023-24, annual performance review of FY 2024-25 and Business plan and Annual revenue requirement for FY 2025-26 to FY 2027-28 and determination of tariff for FY 2025-26 based on the actual Audited Accounts for FY 2023-24, BERC MYT Tariff Regulations 2021, BERC MYT Tariff Regulations 2024 and all other applicable regulations issued by the Commission. Moreover, it is worthwhile to mention that Bihar DISCOMs are in process of implementing prepaid smart metering across the state in phase wise manner. The increase in A&G expense is dominantly on account of prepaid smart metering implementation.

Commission's view:

The Commission has noted the stakeholders' views and Petitioner's response.

3.3.24 True-Up**Stakeholder's Submission**

That the Tariff Regulation, 2007 (Yet to be annulled, vide Regulation 22) provide certain conditions & limitation of the True up exercise carried out by the commission.

The licensee has projected hike in various operating expenses heads. The DISCOM has claimed Rs 17800.16 crores for the FY2024-25. Although there is no overall increase in demand over the approved outlay, there are various heads of expenditures.

Petitioner's Response:

The True-Up Petition for FY 2023-24 has been filed in strict compliance with the MYT Tariff Regulations 2021 and all related guidelines and regulations. The Petitioner has diligently adhered to the directives and provisions established by the Commission and has accordingly submitted the True-Up Petition. This filing reflects the actual expenses as recorded in the audited books of accounts.

Furthermore, Regulation 14.1(b) of the MYT Tariff Regulations 2021 emphasizes the requirement of truing-up expenses based on the following:

Expense Estimates: Projections made at the beginning of the financial year under consideration.

Actual Expenses: Expenditures as recorded in the audited accounts of the Distribution Licensee for the respective year.

Prudence Check: Evaluation and verification of the data by the Commission to ensure accuracy and compliance.

The Petitioner has ensured full compliance with these stipulations and submits this petition in line with the regulatory framework.

Commission's view:

The Commission has noted the stakeholders' views and Petitioner's response.

3.3.25 Timely Billing:

Stakeholders' submission:

DISCOM's failure to bill approximately 20% of consumers and relying instead on estimated average charges, while outstanding dues remain high. It is suggested that timely billing and recovery from all consumers to help lower electricity rates.

Ensure 100% billing to reduce unaccounted losses.

Petitioners' response:

The billing efficiency of NBPDCCL & SBPDCL has shown an increasing trend over the years. The petitioners have taken various steps to increase billing efficiency which has

been detailed out in petition and previous submissions to the Commission. Moreover, it is pertinent to mention that bills are served to 100% of its consumers by both the DISCOMs. The concern of the stakeholder regarding not billing 20% of the consumers is inappropriate and misleading.

Bihar Discoms are committed to improve its billing efficiency over the years and comply to the directions received from the BERC on regular basis and in the Tariff Order for DISCOMs.

Commission's view:

The Commission has noted the stakeholders' views and Petitioner's response. The licensees are expected to continue with the efforts to ensure 100% billing and collection.

3.3.26 Purchase Electricity at Higher Rates:

Stakeholders' submission:

The practice followed by DISCOMS to purchase electricity at high rates without negotiating better deals, leads to increased costs for consumers.

Petitioners' response:

To meet its power demand, Bihar DISCOMs (SBPDCL and NBPDCCL) mainly purchases power from the central sector generating stations of which major share is from NTPC stations whose tariff is determined by CERC. At the CERC determined Tariff, Bihar Discoms as well as other beneficiaries purchase power from these stations. Further DISCOMs provide comments/suggestions on CERC orders and regulation as deemed fit from time to time. It is to be noted here that all power procurement is being done strictly in accordance with extant Regulations specified by BERC/CERC. Further DISCOMs are dedicated towards optimizing power purchase cost including transmission charges in the state and proactively monitors the available options in getting low-cost power as compared to its higher cost long term PPAs.

Commission's view:

The Commission has noted the stakeholders' views and Petitioner's response. This has been dealt with in the relevant Chapter of this order.

3.3.27 Rebate:**Stakeholders' submission:**

- I. To offer rebates for DS II consumers on higher consumption, similar to those for HT consumers.
- II. To provide 5% rebate to consumers with prepaid meters and giving 5% interest on the minimum balance of each month.
- III. Oppose the move by DISCOMs to withdraw incentives such as Load Factor Rebate and online payment benefits.
- IV. Request to disallow the claim for prompt payment rebate under finance charges.
- V. The exclusion of 1% rebate on timely payment of power purchase cost from NTI should be disallowed.
- VI. The load factor rebate should be allowed on the entire energy consumption for all HT consumers and progressively increased.
- VII. All three tariff categories of HT should be merged and a voltage rebate of 6% introduced for each voltage level.
- VIII. The proposed capping of online payment rebate for HT consumers at ₹20,000 or 1% (whichever is lower) would discourage online payments, which have increased due to existing incentives. They urged no changes to maintain payment efficiency.
- IX. Some stakeholders opposed lowering of incentives for online payments and instead suggested increasing them, as smart meters reduce operational costs related to meter reading and billing.

Petitioners' response:

Bihar DISCOMs is already providing a rebate of 3% (2% prompt payment rebate and 1% rebate on online recharge) on energy charge for smart prepaid meter consumers in FY 2024-25, Further, the Petitioner has proposed to change this existing rebate of 3% by a rebate of Rs.0.25/KWh on energy charge for smart prepaid meter consumers for FY 2025-26. It is worth mentioning that the aforesaid proposition would provide clarity to consumers and avoid billing related issues and would help in smooth

adoption of smart prepaid meters by the consumers. States like Madhya Pradesh has similar arrangement of rebate in Rs/kWh terms for pre-paid system.

The current online payment system benefits large industrial and commercial consumers (HT/HTSS) over domestic and smaller commercial users. While the system incentivizes online payments with a 1% rebate, this primarily advantages HT/HTSS consumers who have fully adopted online payments and contribute significantly to the online payment rebate pool (over 5 lakhs per month in FY 2023-24). This creates an imbalance as the cost of the online payment rebate, included in the Aggregate Revenue Requirement (ARR) is borne by all consumers, while the benefits are skewed towards large consumers. To address this disparity and ensure a more equitable distribution of benefits, the Petitioner proposes capping the online payment rebate for HT/HTSS consumers at Rs 20,000 or 1%, whichever is lower. This adjustment would help curb the excessive financial advantage currently enjoyed by large consumers while maintaining an incentive for online payments.

Regarding prompt payment rebate issue, the prompt payment rebate has been introduced as a new category of expenditure, as this rebate is being offered to consumers. Consequently, the rebate provided to consumers is considered an expense incurred by DISCOMs, and it has therefore been claimed as a new head of expenditure.

Regarding three tariff categories merger, Ministry of power emphasizes upon tariff rationalization and BERC has accordingly designed the tariff structure. Bihar DISCOMs have also proposed some tariff initiatives for FY 2025-26 which do not include merger of HT categories. It is worthwhile to mention that HTIS category was created in order to provide incentive to the targeted industrial consumers.

Commission's view:

The Commission has noted the stakeholders' views and Petitioner's response. The Commission has dealt with the issue in relevant Chapter of this Order.

3.3.28 High Transmission Charges:

Stakeholders' submission:

The stakeholder raises concerns regarding the high transmission charges despite the presence of BGCL and urged the Commission to conduct a comparative study of transmission charges in other states.

Petitioner's Response:

Bihar DISCOMs are billed by the PGCIL and other transmission companies as per the Regulatory provisions. The state transmission charge has been determined as per the BERC approved rates and the inter-state transmission charge has been determined in accordance with the CERC regulations and approved norms followed by prudent check of the actual bills. For FY 2025-26, the transmission charges have been proposed after considering 10% escalation on transmission charge as derived by the Petitioner for FY 2024-25.

The DISCOMs are dedicated towards optimizing power purchase cost including transmission charges in the state. So, the Commission is kindly requested to approve the transmission and related charges for inter-state as well as intra-state transmission systems for FY 2025-26 as per petitions submitted by DISCOMs.

Commission's view:

The Commission has noted the stakeholders' views and Petitioner's response. The intra-state transmission charges is determined separately under the provisions of applicable Regulations and norms and after following the due regulatory process.

3.3.29 Power Purchase:

Stakeholders' submission

Make power purchase economical by considering shifting to power exchanges and procuring solar and hydel power.

Discoms should levy Fuel and Power Purchase Cost Adjustment (FPPCA) charges only with BERC approval, as power purchase cost increase is already considered in the trueing-up process.

The data available in the tariff petition for FY 2025-26 shows that the major portion of the Average Cost of Supply (ACS) is of power purchase cost and Transmission charges, compared to Distribution cost. It is therefore suggested that the Commission may like to scrutinize the

power purchase bill monthly or quarterly.

Power can be purchased through Energy Exchanges at prices which are lower than long term agreements. Therefore, we request Discoms to upgrade their technical and managerial systems to take advantage of the same. This will enable them to bring down the cost of power, thus benefiting all consumers.

Petitioner's Response:

The Bihar DISCOMs (SBPDCL and NBPDCCL) mainly purchases power from the central sector generating stations of which major share is from NTPC stations whose tariff is determined by CERC. At the CERC determined Tariff, the beneficiaries DISCOMs including Bihar DISCOMs purchase power from these stations. Further, all power procurement is done strictly in accordance with extant Regulations specified by BERC/CERC.

Further, it is pertinent to mention that power purchase cost for FY 2025-26 has been determined in accordance with BERC MYT Regulations 2024 and as per norms / guidelines issued by the Ministry of Power, wherever applicable. Furthermore, the Power purchase cost as claimed by the Petitioner is audited during the finalization of the Annual Accounts pursuant to verifications of the actual power purchase bills.

Moreover, Bihar DISCOMs are dedicated towards optimizing power purchase cost including transmission charges in the state and proactively monitors the available options in getting low-cost power as compared to its higher cost long term PPAs.

Regarding power purchase with energy exchange, electricity prices and availability at power exchange are time sensitive where the price and volume available vary from time to time. Considering the fact that DISCOMs are supplying power to consumers 24*7, dependency on exchange instead of long term PPA is not financially viable for meeting the demand in real time

Commission's view:

The Commission has noted the stakeholders' views and Petitioner's response.

3.3.30 Energy Efficiency:

Stakeholders' submission

Whether the DISCOM plans to promote adoption of energy efficient irrigation pumps.

Whether the DISCOM plans to accelerate the adoption of 5-star rated energy efficient air

conditioners and energy efficient BLDC fans in households and institutions.

Petitioner's Response:

No response has been given by petitioner.

Commission's view:

The Commission has noted the stakeholders' views and find the same not related with the present exercise.

3.3.31 Revenue Gap:

Stakeholder's Submission

Despite Commission's generosity of allowing more than 24% uniform hike in the tariff rates of all categories plus increase in fixed charges the SBPDCL have yet raised the ARR and the resultant gap of Rs. 2093.70 Cr. It is observed that deviation beyond approved expenditure is being proposed by SBPDCL.

Approve the Revenue Surplus amounting to Rs. 4789.31 Crore for the FY 2023-24 and pass on the impact of the same while determining the ARR and Tariff for the FY 2025-26.

Petitioner's Response:

Response to the above was submitted by SBPPDCL as below:

The Commission, in its order dated 1st March 2024, approved a Net Aggregate Revenue Requirement (ARR) of Rs. 17,912.78 crore and revenue at the revised tariff of Rs. 18,144.71 crore, resulting in a net surplus of Rs. 1,482.71 crore including revenue gap /surplus of FY 2022-23 with carrying cost. However, during the Annual Performance Review exercise, SBPDCL proposed a Net ARR of Rs. 16,513.38 crore, with projected revenue at the existing tariff amounting to Rs. 17,356.14 crore. This resulted in a standalone surplus of Rs. 842.76 crore and a net surplus of Rs. 2,093.70 crore. Furthermore, net ARR requirement has been decreased in APR Petition as compared to ARR order.

The point raised by the Stakeholder is therefore not valid, as the amount of Rs. 2,093.70 crore reflects a consolidated surplus, not a consolidated revenue gap.

The Revenue Gap / surplus for True-up of FY 2023-24 has been prepared based on the actual Audited Accounts for FY 2023-24, BERC MYT Tariff Regulations 2021, BERC 3MYT Tariff Regulations 2024, guidelines and directives issued by the BERC from time to time and under Section 45, 46, 47, 61, 62, 64 and 86 of the Electricity Act 2003 read with the relevant guidelines. The Hon'ble Commission is requested to approve the revenue gap for FY 2023-24

as claimed by the Petitioner in the instant tariff Petition.

Commission's view:

The Commission has noted the stakeholders' views and Petitioner's response. The Commission has dealt with the issue in relevant Chapter of this Order.

3.3.32 Demand Side Management (DSM) :

Stakeholders' submission

DISCOMs should share the DSM activities and initiatives done in the current and previous FYs with its learnings and impacts.

DISCOMs should consult stakeholders, domain experts, and relevant institutions to design DSM activities that maximize impact.

The DSM charges amounting to ₹30 crore claimed in the ARR for FY 2024–25 and subsequent years for both the DISCOMs should be disallowed.

Petitioner's response:

Bihar DISCOMs plans for long term power procurement to meet its base load/ demand and goes for short term power procurement only to cater to its peak demand. It is pertinent to mention that to achieve optimum power procurement, the load curve throughout the day needs to be as flat as possible.

To achieve this objective, the Petitioner considered the Time of Day (ToD) tariff as an effective tool for Demand Side Management, wherein an additional charge is levied for consumption of electricity during peak-hours and rebate is allowed for consumption during off-peak hours, in order to incentivize consumers to shift their consumption from peak to off-peak hours, for flattening of the load curve and minimizing the cost of power procurement to the distribution licensee.

It is worthwhile to mention that implementation of Prepaid Smart metering for consumers and system metering facilitates in effective implementation of ToD tariff thereby managing the DSM. In view of this, the Petitioner submitted plans to implement system and consumers metering under DSM activities during FY 2024-25. Further Petitioners through various consultations with stake holder, are also exploring other various aspect and implementation schemes for effective and further enhanced implementation of DSM activities in the states. Earlier also effective implementation

of DELP, UJALA & other government based DSM initiatives scheme were under taken by the Petitioners the state.

Regarding Claims towards DSM, Petitioner has provided the progress in respect to Demand Side Management during FY 2024-25 for which DSM charges of Rs 30 Cr was approved by the Commission during FY 2024-25 in response to BERC letter No. 972 and 973 dated 05.12.2024. It is therefore humbly requested that the Commission may approve the DSM charge of Rs.30 Crore for FY 2024-25.

Commission's view:

The Commission has noted the stakeholders' views and Petitioner's response. The Commission has dealt with the issue in relevant Chapter of this Order.

3.3.33 Energy Market:

Stakeholders' submission

North Bihar Power Distribution Company Limited (NBPDCCL) to utilise over-the-counter (OTC) platforms for short-, medium-, and long-term power procurement and sale as they allow flexible, cost-effective (OTC trading fee is 1.5 paise per unit as against licensee trading fee of ~4 paise per unit), and customised power purchase agreements (PPAs), unlike standardised contracts in other platforms.

The benefits of the OTC platform are:

Customisation of PPAs based on specific needs

Risk management through clauses like force majeure

Support for renewable energy via direct contracts

Expanded market access and competition for better sourcing

Data analytics for improved demand forecasting

Significant cost savings due to lower trading fees

Several state electricity regulatory commissions (Madhya Pradesh, Assam, and the Joint Electricity Regulatory Commission) have permitted power trading via OTC platforms and urged BERC to follow suit.

Petitioner's response:

Bihar DISCOMs purchases short-term, medium and long- term power in accordance with the BERC Power Purchase and Procurement Process of Licensee Regulation 2018 with an overall objective of optimizing the power purchase cost without adversely affecting the power supply position to the consumers.

Further, it is worthwhile to mention that Bihar DISCOMs are dedicated towards optimizing power purchase cost including transmission charges in the state and proactively monitors the available options in getting low-cost power as compared to its higher cost long term PPAs.

Commission's view:

The Commission has noted the stakeholders' views and Petitioner's response.

3.3.34 Contract Demand:

Stakeholders' submission

There should be flexibility to reduce or increase the contracted demand based on their operational needs, with adjustments allowed once per year. Currently, HT consumers are required to maintain a fixed contract demand of 7500 KVA throughout the year, even during the offseason (April to October) when their actual power requirement is only 1200 KVA per plant.

The minimum contract demand be reduced to 50% for all HT consumers. TOD should be changed and no penal charges should be levied between 5 pm to 5 am, and 20% rebate given between 5 am to 5 pm.

HTSS contract demand should be based on actual requirements and transformer capacity and not on outdated panel ratings.

Existing HTSS consumers at 33 kV may be allowed to enter into agreement for contract demand up to 20000 kVA at existing 33 kV system because for existing consumers it will be difficult to change their system from 33 kV system to 132 kV system as it will require huge investment.

It objects to the practice of automatically increasing contracted demand when a consumer exceeds 105% usage for three months. To counter this, it demands a mechanism which should be in place to reduce demand if consumption decreases over the next three months..

Petitioner's response:

Bihar DISCOMs provides the connections to the public transport system in accordance

with the Bihar Electricity Supply Code 2007 and its amendments thereof. The penalty, if any under the circumstances of contract demand violation is governed by the Bihar Electricity Supply Code 2007 and its amendments thereof. Further, the provision of any penalty / compensation, if any for any specific period is fixed by Bihar Electricity Regulatory Commission in accordance with Bihar Electricity Regulatory Commission (Multi Year Tariff) Regulations, 2021 Bihar Electricity Regulatory Commission (Multi Year Tariff) Regulations, 2024 and assessing the suggestions / proposals received from various consumer's groups, industries, and other stakeholders. Moreover, it is worthwhile to mention that the Commission had invited all the members of Electricity Supply Code Review Panel (ESCRP) at BERC office for discussion on draft for amendment in Bihar Electricity Supply Code during multiple meeting held on several days. All the meetings pertaining to ESCRP have been concluded. The key discussion points of consumer's representatives / stakeholders / DISCOMs have been assessed by the Commission and the same shall be published for the public comments at the earliest.

Regarding increasing contract demand if consumer exceeds contract demand by 105% for consecutive three months, The Petitioner hereby submits that in the instant Petition it is proposed to Suo motu enhance the load based on average load of last three months if it exceeds 105% of the contract demand continuously for 3 months. The proposition is essential to develop and maintain its distribution infrastructure as per the contract demand to supply quality and uninterrupted power to its consumers. Moreover, it is worthwhile to mention that the higher demand of the consumer is generally in the peak period wherein costly power is procured by the DISCOMs from the power exchanges and if the maximum demand capping is increased from 105%, it will allow the consumer to draw 5% additional costly power with no penalty which will be a burden on DISCOMs. Further, it is worthwhile to mention that the Electricity (Rights of Consumers) Amendment Rules, 2023 dated 14th June 2023 provisions the automatic revision of sanctioned load in the event of maximum demand recorded by the smart meter exceeds the Sanctioned Load in a month.

Regarding HTSS consumers agreement for contract demand 20000kVA, voltage for different contract demand has been specified by the commission in its Supply code and tariff order. As per BERC (Bihar Electricity Supply Code) Regulations, 2007 Regulation 3.4 the supply voltage for Minimum contract demand of 7500 kVA shall be 132 kV. Also, as per Tariff order

dated 01.03.2024 para 9.3 for minimum contract demand of 7.5 MVA for HTSS category, the supply voltage shall be 132 kV. Accordingly, the DISCOM specified and maintain the supply voltage as per the BERC Bihar Electricity Supply code Regulation and tariff order issued by Commission.

Commission's view:

The Commission has noted the stakeholders' views and Petitioner's response and makes following observations:

Regarding submission of the stakeholder for allowing contract demand up to 20000 kVA at 132 KV, it is to say that in course of public hearing the petitioners were directed to submit Technical Feasibility Report on the proposal which has not been submitted and therefore Commission is not addressing this issue at this stage. However, as the review of Supply code is under advance consideration of the Commission, this issue may be taken up at that time. As regards other aforementioned points, we have dealt with these points in relevant chapter of this order

3.3.35 Installation of LT Meters:

Stakeholders' submission

There are cases that due to non-availability of CT PT equipment, DISCOMs have installed LT meter to the consumers having HT connection for metering purpose. It is our humble submission that all such LT metering system, installed with HT consumers should immediately be replaced with HT metering system by installing CT PT.

Some HT consumers complains that they are installed with LT meter instead of HT meter. Because of this, they are being billed higher on account of higher transformer loss of tune to around 3%. It is requested to solve this problem.

Petitioner's response:

The Petitioner submits that for the metering purpose the Petitioner are guided by the Chapter 8-Metering of BERC (Bihar Electricity Supply Code) 2007 and its Amendments.

Commission's view:

The Commission has noted the stakeholders' views and Petitioner's response. Petitioners are expected to follow clause 8.3 of Supply Code in totality in such cases.

3.3.36 HTSS Tariff:

Stakeholders' submission

HTSS tariffs should be made optional, allowing flexibility to consumers to choose cost-effective options.

The proposed HTSS tariff increase and LF rebate restructuring should be rejected.

To disallow the proposed 20% increase in energy charges for HTSS, despite the discom having no revenue deficit.

To exclude HTSS consumers in the incentivisation scheme for increased consumption through improving load factor for HTIS consumers will hinder industrial growth.

The proposed incentives for HT industrial consumers (excluding HTSS) based on their load factor utilisation should be more attractive to encourage high-value consumers. As opposed to the proposed 10 paise/unit rebate for load factor of 30%-50%, the stakeholder has proposed 10 paise/unit rebate for 30% and 20 paise/unit rebate for 40% load factor. Similarly, as opposed to the proposed 20 paise/unit rebate for load factor of 50%-70%, it has proposed 30 paise/unit rebate for 50% and 40 paise/unit rebate for 60% load factor. In the same way, the DISCOM has proposed 30 paise per unit on energy charges for energy consumption over and above 70%, while it has proposed 50 paise/unit rebate for 70% and 60 paise/unit rebate for 80% load factor.

Petitioner's Response:

LF incentives for HTSS consumers are proving ineffective and financially detrimental to DISCOMs. While intended to encourage consumption and efficient load utilization, load factor incentives have failed to stimulate consumption growth. In fact, consumption in the first half of FY 2024-25 remained stagnant compared to the same period for previous year. This coupled with substantive incentive payouts has severely impacted Discoms net revenue collection. These incentives have driven energy charges below the DISCOMs variable cost of power purchase.

HTSS consumers already benefit from significantly discounted energy rates and consistently maintain high load factors (above 90%) due to their continuous processing nature. Therefore, as the current load factor incentive structure for HTSS consumers is unsustainable and had not contributed towards the consumption growth, this requires

immediate revision, accordingly the Petitioner has proposed the load factor rebate structure for HT consumers along with HTSS category consumer for the FY 2025-26.

Commission's View

The Commission has noted the stakeholders' views and Petitioner's response. This has been dealt with in relevant chapter of this order.

3.3.37 O&M Expenses:

Stakeholder's Submission

The petitioner claimed Rs.484.26 Crore for FY 2023-24; however audited accounts indicate Rs.482.67 Crore (refer table 15 under para 3.19.2.3 of NBPDCCL petition).

Petitioner's Response:

Regulation 22.1 of the BERC (MYT) regulation 2021 lays down the following excerpts for computation of Employee cost:

$$EMP_n = (EMP_b * CPI \text{ inflation}) + \text{Provision}$$

Where:

EMP_n : Employee expense for the year n

EMP_b : Employee expense as per the norm

CPI inflation: is the average increase in the Consumer Price Index (CPI) for immediately preceding three years

The petitioner hereby accordingly submits that Employee expenses for truing up of FY 2023-24 has been calculated in accordance with the said regulation.

Commission's View

The Commission has noted the stakeholders' views and Petitioner's response. This has been dealt with in relevant chapter of this order.

3.3.38 R&M Expenses:

Stakeholder's Submission

The Petitioner (NBPDCCL) has claimed Rs. 266.41 Crore towards R&M expenses for FY 2023-24 considering the K-factor of 1.24%.

Petitioner's Response:

Regulation 22.2 of the BERC (MYT) regulation 2021 lays down the following excerpts for computation of Repair and Maintenance Expense:

“Repairs and Maintenance expense shall be calculated as percentage (as per the norm determined) of Opening Gross Fixed Assets excluding land cost for the year governed by following formula:

$$R\&Mn = Kb * GFAn$$

Where: R&Mn: Repairs & Maintenance expense for nth year GFAn : Opening Gross Fixed Assets for nth year

Kb : Percentage point as per the norm”

The petitioner hereby accordingly submits that the Repair and Maintenance for truing up of FY 2023-24 has been calculated in accordance with the said regulation.

Commission’s View

The Commission has noted the stakeholders’ views and Petitioner’s response. This has been dealt with in relevant chapter of this order.

3.3.39 ARR:

Stakeholders’ submission

Information regarding following issues has been requested:

Abnormal increase in A&G expenses.

Number of consumers.

Holding company expenses.

High projection of Interest on Security Deposit.

Non-Tariff income.

Gross-Fixed Assests (GFA)

Grant of loan to create asset

Interest on Loan

Depreciation

Return on Equity

Other Finance charges

Petitioner’s Response:

Bihar DISCOMs have filed the tariff petition for truing up of FY 2023-24, annual performance review of FY 2024-25 and Business plan and Annual revenue requirement for FY 2025-26 to FY 2027-28 and determination of tariff for FY 2025-26 based on the actual Audited Accounts for FY 2023-24, BERC MYT Tariff Regulations 2021, BERC MYT

Tariff Regulations 2024 and all other applicable regulations issued by the Commission. Further regarding issues related to Holding company expenses, interest on security deposits and increase in A&G expenses, the following has been submitted the increase in A&G expense is dominantly on account of prepaid smart metering implementation.

Security deposit of consumers, where smart prepaid meter has been installed is being refunded/adjusted in the monthly bills of respective consumers. Further where new connection is being issued with smart prepaid meter, Security Deposit is not collected from the consumers.

For GFA and Grant of loan to assests, Bihar DISCOMs have considered the GFA and Grant of Loan as per their audited annual accounts. Further, it is worthwhile to mention that the audited annual accounts for FY 2023-24 which complied in all material aspects with the Indian Accounting Standards (Ind AS) notified under the Companies (Indian Accounting Standards) Rules, 2015 and subsequent amendments thereto, the Companies Act, 1956 (to the extent notified and applicable), applicable provisions of the Companies Act, 2013, and the provisions of the Electricity Act, 2003 to the extent applicable.

Regarding number of consumers, the consumer numbers for FY 2024-25 are projected considering the provisional figures as available for September 2024 and thereafter an appropriate growth rate across the categories have been considered by the end of FY 2023-24 over the previous year. Thereafter, the overall growth rate has been assumed to be around 4% for FY 2024-25 as compared to FY 2023-24. The following paragraphs capture highlights of the approach and assumptions used for projecting the specific category wise number of consumers, connected load and energy sales for the ensuing year.

The growth rate in KJY consumers was 2.2% in FY 2023-24 as compared to previous year. The consumers in this category was assumed to grow extensively in the recent past under various schemes. Thereafter, the overall growth rate has been assumed to be around 1% for FY 2024-25 and FY 2025-26.

The growth rate in DS-I consumers was around 8% in FY 2023-24 as compared to previous year. The consumer numbers for FY 2024-25 are projected considering the

provisional figures as available for September 2024 and thereafter an appropriate growth rate across the categories have been considered. Thereafter, the overall growth rate has been assumed to be around 3% for FY 2025-26.

The growth rate in DS-II consumers was around 1.9% in FY 2023-24 as compared to previous year. The consumer numbers for FY 2024-25 are projected considering the provisional figures as available for September 2024 and thereafter an appropriate growth rate across the categories have been considered. Thereafter, the overall growth rate has been assumed to be around 2% for FY 2025-26.

The Petitioner submits that it has estimated growth rate of 8% in NDS-I category while projecting number of consumers for FY 2025-26. The sales projections for NDS-I category is done in a way to rationalize the sales pattern for the category considering that the average consumption per consumer in previous years.

For NDS-II category (contract demand > 0.5 Kw), the consumer count has grown in FY 2023- 24 by 3.24% as compared to previous year. Further, 2 years and 3 years CAGR growth rate have been 5.01% and 5.14% respectively. The average of these comes to around 4.46%.

As per the third agricultural roadmap, Bihar has started work to set up dedicated feeders to provide electricity for agriculture. Hence a growth rate of 8% is estimated in the number of consumers for FY 2025-26 in IAS-I category.

The petitioner has submitted that the growth in number of consumers for FY 2025-26 is considered 3% for IAS-II category. A nominal growth rate of 2% is considered for FY 2025-26 to estimated sales under IAS-II category.

The petitioner has submitted that the consumer growth for LTIS-I category in FY 2025-26 is assumed to be a nominal as 8% due to a fluctuant growth rate shown over the years in the LTIS-I category. The average consumption per consumer has decreased over the years and has dipped by around 14% in FY 2023-24. Hence the growth in average consumption per consumer is considered to be 8% in 2024-25 and FY 2025-26.

The petitioner has submitted that the consumer growth for LTIS-II in FY 2025-26 is assumed to be 8% even though there has been a sharp increase in FY 2023-24 i.e., around 61%. It is further assumed that the increase in consumption will directly be

reflected through addition of consumers and an increase of 8% is considered to project the sales of FY 2025-26.

The Petitioner has estimated a growth rate of around 3% in number of consumers in FY 2025-26 in PWW category. In Har Ghar Nal Yojana the Petitioner submits a growth rate of 6% in 2025-26.

Commission's View

The Commission has noted the stakeholders' views and Petitioner's response. This has been dealt with in relevant chapter of this order.

3.3.40 Other Issues

i. Incomplete Information:

Consumer's / Stakeholder's submission

Incomplete data (number of HTIS consumers and number of consumed units) has been provided in the tariff proposal filed by SBPDCL for FY 2025–26, which is critical for decision-making.

Petitioner's response:

The Petitioner hereby submits that HTIS consumer category was created in FY 2022-23 to facilitate and promote industry friendly policies in the state of Bihar where any form of benefits or incentives or rebate in the cost of power to the stakeholders can be passed of more efficiently to this consumer category as notified by the govt. from time to time.

It is pertinent to mention that the actual consumer count under HTIS category for SBPDCL for FY 2023-24 is provided in table below:

HT-Industrial Services (nos. of consumer)	SBPDCL
HTIS (Industrial) —I (11 kV)	0
HTIS (Industrial)— II (33 kV)	0
HTIS (Industrial) - III (132 kV)	0
HTIS (Industries)-IV (220 kV)	0
HTIS (Industries)-V (400 kV)	0
HTIS (Oxygen Manufacturers)-11 KV	32

HT-Industrial Services (nos. of consumer)	SBPDCL
HTIS (Oxygen Manufacturers)-33 KV	0
Total	32

In view of the above table, seeing the very less number of Consumers opted for HTIS consumer category in FY 2023-24, number of consumers, sales and connected load for HTIS- I, II, III, IV, V and HTIS (Oxygen Manufacturers)-33 KV consumer category of SBPDCL for FY 2024-25 and for subsequent year have been projected individually as zero.

Commission's view:

The Commission has noted the stakeholders' views and Petitioner's response.

ii. Cold Storage under Agricultural Activity:

Stakeholder's submission

Cold storage should be included under agriculture for determining electricity tariff.

Petitioner's response:

Cold Storage is being proposed to be added under the IAS I metered consumers, applicable till connected load of 75 KV/100 HP. It is worthwhile to mention that this has been proposed in order to expand the horizon of agricultural sector in the state.

Irrigation and Allied Services (IAS) are applicable for supply of electrical energy for bonafide use for purposes. The Petitioner has already proposed to specifically include the Mushroom Farming in Irrigation and Allied Services.

Commission's view:

The Commission has noted the stakeholders' views and Petitioner's response. This has been dealt with in relevant chapter of this order.

iii. Establishment of Distribution Company under PPP mode:

Stakeholders' submission

Establish a distribution company in PPP mode in Bihar on an experimental basis.

Petitioner's response:

The aforesaid subject matter is pertaining to the State Government.

Commission's view:

The Commission finds the above submission beyond the scope of this tariff proceedings.

iv. Solar Power Plant Establishment

Stakeholders' submission

To establish solar power units of 500 KW to 10 MW capacity in low-value areas such as Banka and Jamui, with the power generated allowed for captive use without additional load charges. Solar power entrepreneurs should be allowed to distribute the power produced to multiple units following set guidelines.

Petitioners' response

In order to promote renewable development in the state, BREDA and BSPGCL issues tender on regular basis for RE based generation in the state.

Further, it is to be noted that Banking provision for Captive solar plants exist in Bihar and is governed in accordance with "BERC (Banking of Power from fossil fuel and renewable energy-based Captive Generating Plant) Regulations, 2018" and "Bihar policy for promotion of new & renewable energy sources 2017".

Cross Subsidy Surcharge and other surcharge is applicable on to the aforesaid consumer category which is in accordance with the BERC (Term and Conditions of Intra-State Open Access) Regulations 2018.

Commission's view:

The Commission has noted the stakeholders' views and Petitioner's response.

v. New Supply Code:

Stakeholders' submission

The process for determining a new supply code in place of the current one should be speeded up by addressing the unresolved issues through public hearings.

Petitioners' response

The aforesaid subject matter is pertaining to the State Government.

Commission's view:

The Commission has noted the stakeholders' views and Petitioner's response. It is to clarify

that the Commission has already initiated action for review of Supply Code which is in advance stage.

vi. Minimum Balance Requirement for earning interest:

Stakeholder's Submission

The current ₹2000 minimum balance requirement for earning interest excludes low-income consumers and suggested that interest should be calculated on a one-month minimum balance, similar to a savings account, to benefit all consumers.

Petitioner's Response:

The main objective of the aforesaid tariff initiative is to provide additional interest benefit to smart prepaid consumers <20kW & simultaneously to improve DISCOMs receivables and improve its financials. It would also help improve loan & interest portfolio of DISCOMs and pass on any benefit to the consumers in the long run.

The Petitioner has proposed in the tariff petition for FY 2025-26 that if a consumer makes advance payment against his future bills, he shall be allowed for interest equivalent to the Bank Rate of RBI. Such amount of interest shall be adjusted in subsequent monthly regular electricity bills on reducing balance, provided that the minimum amount of advance payment shall not be less than Rs. 2,000/- (Rupees Two Thousand only) and this minimum amount is required to be maintained continuously for at least 3 consecutive months.

Commission's View

The Commission has noted the stakeholders' views and Petitioner's response. This has been dealt with in relevant chapter of this order.

vii. Concessional tariff to electric charging station & Har Ghar Nal Jal:

Stakeholder's Submission

No preferential tariff should be allowed. If Central or state government desires to allow cheaper tariff they should provide subsidy to those categories. The Commission should always consider to fix the tariff on the basis of Average Cost of Supply.

Petitioner's Response:

Single part tariff is proposed for LT EV charging station and HT EV charging station (i.e. only energy charge to be applicable) which is in accordance with the EV guidelines as specified by the Ministry of Power, Govt. of India. The said single part Tariff for EV consumers is currently

prevailing in the state and no change has been proposed.

Commission's View

As mandated under the Electricity Act / Tariff policy and other relevant guidelines of Government, BERC determines cost based tariff for all categories of consumers after following prudent check and required regulatory process. Subsidy, if any, is provided by the Government to the distribution licensees.

viii. Revenue and Sales Claimed/Projected:**Stakeholder's Submission**

The sales and revenue figures claimed by the DISCOMs based on the annual accounts is essential to ensure the correctness of the financial data used for tariff determination and regulatory process.

Petitioner's Response:

The sales and revenue figures as claimed by the petitioner in the tariff petition is based on the audited annual accounts for FY 2023-24 which complied in all material aspects with the Indian Accounting Standards (Ind AS) notified under the Companies (Indian Accounting Standards) Rules, 2015 and subsequent amendments thereto, the Companies Act, 1956 (to the extent notified and applicable), applicable provisions of the Companies Act, 2013, and the provisions of the Electricity Act, 2003 to the extent applicable.

Commission's View

The Commission has noted the stakeholders' views and Petitioner's response. This has been dealt with in relevant chapter of this order.

ix. Open access:**Stakeholder's Submission**

Open access should be actively promoted, and the regulations should be rationalized by BERC to introduce pro-rata KVA charges. Without this, it will not be viable for any Consumer to purchase open access power. This will benefit the Discoms also as their net power purchase cost will come down.

Petitioner's Response:

Various charges applicable to the open access consumers are calculated by Bihar DISCOMs in accordance with BERC (Term and Conditions of Intra-State Open Access) Regulations 2018.

Commission's View

The Commission has noted the stakeholders' views and Petitioner's response. This has been dealt with in relevant chapter of this order.

x. Cross subsidy & Wheeling charges**Stakeholder's Submission**

HT consumers are still bearing the burden of cross subsidy of more than 20%. This is making them uncompetitive and has resulted in HT consumption to fall to as low as 9 to 10% of total units sold. Therefore, cross subsidy should be totally eliminated in 2 years and in this tariff, it should be reduced to max +/- 10%.

Wheeling charges and cross subsidy charges should be very reasonable to promote open access or Transmission of Solar power.

Petitioner's Response:

Wheeling charges, cross subsidy surcharge for the open access consumers is calculated as per the recommended formula in the BERC MYT Distribution Tariff Regulations, 2024 which is in accordance with CSS calculation formula as specified in the National Tariff Policy 2016.

The wheeling charges have been computed on the basis of projected costs of the Petitioner for its distribution wire business and the total energy expected to be wheeled through their distribution network.

Further, while determining the applicable CSS for open access consumer, the Petitioner has already aligned the cap on CSS to 20% of ACoS which is already specified in the instant tariff Petition. Moreover, the detailed calculation is provided in Format-36 of the tariff Petition.

Therefore, Commission is requested to approve the CSS as proposed by the Petitioner for FY 24-25.

Commission's View

The Commission has noted the stakeholders' views and Petitioner's response. This has been dealt with in relevant chapter of this order.

xi. Average annual WPI CPI index**Stakeholder's Submission:**

There are no logical reasons to unilaterally enhance Average annual WPI CPI index from 5.32% to 7.86%, which cannot be doubled in a span of only few months.

Petitioner's Response:

The WPI index has been calculated in line with BERC MYT Tariff regulation. The WPI considered based on the average increase in WPI for immediately preceding three years

Commission's View

The Commission has noted the stakeholders' views and Petitioner's response. This has been dealt with in relevant chapter of this order.

xii. KVA Charges:**Stakeholder's Submission**

Reduce the KVA charges with an intention to abolish the same in subsequent years.

Petitioner's Response:

Fixed charge was increased for all consumer by the Commission for FY 2023-24 in Tariff Order dated 23.03.2023 after prudence check of the tariff Petition of the DISCOMs. This increase in fixed charge by Commission for FY 2023-24 was primarily because Fixed charges across all the consumer categories were not revised since long time despite increase in the fixed cost of the DISCOM due to increase in fixed charges of the PPAs with the Generating units. However, still the fixed charge liability of the DISCOMs have still not met through the recovery of fixed charge from the Consumers.

Moreover, Inflation has increased by 25% (Average 5% annually) in last 5 years. Therefore, Commission DISCOM had increased in the Fixed charges on the existing rate for FY 2023-24 in the Tariff Order dated 23.03.2023.

Further, the Petitioner hereby submits that Bihar DISCOMs have filed the tariff petition for truing up of FY 2023-24, annual performance review of FY 2024-25 and Business plan and Annual revenue requirement for FY 2025-26 to FY 2027-28 and determination of tariff for FY 2025-26 based on the actual Audited Accounts for FY 2023-24, BERC MYT Tariff Regulations 2021, BERC MYT Tariff Regulations 2024 and all other applicable regulations issued by the Commission, and thereby the Petitioner has determined the revenue gap of INR 4833 Crore for FY 2025-26 at Bihar level.

It is worthwhile to mention that despite the aforesaid overall revenue gap at Bihar level, the State DISCOMs have not proposed any tariff hike at the existing tariff across all the tariff categories (except for HTSS category) for FY 2025-26.

Therefore, the Commission is requested to approve the proposed tariff for consumer

categories.

Commission's View

The Commission has noted the stakeholders' views and Petitioner's response. This has been dealt with in relevant chapter of this order.

xiii. ESCerts:

Stakeholder's Submission

Burden of purchase of ESCerts cannot be transferred to the consumers of the state, ensuring a fair and equitable distribution of financial responsibilities in line with regulatory guidelines.

Petitioner's Response:

Perform, Achieve and Trade (PAT) is a regulatory instrument to reduce Specific Energy Consumption in energy intensive industries, with an associated market based mechanism to enhance the cost effectiveness through certification of excess energy saving which can be traded. Further, PAT is a mechanism for improvements in energy efficiency of energy intensive industries. Specific high energy intensive industries are identified as Designated Consumers (DCs) within certain key sectors.

Further, it is worthwhile to mention that the 'Distribution Licensee' was also included as DCs under second cycle of PAT. PAT Cycle II commenced from 1st April, 2016 and was completed on 31st March 2019. Implementation of PAT cycle -II has resulted into total energy savings of about 14.08 MTOE translating into avoiding of about 68 million tonne of CO₂ emission.

However, both the discoms of Bihar- NBPDCCL and SBPDCL had submitted to Bureau of Energy Efficiency (BEE) that Discoms do not contribute to Green House Gas emissions and are in continuous evolving phase on account of various projects like Smart Metering, Revamped Distribution Sector Scheme (RDSS) etc. Therefore, Discoms may kindly be exempted from PAT Cycle-II.

Since, nothing was heard from BEE and last date of transaction was 01.08.2023, both discoms decided to buy 22,500 ESCert for Exchange IEX and informed to BEE. Total expense of INR 10.04 Crore was incurred to the Petitioner to buy 45,758 ESCerts and had submitted to BEE that like RECs, this may be passed on in the ARR of the discoms.

In view of the above, the Petitioner requested the Commission to approve the expense towards purchase of ESCerts.

Commission's View

The Commission has noted the stakeholders' views and Petitioner's response. This has been dealt with in relevant chapter of this order.

xiv. Opposing load factor incentive for Oxygen manufacturers:

Stakeholder's Submission

The proposed change to load factor incentives for oxygen manufacturers should not be implemented. It should start from 30% consumption, similar to other industrial consumers, and applied without a cap.

Petitioner's Response:

The Petitioner hereby submits that it has not proposed any changes under the load factor incentive to the HTIS – Oxygen Manufacturing Units.

Commission's View

The Commission has noted the stakeholders' views and Petitioner's response. This has been dealt with in relevant chapter of this order.

xv. Submission made by Patna Metro Rail Corporation Ltd (PMRCL)

- **Re-generative Energy:**

Stakeholder's Submission

Compensation for regenerative energy fed back into the grid be incorporated in the tariff structure under Net metering framework, ensuring financial viability and energy efficiency.

Petitioner's Response:

In accordance with the (Rooftop Solar Grid Interactive Systems Based on Net and Gross Metering) Regulations, 2018, Net metering framework is an arrangement for measurement of energy in a system under which rooftop solar system installed in consumer premises delivers surplus electricity; if any, to the distribution licensee and is not related to regenerative energy fed back into the grid.

Further, it is pertinent to mention that compensation for regenerative energy, if any is fixed by Bihar Electricity Regulatory Commission in accordance with Bihar Electricity Regulatory Commission (Multi Year Tariff) Regulations, 2021 and Bihar Electricity Regulatory Commission (Multi Year Tariff) Regulations, 2024 and assessing the suggestions / proposals received from various consumer's groups, industries, and other stakeholders.

- **Energy Meter with lag only configuration:**

Stakeholder's Submission

Approval for the usage of energy meters with a lag-only configuration for metro rail services in Patna, similar to provisions in UP and Delhi, ensuring billing is based solely on lagging power drawn.

Petitioner's Response:

Use of energy meters, if any is fixed by Bihar Electricity Regulatory Commission in accordance with Bihar Electricity Regulatory Commission (Multi Year Tariff) Regulations, 2021 and Bihar Electricity Regulatory Commission (Multi Year Tariff) Regulations, 2024 and assessing the suggestions / proposals received from various consumer's groups, industries, and other stakeholders.

- **Summation of Current Transformer:**

Stakeholder's Submission

Provision of summation current transformer (CT) at each feeder of the Receiving Sub-station (RSS), feeding into the main billing energy meter or a summation meter.

Petitioner's Response:

Bihar DISCOMs provides the connections to the public transport system and ensures reliability for the same in accordance with the Bihar Electricity Supply Code 2007 and its amendments thereof.

Moreover, it is worthwhile to mention that the Commission had invited all the members of Electricity Supply Code Review Panel (ESCRP) at BERC office for discussion on draft for amendment in Bihar Electricity Supply Code during multiple meeting held on several days. All the meetings pertaining to ESCRP have been concluded. The key discussion points of consumer's representatives / stakeholders / DISCOMs have been assessed by the Commission and the same shall be published for the public comments at the earliest.

- **Regarding Contract Demand**

Stakeholder's Submission

Approve initial contract demand of 2 MVA at the 132 kV voltage level, with provisions for gradual increase as operational requirements grow. Also, allow simultaneous contract demand for the power supply taken through different receiving sub-station of PMRCL. Simultaneously contract demand for all receiving sub-stations of Patna metro may please be

allowed and penalty may be applicable only if cumulative maximum demand is breached

Petitioner's submission

Regarding flexibility of reduction and enhancement of contract demand, it submits that the reliefs do not pertain to the instant tariff petition.

Commission's View

As regards issues raised by PMRCL, it is to say that this will be addressed while disposing the petition already filed by PMRCL for determination of tariff and other terms and conditions of supply.

xvi. In addition to the above, few more suggestions as indicated below which are not related to subject matter of the present Petition, have also been given, which are not being dealt with for obvious reasons. This includes suggestions with respect to :

- i). conversion of HTS-III category into seasonal connection category,
- ii). simplification of application process and avoid delay in providing new connection,
- iii). effect of reduction in coal price over energy charges,
- iv). speedy disposal by Electricity Ombudsman and CGRF,
- v). free electricity to consumers,
- vi). not to recover fixed charges without electricity consumption,
- vii). Three Phase connection for contract demand beyond 3 HP for industrial & agricultural consumers,
- viii). to include industry and consumer representatives in decision making,
- ix). to reduce the rates of electricity duty for industrial consumers, etc.

4. Truing-up for FY 2023-24

4.1. Background

The Commission vide its Order dated 25th March, 2022 had approved Multi Year Aggregate Revenue Requirement (ARR) for the control period of FY 2022-23 to FY 2024-25 for Bihar Power Distribution Companies viz., North Bihar Power Distribution Company Limited (NBPDC) and South Bihar Power Distribution Company Limited (SBPDCL). Further, the Commission vide its Order dated 1st March 2024 had also carried out the Annual Performance Review (APR) of NBPDC and SBPDCL for FY 2023-24. The Petitioners, i.e., NBPDC and SBPDCL have filed the present Petitions dated 15th November, 2024 for True-up of FY 2023-24, Annual Performance Review for FY 2024-25, Business Plan and Annual Revenue Requirement for FY 2025-26 to FY 2027-28 and determination of Tariff for FY 2025-26.

This Chapter deals with the Truing-up of FY 2023-24 for both the DISCOMs in accordance with the Regulation 14 of the BERC (Multi Year Distribution Tariff) Regulations, 2021 which stipulates:

“14. True-up and Annual Performance Review

14.1 The Commission Shall True-Up expenses of the previous year either as part of the Tariff order or issue Order/s for True-Up of expenses preceding the Tariff order of ensuing year.

- a) An order for True-Up of expenses shall be issued on annual basis.*
- b) An order for True-Up of expenses shall be on the basis of expense estimates made in the beginning of the year under consideration, actual expenses booked in the audited books of accounts of the Distribution Licensee, for the year, and after prudence check of data by the Commission.*
- c) Where audited books of account are not available at the time of true-up, provisional books of annual (regulatory) accounts duly approved by the Board of Directors of the applicant company shall be used for the provisional True-up process.*
- d) The Commission shall undertake review of estimates of expenses for the*

current year as a part of the tariff order on the basis of the actual expenses incurred during the period April – September of the current year and corresponding figures in the order for Annual Revenue Requirement (ARR) of the current year approved by the Commission.

- e) Estimates of expenses for the ensuing year shall be on the basis of corresponding figures in the order for True-up of expenses of the previous year and Annual Performance Review or Tariff Order of the current year, as the Commission may consider reasonable and deem fit.*
- f) Notwithstanding anything contained in regulation 4 of these Regulations, the Revenue gap/surplus arising out of Truing up shall be considered by the Commission while determining the ARR of ensuing year(s). While, approving adjustments towards revenue/expenses in future years, arising out of Truing up exercises, the Commission may allow the carrying costs as determined by the Commission of such expenses/revenues. However, the revised estimated gap/surplus as a result of APR may or may not be passed in the ARR of ensuing year.”*

Accordingly, the Commission has undertaken the "Truing-up" exercise for NBPDCCL and SBPDCL for FY 2023-24 on the basis of Audited Annual Accounts and relevant provisions of the BERC (Multi Year Distribution Tariff) Regulations, 2021. However, wherever deemed necessary, the Commission has considered expenses based on prudence check.

The Petitioners, in the tariff petition for truing-up for FY 2023-24, have furnished the figures and data related to actual energy sales, revenue and expenditure for FY 2023-24 based on the audited annual accounts for FY 2023-24 and accordingly, the revised ARR and consequent revenue gap/(surplus) for FY 2023-24 is claimed.

The Commission has analysed the components of the actual performance parameters, expenses, revenue and has computed (gain)/ loss in the process of Truing-up for FY 2023-24. The Commission's analysis underlined during the approval for Truing-up of FY 2023-24 is set out in following sections.

4.2. Number of Consumers, Connected Load and Energy Sales for FY 2023-24

NBPDCCL's submission

NBPDCCL submitted the actual category wise number of consumers, connected load and sales for FY 2023-24 as shown in the Table below:

Table 4.1: Number of Consumers, Connected Load (KW) and Sales (MU) Claimed by NBPDCCL for FY 2023-24

Category of Consumers	Number of Consumers	Connected Load (KW)	Sales (MUs)
Domestic	11324461	9213119	8851.99
Kutir Jyoti	4311082	1066409	2696.76
DS I Rural	5596497	5719806	4326.85
DS II Demand Based	1416794	2426383	1828.02
DS III	88	521	0.36
Non-Domestic Service	935802	1849938	1825.89
NDS I - Metered Now Demand Based	546049	810139	739.30
NDS II - Demand Based	389753	1039799	1086.59
Contract Demand <0.5kW	2451	1279	
Contract Demand >0.5kW	387302	1038520	
Street Light Services	2985	30335	208.77
SS Metered	696	4422	16.40
SS Unmetered	2289	25913	192.36
Irrigation & Allied Services	273329	561024	1672.69
IAS I	266693	506544	1533
IAS II	6636	54480	139.55
Public Service Connections	65365	172431	510.38
Public Water Works	1991	29715	36.91
Har Ghar Nal	63374	142716	473.47
Low Tension Industrial Services	90434	823863	434.93
LTIS I (0-19 kW)	88511	736095	395.00
LTIS II (>19 kW - 74 kW)	1923	87768	39.93
LT Electric Vehicle Charging Station	100	625	5.55
High Tension-General	1695	522269	961.24
HTS I - 11 kV	1608	338357	596.84
HTS II - 33 kV	80	104742	252.37
HTS III -132 kV	6	66670	112.04
HTS IV - 220 kV	1	12500	
HTS V - 400 kV			42.27
HT-Industrial Services	11	15745	53.87
HTIS (Industrial) – I (11 kV)	3	1850	6.35
HTIS (Industrial) – II (33 kV)	4	4300	10.85
HTIS (Industrial) – III (132 kV)	0	0	0
HTIS (Industrial) – IV (220 kV)	0	0	0
HTIS (Industrial) – V (400 kV)	0	0	0
HTIS (Oxygen Manufacturers)- 11 KV	1	190	0.79
HTIS (Oxygen Manufacturers)- 33 KV	0	0	0
HTSS (33 kV/11 kV)	3	9400	35.88
HT Electric Vehicle Charging Station	0	0	0

Category of Consumers	Number of Consumers	Connected Load (KW)	Sales (MUs)
Railway Traction Services	8	60000	122.14
Nepal	1		256.55
SLDC Deviation			191.00
Sugar Mills & Others			6.73
Sale to Solar Companies			0.94
Sale of Power to IEX through PTC			1653.51
Sale of Power to IEX through BSPHCL			754.19
Total	12694191	13249349	17510.38

NBPDCCL has submitted that the increase in number of consumers is not as estimated by them, however, there has still been a significant addition in number of consumers during the year and the actual number of consumers is in fact higher by almost 6% over the previous year (FY 2022-23). Major Increase can be observed in certain categories like IAS-I (~4%), NDS-I (~19%), Street light services (~33%) and LTIS-I (~14%) and LTIS-II (~61%) over the previous year.

SBPDCL's submission

SBPDCL has submitted the actual category wise number of consumers, connected load and sales for FY 2023-24 as shown in the table below:

Table 4.2: Number of Consumers, Connected Load (KW), Energy Sales (MU) Claimed by SBPDCL for FY 2023-

24

Category	Number of Consumers	Connected Load (KW)	Sales (MUs)
Domestic	6341269	8052463	7815.86
Kutir Jyoti	1563266	387845	1501.51
Domestic-I	3150719	3299786	3216.29
Domestic-II	1627136	4364491	3098.00
Domestic – III	148	340	0.24
Non-Domestic	642851	1761555	1631.93
Non-Domestic-I	240768	407159	408
Non-Domestic-II	402083	1354396	1223.85
Contract Demand <0.5 kW	10023	5721	5.66
Contract Demand >0.5 kW	392060	1348676	1218.20
Street Light Services	2574	37026	266.09
SS Metered	1162	11029	67

Category	Number of Consumers	Connected Load (KW)	Sales (MUs)
SS Unmetered	1412	25997	199
Irrigation & Allied Services	388587	768118	4000.34
IAS-I	383754	727100	3650
IAS-II	4833	41018	350
Public Service Connections	34034	122356	480
Public Water Works	3304	48550	146
Har Ghar Nal	30730	73806	334
Low Tension Industrial Services	90229	971700	497.39
LTIS-I	84355	669262	308
LTIS-II	5874	302438	190
LT Electric Vehicle Charging Station	484	3266	6.02
High Tension General	2801	945705	1808
HTS(General)-I (11kV)	2582	567329	881
HTS(General)-II (11kV)	214	302876	653
HTS(General)-III (11kV)	5	75500	274
HTS(General)-IV (11kV)	-	-	-
HT-Industrial Services	46	139220	780.35
HTIS (Industrial) – I (11 kV)	0	-	-
HTIS (Industrial)– II (33 kV)	0	-	-
HTIS (Industrial) – III (132 kV)	0	-	-
HTIS (Industries)-IV (220 kV)	0	-	-
HTIS (Industries)-V (400 kV)	0	6731	
HTIS (Oxygen Manufacturers)-11 kV	33	132489	6.35
HTIS (Oxygen Manufacturers)-33 KV	0	-	
HTSS	13		774
HT Electric Vehicle Charging Station	0		0
Railway	10	100500	292.38
SLDC Deviation			239
IEX through PMC			941
Sale of Power through PTC			2064
Total	7502885	12,901,909	20822.21

Regarding increase in number of consumers, SBPDCL submitted that there has been

significant addition in number of consumers during the year and the actual number of consumers is in fact higher by almost 7% over the previous year (FY 2022-23). Increase can be observed in certain major categories like NDS-I (~12%), Har Ghar Nal (~10%), Domestic (~6%), and LT Industrial (~9%) over the previous year.

Commission's analysis

Number of Consumers

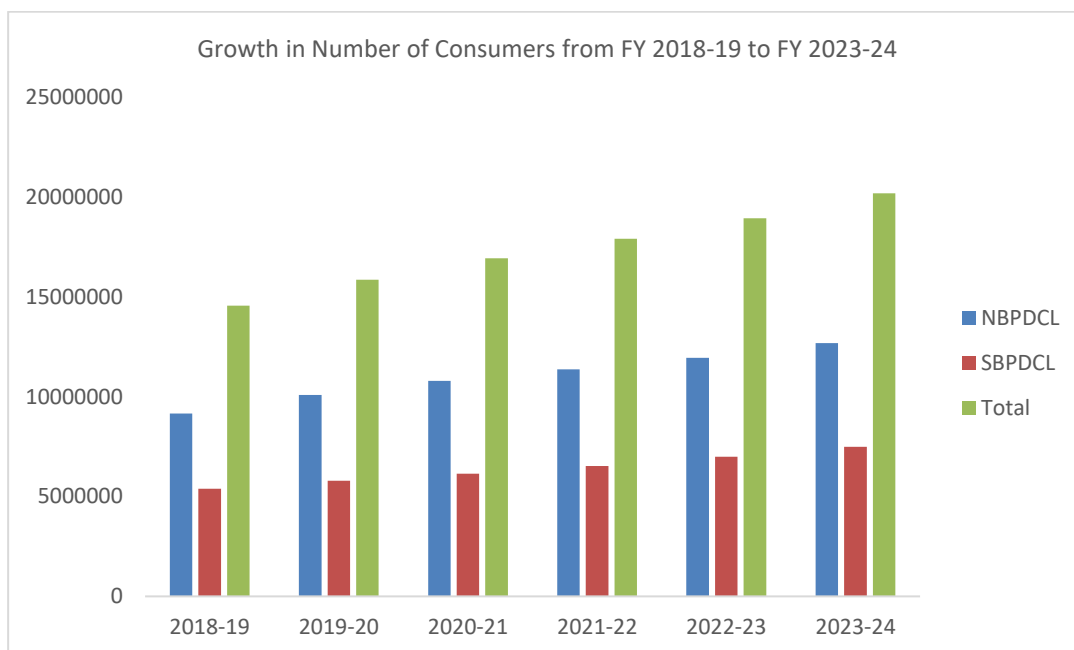
For Truing-up of FY 2023-24, the Commission has reviewed the actual number of consumers submitted by the Petitioners in their respective petitions. The Commission observes that there is deviation in actual numbers of consumers as compared to ARR approved figures for FY 2023-24.

For NBPDC, the actual number of consumers reported by NBPDC for FY 2023-24 stands at 12694091 thus, showing a deviation as compared to approved consumer number figures (12041203 Nos.) in Tariff Order for FY 2023-24 and a deviation when compared to figures considered in review (12587610 Nos.) of FY 2023-24.

Similarly, for SBPDCL, the actual number of consumers reported by SBPDCL for FY 2023-24 stands at 7502885; thus, showing a deviation as compared to approved figures (7042850 Nos.) in Tariff Order for FY 2023-24 and a deviation when compared to figures considered in review (7338354 Nos.) of FY 2023-24 as given below:

DISCOMs	Tariff order dated 23.03.2023	Tariff Order dated 01.03.2024 (APR)	Truing Up of FY 2023-24
NBPDC	12041203	12587610	12694091
SBPDCL	7042850	7338354	7502885

The deviation in actual vis-à-vis approved numbers of consumers is mainly due to the fact that in the ARR Order dated 23th March 2023 the number of consumers was approved based on the estimations also in the order dated 1st March 2024 the same was based on the first six months actual and next six months' projected data. However, as against this, the actual numbers of consumers reported during the FY 2023-24 is claimed by the Discoms in Truing-up of FY 2023-24. In this regard, the Commission has analysed the historical trend of increase in the number of consumers as shown in the Figure given below:

Figure 1: Growth in Number of Consumers since FY 2018-19 to FY 2023-24**Historical Trend for Number of Consumers**

Year	NBPDCI	SBPDCL	Total	Increase over previous Year
2018-19	9165384	5400462	14565846	
2019-20	10087527	5789783	15877310	9.00%
2020-21	10794893	6149737	16944630	6.72%
2021-22	11382948	6536456	17919404	5.75%
2022-23	11949924	7005640	18955564	5.78%
2023-24	12694191	7502885	20197075	6.55%

From the above, it can be seen that both the DISCOMs have witnessed positive trend with number of consumers showing an overall 3-year CAGR of around combinedly 6.03% for both DISCOMs (5.55 % for NBPDCI and around 6.85 % for SBPDCL).

Further, for FY 2023-24 the Commission has verified the actual number of consumers from the Audited Accounts of each DISCOM and found them to be in order. Accordingly, the Commission has considered the actual number of consumers in Truing-up FY 2023-24 as submitted by the Petitioners and as shown in the Table below:

Table 4.3: Number of Consumers approved for NBPDCI & SBPDCL in True-up for FY 2023-24

Category of Consumers	NBPDCI	SBPDCL	Total
Domestic	11324461	6341269	17665730
Kutir Jyoti	4311082	1563266.00	5874348
DS I Rural	5596497	3150719.00	8747216
DS II Demand Based	1416794	1627136.00	3043930

Category of Consumers	NBPDCCL	SBPDCL	Total
DS III	88	148.00	236
Non-Domestic Service	546049	240768	786817
NDS I - Metered Now Demand Based	546049	240768.00	786817
NDS II - Demand Based	389753	402083	791836
Contract Demand <0.5 Kw	2451	10023.00	12474
Contract Demand >0.5 kW	387302	392060.00	779362
Street Light Services	2985	2574	5559
SS Metered	696	1162.00	1858
SS Unmetered	2289	1412.00	3701
Irrigation & Allied Services	273329	388587	661916
IAS I	266693	383754.00	650447
IAS II	6636	4833.00	11469
Public Service Connections	65365	34034	99399
Public Water Works	1991	3304.00	5295
Har Ghar Nal	63374	30730.00	94104
Low Tension Industrial Services	90434	90229	180663
LTIS I (0-19 kW)	88511	84355.00	172866
LTIS II (>19 kW - 74 kW)	1923	5874.00	7797
LT Electric Vehicle Charging Station	100	484.00	584
High Tension- General	1695	2801	4496
HTS (General) I - 11 kV	1608	2582.00	4190
HTS (General) I - 11 kV	80	214.00	294
HTS (General) I - 11 kV	6	5.00	11
HTS (General) I - 11 kV	1	0.00	1
HT-Industrial Services	11.00	46.00	57
HTIS (Industrial) – I (11 kV)	3	0.00	3
HTIS (Industrial) – II (33 kV)	4	0.00	4
HTIS (Industrial) – III (132 kV)	0	0.00	0
HTIS (Industrial) – IV (220 kV)	0	0.00	0
HTIS (Industrial) – V (400 kV)	0	0.00	0
HTIS (Oxygen Manufacturers)- 11 KV	1	33.00	34
HTIS (Oxygen Manufacturers)- 33 KV	0	0.00	0
HTSS (33 kV/11 kV)	3	13.00	16
HT Electric Vehicle Charging Station	0	0.00	0
Railway Traction Services	8	10.00	18
Nepal	1	0.00	1
Total	12694191	7502885	20197076

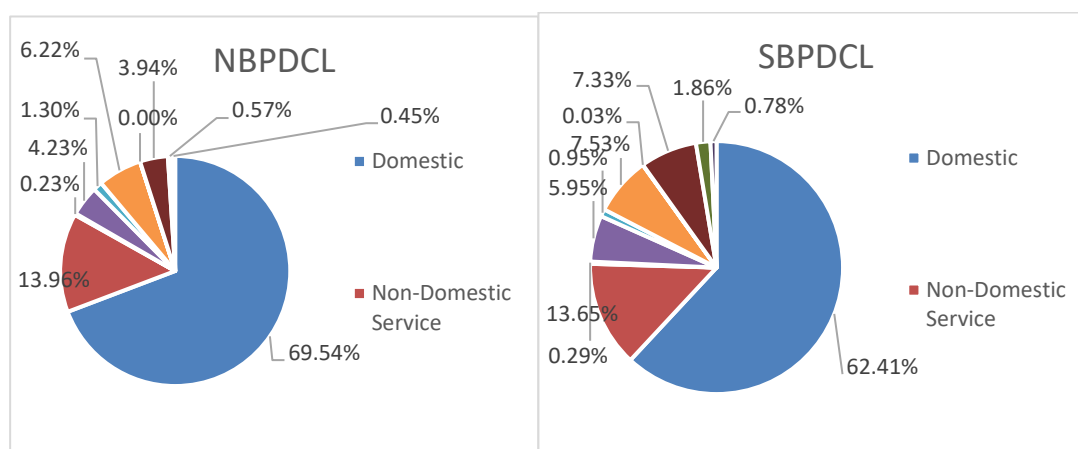
The Commission has approved the category wise number of consumers, totalling 12694191 and 7502885 for NBPDCCL and SBPDCL respectively in True-up for FY 2023-

24 as shown in the Table above.

Connected Load

The Commission notes that NBPDC and SBPDCL have claimed total connected load of 13249349 kW and 12901909 kW, respectively, for FY 2023-24 which is verified by the Commission with Audited Account for FY 2023-24. The Commission has analysed the category wise connected load for each of the Discoms as represented in the Figure given below:

Figure 2: Category wise Connected Load of NBPDC & SBPDCL for FY 2023-24



From the above figures, it is noted that, the domestic category consumers contribute majority of share which is around 69.54 % and 62.41 % of total connected load for NBPDC and SBPDCL, respectively. The share of HT category consumers stands at around 4.51% for NBPDC whereas for SBPDCL the share of HT category consumers is around 9.19%.

For the purpose of True-up for FY 2023-24, the Commission has considered the connected load as submitted by the Petitioners as detailed in the Table Below:

Table 4.4: Connected Load (KW) approved in True-up for FY 2023-24

Category of Consumers	NBPDC	SBPDCL	Total
Domestic	9213119	8052462	17265581
Kutir Jyoti	1066409	387845	1454254
DS I Rural	5719805	3299786	9019591
DS II Demand Based	2426383	4364491	6790874
DS III	521	340	861
Non-Domestic Service	1849938	1761556	3611494

Category of Consumers	NBPDC	SBPDCL	Total
NDS I - Metered Now Demand Based	810138	407159	1217298
NDS II - Demand Based	1039798	1354397	2394196
Contract Demand <0.5 Kw	1278	5721	7000
Contract Demand >0.5 kW	1038520	1348676	2387196
Street Light Services	30334	37026	67361
SS Metered	4422	11029	15451
SS Unmetered	25912	25997	51910
Irrigation & Allied Services	561024	768118	1329142
IAS I	506543	727100	1233644
IAS II	54480	41018	95498
Public Service Connections	172431	122356	294787
Public Water Works	29715	48550	78265
Har Ghar Nal	142715	73806	216522
Low Tension Industrial Services	823863	971700	1795563
LTIS I (0-19 kW)	736095	669262	1405357
LTIS II (>19 kW - 74 kW)	87768	302438	390206
LT Electric Vehicle Charging Station	625	3266	3891
High Tension- General	522268.5	945705	1467974
HTS (General) I - 11 kV	338356	567329	905686
HTS (General) II - 33 kV	104742	302876	407618
HTS (General) III - 132 kV	66670	75500	142170
HTS (General) IV - 220 kV	12500	0.00	12500
HT-Industrial Services	15740	239720	315460
HTIS (Industrial) – I (11 kV)	1850	0.00	1850
HTIS (Industrial) – II (33 kV)	4300	0.00	4300
HTIS (Industrial) – III (132 kV)	0	0.00	0
HTIS (Industrial) – IV (220 kV)	0	0.00	0
HTIS (Industrial) – V (400 kV)	0	0.00	0
HTIS (Oxygen Manufacturers)- 11 KV	190	6731	6921
HTIS (Oxygen Manufacturers)- 33 KV	0	0.00	0
HTSS (33 kV/11 kV)	9400	132489	141889
HT Electric Vehicle Charging Station		0.00	0
Railway Traction Services	60000	100500	160500
Total	13249343	12901909	26151252

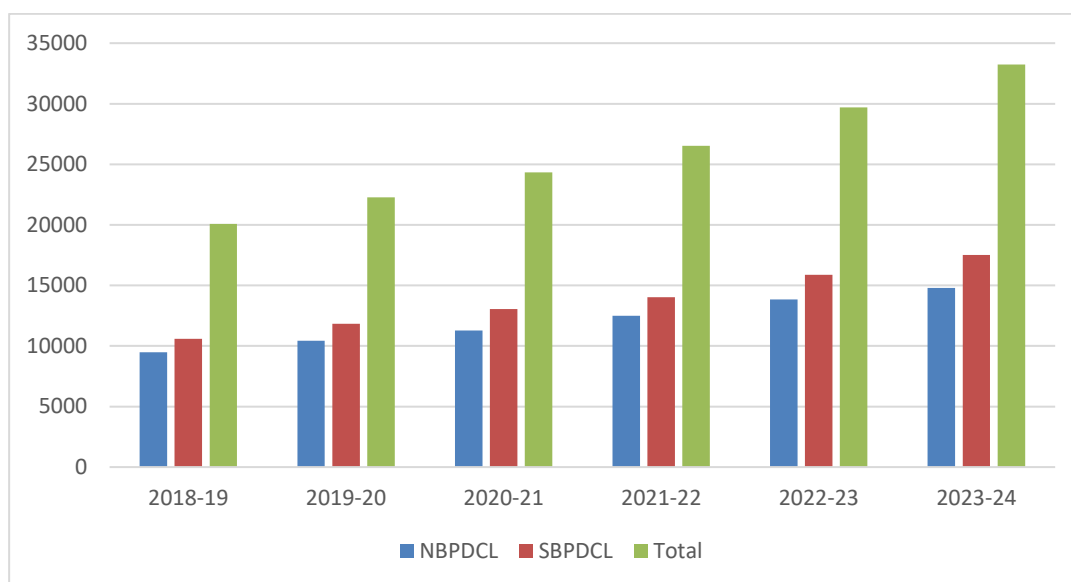
The Commission has approved the category wise connected load for NBPDC and SBPDCL in True- up of FY 2023-24 as shown in the Table above.

Energy Sales

The Commission has analysed the submission made by the Petitioners and observed a significant deviation in actual sales as compared to sales approved in Tariff Order for FY 2023-24. The sales approved in the Order dated 23rd March, 2023 for FY 2023-24 was based on the projection of the Petitioners which in turn was based on the then existing trends and on-ground conditions expected to drive the demand of the consumers. However, the sales' figures submitted for approval in present petitions for FY 2023-24 are based on the actual consumption of the consumers in FY 2023-24.

The Commission has analysed trend of the energy sales for NBPDCCL and SBPDCL since FY 2018-19 till FY 2023-24 as shown the figure below:

Figure 3: Growth in sales from FY 2018-19 to FY 2023-24



The sales for NBPDCCL have increased from 9493.32 MU in FY 2018-19 to 14798.94 MU in FY 2023-24, resulting in 5-year CAGR of 9.29%. Similarly, the sales for SBPDCL have increased from 10470.18 MU in FY 2018-19 to 17503.23 MU in FY 2023-24, with a 5-year CAGR of 10.83%. Further, the Commission observed that the total energy sales for FY 2023-24 has increased by 7.02 % and 10.24 % for NBPDCCL and SBPDCL respectively over previous year energy sales.

Historical Trend for Energy Sales (MU)

Year	NBPDCCL	SBPDCL	Total
2018-19	9493	10586	20079

2019-20	10443	11827	22270
2020-21	11288	13054	24342
2021-22	12486	14038	26524
2022-23	13828	15881	29709
2023-24	14799	17507	33247

The category-wise sales mix for NBPDC and SBPDCL is as shown in the figure below:

Figure 4: Category wise sales mix (%) of NBPDC for FY 2023-24

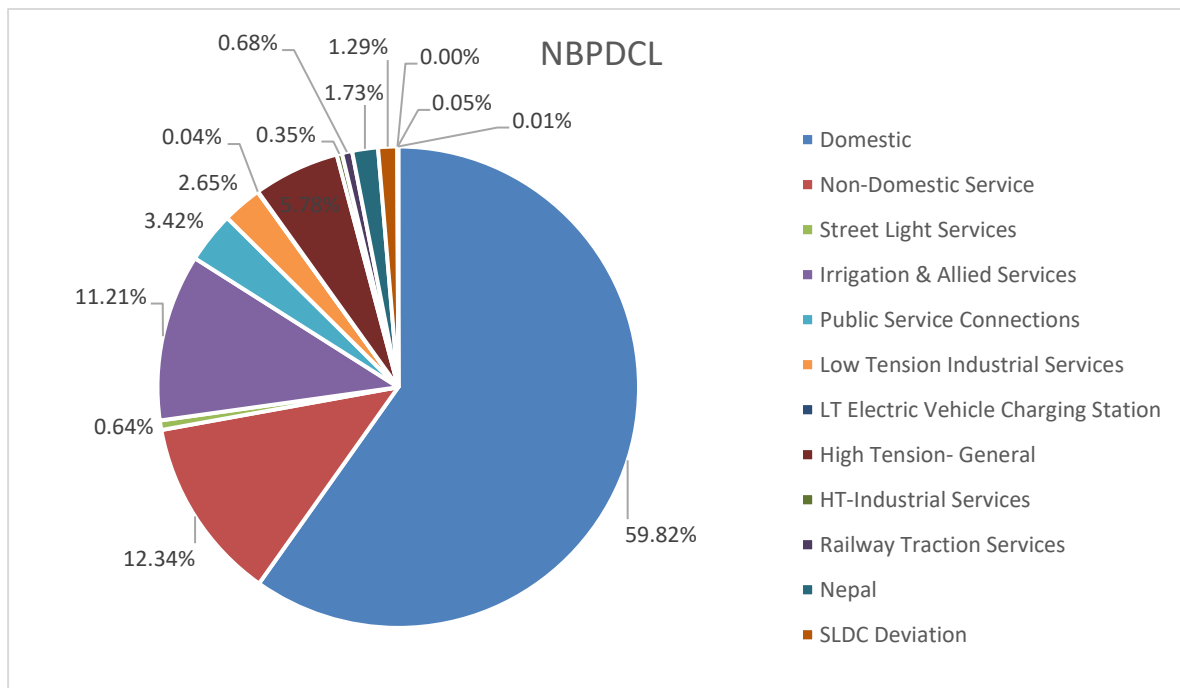
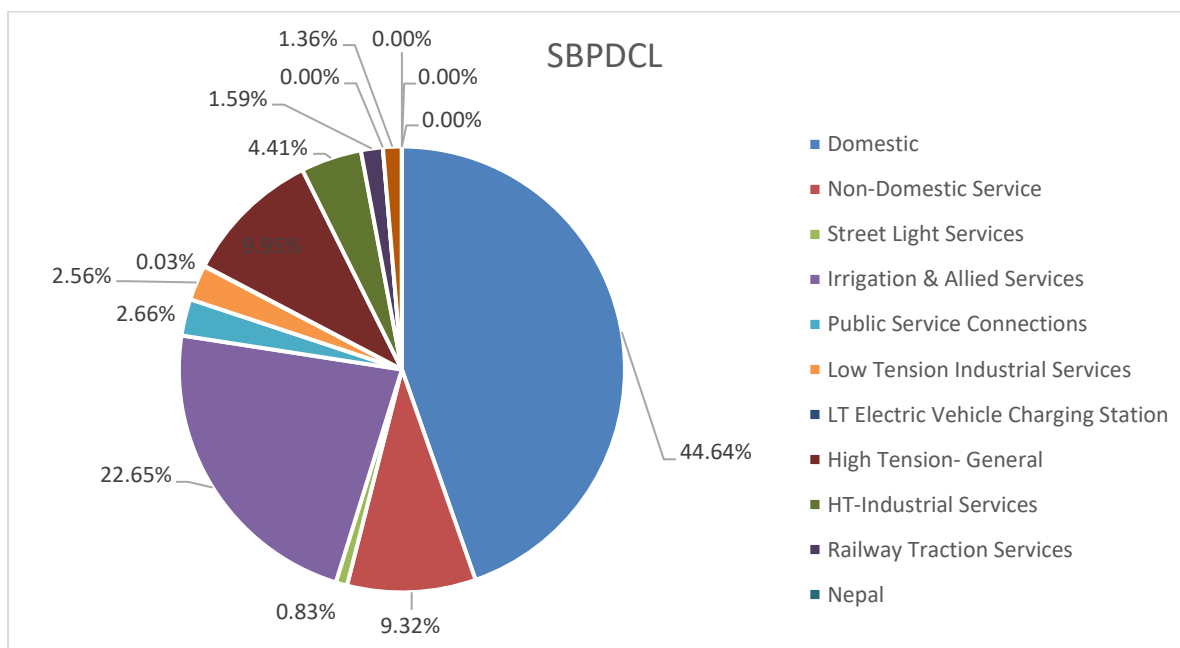


Figure 5: Category wise sales mix (%) of SBPDCL for FY 2023-24



As seen from the figure above, the maximum energy sales for both DISCOMs pertains

to domestic consumers which is around 59.82 % for NBPDCCL and 44.64 % for SBPDCL. HT categories consumption being a major cross-subsiding consumer category, contributes around 6.14% in the energy consumption of NBPDCCL and SBPDCL contributing about 14.36% in the energy sales.

The Commission has verified the consumer category wise energy sales as submitted by the DISCOMs and found the same are in accordance with the Audited Annual accounts for FY 2023-24. However, it is noted that for some categories such as IAS-II, PWW, LTIS, HTS for which tariff is in Rs/kVAh, billing is done at kVAh but units are not converted into kWh for this purpose. On a query by the Commission, the petitioners have submitted revised energy sales for such categories as given below:

NBPDCCL has submitted the revised sales in Million kWh as follows:

S. No.	Category	Sales (Million KVAh)	Sales (Million kWh)	Power Factor
1	HTS I - 11 kV	596.84	533.47	0.89
2	HTS II 33 kV	252.37	232.47	0.92
3	HTS III -132 kV	112.04	89.83	0.80
4	HTS IV -400 kV	-	-	0.90
5	HTSS	35.88	34.49	0.96
6	HTIS (Industrial) -I (11 kV)	6.35	6.28	0.99
7	HTIS (Industrial)- II (33 kV)	10.85	10.81	1.00
8	HTIS (Oxygen Manufacturers) - 11 KV	0.79	0.77	0.98
9	Railway Traction Services	122.14	101.16	0.83

SBPDCL has submitted the revised sales in Million kWh as follows:

S. No.	Category	Sales (KVAh)	Sales (kWh)	Power Factor
1	HTS I - 11 kV	880.58	836.55	0.95
2	HTS II 33 kV	653.03	633.44	0.97
3	HTS III -132 kV	273.86	271.12	0.99
4	HTS IV -400 kV	-	-	0.90
5	HTSS	773.94	766.20	0.99
6	HTIS (Industrial) -I (11 kV)	-	-	0.90
7	HTIS (Industrial)- II (33 kV)	-	-	0.90
8	HTIS (Oxygen Manufacturers) - 11 KV	6.35	6.16	0.97
9	Railway Traction Services	292.38	277.76	0.95

Further, for IAS-II, PWW, LTIS. in the reply to Data Gap queries raised by the Commission dated 31.02.2025, the petitioners submitted that in absence of actual

kWh data for LT categories, a normative power factor of 0.9 may be considered to arrive at the sales in kWh. Accordingly, the Commission has considered the revised sales in kWh for the categories for which the tariff is in Rs/ kWh. The revised energy sales for the above categories are considered accordingly in Truing up for FY 2023-24. The applicability of KJ category is specifically defined by Rural Development Department, Government of Bihar. Wherever, the deviation is noticed in consumption of KJ category the same has been converted into appropriate category i.e. DS-I or DS-II as per the above. It is also noted that for Kutir Jyoti, the consumption per consumer per month is exceeding stipulated norm for NBPDCCL and SBPDCL respectively. It has been noted that an average consumption of 52 units / month / consumer and 80 units / month / consumer respectively has been reported for NBPDCCL and SBPDCL respectively under Kutir Jyoti category during FY 2023-24. The Commission has considered consumption over and above the stipulated norms of KJ category as sale to appropriate category among DS-I or DS-II.

The Commission has observed that Petitioners have included sales of 191 MUs and 239 MUs for NBPDCCL and SBPDCL respectively under head of SLDC deviation. Regarding nature of SLDC deviation, petitioners have clarified that SLDC deviation is the adjustment done by BSPTCL with the DISCOMs on account of UI deviation for the Railway Traction Services. It is imperative to note that the UI deviation as submitted in the Petitions is not computed by SLDC at the State Periphery and also entity wise separately because the intra state DSM is not applicable in Bihar state at present. The energy shown under SLDC deviation is actually excess drawl of Railways from its schedule quantity from energy drawl under open access. BSPTCL calculates and raises bills to Railways for its deviation in drawl from schedule. The amount recovered from Railways is then credited to the Discoms and is booked under SLDC deviation charges in the revenue head.

Both NBPDCCL and SBPDCL have shown the surplus energy sold in exchange through PTC, PMC and BSPHCL under energy sales. These are excluded from the energy sales and considered under power purchase cost since T&D losses are not applicable on these energy sales.

The Commission has noted that now only two unmetered sub categories i.e. street

light (SS-I) and IAS-I are still remaining.

The Commission observed that for assessing the sale for un-metered category of consumers, the petitioner (NBPDC) has adopted the methodology as prescribed by the Commission in the tariff order for FY 2017-18 dated 24th March 2017. The extract of the same is provided hereunder for ease of understanding :

*“The Commission has revised the Norms of energy consumption to be considered for various **unmetered categories** for estimating energy sales for FY 2017-18 are as given below:*

Category	Consumption
KIY	50 units per connection per month
DS-I	75 units per kW per month
NDS-I	50 units per kW per month
IAS-I	1485 units per kW per annum
IAS-II	3620 units per kW per annum
SS	25 units per 100 watts per month

Therefore, the Commission decides to re-evaluate the sales of un-metered Street Light category on consumption of 250 units per KW per month and accordingly computed the SS category sale.

The Commission, accordingly, approves the energy sales for the Petitioners in True-up for FY 2023-24 based on the methodology discussed above and figures reflected in Audited accounts of the petitioners. :

Table 4.5: Energy Sales approved in True-up for FY 2023-24, by the Commission

Category of Consumers	NBPDC	SBPDCL	Total
Domestic	8851.99	7815.86	16667.85
Kutir Jyoti	2586.65	937.96	3524.61
DS I Rural	4436.96	3779.84	8216.80
DS II Demand Based	1828.02	3097.82	4925.84
DS III	0.36	0.24	0.60
Non-Domestic Service	1825.90	1631.86	3457.76
NDS I - Metered Now Demand Based	739.30	408.00	1147.30
NDS II - Demand Based	1086.60	1223.86	2310.46
Contract Demand <0.5 Kw	1.35	5.66	7.01

Contract Demand >0.5 kW	1085.25	1218.20	2303.45
Street Light Services	94.14	144.99	239.13
SS Metered	16.40	67.00	83.40
SS Unmetered	77.74	77.99	155.73
Irrigation & Allied Services	1658.74	3964.92	5623.66
IAS I	1533.14	3649.92	5183.06
IAS II	125.60	315.00	440.60
Public Service Connections	506.69	465.40	972.09
Public Water Works	33.22	131.40	164.62
Har Ghar Nal	473.47	334.00	807.47
Low Tension Industrial Services	391.44	448.20	839.64
LTIS I (0-19 kW)	355.50	277.20	632.70
LTIS II (>19 kW - 74 kW)	35.94	171.00	206.94
LT Electric Vehicle Charging Station	5.55	6.02	11.57
High Tension- General	855.77	1741.11	2596.88
HTS (General) I - 11 kV	533.47	836.55	1370.02
HTS (General) II - 33 kV	232.47	633.44	865.91
HTS (General) III - 132 kV	89.83	271.12	360.95
HTS (General) IV - 220 kV	0.00	0.00	0.00
HT-Industrial Services	52.35	772.36	824.71
HTIS (Industrial) – I (11 kV)	6.28	0.00	6.28
HTIS (Industrial) – II (33 kV)	10.81	0.00	10.81
HTIS (Industrial) – III (132 kV)	0.00	0.00	0.00
HTIS (Industrial) – IV (220 kV)	0.00	0.00	0.00
HTIS (Industrial) – V (400 kV)	0.00	0.00	0.00
HTIS (Oxygen Manufacturers)- 11 KV	0.77	6.16	6.93
HTIS (Oxygen Manufacturers)- 33 KV	0.00	0.00	0.00
HTSS (33 kV/11 kV)	34.49	766.20	800.69
HT Electric Vehicle Charging Station	0.00	0.00	0.00
Railway Traction Services	101.16	277.76	378.92
Sugar Mill and others	6.73	0.00	6.73
solar companies	0.94	0.00	0.94
Nepal	256.55	0.00	256.55
SLDC deviation	191.00	238.75	429.75
Total	14798.94	17507.23	32306.17

The Commission has approved Energy Sale of 14798.94 MU and 17507.23 MU for NBPDCCL and SBPDCL respectively in True-up of FY 2023-24 as shown in Table above. The Commission observes that the reported energy sale for Street light, IAS-I and IAS-II category of consumers (metered and un-metered) during FY 2023-24 for NBPDCCL and SBPDCL is not in accordance with the normal hours of operation and connected load. The Commission has directed the petitioner to submit the rationale for reporting higher sale for the said category of consumers. The petitioner was not able to provide satisfactory justification for the same. The Commission hereby reiterates its direction that the petitioners shall get the category wise connected load of both metered and unmetered category of consumers audited through third party and submit the report in this regard to the Commission before start of tariff proceedings for FY 2026-27.

4.3. Distribution losses

Petitioners' submission

Distribution Loss:

The Petitioners have submitted that the Commission has approved the distribution loss of 15% in its MYT Order for FY 2022-23 dated 25th March 2022. The same trajectory has been approved by the Commission's subsequent year's true-up, APR and ARR. It is also stated that the Commission may appreciate that the actual distribution losses for the Petitioner for FY 2023-24 are lower than the loss trajectory approved by the Commission in APR for FY 2023-24. Based on the circle wise losses, the Petitioner has arrived at the Distribution loss of 13.38% (excluding UI) For NBPDCCL Discom and 18.00% (excluding UI) for SBPDCL for FY 2023-24 as shown in Table Below:

Table 4.6: Distribution Loss for FY 2023-24, as claimed by NBPDCCL & SBPDCL

Distribution Company	Approved in MYT Order dated 23.03.2023	Approved in APR FY 2023-24	Actual Claimed for FY 2023-24
NBPDCCL	15%	16.60%	13.38%
SBPDCL	15%	19.91%	18.00%

Collection Efficiency:

It is submitted that based on the circle wise collection efficiency, the Petitioners have computed the collection efficiency for FY 2023-24 as shown in Table Below:

Table 4.7: Collection Efficiency for FY 2023-24 as claimed by NBPDCCL & SBPDCL

Distribution Company	Approved in MYT Order for FY 2023-24	Approved in APR FY 2023-24	Actual Claimed for FY 2023-24
NBPDCCL	100%	97.12%	95.73%
SBPDCL	100%	93.65%	94.90%

The Petitioners have submitted that the Commission had approved the collection efficiency of 100% in the ARR for FY 2023-24 as per the UDAY scheme. However, the per capital income of Bihar, especially for the domestic consumer, is very low which restricts their paying capacity, and this has proven to be a challenge to recover the billed amount despite taking various measures for timely billing and easy payment of the bill.

It is also submitted that to improve metering, billing and collection process, the petitioners have also started implementation of smart pre-paid meter project envisaging that the same shall enable Discoms to significantly improve its metering billing & collection and minimize the commercial losses.

Further, the Petitioners submitted information on various initiatives taken for improvement in Collection efficiency through Quarterly Directives and requested the Commission to consider the actual collection efficiency as per given in above table.

AT&C Loss

The Petitioners have submitted that the Monitoring Committee for RDSS constituted under Chairmanship of Secretary (Power), Govt of India, in its 9th meeting held on 28.04.2022, has approved the Action Plan and Loss Reduction DPR of North Bihar Power Distribution Company Limited and South Bihar Power Distribution Company Limited under Revamped Distribution Sector Scheme. Accordingly, the Monitoring Committee approved the following trajectory for AT&C loss for the Petitioner.

As per RDSS trajectory

Particulars	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
AT&C Loss for NBPDCCL	25%	22%	19%	16%
AT&C Loss for SBPDCL	35%	31%	25%	20%

The Petitioners mentions that the petitioners had been able to bring down the AT&C losses by more than 9% in a span of 5 years (FY 2017-18 to FY 2023-24). This has been made possible through a multitude of initiatives on improving the network performance as well as on the services side to enhance billing and collection efficiency. Further, since, most of the consumers connected to the network of the Petitioner are LT consumers, therefore, the LT network length is significantly higher for the Petitioner as compared to the HT network length.

The impact of the extended LT networks, especially in rural areas, directly leads to increase in losses on the low voltage network. Despite continuous multiple efforts, the addition of such large number of consumers over the past few years has led to a decreasing HT:LT network ratio, However, despite these raging challenges, Discoms are geared up to bring down the AT&C losses in line with the target approved by the Monitoring Committee.

Calculation of AT & C Loss:

Based on the above figures, the Petitioners have submitted the AT&C loss calculation for the year FY 2023-24 as shown in the Table below:

Table 4.8: AT&C losses for FY 2023-24 (excluding Nepal), as claimed by NBPDCCL & SBPDCL

Distribution Company	Approved in ARR for FY 2023-24	Actual for FY 2023-24
NBPDCCL	15%	17.08%
SBPDCL	15%	22.18%

Table 4.9: AT&C loss for FY 2023-24 submitted by NBPDCCL & SBPDCL

S. No.	Parameter (FY 2023-24)	Unit	NBPDCCL	SBPDCL
A	Gross input energy	MU	21,037.14	26,258.58
B1	Inter-State sale / energy traded / UI	MU	2,855.25	3,244.42
B2	Transmission losses	MU	1,263.59	1,577.22
C	Net input energy	MU	16,918.30	21,436.94
D	Energy sold	MU	14,655.13	17,577.79
E1	Revenue from sale of energy on tariff subsidy billed basis	Rs. Crore	12,593.90	15,940.29
E2	Revenue from sale of energy on tariff subsidy received basis	Rs. Crore	12,400.35	15,559.94
F	Opening trade receivable	Rs. Crore	4,332.60	9,525.81
G	Closing trade receivable	Rs. Crore	4,677.06	9,958.14
H	Adjusted closing trade receivable for sale of energy	Rs. Crore	4,677.06	9,958.14
I	Collection efficiency	%	95.73%	94.90%
J	Billing efficiency	%	86.62%	82.00%
K	Units realized	MU	14029.06	16681.63
L	Units un-realized	MU	2,889.24	4,755.31
M	AT&C Losses	%	17.08%	22.18%

Commission's analysis:

The Commission has noted the submission of the petitioners. The Commission in FY 2023-24 tariff order dated 23rd March 2023 had approved the distribution loss, collection efficiency and AT&C loss as given below:

Name of DISCOM	Distribution loss	Collection Efficiency	AT&C loss
NBPDCCL	15%	100%	15%
SBPDCL	15%	100%	15%

Based on the state transmission loss certified by SLDC, actual Energy sale and power purchase quantum by the petitioners during FY 2023-24 as reflected in the Audited accounts of petitioners, the Commission has approved the distribution loss of 14.99% for NBPDCCL and 19.27% for SBPDCL for FY 2023-24. The detail computation in this

regard can be seen in the Energy balance section of this order.

The Commission observed that the sales figures in respect of certain categories, for which kVAh based tariff is prescribed, were not properly reported by the Discoms. On a query, the Discoms have submitted the sales figures in kWh in respect of IAS-II, PWW, LTIS and HTS categories for which the billing is based on kVAh tariff which was not reported earlier and accordingly the revised sales details as deliberated above have been submitted. The Commission has revised the sales' figure of IAS-II, PWW, LTIS and HTS category of consumer as discussed in earlier section of this order.

The Commission, following the approach specified in BERC (Multi Year Distribution Tariff) Regulations, 2021, has computed the AT&C losses for NBPDC & SBPDCL as per the format specified in the Regulation:

Table 4.10: AT&C losses for FY 2023-24 for NBPDC & SBPDCL, as computed by the Commission

Sl. No	Particular	Units	NBPDC	SBPDCL
1	Total Power Purchase	MUs	21,037.08	26,258.56
2	Energy Traded/ Inter State Sales (including Nepal and SLDC deviation)	MUs	2,855.25	3,244.42
3	Central Transmission Loss	MUs	829.35	1,035.20
A	Gross Energy Purchased at State Periphery (1-2-3)	MUs	17,352.48	21,978.94
B	Transmission Loss (STU)	MUs	471.46	588.47
C	Net Energy at Distribution Periphery for retail Sale (A-B)	MUs	16,881.02	21,390.47
D(I)	Distribution Loss(C-E)	MUs	2,529.63	4,121.99
D(II)	Distribution Loss % (D(I)/C)	%	14.99%	19.27%
E	Energy Sold (Retail)	MUs	14,351.39	17,268.48
F	Revenue actually realized from sale of power without subsidy	(Rs. Cr)	6,112.12	8,546.94
G	Tariff Subsidy actually received	(Rs. Cr)	6,288.23	7,013.00
H	Net Revenue from sale of energy on subsidy received basis (F+G)	(Rs. Cr)	12,400.35	15,559.94
I	Tariff Subsidy booked	(Rs. Cr)	6,481.77	7,393.35
J	Revenue from sale of energy on subsidy booked basis (F+I)	(Rs. Cr)	12,593.89	15,940.29
K	Opening Debtors for Sale of Energy	(Rs. Cr)	4,332.60	9,525.81
L	Closing Debtors for Sale of Energy	(Rs. Cr)	4,677.06	9958.14

Sl. No	Particular	Units	NBPDCCL	SBPDCL
M	Any amount written off during the year directly from “L” above	(Rs. Cr)	0.00	0.00
N	Adjusted closing Debtors for Sale of Energy (L+M)	(Rs. Cr)	4,677.06	9,958.14
O	Collection Efficiency (%) $[(H+K-N)*100/J]$	%	95.73%	94.90%
P	Units Realized $(E*O/100)$	MUs	13738.31	16388.09
Q	Units Un-Realized $(C-P)$	MUs	3,142.71	5,002.38
R	AT&C Loss (%) $(Q*100/C)$	%	18.62%	23.39%

Accordingly, the Commission has computed the actual Distribution losses, Collection efficiency and AT&C losses for the Petitioners in True-up of FY 2023-24 as shown in Table Below:

Table 4.11: Summary of AT&C losses for NBPDCCL & SBPDCL, computed by the Commission for FY 2023-24

Particular	NBPDCCL			SBPDCL		
	Approved Target	Claimed for FY 2023-24	Computed by Commission	Approved Target	Claimed for FY 2023-24	Computed by Commission
Distribution loss	15%	13.38%	14.99%	15%	18.00%	19.27%
Collection Efficiency	100%	95.73%	95.73%	100%	94.90%	94.90%
AT&C loss	15%	17.08%	18.62%	15%	22.18%	23.39%

4.3.1 Transmission Losses

NBPDCCL's submission:

Petitioner submitted that the Intra-State transmission loss is taken as per actuals i.e. 571.39 MUs from the audited accounts for FY 2023-24. Petitioner has also submitted that it has taken the Central Transmission loss as per actuals i.e. 692.20 MUs from the audited accounts for FY 2023-24.

SBPDCL's submission:

Petitioner submitted that the Intra-State transmission loss is taken as per actuals, i.e.

706.91 MUs from the audited accounts for FY 2023-24. Petitioner has also submitted that it has taken the Central Transmission loss as per actuals, i.e., 870.31MUs from the audited accounts for FY 2023-24.

Commission's analysis:

In response to the clarification sought by the Commission, Petitioners submitted the month-wise computation of billed energy to Discoms by Central Sector Generators and Scheduled energy of Discoms at state periphery and others and computation of inter-state and intra-state Transmission losses for FY 2023-24 as shown below.

Inter-State Transmission losses

Sl.No	Particular	Unit	Value
A	Total Energy for Discoms in Central Sector Purchase	MU	38650.81
B	Scheduled Energy for Discoms	MU	37256.42
C	UI	MU	-173.16
D	Drawl at Bihar Boundary	MU	37083.25
E	Difference against Central Sector Purchase and Drawl at Bihar Level (=Losses)	MU	1567.56
F	Billed Energy for Renewable central	MU	3825.35
G	Inter-State Transmission losses $(=E*100/(A-F))$	%	4.50%
H	Losses allocated to NBPDCCL (44.48%)	MU	697.25
I	Losses allocated to SBPDCL (55.52%)	MU	870.31

Intra-State Transmission losses

Sl.No	Particular	Unit	Value
A	Drawal At Bihar Boundary	MU	37083.26
B	Intrastate Purchase	MU	3135.001
C	Total Power at BSPTCL	MU	40218.26
D	NBPDCCL Total Drawal	MU	17147.42
E	SBPDCL Total Drawal	MU	21404.76
F	EMBEDDED GENERATION	MU	47.32975
G	Discom's (NB+SB) drawal from BSPTCL	MU	38504.85
H	Sale to Prosumers	MU	10.13154
I	Railway Overdrawal	MU	430.028
J	Total Drawal from BSPTCL	MU	38945.01
K	Losses in STU	MU	1273.247

Sl.No	Particular	Unit	Value
L	Losses in STU-NBPDCCL (44.48%)	MU	566.3402
M	Losses in STU-SBPDCL (55.52%)	MU	706.91
N	Percentage STU Losses	%	3.17%

Although the actual intra-state Transmission Loss as computed above comes to 1273.247 MU, however, Commission considers Intra-state transmission (STU) loss at 1059.92 MU (as per SLDC certificate). This loss quantum of 1059.920 MU is apportioned among NBPDCCL & SBPDCL in the power sharing ratio i.e. 471.46 MU for NBPDCCL and 588.47 MU for SBPDCL.

The Commission carried out the prudence check of Petitioners' submission and found it to be in line with Regional Energy Accounting (REA) and UI deviation accounts for the period FY 2023-24 for Bihar from the ERPC website. Energy scheduled at state periphery is considered after reducing STOA and Railway schedule units. The computation of inter-state Transmission loss is as shown in Table below:

Table 4.12: Inter-state Transmission losses computed by Commission for FY 2023-24

Sl.No	Particular	Legend	Unit	Value
A	Billed Energy for DISCOM from Central Sector (NTPC, NHPC, IPP, PTC etc) Gen bus	A	MU	39150.12
B	Schedule Energy at Bihar periphery as per ERPC	B	MU	38064.93
C	Less: STOA & Railway Schedule	C	MU	779.36
D	Schedule Energy for DISCOM at Bihar periphery (Excluding STOA & Railway)	D= B-C	MU	37285.57
E	CTU loss	E = A-D	MU	1864.55
F	CTU loss	F=E/A*100	%	4.76

Accordingly, the Commission considers Inter-state transmission (CTU) loss at 1864.55 MU in Truing up for FY 2023-24 apportioned among NBPDCCL & SBPDCL in the power sharing ratio 44.48 (NB) : 55.52 (SB) & i.e. 829.35 MU for NBPDCCL and 1035.20 MU for SBPDCL as per actual consumption during FY 2023-24.

4.4. Power Purchase for FY 2023-24

Petitioners' submission

Petitioners submitted that the Power Distribution Companies rely heavily on allocation from central generating stations and other outside State projects for procuring power for sale to consumers within the State. This dependence therefore creates a significant amount of uncertainty in terms of reliability and also significantly pushes up the power purchase costs (due to the fact that sometimes the power allocation is made from inefficient plants in addition to the higher inter-state transmission charges and losses). Power procurement for both the petitioners is executed by the power management cell of BSP(H)CL, and this is allocated between the two DISCOMs, NBPDCCL and SBPDCL, in the proportion as determined by demand growth requirement and consequent power supply requirement.

Long Term Power Purchase from existing source has primarily been NTPC, NHPC and the same has been considered based on the actual quantum with adjustments to capture overall power purchase cost in a reasonable manner. Other sources of power include power procured from State Generating companies (RE and Non-RE Sources) and IPPs.

Medium / Short Term The power purchase from these sources is namely IEX, DEEP Portal etc., and these have been adequately considered as per the actual power purchase data provided.

The details of actual power purchased from various sources in FY 2023-24 as submitted by NBPDCCL and SBPDCL are as shown in Table below:

Table 4.13: Actual Power Purchase for FY 2023-24, as claimed by NBPDCCL & SBPDCL

	Name of The Source	NBPDCCL		SBPDCL	
		Share allocated (MW)	Units purchased (MU)	Share allocated (MW)	Units purchased (MU)
I	Stations with injection at CTU	2,771.99	16,072.85	3,460.00	20,062.16
1	NTPC(BARH-I)	352.28	1,295.59	439.72	1,617.16
2	NTPC(BARH-II)	508.41	2,856.04	634.59	3,564.91
3	NTPC (DARLIPALLI)	79.13	1,017.24	98.77	1,269.72
4	NTPC (FARAKKA - I & II)	48.04	755.69	59.96	943.25

	Name of The Source	NBPDC		SBPDCL	
		Share allocated (MW)	Units purchased (MU)	Share allocated (MW)	Units purchased (MU)
5	NTPC (FARAKKA - III)	43.15	222.78	53.85	278.08
6	NTPC (KAHALGAUN - I)	23.13	536.88	28.87	670.13
7	NTPC (KAHALGAUN - II)	28.47	191.04	35.53	238.45
8	NTPC (NORTH KARANPURA)	264.21	1,004.47	329.79	1,253.78
9	NTPC (TALCHAR)	179.70	1,274.73	224.30	1,591.12
10	NTPC (KBUNL-II)	128.55	866.66	160.45	1,081.77
11	NABINAGAR POWER GENERATION COMPANY LIMITED	729.47	4,855.00	910.53	6,060.02
12	BHARTIYA RAIL BIJLEE COMPANY LIMITED	44.48	253.67	55.52	316.63
13	NHPC (RANGIT)	10.23	48.63	12.77	60.70
14	NHPC (TEESTA)	47.59	180.96	59.41	225.88
15	PTC (TALA)	115.69	140.13	144.41	174.91
16	PTC (CHUKHA)	41.42	148.32	51.69	185.14
17	PTC (MANGDECHHU)	126.53	424.36	157.94	529.69
18	PTC(KURUCHU)	1.52	0.66	1.89	0.82
II	Stations with injection at STU	344.54	1,290.48	430.06	1,610.76
1	BSHPC	24.29	14.33	30.31	17.88
2	NTPC (BARAUNI-I)	97.86	38.55	122.14	48.12
3	NTPC (BARAUNI-II)	222.40	1,237.59	277.60	1,544.76
III	IPPs	217.06	1,638.86	270.94	2,045.62
1	GMR KAMALANGA ENERGY LIMITED	115.65	881.61	144.35	1,100.42
2	JINDAL INDIA TARMAL POWER LIMITED	101.41	757.25	126.59	945.20
IV	Renewables	1,333.64	1,856.52	1,664.66	2,317.31
1	TIRUPATI SUGAR LIMITED	2.67	6.84	3.33	8.54
2	HARINAGAR SUGAR MILL	6.45	23.84	8.05	29.75
3	HASANPUR SUGAR MILL	4.45	7.04	5.55	8.79
4	BHARAT SUGAR MILL	6.67	9.02	8.33	11.26

	Name of The Source	NBPDC		SBPDCL	
		Share allocated (MW)	Units purchased (MU)	Share allocated (MW)	Units purchased (MU)
5	HPCL BIOFUELS LIMITED, SUGAULI	8.90	-	11.10	-
6	HPCL BIOFUELS LIMITED, LAURIYA	8.90	-	11.10	-
7	NEW SWADESHI SUGAR MILL	4.45	4.67	5.55	5.83
8	RIGA SUGAR COMPANY LIMITED	1.33	-	1.67	-
9	BIHAR DISTILLERS AND BOTTLERS PRIVATE LIMITED	4.18	8.01	5.22	10.00
10	SIDHASHRAM RICE MILL CLUSTER PVT. LTD	0.89	-	1.11	-
11	GLATT SOLUTION PRIVATE LIMITED	1.33	2.30	1.67	2.88
12	SECI (FOCAL)	4.45	8.24	5.55	10.28
13	SECI (VIVID SOLAIRE ENERGY PVT. LTD.)	22.33	64.73	27.87	80.80
14	SECI (GREEN INFRA WIND ENERGY PVT. LTD.)	133.57	135.40	166.73	169.01
15	SECI (Morjar Windfarms Pvt. Ltd.)	66.72	53.60	83.28	66.91
16	SECI (GREENKO SIRONJ WIND POWER PVT. LTD.)	88.96	117.54	111.04	146.72
17	PTC (OSTRO KUTCH WIND PRIVATE LIMITED)	111.20	69.61	138.80	86.89
18	PTC (GREEN INFRA RENEWABLE ENERGY LIMITED)	111.16	60.87	138.74	75.98
19	PTC (MYTRAH VAYU SABARMATI PRIVATE LIMITED)	111.20	52.81	138.80	65.92

	Name of The Source	NBPDC		SBPDCL	
		Share allocated (MW)	Units purchased (MU)	Share allocated (MW)	Units purchased (MU)
20	SECI (ALFANAR ENERGY PVT. LTD.)	133.44	65.06	166.56	81.21
21	SECI (OSTRO KANNADA POWERPRIVATE LIMITED)	133.44	283.61	166.56	354.01
22	SB ENERGY SIX PRIVATE LIMITED (NTPC)	133.44	323.07	166.56	403.26
23	RESPONCE RENEWABLE ENERGY PRIVATE LIMITED	4.45	7.85	5.55	9.79
24	ALFA INFRA PROP PVT. LTD.	8.90	14.47	11.10	18.06
25	SECI (RENEW SUNWAVES PRIVATE LIMITED)	133.44	328.96	166.56	410.61
26	SECI (GRT Jewellers)	44.48	146.23	55.52	182.53
27	AVANTIKA CONTRACTOR (I) PVT. LTD.	2.22	3.04	2.78	3.79
28	Welspun I	4.45	7.07	5.55	8.83
29	Welspun II	6.67	9.44	8.33	11.79
30	Welspun III	6.67	9.63	8.33	12.01
31	UDIPTA ENERGY AND EQUIPMENT PRIVATE LIMITED	2.22	3.20	2.78	3.99
32	SUNMARK ENERGY PROJECT LIMITED	4.45	6.84	5.55	8.54
33	ACME (MAGADH)	4.45	6.88	5.55	8.59
34	ACME (NALANDA)	6.67	9.82	8.33	12.25
35	AZURE POWER ERIS PVT. LTD.	4.45	5.88	5.55	7.34
36	Avada power eris pvt ltd	-	0.91	-	1.14
V	Others	-	178.42	-	222.72
1	IEX Purchase	-	232.16	-	289.78
2	SHORT TERM (including NEA, NTPC, NHPC etc)	-	23.28	-	29.08

	Name of The Source	NBPDCCL		SBPDCL	
		Share allocated (MW)	Units purchased (MU)	Share allocated (MW)	Units purchased (MU)
3	ERPC UI DSM	-	(77.02)	-	(96.14)
VI	Total	4,667.24	21,037.12	5825.65	26,258.58

Commission's analysis

The Commission has noted the power purchased quantum from the Central Generating Stations and other sources from ERPC website and validated with power purchase bills submitted and found to be in order.

The Commission recognises the sources of power purchase outlined by the Petitioners which is based on audited annual accounts for FY 2023-24. The approved power purchase quantum from various sources for FY 2023-24 is given in the Table below:

Table 4.14: Source-wise Power Purchase (MUs) approved for NBPDCCL & SBPDCL for FY 2023-24

Sl. No	Name of the Source	NBPDCCL		SBPDCL	
		Share Allocated (MW)	Units Purchased (MU)	Share Allocated (MW)	Units Purchased (MU)
A	Stations with injection at CTU	2772.00	16072.85	3459.99	20062.16
1	NTPC(BARH-I)	352.28	1,295.59	439.72	1617.16
2	NTPC(BARH-II)	508.41	2,856.04	634.59	3564.91
3	NTPC (DARLIPALLI)	79.13	1,017.24	98.77	1269.72
4	NTPC (FARAKKA - I & II)	48.04	755.69	59.96	943.25
5	NTPC (FARAKKA - III)	43.15	222.78	53.85	278.08
6	NTPC (KAHALGAUN - I)	23.13	536.88	28.87	670.13
7	NTPC (KAHALGAUN - II)	28.47	191.04	35.53	238.45
8	NTPC (NORTH KARANPURA)	264.21	1,004.47	329.79	1253.78
9	NTPC (TALCHAR)	179.70	1,274.73	224.30	1591.12
10	NTPC (KBUNL-II)	128.55	866.66	160.45	1081.77
11	NABINAGAR POWER GENERATION COMPANY LIMITED	729.47	4,855.00	910.53	6060.02
12	BHARTIYA RAIL BIJLEE COMPANY LIMITED	44.48	253.67	55.52	316.63
13	NHPC (RANGIT)	10.23	48.63	12.77	60.70
14	NHPC (TEESTA)	47.59	180.96	59.41	225.88
15	PTC (TALA)	115.69	140.13	144.41	174.91
16	PTC (CHUKHA)	41.42	148.32	51.69	185.14
17	PTC (MANGDECHHU)	126.53	424.36	157.94	529.69
18	PTC(KURUCHU)	1.52	0.66	1.89	0.82
B	Stations with injection at STU	344.55	1290.47	430.05	1610.76

Sl. No	Name of the Source	NBPDC		SBPDCL	
		Share Allocated (MW)	Units Purchased (MU)	Share Allocated (MW)	Units Purchased (MU)
1	BSHPC	24.29	14.33	30.31	17.88
2	NTPC (BARAUNI-I)	97.86	38.55	122.14	48.12
3	NTPC (BARAUNI-II)	222.40	1,237.59	277.60	1544.76
C	IPPs	217.06	1638.86	270.94	2045.62
1	GMR	115.65	881.61	144.35	1100.42
2	JITPL	101.41	757.25	126.59	945.20
D	Renewables	1333.65	1856.48	1664.65	2317.30
1	TIRUPATI SUGAR LIMITED	2.67	6.84	3.33	8.54
2	HARINAGAR SUGAR MILL	6.45	23.84	8.05	29.75
3	HASANPUR SUGAR MILL	4.45	7.04	5.55	8.79
4	BHARAT SUGAR MILL	6.67	9.02	8.33	11.26
5	HPCL BIOFUELS LIMITED, SUGAULI	8.90		11.10	
6	HPCL BIOFUELS LIMITED, LAURIYA	8.90		11.10	
7	NEW SWADESHI SUGAR MILL	4.45	4.67	5.55	5.83
8	RIGA SUGAR COMPANY LIMITED	1.33		1.67	
9	BIHAR DISTILLERS AND BOTTLERS PRIVATE LIMITED	4.18	8.01	5.22	10.00
10	SIDDHASHRAM RICE MILL CLUSTER PVT. LTD	0.89		1.11	
11	GLATT SOLUTION PRIVATE LIMITED	1.33	2.30	1.67	2.88
12	SECI (FOCAL)	4.45	8.24	5.55	10.28
13	SECI (VIVID SOLAIRE ENERGY PVT. LTD.)	22.33	64.73	27.87	80.80
14	SECI (GREEN INFRA WIND ENERGY PVT. LTD.)	133.57	135.40	166.73	169.01
15	SECI (Morjar Windfarms Pvt. Ltd.)	66.72	53.60	83.28	66.91
16	SECI (GREENKO SIRONJ WIND POWER PVT. LTD.)	88.96	117.54	111.04	146.72
17	PTC (OSTRO KUTCH WIND PRIVATE LIMITED)	111.20	69.61	138.80	86.89
18	PTC (GREEN INFRA RENEWABLE ENERGY LIMITED)	111.16	60.87	138.74	75.98
19	PTC (MYTRAH VAYU SABARMATI PRIVATE LIMITED)	111.20	52.81	138.80	65.92
20	SECI (ALFANAR ENERGY PVT. LTD.)	133.44	65.06	166.56	81.21
21	SECI (OSTRO KANNADA POWERPRIVATE LIMITED)	133.44	283.61	166.56	354.01
22	SB ENERGY SIX PRIVATE LIMITED (NTPC)	133.44	323.07	166.56	403.26
23	RESPONCE RENEWABLE ENERGY PRIVATE LIMITED	4.45	7.85	5.55	9.79
24	ALFA INFRA PROP PVT. LTD.	8.90	14.47	11.10	18.06
25	SECI (RENEW SUNWAVES PRIVATE LIMITED)	133.44	328.96	166.56	410.61
26	SECI (GRT Jewellers)	44.48	146.23	55.52	182.53
27	AVANTIKA CONTRACTOR (I) PVT. LTD.	2.22	3.04	2.78	3.79
28	Welspun I	4.45	7.07	5.55	8.83
29	Welspun II	6.67	9.44	8.33	11.79
30	Welspun III	6.67	9.63	8.33	12.01
31	UDIPTA ENERGY AND EQUIPMENT PRIVATE LIMITED	2.22	3.20	2.78	3.99
32	SUNMARK ENERGY PROJECT LIMITED	4.45	6.84	5.55	8.54
33	ACME (MAGADH)	4.45	6.88	5.55	8.59

Sl. No	Name of the Source	NBPDCCL		SBPDCL	
		Share Allocated (MW)	Units Purchased (MU)	Share Allocated (MW)	Units Purchased (MU)
34	ACME (NALANDA)	6.67	9.82	8.33	12.25
35	AZURE POWER ERIS PVT. LTD.	4.45	5.88	5.55	7.34
36	Avada power eris pvt ltd		0.91		1.14
E	Others	0.00	178.42	0.00	222.72
1	Power Exchange Purchase		232.16		289.78
2	SHORT TERM (including NEA, NTPC, NHPC etc)		23.28	0.00	29.08
3	ERPC UI DSM		(77.02)		(96.140)
	Grand Total	4667.26	21037.08	5825.63	26258.56

Commission considers total quantum of power purchase of 21037.08 MU for NBPDCCL and 26258.56 MU for SBPDCL for the purpose of working out the energy balance and for further computation of the power purchase cost as part of the truing-up exercise for FY 2023-24.

4.5. Energy Balance

Petitioners' submission

Petitioners have submitted that energy balance is calculated based on the actual sales, distribution losses and power availability during FY 2023-24. Detailed computation as submitted by the petitioner is shown in Table below:

Table 4.15: Energy Balance for Truing-up of FY 2023-24, as submitted by NBPDCCL & SBPDCL

Sr No	Particulars	Unit	NBPDCCL Actual FY 2023-24	SBPDCL Actual FY 2023-24
A	Energy Requirement			
1	Energy sales (retail sales incl. Nepal and other entity)	MU	14,912	17,577.79
2	Less: Inter-state sales (Nepal)	MU	257	-
3	Energy sales excluding Inter-state sales	MU	14,655.13	17,577.79
4	Distribution Loss	%	13.38%	18.00%
5	Add: Distribution Loss	MU	2,264	3,858.54
6	Total energy required at Distribution periphery	MU	16,918.88	21,436.33
7	Add: Inter-state sales	MU	257	-

Sr No	Particulars	Unit	NBPDC Actual FY 2023-24	SBPDCL Actual FY 2023-24
8	Total energy required at Distribution periphery	MU	17,175	21,436.33
9	State Transmission Loss	%	3.22%	3.19%
10	Add: State Transmission Loss	MU	571	706.91
11	Total energy required at State Transmission Periphery	MU	17,747	22,143.24
12	Losses in Regional Transmission system	%	3.75%	3.78%
13	Losses in Regional Transmission system	MU	692	870.31
14	Total Energy Requirement at ex-bus	MU	18,439	23,013.55
15	Total energy Purchased (inc surplus power)	MU	21,037.12	26,258.58
B	Energy Surplus/(Deficit) at State Periphery	MU	2,598	3,245.03
C	Surplus energy sale	MU	2,407	3,005.67
D	SLDC Deviation	MU	191	239
	Net Energy Surplus/ (Deficit)	MU	0	0

Commission analysis:

The Energy Balance for FY 2023-24 has been computed based on the approved energy sales in above Table 4.5 as 14798.94 MU for NBPDC & as 17507.23MU for SBPDCL .Sales at distribution network is determined by deducting inter-state sales (i.e., Sales to Nepal) & SLDC Deviation. Distribution loss at 14.99 % and 19.27 % for NBPDC & SBPDCL respectively for FY 2023-24, is added in distribution network sales to arrive at the energy requirement at state distribution network periphery.

Further, Energy required at state transmission periphery is computed based on the inter- state Transmission loss at 4.76 % as approved in para 4.3.1.

The Commission has arrived at the CTU losses at 1864.55MU on power purchased from Central Stations, IPP etc from outside the State.

The details of energy requirement and availability during FY 2023-24 is Computed as given below:

Table 4.16: Energy Balance for Truing-up for FY 2023-24, as computed by the Commission

Sl. No	Particulars	Unit	NBPDCCL Actual FY 2023-24	SBPDCL Actual FY 2023-24
A	Energy Requirement			
i	Energy sales	MU	14798.94	17507.23
ii	Less: Inter-state sale (Nepal)	MU	256.55	0.00
iii	Less: SLDC Deviation	MU	191.00	238.75
1	Energy sales excluding Nepal and SLDC deviation (i-ii-iii)	MU	14,351.39	17,268.48
2	Distribution Loss	%	14.99%	19.27%
3	Add: Distribution Loss (4-1)	MU	2,529.63	4,122.00
4	Energy available at Distribution periphery		16,881.02	21,390.48
5	Add: SLDC Deviation	MU	191.00	238.75
6	Add: inter-state sale (Nepal)	MU	256.55	0.00
7	Energy available for sale (4+5+6)		17,328.57	21,629.23
8	State Transmission loss (as certified by SLDC)	%	2.65%	2.65%
9	Add: State Transmission Loss	MU	471.46	588.47
10	Total energy available at state periphery (7+9)	MU	17,800.03	22,217.70
B	Energy availability			
11	Energy from all sources at State periphery (14-13)	MU	17,800.03	22,217.70
12	Average Regional transmission loss*	%	4.45%	4.45%
13	Less: average regional transmission loss	MU	829.35	1035.20
14	Total energy required at ex-bus (15-16)	MU	18629.38	23252.90
15	Total Energy purchased from all sources (NTPC, NHPC, PTC, IPP, State, RE, Exchange)	MU	21037.08	26258.56
16	Surplus Energy sold on exchange	MU	2,407.70	3,005.66

* The reason for applying the average regional transmission loss is that the power purchase quantum also includes sources of power on which the regional transmission losses are not applicable i.e., State Generating stations, Renewable Energy sources, etc.,

As shown in the above Table, the Commission has arrived at Surplus energy purchase by NBPDCCL at 2407.70 MU and SBPDCL at 3005.66 MU based on the energy sales and approved Distribution losses.

4.6. Power Purchase Cost

Petitioners' submission

Petitioners have submitted that power purchase cost mainly comprises of fixed charges and energy charges for two-part Tariff essentially with NTPC, NHPC, GMR Kamalanga, Sugar mills, biomass, bagasse and only energy charges in case of single part Tariff based PPAs, which are typically for BSHPC, Solar and short-term power purchase, etc. The Petitioner has presented the actual expenditure incurred on power purchase based on bills raised by the various power sellers. The actual amount has been considered and captured accordingly as a break-up of two-part tariff, wherever applicable, as per the audited accounts of the Petitioner. The Petitioner therefore humbly requests the Hon'ble Commission to allow the actual power purchase cost under this true-up process.

NBPDCCL has submitted that, it has suffered an DSM of 77.02 MU which has resulted into a DSM charge of Rs. 25.16 Crore. NBPDCCL has claimed power purchase cost to an amount of Rs 11,388.03Crore including the transmission charges of INR 1,515.56 Cr for FY 2023-24. The summary of power purchase detail submitted by the NBPDCCL for FY 2023-24 is shown in Table below:

Table 4.17: Actual Power Purchase Cost for FY 2023-24, as claimed by NBPDCCL

Sr No	Name of The Source	NBPDCCL Share Allocated (MW)	Units purchased (MU)	Fixed Charges (Rs Cr)	Energy charge (Rs Cr)	Misc. Charge (Rs Cr)	Total (Rs Cr)	Average cost (Rs /kWh)
I	Stations with injection at CTU	2,771.99	16,072.85	3,147.50	4,313.26	151.85	7,612.61	4.73
1	NTPC(BARH-I)	352.28	1,295.59	366.24	414.64	10.42	791.31	6.11
2	NTPC(BARH-II)	508.41	2,856.04	650.77	963.68	23.21	1,637.66	5.73
3	NTPC (DARLIPALLI)	79.13	1,017.24	166.67	118.91	20.24	305.82	3.01
4	NTPC (FARAKKA - I & II)	48.04	755.69	81.86	252.47	54.88	389.20	5.15
5	NTPC (FARAKKA - III)	43.15	222.78	42.35	73.37	14.38	130.10	5.84

Sr No	Name of The Source	NBPDC Share Allocated (MW)	Units purchased (MU)	Fixed Charges (Rs Cr)	Energy charge (Rs Cr)	Misc. Charge (Rs Cr)	Total (Rs Cr)	Average cost (Rs /kWh)
6	NTPC (KAHALGAUN - I)	23.13	536.88	63.45	168.32	6.81	238.58	4.44
7	NTPC Dadri					0.16	0.16	
8	NTPC (KAHALGAUN - II)	28.47	191.04	16.37	55.77	2.46	74.60	3.91
9	NTPC (NORTH KARANPURA)	264.21	1,004.47	225.82	149.30	3.04	378.16	3.76
10	NTPC (TALCHAR)	179.70	1,274.73	119.03	229.79	17.21	366.02	2.87
11	NTPC (KBUNL-II)	128.55	866.66	220.13	248.54	1.05	469.72	5.42
12	NABINAGAR POWER GENERATION COMPANY LIMITED	729.47	4,855.00	1,105.43	1,281.90	(2.34)	2,384.99	4.91
13	BHARTIYA RAIL BIJLEE COMPANY LIMITED	44.48	253.67	61.36	77.02	0.25	138.62	5.46
14	NHPC (RANGIT)	10.23	48.63	10.45	9.84	0.03	20.32	4.18
15	NHPC (TEESTA)	47.59	180.96	17.56	14.81	0.06	32.43	1.79
16	PTC (TALA)	115.69	140.13	-	31.81	-	31.81	2.27
17	PTC (CHUKHA)	41.42	148.32	-	45.09	-	45.09	3.04
18	PTC (MANGDECHHU)	126.53	424.36	-	177.81	-	177.81	4.19
19	PTC (KURUCHU)	1.52	0.66	-	0.20	-	0.20	2.97
II	Stations with injection at STU	344.54	1,290.48	272.38	364.65	(1.23)	635.81	4.93
1	BSHPC	24.29	14.33		3.57		3.57	2.49
2	NTPC (BARAUNI-I)	97.86	38.55	5.31	17.90	(1.52)	21.69	5.63
3	NTPC (BARAUNI-II)	222.40	1,237.59	267.07	343.18	0.29	610.54	4.93
III	IPPs	217.06	1,638.86	377.80	187.36	24.80	589.95	3.60

Sr No	Name of The Source	NBPDC Share Allocated (MW)	Units purchased (MU)	Fixed Charges (Rs Cr)	Energy charge (Rs Cr)	Misc. Charge (Rs Cr)	Total (Rs Cr)	Average cost (Rs /kWh)
1	GMR KAMALANGA ENERGY LIMITED	115.65	881.61	153.01	102.41	72.28	327.70	3.72
2	JINDAL INDIA THERMAL POWER LIMITED	101.41	757.25	224.79	84.94	(47.48)	262.25	3.46
IV	Renewables	1,333.64	1,856.52	-	558.56	-	558.56	3.01
1	TIRUPATI SUGAR LIMITED	2.67	6.84	-	4.91	-	4.91	7.17
2	HARINAGAR SUGAR MILL	6.45	23.84	-	13.79	-	13.79	5.78
3	HASANPUR SUGAR MILL	4.45	7.04	-	4.88	-	4.88	6.92
4	BHARAT SUGAR MILL	6.67	9.02	-	4.15	-	4.15	4.60
5	HPCL BIOFUELS LIMITED, SUGAULI	8.90	-	-	-	-	-	-
6	HPCL BIOFUELS LIMITED, LAURIYA	8.90	-	-	-	-	-	-
7	NEW SWADESHI SUGAR MILL	4.45	4.67	-	2.16	-	2.16	4.61
8	RIGA SUGAR COMPANY LIMITED	1.33	-	-	-	-	-	-
9	BIHAR DISTILLERS AND BOTTLERS PRIVATE LIMITED	4.18	8.01	-	5.64	-	5.64	7.03
10	SIDDHASHRAM RICE MILL	0.89	-	-	-	-	-	-

Sr No	Name of The Source	NBPDC Share Allocated (MW)	Units purchased (MU)	Fixed Charges (Rs Cr)	Energy charge (Rs Cr)	Misc. Charge (Rs Cr)	Total (Rs Cr)	Average cost (Rs /kWh)
	CLUSTER PVT. LTD							
11	GLATT SOLUTION PRIVATE LIMITED	1.33	2.30	-	1.62	-	1.62	7.02
12	SECI (FOCAL)	4.45	8.24	-	4.87	-	4.87	5.91
13	SECI (VIVID SOLAIRE ENERGY PVT. LTD.)	22.33	64.73	-	16.31	-	16.31	2.52
14	SECI (GREEN INFRA WIND ENERGY PVT. LTD.)	133.57	135.40	-	33.99	-	33.99	2.51
15	SECI (Morjar Windfarms Pvt. Ltd.)	66.72	53.60	-	11.71	-	11.71	2.19
16	SECI (GREENKO SIRONJ WIND POWER PVT. LTD.)	88.96	117.54	-	31.85	-	31.85	2.71
17	PTC (OSTRO KUTCH WIND PRIVATE LIMITED)	111.20	69.61	-	24.57	-	24.57	3.53
18	PTC (GREEN INFRA RENEWABLE ENERGY LIMITED)	111.16	60.87	-	21.49	-	21.49	3.53
19	PTC (MYTRAH VAYU SABARMATI PRIVATE LIMITED)	111.20	52.81	-	18.64	-	18.64	3.53

Sr No	Name of The Source	NBPDC Share Allocated (MW)	Units purchased (MU)	Fixed Charges (Rs Cr)	Energy charge (Rs Cr)	Misc. Charge (Rs Cr)	Total (Rs Cr)	Average cost (Rs /kWh)
20	SECI (ALFANAR ENERGY PVT. LTD.)	133.44	65.06	-	16.39	-	16.39	2.52
21	SECI (OSTRO KANNADA POWERPRIVATE LIMITED)	133.44	283.61	-	61.97	-	61.97	2.18
22	SB ENERGY SIX PRIVATE LIMITED (NTPC)	133.44	323.07	-	86.26	-	86.26	2.67
23	RESPONCE RENEWABLE ENERGY PRIVATE LIMITED	4.45	7.85	-	5.51	-	5.51	7.02
24	ALFA INFRA PROP PVT. LTD.	8.90	14.47	-	11.53	-	11.53	7.96
25	SECI (RENEW SUNWAVES PRIVATE LIMITED)	133.44	328.96	-	86.19	-	86.19	2.62
26	SECI (GRT Jewellers)	44.48	146.23	-	38.02	-	38.02	2.60
27	AVANTIKA CONTRACTOR (I) PVT. LTD.	2.22	3.04	-	2.34	-	2.34	7.69
28	Welspun I	4.45	7.07	-	6.15	-	6.15	8.69
29	Welspun II	6.67	9.44	-	8.16	-	8.16	8.64
30	Welspun III	6.67	9.63	-	8.24	-	8.24	8.56
31	UDIPTA ENERGY AND EQUIPMENT PRIVATE LIMITED	2.22	3.20	-	2.55	-	2.55	7.98

Sr No	Name of The Source	NBPDC Share Allocated (MW)	Units purchased (MU)	Fixed Charges (Rs Cr)	Energy charge (Rs Cr)	Misc. Charge (Rs Cr)	Total (Rs Cr)	Average cost (Rs /kWh)
32	SUNMARK ENERGY PROJECT LIMITED	4.45	6.84	-	4.80	-	4.80	7.02
33	ACME (MAGADH)	4.45	6.88	-	6.01	-	6.01	8.73
34	ACME (NALANDA)	6.67	9.82	-	8.57	-	8.57	8.73
35	AZURE POWER ERIS PVT. LTD.	4.45	5.88	-	4.93	-	4.93	8.39
36	Avada power eris pvt ltd	-	0.91	-	0.38	-	0.38	4.16
V	Others	-	178.42	-	475.61	-	475.61	
1	IEX Purchase	-	232.16	-	195.43	-	195.43	8.42
2	SHORT TERM (including NEA, NTPC, NHPC etc)	-	23.28	-	10.18	-	10.18	4.37
3	ERPC UI DSM		(77.02)	-	25.16	-	25.16	(3.27)
4	Capacity charges NTPC			-	(1.51)		(1.51)	
5	Prior Period Charges			-	246.35	-	246.35	
VI	Transmission charges	-	-	1,515.56	-	-	1,515.56	-
1	PGCIL			894.52	-	-	894.52	
2	BSPTCL			520.29	-	-	520.29	
3	BGCL			96.54	-	-	96.54	
5	ERLDC (POSOCO)			4.21	-	-	4.21	
VII	Total	4,667.24	21,037.12	5,313.23	5,899.39	175.41	11,388.03	5.41

Similarly, SBPDCL has claimed power purchase cost to an amount of Rs 14213.06 Crore for FY 2023-24 including transmission charges of Rs 1927.40 The Summary of power purchase

submitted by the SBPDCL for FY 2023-24 is shown in Table below:

Table 4.18: Power Purchase Cost for FY 2023-24, as claimed by SBPDCL

Sr No	Name of The Source	NBPDC Share Allocated (MW)	Units purchased (MU)	Fixed Charges (Rs Cr)	Energy charge (Rs Cr)	Misc. Charge (Rs Cr)	Total (Rs Cr)	Average cost (Rs /kWh)
I	Stations with injection at CTU	3,460.00	20,062.16	3,928.84	5,490.64	189.35	9,608.85	4.79
1	NTPC(BARH-I)	439.72	1,617.16	457.14	517.56	13.01	987.71	6.11
2	NTPC(BARH-II)	634.59	3,564.91	812.30	1,202.87	28.97	2,044.13	5.73
3	NTPC (DARLIPALLI)	98.77	1,269.72	208.04	148.42	25.27	381.73	3.01
4	NTPC (FARAKKA - I & II)	59.96	943.25	102.26	317.77	68.56	488.59	5.18
5	NTPC (FARAKKA - III)	53.85	278.08	52.91	88.73	17.96	159.60	5.74
6	NTPC (KAHALGAUN - I)	28.87	670.13	79.20	210.03	8.50	297.73	4.44
7	NTPC (KAHALGAUN - II)	35.53	238.45	20.44	69.62	3.07	93.12	3.91
8	NTPC (NORTH KARANPURA)	329.79	1,253.78	281.87	186.35	3.79	472.02	3.76
9	NTPC (TALCHAR)	224.30	1,591.12	148.57	286.82	21.48	456.87	2.87
10	NTPC (KBUNL-II)	160.45	1,081.77	274.77	309.85	1.31	585.94	5.42
11	NABINAGAR POWER GENERATION COMPANY LIMITED	910.53	6,060.02	1,379.80	1,600.07	(2.92)	2,976.95	4.91
12	BHARTIYA RAIL BIJLEE COMPANY LIMITED	55.52	316.63	76.58	94.26	0.31	171.16	5.41
13	NHPC (RANGIT)	12.77	60.70	13.04	12.28	0.04	25.36	4.18
14	NHPC (TEESTA)	59.41	225.88	21.92	26.18	0.01	48.11	2.13
15	PTC (TALA)	144.41	174.91	-	39.70	-	39.70	2.27
16	PTC (CHUKHA)	51.69	185.14	-	56.28	-	56.28	3.04
17	PTC (MANGDECHHU)	157.94	529.69	-	221.94	-	221.94	4.19
18	PTC(KURUCHU)	1.89	0.82	-	0.24	-	0.24	2.97
19	Prior Period Adjustment (PTC)	-			35.88		35.88	
20	Prior Period Adjustment (NHPC)				(2.91)		(2.91)	
21	Prior Period Adjustment (NTPC)				170.59		170.59	
22	Prior Period Adjustment (NPGCL)				(5.23)		(5.23)	
23	Prior Period Adjustment (KBUNL)				(108.45)		(108.45)	
24	Prior Period Adjustment (BRBCL)				11.79		11.79	

II	Stations with injection at STU	430.06	1,610.77	339.98	456.97	(1.54)	795.41	4.94
1	BSHPC	30.31	17.88		4.45		4.45	2.49
2	NTPC (BARAUNI-I)	122.14	48.12	6.63	22.36	(1.90)	27.08	5.63
3	NTPC (BARAUNI-II)	277.60	1,544.76	333.36	430.17	0.36	763.88	4.94
III	IPPs	270.94	2,045.62	471.57	233.86	30.95	736.37	3.60
1	GMR KAMALANGA ENERGY LIMITED	144.35	1,100.42	190.98	127.83	90.22	409.03	3.72
2	JINDAL INDIA THARMAL POWER LIMITED	126.59	945.20	280.58	106.03	(59.27)	327.34	3.46
IV	Renewables	1,664.66	2,317.31	-	704.99	-	704.99	3.04
1	TIRUPATI SUGAR LIMITED	3.33	8.54	-	6.12	-	6.12	7.17
2	HARINAGAR SUGAR MILL	8.05	29.75	-	17.21	-	17.21	5.78
3	HASANPUR SUGAR MILL	5.55	8.79	-	6.09	-	6.09	6.92
4	BHARAT SUGAR MILL	8.33	11.26	-	5.18	-	5.18	4.60
5	HPCL BIOFUELS LIMITED, SUGAULI	11.10	-	-	-	-	-	
6	HPCL BIOFUELS LIMITED, LAURIYA	11.10	-	-	-	-	-	
7	NEW SWADESHI SUGAR MILL	5.55	5.83	-	2.69	-	2.69	4.61
8	RIGA SUGAR COMPANY LIMITED	1.67	-	-	-	-	-	
9	BIHAR DISTILLERS AND BOTTLERS PRIVATE LIMITED	5.22	10.00	-	6.98	-	6.98	6.98
10	SIDHASHRAM RICE MILL CLUSTER PVT. LTD	1.11	-	-	-	-	-	
11	GLATT SOLUTION PRIVATE LIMITED	1.67	2.88	-	2.02	-	2.02	7.02
12	SECI (FOCAL)	5.55	10.28	-	6.08	-	6.08	5.91
13	SECI (VIVID SOLAIRE ENERGY PVT. LTD.)	27.87	80.80	-	20.36	-	20.36	2.52
14	SECI (GREEN INFRA WIND ENERGY PVT. LTD.)	166.73	169.01	-	42.42	-	42.42	2.51
15	SECI (Morjar Windfarms Pvt. Ltd.)	83.28	66.91	-	14.62	-	14.62	2.19
16	SECI (GREENKO SIRONJ WIND POWER	111.04	146.72	-	39.76	-	39.76	2.71

	PVT. LTD.)							
17	PTC (OSTRO KUTCH WIND PRIVATE LIMITED)	138.80	86.89	-	30.67	-	30.67	3.53
18	PTC (GREEN INFRA RENEWABLE ENERGY LIMITED)	138.74	75.98	-	26.82	-	26.82	3.53
19	PTC (MYTRAH VAYU SABARMATI PRIVATE LIMITED)	138.80	65.92	-	23.27	-	23.27	3.53
20	SECI (ALFANAR ENERGY PVT. LTD.)	166.56	81.21	-	20.46	-	20.46	2.52
21	SECI (OSTRO KANNADA POWERPRIVATE LIMITED)	166.56	354.01	-	77.35	-	77.35	2.18
22	SB ENERGY SIX PRIVATE LIMITED (NTPC)	166.56	403.26	-	107.67	-	107.67	2.67
23	RESPONCE RENEWABLE ENERGY PRIVATE LIMITED	5.55	9.79	-	6.87	-	6.87	7.02
24	ALFA INFRA PROP PVT. LTD.	11.10	18.06	-	14.39	-	14.39	7.96
25	SECI (RENEW SUNWAVES PRIVATE LIMITED)	166.56	410.61	-	107.58	-	107.58	2.62
26	SECI (GRT Jewellers)	55.52	182.53	-	47.46	-	47.46	2.60
27	AVANTIKA CONTRACTOR (I) PVT. LTD.	2.78	3.79	-	2.92	-	2.92	7.69
28	Welspun I	5.55	8.83	-	7.68	-	7.68	8.69
29	Welspun II	8.33	11.79	-	10.18	-	10.18	8.64
30	Welspun III	8.33	12.01	-	10.28	-	10.28	8.56
31	UDIPTA ENERGY AND EQUIPMENT PRIVATE LIMITED	2.78	3.99	-	3.18	-	3.18	7.98
32	SUNMARK ENERGY PROJECT LIMITED	5.55	8.54	-	6.00	-	6.00	7.02
33	ACME (MAGADH)	5.55	8.59	-	7.50	-	7.50	8.73
34	ACME (NALANDA)	8.33	12.25	-	10.70	-	10.70	8.73
35	AZURE POWER ERIS PVT. LTD.	5.55	7.34	-	6.16	-	6.16	8.39
36	Avada power eris pvt ltd	-	1.14	-	0.47	-	0.47	4.16

37	Prior Period Adjustment (Renew)				0.53		0.53	
38	Prior Period Adjustment (Sugar Mills)	-			7.31		7.31	
39	Prior Period Adjustment (Solar)				0.01		0.01	
V	Others	-	222.72	-	440.04	-	440.04	19.76
1	IEX Purchase	-	289.78	-	244.04	-	244.04	8.42
3	NHPC Short term		6.20		2.51		2.51	
4	NTPC Short term		12.42		5.88		5.88	
5	Short term Power		10.46	-	4.77	-	4.77	
3	ERPC UI DSM	-	(96.14)	-	31.04	-	31.04	(3.23)
4	Capacity charges NTPC	-	-	-	(1.80)	-	(1.80)	
6	Prior Period Adjustment (Medium term)				155.01		155.01	
7	Prior Period Adjustment (IEX)				(1.71)		(1.71)	
8	Prior Period UI				0.30		0.30	
VI	Transmission charges	-	-	1,927.40	-	-	1,927.40	
1	PGCIL	-	-	1,153.87	-	-	1,153.87	
2	BSPTCL	-	-	642.95	-	-	642.95	
3	BGCL	-	-	115.50	-	-	115.50	
4	SLDC	-	-	6.47	-	-	6.47	
5	ERLDC (POSOCO)		-	6.21			6.21	
6	Prior Period Adjustment			2.40			2.40	
VII	Total	5,825.65	26,258.58	6,667.78	7,326.50	218.76	14,213.06	5.41

Further, petitioners have also submitted the summary of the expenses towards inter-state and intra-state Transmission Charges for FY 2023-24 based on actual audited accounts is given in the table below:

Table 4.19: PGCIL and POSCO charges

(Rs. Crores)

Source	NBPDC	SBPDCL	Total
POWERGRID	894.52	1,153.87	2048.39

POSOCC Charges	4.21	6.21	10.42
Prior Period PGCL		2.39	2.39

The charges payable to State Transmission Utility i.e., BSPTCL, BGCL, SLDC based on actuals for FY 2023-24 is shown below.

Table 4.20: State transmission charges (Rs. Crores)

Source	NBPDCCL	SBPDCL	Total
BSPTCL Charges	515.11	642.95	1158.06
BGCL Charges	96.54	115.50	212.04
SLDC Charges	5.18	6.47	11.65

Commission analysis:

The power purchase cost claimed by the petitioners in their petition and the power purchase cost provided in their Audited Accounts for FY 2023-24 are as shown below:

Power Purchase cost claimed vis-à-vis Power Purchase cost as per audited account for FY 2023-24

Sl.No	Particulars	NBPDCCL		SBPDCL	
		Claimed for FY 2023-24	As per Audited Accounts of FY 2023-24	Claimed for FY 2023-24	As per Audited Accounts of FY 2023-24
1	Energy Purchase (MU)	21,037.12	21,037.14	26,258.58	26,258.58
2	Total Power Purchase Cost (Rs. Crore)	11,388.03	11,388.03	14,213.06	14,213.06
a)	Power Purchase Cost (Rs. Cr.)	9,626.19	9,626.12	12,029.06	12,029.06
b)	Prior period Power Purchase Cost (Rs. Cr.)	246.35	246.35	262.85	262.85

Sl.No	Particulars	NBPDC		SBPDCL	
		Claimed for FY 2023-24	As per Audited Accounts of FY 2023-24	Claimed for FY 2023-24	As per Audited Accounts of FY 2023-24
c)	BSPTCL Charges (Rs. Cr) (Including SLDC)	520.29	520.29	649.42	649.42
d)	BGCL Charges (Rs. Cr)	96.54	96.54	115.50	115.50
e)	PGCL Charges (Rs. Cr.)	894.52	894.52	1,153.87	1,153.87
f)	POSOCO	4.21	4.21	6.21	6.21
g)	Prior period Transmission Charges (Rs. Cr.)	-		2.40	2.40

Note: Energy Purchased for NBPDC differs by 0.02 MU from audited accounts with claimed.

The Commission has examined power purchase bills submitted by the Petitioners and noted that the power purchase quantum and cost shown in the petitions are in accordance with the power purchase bills for FY 2023-24.

UI Charges:

The Commission observes that NBPDC has shown Rs. 25.16 Crore for net UI under drawal of 77.02 MU and SBPDCL has shown Rs. 31.04 Crore against net UI under drawal of 96.14 MU totaling of Rs. 56.20 Crores payable for net UI under drawal of 173.16 MU.

On a clarification sought by the Commission, the Discoms have submitted revised DSM Table as shown below:

Sl. No	Particulars	Amount (Rs. Crores)
1	DSM Charges for Bihar level payable	143.80
2	VARh charges	0.72
3	Less: Bhutan Deviation	87.95
4	Net UI Charges	*56.57

*Difference of Rs 0.37 Cr from initial submission by petitioner

The Commission has checked the data submitted by the petitioners with the DSM account maintained by ERPC.

The Commission is of the opinion that the licensees' under drawal / over drawal of UI energy should be strictly within the specified limit stipulated by CERC so as to maintain grid discipline and also to avoid any additional deviation charges, which ultimately result in increase of power purchase cost. The underdrawl and/or overdrawl of Energy above the allowable limit and/ or beyond the allowable time blocks can be controlled through better power planning combined with improved power portfolio management and efficient Grid operation and for this reason the Commission is of the view that imposition of additional deviation charges on account of deviation in volume and overdrawl when grid frequency is below that 49.95 Hz are penal in nature and therefore should not be allowed to pass through in the power purchase cost.

As per CERC DSM Regulations 2022 read with CERC Suo-moto order dated 06.02.2023, the charges for deviation in a time block by buyer payable by such buyer in case of deviation by way of overdrawl increases in proportion to % increase of deviation in particular time block. The charges for deviation are maximum, when deviation is beyond 15%. Similarly, the deviation charges are levied irrespective of volume limit when frequency of grid is at critical level. The buyer shall have to pay for deviation by way of overdrawl (i) @ 150% of normal rate of charge for deviation when $[49.90 < f < 49.95]$; and (ii) @ 200% of normal rate of charge for deviation when $[f \leq 49.90]$.

In order to maintain the grid discipline and to ensure grid security and to discourage over drawal beyond permissible limits, the Commission decides not to approve the cases of overdrawl when the deviation in a time block is beyond 15% and / or the frequency of grid is less than 49.90 Hz.

The Commission therefore does not find the additional deviation charges as discussed above fit to be considered and allows only net deviation charges of Rs. 1.71 Crore as given in the table below. This amount is to be shared among NBPDCCL & SBPDCL in their power purchase ratio at Rs. 0.76 Crores for NBPDCCL and Rs. 0.95 Crore for SBPDCL

Sl. No	Particulars	Amount (Rs. Crores)
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1	DSM Charges for Bihar level payable	143.80
2	VARh charges	0.72
3	Less : Bhutan Deviation (receivable)	87.95
4	Net UI Charges	56.57
5	Less : DSM charges payable (overdrawal when F<49.5)	45.74
6	Less : DSM charges payable (Overdrawal - deviation in between 10-15%)	9.12
7	Net UI allowable	1.71
8	Net UI NBPDC	0.76
9	Net UI SBPDCL	0.95

Based on the above, the summary of Power Purchase cost and quantum approved by the Commission in True-up of FY 2023-24 is provided in the Tables below:

Table 4.21: Power Purchase Quantum and Cost of NBPDCCL for FY 2023-24, as approved by the Commission

Sl.No	Particulars	Share allocated (MW)	Units purchased (MU)	Fixed Cost (Rs. Crore /MW)	Fixed charge (Rs Crs)	Energy Rate (Rs/kWh)	Energy cost (Rs Crs)	Miscellaneous cost (Rs Crs)	Total Cost (Rs Crs)	Average Cost (Rs./kWh)
A	Stations Injecting At CTU	2772.00	16072.85	1.14	3147.49	2.68	4313.27	151.54	7612.30	4.74
1	NTPC(Barh-I)	352.28	1295.59	1.04	366.24	3.20	414.64	10.42	791.30	6.11
2	NTPC(Barh-II)	508.41	2856.04	1.28	650.77	3.37	963.68	23.21	1637.66	5.73
3	NTPC (Darlipalli)	79.13	1017.24	2.11	166.67	1.17	118.91	20.24	305.82	3.01
4	NTPC (Farakka - I & II)	48.04	755.69	1.70	81.86	3.34	252.47	54.88	389.21	5.15
5	NTPC (Farakka - III)	43.15	222.78	0.98	42.35	3.29	73.37	14.38	130.10	5.84
6	NTPC (Kahalgau - I)	23.13	536.88	2.74	63.45	3.14	168.32	6.81	238.58	4.44
7	NTPC Dadri							-0.16	-0.16	
8	NTPC (Kahalgau - II)	28.47	191.04	0.57	16.37	2.92	55.77	2.46	74.60	3.90
9	NTPC (North Karanpura)	264.21	1004.47	0.85	225.82	1.49	149.30	3.04	378.16	3.76
10	NTPC (Talchar)	179.70	1274.73	0.66	119.03	1.80	229.79	17.21	366.03	2.87
11	NTPC (Kbunl-II)	128.55	866.66	1.71	220.13	2.87	248.54	1.05	469.72	5.42
12	Nabinagar Power Generation Company Limited	729.47	4855.00	1.52	1105.43	2.64	1281.90	-2.34	2384.99	4.91
13	Bhartiya Rail Bijlee Company Limited	44.48	253.67	1.38	61.36	3.04	77.02	0.25	138.63	5.46
14	NHPC (Rangit)	10.23	48.63	1.02	10.45	2.02	9.84	0.03	20.32	4.18
15	NHPC (Teesta)	47.59	180.96	0.37	17.56	0.82	20.97	0.06	38.59	2.13
16	PTC (Tala)	115.69	140.13	0.00		2.27	31.81		31.81	2.27
17	PTC (Chukha)	41.42	148.32	0.00		3.04	45.09		45.09	3.04
18	PTC (Mangdechhu)	126.53	424.36	0.00		4.19	177.81		177.81	4.19
19	PTC (Kuruchu)	1.52	0.66	0.00		3.03	0.20		0.20	3.03

Sl.No	Particulars	Share allocated (MW)	Units purchased (MU)	Fixed Cost (Rs. Crore /MW)	Fixed charge (Rs Crs)	Energy Rate (Rs/kWh)	Energy cost (Rs Crs)	Miscellaneous cost (Rs Crs)	Total Cost (Rs Crs)	Average Cost (Rs./kWh)
B	Stations Injecting At STU	344.55	1290.47	0.79	272.38	2.83	364.65	-1.23	635.80	4.93
1	BSHPC	24.29	14.33	0.00	0.00	2.49	3.57	0.00	3.57	2.49
2	NTPC (Barauni-I)	97.86	38.55	0.05	5.31	4.64	17.90	-1.52	21.69	5.63
3	NTPC (Barauni-II)	222.40	1237.59	1.20	267.07	2.77	343.18	0.29	610.54	4.93
C	IPPs	217.06	1638.86	1.74	377.80	1.14	187.35	24.80	589.95	3.60
1	GMR	115.65	881.61	1.32	153.01	1.16	102.41	72.28	327.70	3.72
2	JITPL	101.41	757.25	2.22	224.79	1.12	84.94	-47.48	262.25	3.46
D	Renewables	1333.65	1856.48	0.00	0.00	3.01	558.03	0.00	558.03	3.01
1	Tirupati Sugar Limited	2.67	6.84	0.00		7.18	4.91		4.91	7.18
2	Harinagar Sugar Mill	6.45	23.84			5.78	13.79		13.79	5.78
3	Hasanpur Sugar Mill	4.45	7.04	0.00		6.93	4.88		4.88	6.93
4	Bharat Sugar Mill	6.67	9.02	0.00		4.60	4.15		4.15	4.60
5	Hpcl Biofuels Limited, Sugauli	8.90		0.00					0.00	
6	Hpcl Biofuels Limited, Lauriya	8.90		0.00					0.00	
7	New Swadeshi Sugar Mill	4.45	4.67	0.00		4.63	2.16		2.16	4.63
8	Riga Sugar Company Limited	1.33		0.00					0.00	
9	Bihar Distillers And Bottlers Private Limited	4.18	8.01	0.00		6.99	5.60		5.60	6.99
10	Siddhashram Rice Mill Cluster Pvt. Ltd	0.89		0.00					0.00	
11	Glatt Solution Private Limited	1.33	2.30	0.00		7.04	1.62		1.62	7.04

Sl.No	Particulars	Share allocated (MW)	Units purchased (MU)	Fixed Cost (Rs. Crore /MW)	Fixed charge (Rs Crs)	Energy Rate (Rs/kWh)	Energy cost (Rs Crs)	Miscellaneous cost (Rs Crs)	Total Cost (Rs Crs)	Average Cost (Rs./kWh)
12	Seci (Focal)	4.45	8.24	0.00		5.91	4.87		4.87	5.91
13	Seci (Vivid Solaire Energy Pvt. Ltd.)	22.33	64.73	0.00		2.52	16.31		16.31	2.52
14	Seci (Green Infra Wind Energy Pvt. Ltd.)	133.57	135.40	0.00		2.51	33.99		33.99	2.51
15	Seci (Morjar Windfarms Pvt. Ltd.)	66.72	53.60	0.00		2.18	11.71		11.71	2.18
16	Seci (Greenko Sironj Wind Power Pvt. Ltd.)	88.96	117.54	0.00		2.71	31.85		31.85	2.71
17	Ptc (Ostro Kutch Wind Private Limited)	111.20	69.61	0.00		3.53	24.57		24.57	3.53
18	Ptc (Green Infra Renewable Energy Limited)	111.16	60.87	0.00		3.53	21.49		21.49	3.53
19	Ptc (Mytrah Vayu Sabarmati Private Limited)	111.20	52.81	0.00		3.53	18.64		18.64	3.53
20	Seci (Alfanar Energy Pvt. Ltd.)	133.44	65.06	0.00		2.52	16.39		16.39	2.52
21	Seci (Ostro Kannada Powerprivate Limited)	133.44	283.61	0.00		2.19	61.97		61.97	2.19
22	Sb Energy Six Private Limited (Ntpc)	133.44	323.07	0.00		2.67	86.26		86.26	2.67
23	Responce Renewable Energy Private Limited	4.45	7.85	0.00		7.02	5.51		5.51	7.02

Sl.No	Particulars	Share allocated (MW)	Units purchased (MU)	Fixed Cost (Rs. Crore /MW)	Fixed charge (Rs Crs)	Energy Rate (Rs/kWh)	Energy cost (Rs Crs)	Miscellaneous cost (Rs Crs)	Total Cost (Rs Crs)	Average Cost (Rs./kWh)
24	Alfa Infra Prop Pvt. Ltd.	8.90	14.47	0.00		7.97	11.53		11.53	7.97
25	Seci (Renew Sunwaves Private Limited)	133.44	328.96	0.00		2.62	86.19		86.19	2.62
26	Seci (Grt Jewellers)	44.48	146.23	0.00		2.60	38.02		38.02	2.60
27	Avantika Contractor (I) Pvt. Ltd.	2.22	3.04	0.00		7.70	2.34		2.34	7.70
28	Welspun I	4.45	7.07	0.00		7.98	5.64		5.64	7.98
29	Welspun II	6.67	9.44	0.00		8.64	8.16		8.16	8.64
30	Welspun III	6.67	9.63	0.00		8.56	8.24		8.24	8.56
31	Udipta Energy And Equipment Private Limited	2.22	3.20	0.00		7.97	2.55		2.55	7.97
32	Sunmark Energy Project Limited	4.45	6.84	0.00		7.02	4.80		4.80	7.02
33	Acme (Magadh)	4.45	6.88	0.00		8.74	6.01		6.01	8.74
34	Acme (Nalanda)	6.67	9.82	0.00		8.73	8.57		8.57	8.73
35	Azure Power Eris Pvt. Ltd.	4.45	5.88	0.00		8.38	4.93		4.93	8.38
36	Avada Power Eris Pvt Ltd	-	0.91			4.18	0.38		0.38	4.18
E	Others	0.00	178.42		0.00	11.57	206.37	0.00	206.37	11.57
1	Power Exchange Purchase	-	232.16			8.42	195.43		195.43	8.42
2	SHORT TERM (Including NEA, NTPC, NHPC Etc)	-	23.28			4.37	10.18		10.18	4.37
3	UI DSM	0.00	-77.02				0.76		0.76	
4	Capacity Charges	0.00	0.00					0.00	-1.51	

Sl.No	Particulars	Share allocated (MW)	Units purchased (MU)	Fixed Cost (Rs. Crore /MW)	Fixed charge (Rs Crs)	Energy Rate (Rs/kWh)	Energy cost (Rs Crs)	Miscellaneous cost (Rs Crs)	Total Cost (Rs Crs)	Average Cost (Rs./kWh)
	NTPC									
5	Prior Period Charges	0.00	0.00				246.35		246.35	
	Power Purchase Cost		21037.08		3797.67		5874.51	175.11	9853.45	4.67
F	Transmission and Other Charges	0.00	0.00	0.00	1515.56			0.00	1515.56	
1	PGCIL	0.00	0.00		894.52				894.52	
2	BSPTCL +SLDC	0.00	0.00		520.29				520.29	
3	BGCL	0.00	0.00		96.54				96.54	
5	ERLDC (POSOCO)	0.00	0.00		4.21				4.21	
	Total	4667.26	21037.08	1.14	5313.23		5880.67	175.11	11369.01	5.40

Table 4.22 Power Purchase Quantum and Cost of SBPDCL for FY 2023-24, as approved by the Commission

Sl.No	Particulars	Share allocated (MW)	Units purchased (MU)	Fixed Cost (Rs. Crore /MW)	Fixed charge (Rs Crs)	Energy Rate (Rs/kWh)	Energy cost (Rs Crs)	Miscellaneous cost (Rs Crs)	Total Cost (Rs Crs)	Average Cost (Rs./kWh)
A	Stations injecting at CTU	3459.99	20062.16	1.14	3928.84	2.74	5490.63	189.36	9608.83	4.79
1	NTPC(Barh-I)	439.72	1617.16	1.04	457.14	3.20	517.56	13.01	987.71	6.11
2	NTPC(Barh-II)	634.59	3564.91	1.28	812.30	3.37	1202.87	28.97	2044.14	5.73
3	NTPC (Darlipalli)	98.77	1269.72	2.11	208.04	1.17	148.42	25.27	381.73	3.01
4	NTPC (Farakka - I & II)	59.96	943.25	1.71	102.26	3.37	317.77	68.56	485.79	5.15

Sl.No	Particulars	Share allocated (MW)	Units purchased (MU)	Fixed Cost (Rs. Crore /MW)	Fixed charge (Rs Crs)	Energy Rate (Rs/kWh)	Energy cost (Rs Crs)	Miscellaneous cost (Rs Crs)	Total Cost (Rs Crs)	Average Cost (Rs./kWh)
5	NTPC (Farakka - III)	53.85	278.08	0.98	52.91	3.19	88.73	17.96	162.40	5.84
6	NTPC (Kahalgaun - I)	28.87	670.13	2.74	79.20	3.13	210.03	8.50	297.73	4.44
7	NTPC (Kahalgaun - II)	35.53	238.45	0.58	20.44	2.92	69.62	3.07	93.13	3.91
8	NTPC (North Karanpura)	329.79	1253.78	0.85	281.87	1.49	186.35	3.79	472.01	3.76
9	NTPC (Talchar)	224.30	1591.12	0.66	148.57	1.80	286.82	21.48	456.87	2.87
10	NTPC (Kbunl-II)	160.45	1081.77	1.71	274.77	2.86	309.85	1.31	585.93	5.42
11	Nabinagar Power Generation Company Limited	910.53	6060.02	1.52	1379.80	2.64	1600.07	-2.92	2976.95	4.91
12	Bhartiya Rail Bijlee Company Limited	55.52	316.63	1.38	76.58	2.98	94.26	0.31	172.94	5.46
13	NHPC (Rangit)	12.77	60.70	1.02	13.04	2.02	12.28	0.04	25.36	4.18
14	NHPC (Teesta)	59.41	225.88	0.37	21.92	1.16	26.18	0.01	48.11	2.13
15	PTC (Tala)	144.41	174.91	0.00		2.27	39.70		39.70	2.27
16	PTC (Chukha)	51.69	185.14	0.00		3.04	56.28		56.28	3.04
17	PTC (Mangdechhu)	157.94	529.69	0.00		4.19	221.94		221.94	4.19
18	PTC (Kuruchu)	1.89	0.82	0.00		2.93	0.24		0.24	2.93
B	Stations injecting at STU	430.05	1610.76	0.79	339.99	2.84	456.98	-1.54	795.43	4.94
1	BSHPC	30.31	17.88	0.00	0.00	2.49	4.45	0.00	4.45	2.49
2	NTPC (BARAUNI-I)	122.14	48.12	0.05	6.63	4.65	22.36	-1.90	27.09	5.63
3	NTPC (BARAUNI-II)	277.60	1544.76	1.20	333.36	2.78	430.17	0.36	763.89	4.95
C	IPPs	270.94	2045.62	1.74	471.56	1.14	233.86	30.95	736.37	3.60
1	GMR	144.35	1100.42	1.32	190.98	1.16	127.83	90.22	409.03	3.72
2	JITPL	126.59	945.20	2.22	280.58	1.12	106.03	-59.27	327.34	3.46
D	Renewables	1664.65	2317.30	0.00	0.00	3.04	704.36	0.00	704.36	3.04
1	Tirupati Sugar Limited	3.33	8.54	0.00		7.17	6.12		6.12	7.17

Sl.No	Particulars	Share allocated (MW)	Units purchased (MU)	Fixed Cost (Rs. Crore /MW)	Fixed charge (Rs Crs)	Energy Rate (Rs/kWh)	Energy cost (Rs Crs)	Miscellaneous cost (Rs Crs)	Total Cost (Rs Crs)	Average Cost (Rs./kWh)
2	Harinagar Sugar Mill	8.05	29.75	0.00		5.78	17.21		17.21	5.78
3	Hasanpur Sugar Mill	5.55	8.79	0.00		6.93	6.09		6.09	6.93
4	Bharat Sugar Mill	8.33	11.26	0.00		4.60	5.18		5.18	4.60
5	Hpcl Biofuels Limited, Sugauli	11.10	-	0.00					0.00	
6	Hpcl Biofuels Limited, Lauriya	11.10	-	0.00					0.00	
7	New Swadeshi Sugar Mill	5.55	5.83	0.00		4.61	2.69		2.69	4.61
8	Riga Sugar Company Limited	1.67	-	0.00					0.00	
9	Bihar Distillers And Bottlers Private Limited	5.22	10.00	0.00		6.98	6.98		6.98	6.98
10	Siddhashram Rice Mill Cluster Pvt. Ltd	1.11	-	0.00					0.00	
11	Glatt Solution Private Limited	1.67	2.88	0.00		7.05	2.03		2.03	7.05
12	Seci (Focal)	5.55	10.28	0.00		5.91	6.08		6.08	5.91
13	Seci (Vivid Solaire Energy Pvt. Ltd.)	27.87	80.80	0.00		2.52	20.36		20.36	2.52
14	Seci (Green Infra Wind Energy Pvt. Ltd.)	166.73	169.01	0.00		2.51	42.42		42.42	2.51
15	Seci (Morjar Windfarms Pvt. Ltd.)	83.28	66.91	0.00		2.19	14.62		14.62	2.19
16	Seci (Greenko Sironj Wind Power Pvt. Ltd.)	111.04	146.72	0.00		2.71	39.76		39.76	2.71
17	Ptc (Ostro Kutch Wind Private Limited)	138.80	86.89	0.00		3.53	30.67		30.67	3.53
18	Ptc (Green Infra Renewable Energy Limited)	138.74	75.98	0.00		3.53	26.82		26.82	3.53
19	Ptc (Mytrah Vayu Sabarmati Private Limited)	138.80	65.92	0.00		3.53	23.27		23.27	3.53
20	Seci (Alfanar Energy Pvt. Ltd.)	166.56	81.21	0.00		2.52	20.46		20.46	2.52
21	Seci (Ostro Kannada Powerprivate Limited)	166.56	354.01	0.00		2.18	77.35		77.35	2.18
22	Sb Energy Six Private Limited (Ntpc)	166.56	403.26	0.00		2.67	107.67		107.67	2.67
23	Responce Renewable Energy Private Limited	5.55	9.79	0.00		7.02	6.87		6.87	7.02
24	Alfa Infra Prop Pvt. Ltd.	11.10	18.06	0.00		7.97	14.39		14.39	7.97
25	Seci (Renew Sunwaves Private Limited)	166.56	410.61	0.00		2.62	107.58		107.58	2.62

Sl.No	Particulars	Share allocated (MW)	Units purchased (MU)	Fixed Cost (Rs. Crore /MW)	Fixed charge (Rs Crs)	Energy Rate (Rs/kWh)	Energy cost (Rs Crs)	Miscellaneous cost (Rs Crs)	Total Cost (Rs Crs)	Average Cost (Rs./kWh)
26	Seci (Grt Jewellers)	55.52	182.53	0.00		2.60	47.46		47.46	2.60
27	Avantika Contractor (I) Pvt. Ltd.	2.78	3.79	0.00		7.70	2.92		2.92	7.70
28	Welspun I	5.55	8.83	0.00		7.97	7.04		7.04	7.97
29	Welspun II	8.33	11.79	0.00		8.63	10.18		10.18	8.63
30	Welspun III	8.33	12.01	0.00		8.56	10.28		10.28	8.56
31	Udipta Energy And Equipment Private Limited	2.78	3.99	0.00		7.97	3.18		3.18	7.97
32	Sunmark Energy Project Limited	5.55	8.54	0.00		7.03	6.00		6.00	7.03
33	Acme (Magadh)	5.55	8.59	0.00		8.73	7.50		7.50	8.73
34	Acme (Nalanda)	8.33	12.25	0.00		8.73	10.70		10.70	8.73
35	Azure Power Eris Pvt. Ltd.	5.55	7.34	0.00		8.39	6.16		6.16	8.39
36	Avada Power Eris Pvt Ltd	-	1.14			4.12	0.47		0.47	4.12
E	Others	0.00	222.72		0.00	11.59	258.15	0.00	258.15	11.59
1	IEX Purchase	-	289.78			8.42	244.04		244.04	8.42
2	SHORT TERM (including NEA, NTPC, NHPC etc)	0.00	29.08			4.53	13.16	0.00	13.16	4.53
3	ERPC UI DSM	0.00	-96.14				0.95		0.95	
4	Capacity charges NTPC	0.00					-1.77		-1.77	
5	Prior Period Charges	-					262.81	0.00	262.81	
	Power Purchase Cost		26258.56		4740.39	2.78	7295.51	218.77	12254.67	4.67
F	Transmission and Other Charges	0.00	0.00		1927.40		0.00	0.00	1927.40	
1	PGCIL	-	-		1153.87				1153.87	
2	BSPTCL	-	-		642.95				642.95	
3	BGCL	-	-		115.50				115.50	

Sl.No	Particulars	Share allocated (MW)	Units purchased (MU)	Fixed Cost (Rs. Crore /MW)	Fixed charge (Rs Crs)	Energy Rate (Rs/kWh)	Energy cost (Rs Crs)	Miscellaneous cost (Rs Crs)	Total Cost (Rs Crs)	Average Cost (Rs./kWh)
4	SLDC	-	-		6.47				6.47	
5	ERLDC (POSOCO)				6.21		0.00	0.00	6.21	
6	Prior Period Adjustment				2.40		0.00	0.00	2.40	
	Total	5825.63	26258.56	1.14	6667.79	2.78	7295.51	218.77	14182.07	5.40

Net Power Purchase Cost

As per Regulation 19 (b) of BERC (Multi Year Distribution Tariff Regulations 2021), the power purchase cost for the power purchase quantum calculated as per Regulation 19 (a) of the said regulation shall be net of rebate at such rate as specified in CERC Tariff Regulations. In view of this, Commission has considered the net power purchase cost after deducting 1% rebate on power purchase cost including transmission charges. Accordingly, 1% Rebate is deducted on the total power purchase cost excluding prior period expenses and UI cost as detailed in the Table below:

Table 4.23: Net Power Purchase Cost approved for FY 2023-24

Sl. No	Particulars	Unit	NBPDCCL	SBPDCL
1	Energy Purchase	MU	21037.08	26258.56
2	Power Purchase Cost	Rs. Cr	9607.10	11991.86
3	Prior period Power Purchase Cost	Rs. Cr	246.35	262.81
4	Transmission Charges	Rs. Cr	1515.56	1925.00
	a) PGCIL	Rs. Cr	894.52	1153.87
	b) BSPTCL Charges (Rs. Cr) (Including SLDC)	Rs. Cr	520.29	649.42
	c) BGCL	Rs. Cr	96.54	115.50
	d) ERLDC (POSOCO)	Rs. Cr	4.21	6.21
	e) Prior Period Adjustment	Rs. Cr	0.00	2.40
5	Total Power Purchase Cost (2+3+4)	Rs. Cr	11369.01	14182.07
6	Less: 1% Rebate	Rs. Cr	111.23	139.14
7	Net Power Purchase Cost (4-5)	Rs. Cr	11257.78	14073.58
8	Less: Surplus Energy Sold	Rs. Cr	2,407.70	3,005.66

Accordingly, Commission approves power purchase quantum of 21037.08 MUs and net power purchase cost of Rs. 11257.78 Crore, for NBPDCCL and power purchase quantum of 26258.56 MUs and power purchase cost of Rs. 14073.58 Crore, for SBPDCL in True-up of FY 2023-24.

The total power purchase cost for the Discoms during the past 6 years i.e. FY 2018-19 to FY 2023-24 is as given Table below

Table 4.24: Power Purchase Cost for past 6 Year (FY 2018-19 to FY 2023-24)

Year	Power Purchase		Transmission Charges (Rs. Cr)			Transmission Charges	Total Power	Average
	(MU)	(Rs. Cr)	BSPTCL	BGCL	PGCIL		Purchase Cost (Rs. Cr)	Cost (Rs./kwh)
2018-19	26,311.27	9,908.22	1,194.37	276.04	1,103.77	2574.18	12482.40	4.74
2019-20	31,907.50	13,278.70	989.14	207.84	1,162.81	2359.79	15638.49	4.90
2020-21	34,207.58	14,754.90	855.25	460.20	1,319.13	2634.58	17389.48	5.08
2021-22	40,798.54	17,787.36	1,116.60	452.62	1,936.29	3,505.51	21,292.87	5.22
2022-23	47,731.39	22,578.08	1,221.81	174.62	2,298.16	3,694.59	26,272.67	5.50
2023-24	47,295.72	22108.12	1,169.71	212.04	2,048.39	3,442.96*	25,551.08	5.40

*Including Prior period Transmission Charges as Rs. 2.40 Cr and POSOCO charges as Rs. 10.42 Cr.

4.7. Power Purchase corresponding to the Distribution losses as approved by the Commission

Petitioners' submission

The Petitioners have submitted that in view of the efforts made to reduce the losses with increased supply hours and growth in domestic consumers, the Commission is requested to adopt the actual distribution loss of 13.38% for NBPDCCL and 18% % of SBPDCL for FY 2023-24 for calculation of disallowance/ allowance of actual power purchase cost due to actual distribution loss lower than that of approved by the Commission.

The Petitioner in compliance to the BERC MYT Distribution Regulations, 2021, has shown the surplus energy on account of power purchase corresponding to the actual Distribution losses less than that approved by the Commission. The Petitioner has considered the average power purchase rate (APPC) (excluding transmission cost) of FY 2023-24 to arrive at the additional power purchase cost on account of the Distribution losses less than that approved by the Commission. The Table below provides Summary of the Power purchase corresponding to the Distribution losses less than that approved by the Commission.

Table 4.24: Power purchase corresponding to the Distribution losses more than that claimed for NBPDCCL &

SBPDCL (Rs. Crore)

Sr No	Particulars (NBPDC)	Unit	NBPDC		SBPDCL	
			With actual distribution loss (FY 2023-24)	@ 16.60% Distribution loss	With actual distribution loss (FY 2023-24)	@ 19.91% Distribution loss
A	Energy Requirement					
1	Energy sales (retail sales only incl. Nepal)	MU	14,911.68	14,911.68	17,577.79	17,577.79
3	Less: Inter-State Sales (Nepal)	MU	256.55	256.55	-	-
4	Energy sales (exc. interstate Sales)	MU	14,655.13	14,655.13	17,577.79	17,577.79
5	Distribution Loss	MU	13.38%	16.60%	18%	19.91%
6	Add: Distribution Loss	MU	2,263.75	2916.97	3838.54	4,369.76
7	Energy required at Distribution periphery	MU	16,918.88	17572.10	21436.33	21,947.55
9	Add: interstate sales		256.55	256.55		-
10	Total energy required at Distribution periphery	MU	17,175.43	17828.65	21436.33	21,947.55
	Additional Energy Required	MU				(511.22)
	APPC	MU				5.41
	Additional Power Purchase Cost @APPC	MU				(276.71)

The additional power purchase requirement for meeting the actual Energy requirement at actual Distribution losses lower than the approved Distribution losses is Rs (276.71) Crore. As per the BERC MYT Distribution Regulations, 2021 in case of controllable factors, losses are to be absorbed by the licensee in the ratio of 2/3 while any gains will be absorbed by the licensee in the ration of 1/3.

The petitioner submitted that the power purchase cost depends on the distribution loss achieved which is a controllable parameter for the petitioner. Accordingly, the Commission is requested to approve sharing of gains and losses for power purchase cost on account of distribution loss achieved for FY 2023-24 as given in table below:

(Gains) / Loss on account of Power Purchase cost due to lower distribution loss against the approved distribution loss for FY 2023-24 (Rs. Crore)

Particulars	DISCOM	(Gain)/loss	(Gain)/loss due to controllable factor to be absorb by licensee	Pass through on account of uncontrollable factor
Power cost due lower distribution loss than approved by the Commission	NBPDCCL	(353.61)	(117.87)	(235.87)
	SBPDCL	(276.71)	(92.24)	(184.87)

Commission's analysis:

The Commission has been approving the power purchase quantum and its cost based on the energy requirement computed as per the distribution loss target in Tariff order for the corresponding year for which true up is under consideration. The Commission in FY 2023-24 Tariff order dated 23rd March, 2023 approved distribution loss target of 15% for NBPDCCL for SBPDCL respectively. The Commission has approved the Aggregate Revenue Requirement (ARR) based on the parameters approved in FY 2023-24 tariff order and accordingly the petitioner has collected the revenue from the

consumers. Therefore, the truing up of revenue and expenses shall be carried out based on FY 2023-24 approved parameters only. The Discoms are not able to achieve the approved distribution loss target and therefore they are purchasing more quantum of power than required as per approval of the Commission.

Also as per Regulation 9.2 (b) of BERC (Multi Year Distribution Tariff) Regulations 2021, Variations in distribution losses which shall be measured as the difference between the units input into the distribution system and the units billed for the same year are considered as Controllable factor.

Accordingly, the Commission has computed the variation in power purchase incurred by the petitioners due to higher actual distribution losses as compared to power purchased that would have been incurred at the target distribution loss for FY 2023-24.

The Commission has computed additional energy procured by the Petitioners due to excess distribution loss as shown in the Table 4.25 below. The Commission is of the opinion that this additional energy requirement due to higher distribution loss than the stipulated target not only leads to incremental power purchase from various sources. Consequently, it also leads to higher Transmission charges and line losses incidental to additional energy requirement.

Accordingly, the Commission has computed additional power purchase cost due to excess distribution loss as shown in the Table below:

The losses incurred due to controllable factor (i.e., distribution loss in this case) are to be shared in terms of Regulation 11.1 (b) (i) of BERC (Multi Year Distribution Tariff) Regulation, 2021 which is reproduced below:

Aggregate Loss:

- (i) One-third of the amount of such loss shall normally be a pass through as an adjustment in the tariff of the Distribution Licensee as specified in these Regulations and as may be determined in the Order of the Commission passed under these Regulations, provided the Commission is satisfied that such loss is not on account of deliberate action of the Distribution Licensee;*
- (ii) The balance two-third of the amount of such loss shall be on account of Distribution Licensee.*

Explanation: - If the State Government is providing resource gap grant, Aggregate Loss shall be reduced by that amount for the purpose of computation of Aggregate Loss to be qualified for a pass through."

The Commission has computed the sharing of gain / (loss) on account of additional power purchase due to excess distribution loss as shown below:

Table 4.25: Additional Power Purchase Cost for FY 2023-24 as computed by the Commission

Particular	Unit	NBPDCCL	SBPDCL
Total Energy Requirement at Gen Bus (with 15% dist loss target for NBPDCCL & SBPDCL)	MU	21,040.17	25,103.12
Total Energy Purchased as per actual distribution loss (14.99% for NBPDCCL & 19.27% SBPDCL)	MU	21,037.08	26,258.56
Additional Energy Purchased	MU	(3.09)	1,155.44
Additional power purchase cost @APPC (in Cr) including Tr.charges (Rs. 5.40/kWh)	Cr	(1.67)	623.94
Loss : 1/3rd to be passed on to consumer (in Cr)	Cr		207.98
Loss 2/3rd to be absorbed by licensee (in Cr)	Cr		415.96
(Gain) : 2/3rd to be passed on to consumer (in Cr)	Cr	(1.11)	
(Gain) : 1/3rd to be absorbed by licensee	Cr	(0.56)	

The Commission has computed the sharing of gain / (loss) on account of additional power purchase due to excess distribution loss as shown below:

(Gains) / Loss on account of Power Purchase cost due to Higher distribution loss

to be procured from Renewable Sources by Obligated Entity as percentage of total consumption is provided in table below:

Table 4.26 Renewable Purchase Obligation (%)

FY	Wind RPO	HPO	Other RPO	Total RPO
2022-23	0.81%	0.35%	23.44%	24.60%
2023-24	1.60%	0.66%	24.81%	27.08%
2024-25	2.46%	1.08%	26.37%	29.91%
2025-26	3.36%	1.48%	28.17%	33.01%
2026-27	4.29%	1.80%	29.86%	35.95%
2027-28	5.23%	2.15%	31.43%	38.81%
2028-29	6.16%	2.51%	32.69%	41.36%
2029-30	6.94%	2.82%	33.57%	43.33%

In line with above, the petitioners have submitted the details of the Renewable Energy based power procured during FY 2023-24 as given in the table below.

Table 4.27: RPO met for FY 2023-24 as submitted by NBPDCCL and SBPDCL

Sl no	Particulars	Units	NBPDCCL	SBPDCL
1	Energy Sale(excluding inter-state sales)	MU	14,647.46	17,577.80
2	RPO Targets (%)	%	27.07%	27.07%
3	Wind RPO (%)	%	1.60%	1.60%
4	HPO (%)	%	0.66%	0.66%
5	Other RPO (%)	%	24.81%	24.81%
6	RPO Targets (MU)	MU	3,965.07	4,758.31
7	Wind RPO	MU	234.36	281.24
8	HPO RPO	MU	96.67	116.01
9	Other RPO	MU	3,634.03	4,361.05

10	Renewable Power Purchased			
11	Wind RE purchased from the plants commissioned till 31-03-2022	MU	770.86	948.73
12	a)93% of 11		716.90	882.32
13	b)7% of 11		53.96	66.41
14	Wind RE purchased from the plants commissioned after 31-03-2022	MU	132.39	178.70
15	Other RE Power (16+17+18+19+20+21+22)		2,033.59	2,546.27
16	Solar		893.85	1,115.37
17	Sugar Mill & Biomass		59.43	74.78
18	BSHPC		17.42	20.66
19	Hydro		943.06	1,006.72
20	Green Power from Exchange		11.55	13.62
21	Captive Consumption Solar	MU	24.00	204.56
22	Net Meter /Solar Generation from Consumers			176.97
	GCRT/solar Data from BREDA			27.59
23	Captive Consumption Non Solar BERDA	MU	88.59	110.57
23	RPO Compliance			
24	HPO RPO Compliance(from 12 above)	MU	96.67	116.01
25	Left over Wind RE purchased from the 93% of plants commissioned till 31-03-2022 after adjusting HPO targets(12-24)	MU	620.23	766.31
27	Wind RPO Compliance (25+14)	MU	752.61	945.01
29	Other RPO Compliance: (13+15)	MU	2,091.85	2,612.69
30	RPO Shortfall (MU)	MU		
31	Wind RPO shortfall/ (surplus) (7-27)	MU	(518.25)	(663.76)
32	HPO shortfall/ (surplus) (8-24)	MU	-	
33	Other RPO shortfall/ (surplus) (9-29)	MU	1,542.19	1,748.37
34	REC Purchase*	MU	1,446.11	1,658.96
36	RPO Shortfall considering REC (MU)	MU		

37	Wind RPO shortfall/ (surplus) (31)	MU	(518.25)	(663.76)
38	HPO shortfall/ (surplus) (32)	MU	-	
39	Other RPO shortfall/ (surplus) (33-34)	MU	87.08	89.41
40	RPO Target Achieved considering REC (%) **	MU		
41	Wind RPO	%	100%	100%
42	HPO	%	100%	100%
43	Other RPO	%	97%	98%

Commission's analysis:

For verification of RPO claim of the petitioner, the petitioners were directed to furnish information on the generating plant-wise total MUs purchased to fulfill RPO Obligation for FY 2023-24 and also to attach copies of proof of purchase of REC Certificates for the FY 2023-24. The petitioners were also directed to submit details of Commission's approval for procurement of RE towards fulfillment of RPO for FY 2023-24.

In response, the petitioners have submitted the information as given below :

Wind Power Purchase FY 2023-24	Capacity	Total Power Purchase	Power Purchase from projects installed before 31.03.22	Power Purchase from projects installed after 31.03.22	Power Purchase from projects installed before 31.03.22 (NBPDC)	Power Purchase projects installed after 31.03.22 (NBPDC)	Power Purchase from projects installed before 31.03.22 (SBPDCL)	Power Purchase projects installed after 31.03.22 (SBPDCL)
	MW	MU	MU	MU	MU	MU	MU	MU
SECI (VIVID SOLAIRE ENERGY PVT. LTD.)	50.20	145.52	145.52		64.73	-	80.80	-
SECI (GREEN INFRA WIND ENERGY PVT. LTD.)	100.00	304.41	304.41		135.40	-	169.01	-
SECI (Morjar Windfarms Pvt. Ltd.)	50.00	120.51		120.51	-	53.60	-	66.91
SECI (GREENKO SIRONJ WIND POWER PVT. LTD.)	100.00	264.26	264.26		117.54	-	146.72	-

Wind Power Purchase FY 2023-24	Capacity	Total Power Purchase	Power Purchase from projects installed before 31.03.22	Power Purchase from projects installed after 31.03.22	Power Purchase from projects installed before 31.03.22 (NBPDC)	Power Purchase from projects installed after 31.03.22 (NBPDC)	Power Purchase from projects installed before 31.03.22 (SBPDCL)	Power Purchase from projects installed after 31.03.22 (SBPDCL)
PTC (OSTRO KUTCH WIND PRIVATE LIMITED)	50.00	156.50	156.50		69.61	-	86.89	-
PTC (GREEN INFRA RENEWABLE ENERGY LIMITED)	50.00	136.85	136.85		60.87	-	75.98	-
PTC (MYTRAH VAYU SABARMATI PRIVATE LIMITED)	50.00	118.73	118.73		52.81	-	65.92	-
SECI (ALFANAR ENERGY PVT. LTD.)	50.00	146.27	146.27		65.06	-	81.21	-
SECI (OSTRO KANNADA POWERPRIVATE LIMITED)	189.00	637.62	460.51	177.12	204.83	78.78	255.67	98.34
		2,030.68	1,733.05	297.63	770.86	132.39	962.19	165.24

Solar Power Purchase FY 2023-24 (MU)	NBPDC	SBPDCL
GLATT SOLUTION PRIVATE LIMITED	2.30	2.88
SECI (FOCAL)	8.24	10.28
SB ENERGY SIX PRIVATE LIMITED (NTPC)	323.07	403.26
RESPONCE RENEWABLE ENERGY PRIVATE LIMITED	7.85	9.79
ALFA INFRA PROP PVT. LTD.	14.47	18.06
SECI (RENEW SUNWAVES PRIVATE LIMITED)	328.96	410.61
SECI (GRT Jewellers)	146.23	182.53
AVANTIKA CONTRACTOR (I) PVT. LTD.	3.04	3.79
Welspun I	7.07	8.83
Welspun II	9.44	11.79
Welspun III	9.63	12.01
UDIPTA ENERGY AND EQUIPMENT PRIVATE LIMITED	3.20	3.99
SUNMARK ENERGY PROJECT LIMITED	6.84	8.54

ACME (MAGADH)	6.88	8.59
ACME (NALANDA)	9.82	12.25
AZURE POWER ERIS PVT. LTD.	5.88	7.34
Avada power eris pvt ltd	0.91	1.14

The Commission, vide BERC (Renewable Purchase Obligation, its compliance and REC frame work implementation) Regulations, 2010 and its amendment has notified the Renewable Purchase Obligation (RPO) percentages up to FY 2021-22.

The Ministry of Power, Government of India vide Order No F.No.09/13/2021-RCM dated 22.07.2022 has specified the RPO trajectory for period from FY 2022-23 to FY 2029-30 as given below:

Table 4.28: RPO Target

FY	Wind RPO	HPO	Other RPO	Total RPO
2022-23	0.81%	0.35%	23.44%	24.60%
2023-24	1.60%	0.66%	24.81%	27.08%
2024-25	2.46%	1.08%	26.37%	29.91%
2025-26	3.36%	1.48%	28.17%	33.01%
2026-27	4.29%	1.80%	29.86%	35.95%
2027-28	5.23%	2.15%	31.43%	38.81%
2028-29	6.16%	2.51%	32.69%	41.36%
2029-30	6.94%	2.82%	33.57%	43.33%

FY	Wind RPO	HPO	Other RPO	Total RPO
2022-23	0.81%	0.35%	23.44%	24.60%
2023-24	1.60%	0.66%	24.81%	27.08%
2024-25	2.46%	1.08%	26.37%	29.91%
2025-26	3.36%	1.48%	28.17%	33.01%
2026-27	4.29%	1.80%	29.86%	35.95%
2027-28	5.23%	2.15%	31.43%	38.81%
2028-29	6.16%	2.51%	32.69%	41.36%
2029-30	6.94%	2.82%	33.57%	43.33%

Accordingly, Commission has notified the BERC (Renewable Purchase Obligation, its compliance and REC frame work implementation) (4th amendment) Regulations, 2022

duly aligning the targets with the MoP RPO trajectory specified vide Order No F.No.09/13/2021-RCM dated 22.07.2022.

As per the BERC 4th Amendment of RPO Regulations, the targets were determined for wind, HPO and other RPO. The Regulation 4.1 (Amended) specify:

“a) Wind RPO Shall be met only by energy produced from Wind Power Projects (WPPs) commissioned after 31st March 2022 and the wind energy consumed over and above 7% from WPPs commissioned till 31 st March 2022;

(b) HPO shall be met only by energy produced from LHPs (including PSPs and small hydro projects (SHPs)), commissioned after 8th March 2019;

(c) Other RPO may be met by energy produced from any RE based / green energy-based power project not mentioned in (a) and (b) above.”

The Commission accordingly has considered the RPO targets for FY 2023-24 and computed the RPO Compliance for FY 2023-24 as shown in the Table below:

RPO considered for NBPDCCL AND SBPDCL for FY 2023-24

SL.NO	Particulars	Units	SBPDCL	NBPDCCL
1	Energy Sale (excluding inter-state sales)	MU	17577.80	14647.46
2	RPO Targets (%)	%	27.07%	27.07%
3	Wind RPO (%)	%	1.60%	1.60%
4	HPO (%)	%	0.66%	0.66%
5	Other RPO (%)	%	24.81%	24.81%
6	RPO Targets (MU)	MU	4758.31	3965.07
7	Wind RPO	MU	281.24	234.36
8	HPO RPO	MU	116.01	96.67
9	Other RPO	MU	4361.05	3634.03
10	Renewable Power Purchased			
11	Wind RE purchased from the plants commissioned till 31-03-2022	MU	962.19	770.86
12	a)93% of 11		894.84	716.90
13	b)7% of 11		67.35	53.96
14	Wind RE purchased from the plants commissioned after 31-03-2022	MU	165.24	132.39
15	Other RE Power (16+17+18+19+20+21+24)		2716.40	2037.68
16	a) Solar		1115.69	893.85
17	b) Sugar Mill & Biomass		74.18	59.43

SL.NO	Particulars	Units	SBPDCL	NBPDCCL
18	c)BSHPC		20.66	17.15
19	d) Hydro		1177.13	943.06
20	e) Green Power from Exchange		13.62	11.60
21	f) Captive Consumption Solar	MU	204.56	24.00
22	l) Net Meter /Solar Generation from Consumers		176.97	
23	ll) GCRT/solar Data from BREDA		27.59	
24	i) Captive Consumption Non-Solar BREDA	MU	110.57	88.59
25	RPO Compliance			
26	Left over Wind RE purchased from the 93% of plants commissioned till 31-03-2022 after adjusting HPO targets (12-8)	MU	778.82	620.23
27	Wind Power Purchased (26+14)	MU	944.06	752.62
28	Other RPO Compliance: (15+13)	MU	2783.76	2091.64
29	RPO Shortfall (MU)	MU		
30	Wind RPO shortfall/ (surplus) (7-27)	MU	(662.82)	(518.26)
31	HPO shortfall/ (surplus) (8-24) (Compensated from surplus wind RPO)	MU	0	0
32	Other RPO shortfall/ (surplus) (9-28)	MU	1577.29	1542.39
33	REC Purchase*	MU	1658.952	1446.11
34	RPO Shortfall considering REC (MU)	MU		
35	Wind RPO shortfall/ (surplus) (30)	MU	(662.82)	(518.26)
36	HPO shortfall/ (surplus)	MU	0	0
37	Other RPO shortfall/ (surplus) (32-33)	MU	(81.66)	96.28
38	RPO Target Achieved considering REC (%)	MU		
39	Wind RPO	%	100%	100%
40	HPO	%	100%	100%
41	Other RPO	%	100%	97%

It is observed from the Table above that the Discoms have fulfilled the wind RPO and HPO RPO for FY 2023-24, However the RPO target in respect others RPO has not been fully complied with for NBPDCCL. The Commission, while agreeing to the prayer of the petitioner, allows the aforementioned shortfall of 3% of NBPDCCL to be carried-forward for next financial year for compliance. .

4.9. Capital Investment Plan, Capitalization and Funding Capital Expenditure

Petitioners' submission:

NBPDCCL and SBPDCL have submitted the details of opening CWIP, investment and capitalisation during the year and funding of capitalisation showing details of Grants, Equity and Loan for FY 2023-24. The Discoms have requested the Commission to approve the CWIP, capitalisation and funding of capitalisation for FY 2023-24 as given in the Table below:

Table 4.29: CWIP, Capex, Capitalisation and Funding of capitalisation claimed for FY 2023-24 (Rs. Crore)

S. No.	Particulars	NBPDCCL Actual for FY 2023-24	SBPDCL Actual for FY 2023-24
1	Opening CWIP	1097.47	1717.56
2	New Investment	1850.55	1421.81
3	Less: Capitalization (4+5)	887.96	961.96
4	CWIP		
5	New Investment		
6	Closing CWIP (1+2-3)	2060.06	2156.19
7	Funding		
8	CWIP Capitalization (9+10+11)	710.31	769.56
9	Grant	60.36	46.52
10	Equity	390.83	674.8
11	Loan	259.12	48.24
12	New Investment (13+14+15)	177.58	192.39
13	Grant	15.09	11.63
14	Equity	97.71	168.7
15	Loan	64.78	12.06
16	Total Capitalization (8+12)	887.89	961.95
17	Total Grant (9+13)	75.45	58.16
18	Total Equity (10+14)	488.54	843.50
19	Total Loan (11+15)	323.9	60.30

The petitioners have claimed scheme-wise capex and capitalization for FY 2023-24 in truing up as given in the table below:

Table 4.30 CWIP, Capex, Capitalization and Funding for NBPDCCL (INR Crore)

Particulars	Opening CWIP	CAPEX	Capitalization	Closing Balance
BRGF	10.09	5.49	12.36	3.22

Particulars	Opening CWIP	CAPEX	Capitalization	Closing Balance
R-APDRP	23.29	0.00	-	23.29
NABARD Phase VIII	-	-	-	-
NABARD Phase XI	-	4.88	4.88	-
MP/CM LAD	-	0.36	0.36	-
Deposit Scheme	4.98	(3.14)	1.84	-
ADB	-	-	-	-
ACA State Plan	-	2.85	2.85	-
Burnt DTR State Plan	-	-	-	-
State Plan -Others	522.91	278.43	353.30	448.04
CM Seven	-	-	-	-
Ongoing Schemes	561.27	288.87	375.59	474.55
State Plan -RDSS	4.82	1,101.65	100.23	1,006.24
Infrastructure works- RDSS		-	-	-
IT/OT- RDSS		-	-	-
PMA – RDSS		-	-	-
Reconductoring	256.29	(62.87)	-	193.42
IPDS	19.52	7.96	7.96	19.52
Smart Prepaid Meter (Phase 2) 36 Lakhs- 30% Capex	-	320.85	320.85	-
Smart Prepaid Meter (Phase 3) 1.12 crores- 30% Capex	-	-	-	-
Any other	-	-	-	-
New Schemes	280.63	1,367.59	429.04	1,219.18
RGVY	-	6.15	6.15	-
DDUGJY	20.71	(0.09)	0.13	20.49
MKVYS	74.37	107.69	57.99	124.07
Old Schemes	95.08	113.75	64.27	144.57
Own Sources	160.49	80.33	18.99	221.83
Grand Total (A+B+C+D)	1,097.47	1,850.55	887.89	2,060.13

Table 4.31 CWIP, Capex, Capitalization and Funding for SBPDCL (INR Crore)

Particulars	Opening CWIP	CAPEX	Capitalization	Closing Balance
BRGF	700.38	41.36	429.51	312.23
R-APDRP	0.02	11.38	11.38	0.02
NABARD Phase VIII	-	0.56	0.56	-

Particulars	Opening CWIP	CAPEX	Capitalization	Closing Balance
NABARD Phase XI	-	-	-	-
MP/CM LAD	0.77	0.00	0.77	0.00
Deposit Scheme	5.13	16.37	12.82	8.67
ADB	79.62	0.82	-	80.44
ACA State Plan	39.03	0.83	0.83	39.03
Burnt DTR State Plan	0.18	-	0.18	0.00
State Plan -Others	621.66	108.84	216.13	514.37
Any other				
Ongoing Schemes	1,446.79	180.16	672.19	954.76
RDSS	1.54	982.80	57.89	926.44
Infrastructure works - RDSS	-			-
IT/OT – RDSS	-			-
Reconductoring	44.23	54.80	74.24	24.79
IPDS	54.84	19.82	0.36	74.29
Smart Prepaid Meter (Phase 2) 36 Lakhs- 30% Capex	-	38.44	38.44	-
Smart Prepaid Meter (Phase 3) 1.12 crores- 30% Capex	-	-	-	-
Any other	-			-
New Schemes	100.60	1,095.85	170.93	1,025.52
RGGVY	0.08	1.60	1.60	0.08
DDUGJY	49.20	6.22	34.06	21.36
APL Connection	105.00	10.20	21.90	93.30
Old Scheme	154.20	16.42	55.96	114.66
Own Sources	15.88	127.78	61.27	82.39
Grand Total (A+B+C+D)	1,717.56	1,421.81	961.96	2,177.41

Commission's analysis:

The Discoms have considered opening CWIP, capital investment and capitalisation for FY 2023-24 as per closing balance of CWIP approved in true up for FY 2022-23 in Tariff Order dated 01.03.2024.

The Discoms have provided the details of scheme-wise capitalisation and source of funding of capitalisation for FY 2023-24 in format 11 and format 14 of the petition

respectively.

The Commission, based on the audited figures of opening CWIP, closing CWIP and capitalisation, has derived the value of new investment made during FY 2023-24 as detailed below:

Table 4.32: Calculation of new capital investment based on accounts for FY 2023-24 (Rs. Crore)

Sl. No.	Particulars	NBPDCCL	SBPDCL
1	Closing CWIP	2060.13	2156.19
2	Add: Capitalization	887.76	961.95
3	Less: Opening CWIP	1105.00	1717.56
4	New capital investment (1+2-3)	1842.89	1400.58

Commission has observed that NBPDCCL and SBPDCL has claimed the new capital investment as Rs. 1850.55 Cr and Rs. 1421.81 Cr. However, the Commission has computed the capex addition as per the audited account of FY 2023-24, of NBPDCCL and SBPDCL as Rs. 1842.89 Cr and Rs. 1400.58 Cr respectively.

The Commission had approved closing CWIP at Rs. 2164.31 Crore for NBPDCCL and Rs. 3176.87 crore for SBPDCL in truing up for FY 2022-23 in Tariff order dated 01.03.2024 and the same shall be considered as opening CWIP for FY 2023-24. However, the Discoms (NBPDCCL and SBPDCL) have adopted opening CWIP as per the audited annual accounts for FY 2023-24 in spite of the decision/ruling of the Commission in Tariff order dated 25.03.2022 which is reproduced hereunder:

“.....the Discoms vide letter dated 11.12.2021 have submitted that that Ind AS–16 Property, Plant and Equipment defines carrying cost as the amount at which an asset is recognized after deducting any accumulated depreciation and accumulated impairment losses. As such, the value of Property, Plant and Equipment have been taken at their carrying value and not at the historical cost and hence, there is a difference in the opening balance adopted in the tariff petition for FY 2020-21 with the closing balance of 2019-20 approved in Tariff order dated 26.03.2021. The petitioner

hereby contends that by adopting closing balances approved in truing up for FY 2019-20 in TO dated 26.03.2021, there will be complete deviation from the books of accounts. The Petitioners in response to query vide letter no. Case No.16/2021-25 dated 07.01.2022 has replied that they intend to adopt the opening balances as per the audited accounts of FY 2020-21.

Regulation 14 (b) of BERC (Multi Year Distribution Tariff) Regulations 2021 specify true up of expenses shall be on the basis of expense estimates made in the beginning of the year under consideration, actual expenses booked in the audited books of accounts of the Distribution Licensee for the year, and after prudence check of data by the Commission.

Regulation 2 (3)(1)(4) specify "Audited accounts or Audited Accounting Statements" for the purpose of licensed or regulated business shall mean (Audited) Regulatory Accounts prepared in accordance with BERC (Power Regulatory Accounting) Regulations, 2018.

Regulation 3.1(6) specify "Books of Accounts" for the purpose of licensed or regulated business shall mean Regulatory Books of Accounts drawn up in accordance with BERC (Power Regulatory Accounting) Regulations, 2018.

Regulation 8.1 of the BERC (Power Regulatory Accounting) Regulations 2018 specify every licensee shall prepare the Regulatory Accounts under the Historical Cost Convention in accordance with the provisions of the Act and the Regulations notified by the Commission from time to time, Generally Accepted Accounting Principles in India, applicable Accounting Standards as notified by the Central Government within the provisions of section 133 and other relevant provisions of the Companies Act, 2013 and its amendments thereof as well as rules made or refereed under the Act in this regard, wherever applicable. Regulation 9 specify the Accounting Policies for regulatory accounts which specify fixed assets, capital works in progress, etc. shall be considered at historical cost/at cost.

The Commission in Tariff order dated 25.02.2019 has opined that the adjustments made by Discoms due to adoption of Ind AS101 in the annual accounts as per change in accounting policy is the presentation requirement to present net value of assets as on 1st April 2016 and there is no impact on the overall historical value of the GFA.

Conjoint reading of regulation 14 (b), 3.1(4) and 3.1(6) of BERC (Multi Year Distribution Tariff) Regulations 2021, Regulation 8.1 of the BERC (Power Regulatory Accounting) Regulations 2018 and ruling in Tariff order dated 25.02.2019 emphasis that historical cost shall be considered in respect of opening balances to be carried forward year on year”.

Therefore, the Commission, in view of the above, has considered the same opening CWIP as Rs. 2164.31 crore for NBPDC and Rs. 3176.87 crore for SBPDCL for FY 2023-24 based on the closing CWIP approved in truing up for FY 2022-23.

The Commission has observed that, NBPDC has claimed NIL capitalisation and SBPDCL has claimed of Rs. 74.24 crore in respect of Reconductoring Scheme/project in truing up for FY 2023-24.

The Commission has considered scheme-wise capital expenditure and capitalisation for FY 2023-24 in truing up as given in the Table below for NBPDC.

Table 4.33: Capex and capitalisation approved for NBPDC for FY 2023-24 in true up (Rs. Crore)

Name of scheme / Project	Opening CWIP for FY 2023-24 (CB as approved in Tariff order dated 01.03.2024) for FY 2022-23 true- up	Capex during FY 2023-24	Capitalisation during FY 2023-24	Closing CWIP for FY 2023-24
BRGF	10.09	5.50	12.36	3.22
R-APDRP	4.20	0.00	0.00	4.20
NABARD Phase XI	-	4.88	4.88	0.00
MP/CM LAD	-	0.36	0.36	0.00
Deposit Scheme	5.00	-3.14	1.84	0.02
State Plan -Others	522.90	429.82	356.15	596.57
APL Connection	88.22	-37.72	0.00	50.50
Reconductoring	-178.10	-63.35	0.00	-241.45
IPDS	446.91	7.96	7.96	446.91
RGGVY	161.11	6.15	6.15	161.11
DDUGJY	958.35	-0.09	0.13	958.13
RDSS	4.82	1101.64	100.23	1006.23

Name of scheme / Project	Opening CWIP for FY 2023-24 (CB as approved in Tariff order dated 01.03.2024) for FY 2022-23 true- up	Capex during FY 2023-24	Capitalisation during FY 2023-24	Closing CWIP for FY 2023-24
MKVYS	-13.85	51.03	57.99	-20.80
Smart Prepaid Meter (Phase 2) 36 Lakhs- 30% Capex	0.00	320.85	320.85	0.00
ACA State Plan	0.00	0.00		0.00
Own Sources	154.66	18.99	18.99	154.66
Total	2164.31	1842.89	887.89	3119.31

The Commission has considered scheme-wise capital expenditure and capitalisation for FY 2023-24 in truing up as given in the Table below for SBPDCL.

Table 4.34: Capex and capitalisation approved for SBPDCL for FY 2023-24 in true up (Rs. Crore)

Name of scheme / Project	Opening CWIP for FY 2023-24 (CB as approved in Tariff order dated 01.03.2024)	Capex during FY 2023-24	Capitalisation during FY 2023-24	Closing CWIP for FY 2023-24
BRGF	700.37	41.36	429.51	312.22
R-APDRP	0.02	11.38	11.38	0.02
NABARD Phase VIII	0.07	0.56	0.56	0.07
MP/CM LAD	0.96	0.00	0.77	0.19
Deposit Scheme	5.18	16.37	12.82	8.72
ADB	79.63	0.82	0.00	80.45
Burnt DTR State Plan	0.19	0.00	0.18	0.01
State Plan -Others	494.64	108.84	216.13	387.35
APL Connection	105.00	10.20	21.90	93.30
Reconductoring	390.29	54.80	74.24	370.84
IPDS	292.69	19.82	0.36	312.15
RGVY	311.88	1.60	1.60	311.88

Name of scheme / Project	Opening CWIP for FY 2023-24 (CB as approved in Tariff order dated 01.03.2024)	Capex during FY 2023-24	Capitalisation during FY 2023-24	Closing CWIP for FY 2023-24
DDUGJY	739.77	-15.00	34.06	711.92
RDSS	1.54	982.80	57.89	926.44
Smart Prepaid Meter (Phase 2) 36 Lakhs- 30% Capex	0.00	38.44	38.44	0.00
ACA State Plan	39.03	0.83	0.83	39.03
Own Sources	15.61	127.40	61.27	82.12
Total	3176.87	1400.21	961.96	3636.72

The Commission, accordingly, considers the funding of capitalization for FY 2023-24 in trueing up for NBPDCCL and SBPDCL respectively as given below:

Table 4.35: Funding of Capitalisation approved for FY 2023-24 in true up for NBPDCCL (Rs. Crore)

Name of the project	Loan	Equity	Grant	Capitalization	Loan	Equity	Grant
BRGF		100%		12.36	-	12.36	-
R-APDRP	100%			0.00	-	-	-
NABARD Phase VIII			100%	0.00	-	-	0.00
NABARD Phase XI			100%	4.88	-	-	4.88
MP/CM LAD			100%	0.36	-	-	0.36
Deposit Scheme			100%	1.84	-	-	1.84
ADB	100%			0.00	-	-	-
ACA State Plan		100%		2.85	-	2.85	-
Burnt DTR State Plan		100%		0.00	-	0.00	-
State Plan -Others		100%		353.30	-	353.30	-
CM Seven		100%		0.00	-	0.00	-
Reconductoring		100%		0.00	-	0.00	-
IPDS	30%	10%	60%	7.96	2.39	0.80	4.78
RGVY	10%		90%	6.15	0.62	-	5.54
DDUGJY	30%	10%	60%	0.13	0.04	0.01	0.08
APL Connection/Saubhagya			100%	0.00	-	-	0.00
LT Line New Service Connection			100%	0.00	-	-	0.00
MKVYS			100%	57.99	-	-	57.99
State Plan-RDSS		100%		100.23	-	100.23	
Infrastructure works		40%	60%	0.00	-	-	-
IT/OT		40%	60%	0.00	-	-	-

Name of the project	Loan	Equity	Grant	Capitalization	Loan	Equity	Grant
PMA		40%	60%	0.00	-	-	-
Smart Prepaid Meter (Phase 2) 36 Lakhs- 30% Capex	100%			320.85	320.85	-	-
Smart Prepaid Meter (Phase 3) 1.12 crores- 30% Capex	100%			0.00	-	-	-
Own Sources		100%		18.99	-	18.99	-
Total				887.89	323.89	488.54	75.45

Table 4.36: Funding of Capitalisation approved for FY 2023-24 in true up for SBPDCL (Rs. Crore)

Name of the project	Loan	Equity	Grant	Capitalization	Loan	Equity	Grant
BRGF		100%		429.51	-	429.51	-
R-APDRP	100%			11.38	11.38	-	-
NABARD Phase VIII			100%	0.56	-	-	0.56
NABARD Phase XI			100%	0.00	-	-	0.00
MP/CM LAD			100%	0.77	-	-	0.77
Deposit Scheme			100%	12.82	-	-	12.82
ADB	100%			0.00	-	-	-
ACA State Plan		100%		0.83	-	0.83	-
Burnt DTR State Plan		100%		0.18	-	0.18	-
State Plan -Others		100%		216.13	-	216.13	-
CM Seven		100%		0.00	-	0.00	-
Reconductoring		100%		74.24	-	74.24	-
IPDS	30%	10%	60%	0.36	0.11	0.04	0.21
RGGVY	10%		90%	1.60	0.16		1.44
DDUGJY	30%	10%	60%	34.06	10.22	3.41	20.44
APL Connection/Saubhagya			100%	21.90	-	-	21.90
LT Line New Service Connection			100%	-	-	-	0.00
MKVYS			100%	-	-	-	0.00
State Plan-RDSS		100%		57.89	-	57.89	-
Infrastructure works		40%	60%	0.00	-	-	-
IT/OT		40%	60%	0.00	-	-	-
PMA		40%	60%	0.00	-	-	-
Smart Prepaid Meter (Phase 2) 36 Lakhs- 30% Capex	100%			38.44	38.44	-	-

Name of the project	Loan	Equity	Grant	Capitalization	Loan	Equity	Grant
Smart Prepaid Meter (Phase 3) 1.12 crores- 30% Capex	100%			0.00	-	-	-
Own Sources		100%		61.27	-	61.27	-
Total				961.96	60.30	843.50	58.16

The Commission, accordingly, has considered the opening CWIP, capex and capitalisation during FY 2023-24 and funding of capitalisation as detailed in the table below:

Table 4.37: Opening CWIP, Capex, Capitalisation and funding of capitalisation approved for FY 2023-24 in true up (Rs. Crore)

Sl. No.	Particulars	Approved in trueing up for FY 2023-24 for NBPDC	Approved in trueing up for FY 2023-24 for SBPDCL	Total
1	Opening CWIP (as per closing CWIP approved in true up for FY 2022-23)	2164.31	3176.87	5341.18
2	Add: New Investment	1842.89	1400.58	3243.47
3	Less: Capitalisation	887.89	961.96	1849.84
	Closing CWIP (1+2-3)	3119.31	3615.49	6734.80
5	Funding of Capitalisation (a+b+c)	887.89	961.96	1849.84
a	Grant	75.45	58.16	133.61
b	Equity	488.54	843.50	1332.04
c	Loans	323.89	60.30	384.20

The Commission accordingly approves the Opening CWIP, New Investment, Capitalisation, Closing CWIP and funding of capitalisation for FY 2023-24 in trueing up as detailed in the Table above.

Variation in capex and capitalisation:

Regulation 9.2 of BERC (Multi Year Distribution Tariff) Regulations, 2021 specify the “controllable factors” shall comprise but not limited to following factors which are within the control of, and are attributable to the applicant:

- (a) Variations in capital expenditure on account of time and/or cost overruns/ efficiencies in the implementation of a capital project not attributable to an approved change in scope of such project, change in statutory levies or force majeure events;
- (b) Variations in distribution losses which shall be measured as the difference between the units input into the distribution system and the units billed for the same year;
- (c) Variations in Return on Equity (RoE), depreciation and working capital requirements. However, if the Commission is satisfied that the variation in the working capital requirement is attributable to any uncontrollable factors, the same may be considered as uncontrollable factor;
- (d) Failure to meet the standards specified in the Standards of Performance Regulations, except where exempted;
- (e) Variations in operation & maintenance expenses, except those attributable to directions of the Commission or to change in Government policy/law;
- (f) Variation in Wires Availability and Supply Availability, within the control of Distribution Licensee.

Regulation 11 specifies that variation in capitalisation is subject to mechanism of sharing of gain and losses. The Commission accordingly has decided to undertake detailed analysis of scheme-wise deviation in project cost.

The Discoms have submitted the scheme-wise capex and capitalisation details. However, the work wise details under each scheme was not provided to verify, whether the works have been carried out and completed within the scheduled time period, material and cost variations due to change/modifications in specifications, etc. to ascertain cost due to uncontrollable factors. In the absence of required information, determining the variation in capitalisation on account of performance efficiencies / inefficiencies of the utilities or due to uncontrollable / controllable factors is not feasible.

4.10. Gross Fixed Assets**Petitioners' submission**

The Discoms have submitted that Opening GFA is considered as per the audited annual accounts and computed the GFA based on the capitalisation for FY 2023-24 as detailed in the table below:

Table 4.38: Gross Fixed Assets claimed for FY 2023-24 (Rs. Crore)

Particulars	NBPDCCL Actual for FY2023-24	SBPDCL Actual for FY2023-24
Opening GFA	21,484.77*	16,012.39
Additions during the year	887.83	961.96
Add : IDC	-	-
Less: Adjustment for assets sold/ discarded etc.	5.72	0.75
Closing GFA	22,366.89	16,973.60

*As per audited account the gross GFA is Rs. 22532.14 Cr and the depreciable GFA is Rs 21484.77 Cr .

Commission's analysis:

The Discoms have submitted that Opening GFA is considered as per the audited annual accounts as on 31st March 2024. The Commission has comprehensively deliberated (in the earlier paragraph 4.9 above) the issue of adjustments made in the books of accounts by the Discoms due to adoption of Ind AS 101 and adoption of opening balances for the purpose of tariff, which is not stated here due to brevity.

The Commission, in view of the deliberations and in accordance with the provisions of Regulation 8.1 and Regulation 9 of BERC (Power Regulatory Accounting) Regulations 2021, has adopted the opening GFA based on the closing GFA approved in the true up for FY 2022-23.

The Commission had approved closing GFA at Rs. 22029.58 Crore for NBPDCCL and Rs. 16678.69 Crore for SBPDCL in true up for FY 2022-23 in the Tariff Order dated 01.03.2024 and the same is considered as opening GFA in true up for FY 2023-24.

The Commission, accordingly, has considered the opening GFA, additions to GFA and

closing GFA as detailed in the table below:

Table 4.39: Gross Fixed Assets approved for FY 2023-24 (Rs. Crore)

Sl. No.	Particulars	Approved in True up by NBPDC	Approved in True up by SBPDCL	Total
1	Opening GFA	22029.58	16678.69	38708.27
2	Additions during the year	887.76	961.95	1849.71
3	Direct additions	0	0	0
4	Less: Disposal/Sale/Transfer	5.71	0.75	6.46
5	Closing GFA (1+2+3-4)	22911.63	17639.89	40551.52

The Commission, accordingly, approves Gross Fixed Assets for FY 2023-24 in true up as above.

4.11. Depreciation

Petitioners' submission:

NBPDC and SBPDCL have submitted that depreciation is claimed as per regulation 23 of BERC (Multi Year Distribution Tariff) Regulations 2021 after reducing the value of land, depreciation on grants and consumer contribution amortized in the ratio of depreciation. The Discoms have claimed the depreciation for FY 2023-24 as detailed in the table below:

Table 4.40: Depreciation claimed for FY 2023-24 (Rs. Crore)

Particulars	NBPDC Actual for FY 2023-24	SBPDCL Actual for FY 2023-24
Opening depreciable GFA	22532.14	17558.68
Less: Value of land	1047.37	1546.29
Opening depreciable GFA (excl. value of land)	21484.77	16012.39
Additions during the year (excl. value of land)	887.83	961.96
IDC	-	-
Adjustment for assets sold/ discarded etc	5.72	-
Expenses capitalized	-	0.75
Closing GFA (3+4-5A)	22366.89	16973.60
Average depreciable GFA (1+7)/2	21925.83	16492.99

Particulars	NBPDCCL Actual for FY 2023-24	SBPDCL Actual for FY 2023-24
Weighted average rate of depreciation	5.17%	4.88%
Depreciation for the year	1132.93	804.67
Opening Grants	11883.44	7153.42
Grants during the year	102.80	131.42
Less: Adjustment of assets sold/ discarded etc.	3.20	7284.85
Total Grants (11+12-13)	11983.04	7284.85
Average Grants (11+14)/2	11933.24	7219.14
Weighted average rate of Depreciation (on grant)	5.19%	6.15%
Depreciation for GFA on Grants (15*16)	619.63	444.28
Net Depreciation (10-17)	513.30	360.40

The Discoms have proposed the gains/(loss) on account of depreciation for FY 2023-24 as given in the table below:

Table 4.41: Gains/(Loss) on account of Depreciation for FY 2023-24 (Rs. Crore)

Particulars	Approved in the Tariff Order dated 23.03.2023	Actual Claimed in Truing up	Gains/ (Loss)	Gain/(Loss) due to uncontrollable factors to be absorbed by the licensee	Pass through on account of uncontrollable factors
Depreciation (NBPDCCL)	362.02	513.30	(151.28)		151.28
Depreciation (SBPDCL)	364.91	360.40	4.51	-	4.51

Commission's analysis:

The Commission has examined the computation of depreciation claimed by the Discoms for FY 2023-24.

Regulation 23 of BERC (Multi Year Distribution Tariff) Regulations 2021, specify;

"23. Treatment of Depreciation

- a) *Depreciation shall be calculated for each year of the control period on the original cost of the fixed assets of the corresponding year.*

- b) *Depreciation shall not be allowed on assets funded by capital subsidies, consumer contributions or grants.*
- c) *Depreciation shall be calculated annually on the basis of assets capitalised and put to use based on the straight-line method over the useful life of the asset at rate not exceeding the rate specified by the Central Electricity Regulatory Commission for Transmission utility.*
- d) *The residual value of assets shall be considered as 10% and depreciation shall be allowed to a maximum of 90% of the original cost of the asset.*

The Distribution Licensee shall submit separate detail of fully depreciated asset along with year of commissioning and year of attaining ninety percent depreciation with the tariff petition.

Provided that freehold land shall not be treated as a depreciable asset and its cost shall be excluded while computing 90% of the original cost of the asset.

Provided further that cost of leasehold land shall be amortized evenly within the leased period.

- e) *Depreciation shall be charged from the first year of commercial operation of the asset.*

Provided that in case the operation of the asset is for a part of the year, depreciation shall be charged on proportionate basis.

- f) *A provision of replacement of assets shall be made in the capital investment plan.”*

Regulation 23 (a) specify that depreciation shall be calculated annually on the assets capitalised/put to use (from the date of commercial operation) on straight line method over the useful life of the asset at rates specified by the CERC for Transmission utility. Depreciation shall not be allowed on assets funded by capital subsidies, grants or consumer contributions and the cumulative depreciation shall be limited to 90% of

the original cost of the asset. Land is not depreciable asset and cost of land shall be excluded for computing depreciation. The Commission has verified the procedures being followed by the Discoms from the Notes to Accounts – Significant Accounting Policies specified in the Audited accounts of the Discoms.

The Commission, in order to arrive effective weighted average rate of depreciation, has considered the opening GFA (historical cost) for FY 2023-24 based on the closing GFA as approved in the truing up for FY 2022-23 in Tariff order dated 01.03.2024. The opening GFA and addition to GFA during the year 2023-24 includes value of land. Land is not a depreciable asset and accordingly, the Commission has reduced the value of land from the audited account of FY 2023-24 to arrive at the effective weighted average rate of depreciation for FY 2023-24. The effective weighted average rate of depreciation is worked out on the depreciable assets i.e. excluding land value for FY 2023-24 as detailed hereunder in table below:

Table 4.42: Effective weighted average rate of depreciation on Assets

Sl. No.	Particulars	NBPDCCL	SBPDCL
1	Opening GFA balance of depreciable assets for FY 2023-24 (as per closing depreciable assets approved in true up for FY 2022-23 Table 4.47 of Tariff order dated 01.03.2024)	24297.78	17200.15
2	Additions during the year (Net of Assets Sold/Transfer/Disposed)	882.05	961.20
3	Less: Value of land added during the year	6.05	0
4	Closing GFA (Closing depreciable assets) (1+2-3)	25173.78	18161.35
5	Average GFA (3+6)/2	24735.78	17680.75
6	Net Depreciation as per accounts	1132.93	804.81
7	Weighted average rate of Depreciation (6/5)*100	4.58%	4.55%

The Discoms have furnished the details of grants utilised for creation of assets and depreciation charged thereon in Format No.14 and Format No.15 for truing up for FY 2023-24 of the tariff petition. The Commission has found that depreciation on assets

created through grants claimed by the SBPDCL is in agreement with the audited accounts (Amortisation of Grant) vis-à-vis Format 15.

The Commission, observes that opening balance of depreciable assets created out of grant is neither in agreement with the closing balance approved in true up for FY 2022-23 nor in agreement with audited figures. Hence, the Commission, in the absence of the information, has adopted the rate of depreciation on assets created through grants equivalent to the rate of depreciation considered for depreciable assets. However, it was observed by the Commission that grant amount considered under scheme wise details submitted by the Petitioner and grant amount reflected in format 14 (asset-wise grant) is not matching. During the Technical Validation Session dated 29.01.2025, the issue was explained to the Petitioner and the Commission directed them to reconcile the grant related data provided in Petition with scheme wise and asset wise grant details. The Petitioner's in its reply submitted the revised format 14, i.e. asset wise grant details. Hence, based on the revised submission of the petitioners, the Commission considers addition in grant amount during FY 2023-24 as Rs. 75.45 Cr. and Rs. 58.16 Cr. for NBPDCCL and SBPDCL, respectively.

The Commission had approved the closing depreciable assets at Rs. 20981.21 Crore for NBPDCCL and Rs. 15132.41 Crore for SBPDCL in true up for FY 2022-23 in Tariff Order dated 01.03.2024, which has been considered as opening depreciable assets for FY 2023-24. The Commission has also approved the closing grants utilised for creation of assets at Rs. 12178.29 Crore for NBPDCCL and Rs. 7716.18 Crore for SBPDCL in true up for FY 2022-23 in Tariff Order dated 01.03.2024. The same is considered as opening grants for FY 2023-24. Accordingly, the Commission, has considered the opening depreciable assets and opening grants for FY 2023-24 based on the closing depreciable assets and closing grants approved in truing up for FY 2022-23.

The opening GFA, additions to GFA, closing GFA, rate of depreciation on assets, depreciation on assets and prorated depreciation on assets created out of grants and net depreciation considered as pass through in the ARR in true up for FY 2023-24 is as detailed in the table below:

Table 4.43: Depreciation approved for FY 2023-24 (Rs. Crore)

Sl. No.	Particulars	Approved in truing up for NBPDC	Approved in truing up for SBPDCL	Total
1	Opening depreciable assets (as per closing depreciable assets approved in true up for FY 2022-23)	20981.21	15132.41	36113.62
2	Net Additions during the year (excl. land and disposal/withdrawal of assets)	876.00	961.20	1837.20
3	Closing depreciable assets (1+2)	21857.21	16093.61	37950.82
4	Average depreciable assets $\{(1+3)/2\}$	21419.21	15613.01	37032.22
5	Weighted average rate of depreciation	4.58%	4.55%	
6	Depreciation (4*5)	981.03	710.69	1691.72
7	Opening Grants (as per closing grants approved in true up for FY 2022-23)	12178.29	7716.18	19894.47
8	Grants during the year	75.45	58.16	133.61
9	Less: Grants used for Land during the year (as reported in Format 14)	0	0.00	0.00
10	Closing Grants for depreciable assets (7+8-9)	12253.74	7774.34	20028.08
11	Average Grants for Depreciable Assets $\{(7+10)/2\}$	12216.02	7745.26	19961.28
12	Weighted average rate of depreciation	4.58%	4.55%	

Sl. No.	Particulars	Approved in truing up for NBPDCCL	Approved in truing up for SBPDCL	Total
13	Depreciation on assets created out of grants (11*12)	559.51	352.56	912.07
14	Net Depreciation (6-13)	421.52	358.13	779.65
	Net Depreciation allowed (75%) (14*75%) *	316.14	268.60	584.74

*The Commission has observed that the Petitioners have not prepared Asset Register in spite of repeated directives. The Commission in its order dated 01.03.2024 directed as follows:

“The Commission has observed that the DISCOMs have not yet started work of preparation of asset register in spite of repeated directives. DISCOMs have submitted that they are going to implement ERP which is mandatory under RDSS scheme. *It is endeavouring to create and maintain component wise fixed asset register and will be provided after ERP implementation. ERP for all areas of both DISCOMs was floated by SBPDCL vide NIT No: 39/PR/NBPDCCL/2023. Technical evaluation is under process and it is expected to finalize the tender process by the end of current financial year. The Commission directs Discoms that if the Fixed Asset Register is not prepared by the end of FY 2023-24 and submitted along with petition for true up of FY 2023-24, the Commission shall be constrained to take appropriate action under the Rules has directed to the Petitioner to create fixed asset register (FAR) without any fail from next year true-up onwards.*”

The Commission approves a depreciation of Rs. 421.52 Crore & Rs 358.13 Cr for FY 2023-24 in truing-up for NBPDCCL and SBPDCL. However, in view of the fact that in spite of repeated direction of the Commission issued vide various tariff orders, the petitioner has not submitted the Asset Register, in absence of which it is very difficult to ascertain whether allowing depreciation on estimated Asset value will be against the applicable Regulations as well as against the consumer interest. The Commission therefore decides to allow only 75% of the total calculated depreciation as shown in

the above table 4.48 at Sr No 14. Accordingly, out of calculated value of depreciation of Rs 421.52 Cr and 358.13 Cr for only 316.14 Cr and 268.60 Cr is being allowed for NBPDC & SBPDCL respectively in the true up.

Further, the Commission directs the Petitioner to submit fixed asset register (FAR) at the time of next tariff filing for FY 2026-27 .

The Commission, accordingly, approves depreciation for FY 2023-24 in true up as above.

Sharing of Gain/(Loss) on account of controllable factors:

The Commission, as deliberated in paragraph 4.9 above, the variation in capex and capitalisation is considered to be due to uncontrollable /force majeure factors and dependent ARR factors of Depreciation, Interest on Loan, Return on Equity, etc. are also considered as uncontrollable and pass through in the ARR.

The Commission accordingly has not considered sharing of gains/(losses) on account of variation in depreciation approved vis-à-vis depreciation trued up for FY 2023-24.

4.12. Interest on Loans

Petitioners' submission:

Discoms have submitted that interest on loans include loans against schemes, Central and state Government loans, Bank overdrafts, public bonds, etc. Repayment is considered equivalent to depreciation claimed for FY 2023-24. The weighted average rate of interest on actual loan portfolio is calculated as 9.68% for computing interest on normative loan as given in the tables below:

Table 4.44: Interest on Loans Claimed for NBPDC for FY 2023-24 (in INR Crore)

Sr. No	Particulars	Purpose of Loan	Opening balance	Rate	Addition during the year	Repayment t during the year	Closing balance	Amount of interest paid	Average Loan
1	REC (RGGVY) Term Loan	Project	206.61	10.5 0%	0.02	20.53	186.10	19.54	196.35
2	REC (R-APDRP-PART-B) Term Loan	Project	23.52	9.00 %	-	1.71	21.81	4.85	22.67
3	PFC (COUNTER PART FUNDING) Term Loan	Project	76.17	11.1 2%	-	7.15	69.02	7.84	72.59

Sr. No	Particulars	Purpose of Loan	Opening balance	Rate	Addition during the year	Repayment during the year	Closing balance	Amount of interest paid	Average Loan
4	State Govt.- NonPlan Loan	Project	295.98	10.5 0%	41.95	5.85	332.07	33.94	314.03
5	BSPHCL (ADB) Loan	Project	56.01	10.5 0%	-	-	56.01	5.88	56.01
6	REC (DDUGJY)	Project	1,032.87	9.56 %	-	-	1,032.87	94.52	1,032.87
7	REC (IPDS)	Project	302.54	8.82 %	-	-	302.54	23.59	302.54
8	Smart Metering	Project	-	8.94 %	449.00	-	449.00	3.77	224.50
9	Total		1,993.69		490.97	35.24	2,449	194	2,222

Table 4.45: Interest on Loans Claimed for SBPDCL for FY 2023-24 (in INR Crore)

Sr. No	Particulars	Purpose of loan	Opening balance	Rate of Interest	Addition during the year	Repayment during the year	Closing balance	Amount of interest paid	Average Loan
1	REC (RGGVY) Term Loan	Project	119.24	11.0 0%	-	15.64	103.60	11.78	111.42
2	REC (R-APDRP) Term Loan	Project	288.65	10.4 0%	-	34.93	253.72	26.76	271.19
3	PFC (R-APDRP) Term Loan	Project	123.20	9.00 %	-	9.96	113.24	27.18	118.22
4	REC (IPDS) Term Loan	Project	336.45	10.1 9%	-	-	336.45	29.89	336.45
5	REC (DDUGJY) Term Loan	Project	745.29	10.1 9%	-	-	745.29	70.06	745.29
6	REC (Smart Meter) Term Loan	Project	-	8.75 %	131.40	-	131.40	0.87	65.70
7	State Govt.-Non-Plan Loan	Project Support	143.20	13.0 0%	27.50	-	170.70	20.14	156.95
8	BSPHCL (ADB) Loan	Project	6.28	13.0 0%	-	-	6.28	0.82	6.28
9	Working Capital Loan (BRED)	Working Capital	6.00	8.50 %	-	6.00	-	0.46	3.00
10	Canara Bank- VSL	Working Capital	300.00	6.75 %	-	-	300.00	20.04	300.00
11	Bank O/D under consortium arrangement (Lead Bank- PNB)	Working Capital	1,969.11	8.70 %	7,202.17	6,415.01	2,756.27	175.70	2,362.69
12	REC Short Term Loan-RBPF	Working Capital	1,000.00	10.0 0%	250.00	1,000.00	250.00	52.01	625.00
13	REC- SLTTL	Working	1,118.	10.0 0%	-	79.87	1,038.34	106.35	1,078.28

Sr. No	Particulars	Purpose of loan	Opening balance	Rate of Interest	Addition during the year	Repayment during the year	Closing balance	Amount of interest paid	Average Loan
		Capital	21						
14	PFC- SLTTL	Working Capital	1,116.92	10.00%	-	56.74	1,060.18	107.44	1,088.55
	Total		7,272.55		7,611.07	7,618.15	7,265.47	649.50	7,269.01

Discoms have claimed interest charges for FY 2023-24 in truing up as detailed in the table below:

Table 4.46: Interest on loans claimed for FY 2023-24 (Rs. Crore)

S. No.	Calculation for Interest on Loan	(NBPDCCL) Claimed in True up for FY 2023-24	(SBPDCL)Claimed in True up for FY 2023-24
1	Opening loan balance	5456.50	3992.57
2	Additions during the year	568.70	632.66
3	Normative Repayment	513.30	360.40
4	Closing Loans (1+2-3)	5511.90	4264.83
5	Average Loans $\{(1+4)/2\}$	5484.20	4128.70
6	Interest rate	9.68%	9.54%
7	Interest Charges (5*6)	530.95	393.92

The Discoms have proposed the gains/(loss) on account of interest on loans for FY 2023-24 as given in the table below:

Table 4.47: Gains/(Loss) on account of interest on loans for FY 2023-24 (Rs. Crore)

Name of the Discom	Approved in the Tariff Order for FY 2023-24	Actual Claimed in Truing up	Gain/(Loss)	Gain/(Loss) due to uncontrollable Factors to be absorbed by the licensee	Gain/(Loss) due to Uncontrollable Factors
NBPDCCL	546.77	530.95	15.82	-	(15.82)
SBPDCL	444.17	393.92	50.25	-	50.25

Commission's analysis:

The Commission has approved closing loans at Rs. 5456.50 Crore for NBPDCCL and Rs.

3992.57 Crore for SBPDCL in truing up to end of FY 2023-24 in the Tariff Order dated 01.03.2024 and the same is considered as opening loan for FY 2023-24 for NBPDCCL and SBPDCL respectively. Addition to loan is considered to the extent of permitted Debt Equity ratio under regulation 25 (j) read with regulation 27 (a) of Bihar Electricity Regulatory Commission (Multi Year Distribution Tariff) Regulations, 2021, based on capitalisation approved for FY 2023-24. Funding of capitalisation is considered in Debt Equity Ratio of 70:30 of net capitalisation of grants.

The Commission has accordingly considered the debt:equity for FY 2023-24 in truing up as given below:

Table 4.48: Debt Equity approved for FY 2023-24 in truing up (Rs. Crore)

Particulars	NBPDCCL	SBPDCL
Net Capitalisation during FY 2023-24 (excluding withdrawal/disposal/transfer of assets) – A	882.05	961.95
Less: Capitalisation through Grants – B	75.45	58.16
Net capitalisation – C = (A-B)	806.60	903.04
Debt 70% of C	564.62	632.13
Equity 30% of C	241.98	270.91

Regulation 25 (e) of BERC (Multi Year Distribution Tariff) Regulations 2021 specify repayment shall be deemed to be equal to the depreciation allowed for the year. The Commission accordingly considered the repayment of loan equal to the depreciation allowed for the year.

Regulation 25 (g) of BERC (Multi Year Distribution Tariff) Regulations, 2021 specify:

“(g) The rate of interest shall be the weighted average rate of in

terest calculated on the basis of actual loan portfolio at the beginning of each year of the control period, in accordance with terms and conditions of relevant loan agreements, or bonds or nonconvertible debentures.

Provided that if no actual loan is outstanding but normative loan is still outstanding, the last available weighted average rate of interest shall be

applicable;

Provided further that if no actual loan is outstanding but normative loan is still outstanding and the last available weighted average rate of interest is also not available, rate of interest equal to the State Bank one-year Marginal Cost of Funds-based Lending Rate ('MCLR') shall be applicable;

Provided further that the interest on loan shall be calculated on the normative weighted average loan of the year by applying the weighted average rate of interest;

Provided also that exception shall be made for the existing loans which may have different terms as per the agreements already executed if the Commission is satisfied that the loan has been contracted for and applied to identifiable and approved projects;"

Regulation 25 specify interest shall be provided loan-wise, project-wise, utilisation-wise and interest on project loans only shall be considered for computing the weighted average rate of interest for the purpose of ARR.

The Commission has examined the weighted average rate of interest computed by the Discoms for FY 2023-24 and observed that NBPDCCL has considered weighted average rate of interest of 9.68%. The Commission has worked out the weighted average rate of interest and found it same as claimed by the NBPDCCL as given in the table below.

Table 4.49: NBPDCCL – Weighted average rate of interest for FY 2023-24

Sr. No	Particulars	Purpose of loan	Opening balance	Rate of Interest	Addition during the year	Repayment during the year	Closing balance	Amount of interest paid	Average Loan
1	REC (RGVY) Term Loan	Project	206.61	10.50%	0.02	20.53	186.10	19.54	196.36
2.	REC (R-APDRP- PART-B) Term Loan	Project	23.52	9.00%	0.00	1.71	21.81	4.85	22.67
3.	PFC (COUNTER PART FUNDING) Term Loan	Project	76.17	11.12%	0.00	7.15	69.02	7.84	72.60
4.	State Govt.-Non-Plan Loan	Project	295.98	10.50%	41.95	5.85	332.08	33.94	314.03
5.	BSPHCL (ADB) Loan	Project	56.01	10.50%	0.00	0.00	56.01	5.88	56.01
6.	REC (DDUGJY)	Project	1032.87	9.56%	0.00	0.00	1032.87	94.52	1032.87

Sr. No	Particulars	Purpose of loan	Opening balance	Rate of Interest	Addition during the year	Repayment during the year	Closing balance	Amount of interest paid	Average Loan
7.	REC (IPDS)	Project	302.54	8.82%	0.00	0.00	302.54	23.59	302.54
8.	Smart Metering	Project	0.00	8.94%	449.00	0.00	449.00	3.77	224.50
9.	Total		1993.70	0.79	490.97	35.24	2449.43	193.93	2221.57
Average Interest Rate on Loan = 9.68%									

The Commission has examined the actual loan portfolio of SBPDCL and observed that along with project purpose loan, SBPDCL have also included working capital related loan in its loan portfolio. As the regulations allows project purpose loan for calculation of weighted average rate of interest, the Commission computed the weighted average rate of interest without factoring the working capital loan. Accordingly the Commission computed weighted average of interest as 10.39 % for SBPDCL as given in the table below.

Table 4.50: SBPDCL - Weighted average rate of interest for FY 2023- 24

Sr. No	Particulars	Purpose of loan	Opening balance	Rate of Interest	Addition during the year	Repayment during the year	Closing balance	Amount of interest paid	Average Loan	Average Interest Rate
1	REC (RGGVY) Term Loan	Project	119.24	11.00%	0.00	15.64	103.60	11.78	111.42	
2	REC (R-APDRP) Term Loan	Project	288.65	10.40%	0.00	34.93	253.72	26.76	271.19	
3	PFC (R-APDRP) Term Loan	Project	123.20	9.00%	0.00	9.96	113.24	27.18	118.22	
4	REC (IPDS) Term Loan	Project	336.45	10.19%	0.00	0.00	336.45	29.89	336.45	
5	REC (DDUGJY) Term Loan	Project	745.29	10.19%	0.00	0.00	745.29	70.06	745.29	
6	REC (Smart Meter) Term Loan	Project	0.00	8.75%	131.40	0.00	131.40	0.87	65.70	
7	State Govt.- Non-Plan Loan	Project Support	143.20	13.00%	27.50	0.00	170.70	20.14	156.95	
8	BSPHCL (ADB) Loan	Project	6.28	13.00%	0.00	0.00	6.28	0.82	6.28	
	Total		1762.31		158.90	60.53	1860.68	187.50	1811.49	10.39 %

The Commission, accordingly, has considered the weighted average rate of interest on loan at 9.68 % for NBPDCCL and 10.39 % for SBPDCL for computation of interest on normative loan for FY 2023-24 in truing up as detailed in the Table below:

Table 4.51: Interest on loans approved for FY 2023-24 (Rs. Crore)

Sl. No.	Particulars	Approved in Truing up for NBPDCCL	Approved in Truing up for SBPDCL	Total
1	Opening loan balance	5456.50	3992.57	9449.07
2	Additions during the year	564.62	632.13	1196.75
3	Normative Repayment	421.52	358.13	779.65
4	Closing Loans (1+2-3)	5599.60	4266.57	9866.17
5	Average Loans $\{(1+4)/2\}$	5528.05	4129.57	9657.62
6	Interest rate	9.68%	10.39%	
7	Interest Charges (5*6)	535.20	429.25	964.45
8	Interest Charges Allowed	530.95	393.92	924.87

The Commission has computed the interest on loan as per the BERC MYT Regulation 2021. However, the Commission has approved as per the Petitioner's submission which is more acceptable. Therefore, the Commission approves interest on loan as Rs. 530.95 Cr for NBPDCCL and Rs. 393.92 Cr. for SBPDCL respectively.

The Commission, accordingly, approves interest on loans for FY 2023-24 in true up as above.

Sharing of Gain/(Loss) on account of controllable factors:

The Commission, as deliberated in paragraph 4.9 above, has considered the variation in capex and capitalisation to be due to uncontrollable/force majeure factors and dependent ARR factors of Depreciation, Interest on Loan, Return on Equity, etc. are also considered as uncontrollable and pass through in the ARR. The Commission accordingly has not considered sharing of gains/(losses) on account of variation in interest on loans approved vis-à-vis interest on loans trued up for FY 2023-24.

4.13. Other Interest and Finance Charges

Petitioners' submission:

NBPDCCL and SBPDCL have submitted that other finance charges include discount to

consumers for timely payment of bills, interest to suppliers, bank charges, etc. same proposed to be claimed based on audited annual accounts for FY 2023-24 as detailed in the Table below:

Table 4.52: Other Interest and Finance Charges claimed for FY 2023-24 (Rs. Crore)

Particular	NBPDCCL Claimed in True up for FY 2023-24	SBPDCL Claimed in True up for FY 2023-24	Total
Discount to Consumers	53.47	104.40	157.87
Load factor incentive	0.49	-	0.49
Interest on Bill discounting	15.71	30.09	45.80
LC Commission	3.53	-	3.53
Other Bank Charges	3.50	9.01	12.51
Accrual of Interest Under IPDS Scheme	-	0.22	0.22
Accrual of Interest on DDUGJY Scheme	-	3.48	3.48
Other Finance Charges	76.69	147.21	223.90

The Discoms have proposed the gains/(loss) on account of other finance charges for FY 2023-24 as given in the table below:

Table 4.53: Gains/(Loss) on account of other finance charges for FY 2023-24 (Rs. Crore)

Name of the Discom	Approved in the Tariff Order for FY 2023-24	Actual Claimed in Trueing up	Gain/(Loss)	Gain/(Loss) due to Controllable Factors to be absorbed by the licensee	Gain/(Loss) due to Uncontrollable Factors
NBPDCCL	57.16	76.69	(19.53)	-	19.53
SBPDCL	70.79	147.21	(76.42)	-	76.42

Commission's analysis:

Discount/Rebate to consumers for timely payment of bills

The Commission in Tariff Principles, Design and Tariff Schedule notified through the Tariff Order dated 23.03.2023 for FY 2023-24 has specified that *Rebate for prompt*

payment of energy bills on or before due date by the LT and HT consumers shall be allowed as per the rates prescribed in the tariff order. As per the audited accounts for FY 2023-24, the NBPDCCL and SBPDCL have allowed discount to consumers for timely payment of bills (Rebate) of Rs. 53.47 Crore and Rs. 104.40 Crore respectively.

The Commission, accordingly, approves rebate to consumers for prompt payment of bills for FY 2023-24 in truing up.

Load factor incentive

The Commission in Tariff Principles, Design and Tariff Schedule – Terms and Conditions of LT Tariff and HT Tariff notified through the Tariff Order dated 23.03.2023 for FY 2023-24 has specified that power factor *rebate/incentive for load factor will be allowed as per the rates prescribed in the tariff order. As per the audited accounts for FY 2023-24, the NBPDCCL has allowed load factor rebate of Rs. 0.49 crore to consumers.*

The Commission, accordingly, approves Load factor incentive for NBPDCCL for FY 2023-24 in truing up.

Bill discounting finance charges

NBPDCCL and SBPDCL have claimed Rs. 15.71 crore and Rs. 30.09 Crore respectively towards bill discounting finance charges for FY 2023-24 based on the audited accounts.

These charges represent working capital financing charges. The Commission has considered and allowed interest on working capital separately, hence the bill discounting finance charges are not approved for FY 2023-24 in true up.

LC Commission

NBPDCCL has claimed Rs. 3.53 Crore towards LC commission based on the audited accounts for FY 2023-24. The LC commission is paid to the Banks for opening LC for arranging payment of power purchase bills. The Commission, accordingly considers Rs. 3.53 Crore for NBPDCCL towards LC commission in truing up for FY 2023-24 based on the audited accounts.

Bank charges

NBPDC & SBPDCL have claimed Rs. 3.50 crore and Rs.9.01 Crore respectively towards bank charges for FY 2023-24 based on the audited accounts. These bank charges represent bank collection charges, other finance charges, etc. The Commission, accordingly considers Rs. 3.50 Crore for NBPDC & Rs. 9.01 Crore for SBPDCL towards bank charges in true up for FY 2023-24 based on the audited accounts.

Thus, the Commission considers other finance charges for FY 2023-24 as given in the Table below:

Table 4.54: Other Finance Charges approved for FY 2023-24 (Rs. Crore)

Particular	Approved for NBPDC in True up for FY 2023-24	Approved for SBPDCL in True up for FY 2023-24	Total
Discount to Consumers	53.47	104.40	157.87
Load factor incentive	0.49	-	0.49
Interest on Bill discounting	0.00	0.00	0.00
LC Commission	3.53	-	3.53
Other Bank Charges	3.50	9.01	12.51
Accrual of Interest Under IPDS Scheme	-	0.22	0.22
Accrual of Interest on DDUGJY Scheme	-	3.48	3.48
Other Finance Charges	60.98	117.11	174.38

The Commission, accordingly, approves other finance charges to the Discoms for FY 2023-24 in true up as above.

Sharing of Gain/(Loss) on account of controllable factors:

The Commission has approved other finance charges at Rs. 57.16 crore for NBPDC & Rs. 70.79 crore for SBPDCL for FY 2023-24 in Tariff Order dated 23.03.2023.

Regulation 9.1 (d) of BERC (Multi Year Distribution Tariff) Regulations 2021 specifies; variations in metered sales are uncontrollable. Similarly, the bank charges and LC charges are payable for drawal of funds which are beyond the control of the Discoms/ borrowers/beneficiaries.

The Commission, accordingly in terms of regulation 10, has considered sharing of gains/(losses) on account of other finance charges approved vis-à-vis trued up expenses approved for FY 2023-24 as given in the table below.

Table 4.55: Gains/(Loss) on account of other finance charges for FY 2023-24 (Rs. Crore)

Name of the Discom	Approved in the Tariff Order for FY 2023-24	Actual Claimed in Truing up	Deviation	Gain/(Loss) due to Controllable Factors	Gain/(Loss) due to Uncontrollable Factors
NBPDCCL	57.16	60.98	3.82		(3.82)
SBPDCL	70.79	117.11	46.32		(46.32)
Total	127.95	178.08	50.13		(50.13)

4.14. Return on Equity

Petitioners' submission:

Discoms have submitted that as per regulation 27 of the BERC MYT regulations 2021, Return on Equity is claimed for FY 2023-24 in truing up. It is further submitted that the actual equity infused in the company is greater than the norm of 30% of capital base. However, in line with the regulation 27, the return on equity is calculated on 30% of the capital base.

Discoms have claimed the return on equity for FY 2023-24 as detailed in the table below:

Table 4.56: Return on Equity claimed for FY 2023-24 (Rs. Crore)

Sl. No.	Particulars	Claimed in true up by NBPDCCL	Claimed in true up by SBPDCL	Total
1	Closing equity to end of 31.03.2016	440.86	638.06	1078.92
2	Rate of return on equity %	14%	14%	
3	Return on Equity (1*2)	61.72	89.33	151.05
	Equity with effect from 1st April 2016			
4	Opening equity	2202.00	1500.50	3702.50
5	Equity addition during the year	235.53	249.16	484.69

Sl. No.	Particulars	Claimed in true up by NBPDCCL	Claimed in true up by SBPDCL	Total
6	Closing equity (4+5)	2437.53	1749.66	4187.19
7	Average equity (4+6)/2	2319.76	1625.08	3944.84
8	Rate of return on equity with effect from 1.4.2016	15.50%	15.50%	
9	Return on equity (7*8)	359.56	251.89	611.45
10	Total Return on equity (3+9)	421.28	341.22	762.50

The Discoms have proposed the gains/(loss) on account of Return on Equity for FY 2023-24 as given in the table below:

Table 4.57: Gains/(Loss) on account of Return on equity for FY 2023-24 (Rs. Crore)

Name of the Discom	Approved in the Tariff Order for FY 2023-24	Actual Claimed in Truing up	Gains/(Loss)	Gain/(Loss) due to Controllable Factors to be absorbed by the licensee	Gain/(Loss) due to Uncontrollable Factors
NBPDCCL	412.89	421.28	(8.39)		8.39
SBPDCL	378.74	341.22	37.52	-	(37.52)

Commission's analysis

The Commission notes that Regulation 27 (c) of the BERC (Multi Year Distribution Tariff) Regulations 2021 specify that Return on Equity shall be computed at the rate of 15.50% for the project which is commissioned w.e.f. 01.04.2016. However, return on Equity for the projects commissioned prior to 01.04.2016 shall be allowed at the rate of 14%.

The Commission, in truing up for FY 2022-23 in its tariff order dated 01.03.2024, has approved closing Equity for the projects commissioned prior to the end of 31.03.2016 and equity for the projects commission w.e.f. from 1st April 2016 onwards and to end of 31.03.2023 for NBPDCCL and SBPDCL as given in the table below:

Table 4.58: Details of Closing Equity approved in truing up for FY 2023-24 (Rs Crore)

Particulars	NBPDCCL	SBPDCL
Equity to end of 31.3.2016	440.86	638.06
Equity from 1.4.2016 to end of 31.3.2023	2202.00	1500.50

Accordingly, the above equity is considered as opening equity for FY 2023-24 for computing RoE. Addition to equity during FY 2023-24 is considered to the extent of permitted Debt-equity ratio, under regulation 27 of BERC (Multi Year Distribution Tariff) Regulation 2021, based on the funding of capitalization approved in Table 4.40 and 4.41 for FY 2023-24.

The Commission in terms of Regulation 27 (c) of the BERC (Multi Year Distribution Tariff) Regulations 2021 has considered rate of Return on Equity at 14% on closing equity as on 31.03.2016 and Rate of Return on Equity at 15.50% in respect of equity for the projects commission w.e.f. from 1st April 2016 onwards and to end of 31.03.2024. The Commission has computed the normative ROE as per the regulation and accordingly, the Commission has allowed return on equity as per the submission of the petitioner for FY 2023-24 as detailed in the table below:

Table 4.59: Return on Equity approved for FY 2023-24 (Rs. Crore)

Sl. No.	Particulars	Approved in truing up for NBPDCCL	Approved in truing up for SBPDCL	Total
1	Closing equity to end of 31.03.2016	440.86	638.06	1078.92
2	Rate of return on equity %	14.00%	14.00%	
3	Return on Equity	61.72	89.33	151.05
	Equity with effect from 1st April 2016			
4	Opening equity	2202.00	1500.50	3702.50
5	Equity addition during the year	241.98	270.91	512.89
6	Closing equity (4+5)	2443.98	1771.41	4215.39
7	Average equity (4+6)/2	2322.99	1635.96	3958.95
8	Rate of return on equity	15.50%	15.50%	15.50%
9	Return on equity (7*8)	360.06	253.57	613.64
10	Total Return on equity (3+9)	421.78	342.90	764.69

The Commission, accordingly, approves Return on Equity in true up for FY 2023-24 for the Discoms.

Sharing of Gain/(Loss) on account of controllable factors:

The Commission, as deliberated in paragraph 4.9 above, has considered the variation in capex and capitalisation is considered to be due to uncontrollable force majeure factors and dependent ARR factors of Depreciation, Interest on Loan, Return on Equity, etc. are also considered as uncontrollable and pass through in the ARR.

The Commission accordingly has not considered sharing of gains/(losses) on account of variation in Return on Equity approved vis-à-vis Return on Equity trued up for FY 2023-24.

4.15. Operation and Maintenance Cost

4.15.1 Employees Cost

Petitioners' submission:

Discoms have submitted that the employee expenses were determined based on norms in accordance with regulation 22 of BERC (Multi Year Distribution Tariff) Regulations 2021 for the MYT control period of FY 2022-23 to FY 2024-25 in Tariff order dated 25.03.2022.

Table 4.60: Employee expense norm approved for NBPDC & SBPDCL in TO dated 25.03.2022 for the control period FY 2022-23 to FY 2024-25

Particulars	Base employee expense norm for NBPDC	Base employee expense norm for SBPDCL
No. of personnel per substation	6.7650	9.4117
No. of personnel per 1000 consumers	0.0629	0.1504

Regulation 22.1 specify employee cost shall be computed as per the approved norm escalated by consumer price index (CPI) based on average increase in CPI for immediately preceding three years i.e. FY 2020-21, FY 2021-22 and FY 2022-23. The

average CPI inflationary increase is computed as given below:

Table 4.61: CPI inflationary increase for FY 2023-24

Particulars	2019-20	2020-21	2021-22	2022-23
Average CPI index points for FY	322.50	338.69	356.06	377.62
Increase in CPI index over the previous year	7.53%	5.02%	5.13%	6.05%
Average CPI inflationary increase				5.40%

The Discoms have computed the employee expenses and claimed in truing up for FY 2023-24 as detailed in the table below:

Table 4.62: Employee expenses claimed by the Discoms for FY 2023-24 (Rs. Crore)

Sl. No.	Particulars	NBPDC			SBPDCL		
		Approved in ARR	Actual		Approved in ARR	Actual	
			Base Value	FY 2023-24		Base Value	FY 2023-24
1	Average annual CPI index	5.89%		5.40%	5.89%		5.40%
2	Norms- Number of personnel per 1000 consumers	0.0629	0.0629	0.0629	0.1504	0.1504	0.1504
3	Norms- Number of personal per substation	6.765	6.765	6.765	9.4117	9.4117	9.4117
4	No. of consumers (1000)	12041		12694	7043		7503
5	No of substations	633		633	624		615
6	Annual expenses per personnel (Rs. Cr)	0.9576	0.0904	0.09531	0.10248	0.09678	0.10201
7	Employee cost per 1000 consumers	72.53		76.10	108.56		115.11
8	Employee cost per substation	408.76		408.16	601.88		590.44
9	Total Employee	481.29		484.26	710.44		705.54

Sl. No.	Particulars	NBPDC			SBPDCL		
		Approved in ARR	Actual		Approved in ARR	Actual	
			Base Value	FY 2023-24		Base Value	FY 2023-24
	cost						

The Discoms have proposed the gains/(loss) on account of employee expenses for FY 2023-24 as given in the table below:

Table 4.63: Gains/(Loss) on account of employee expenses for FY 2023-24 (Rs. Crore)

Name of the Discom	Approved in Tariff Order dated 20.03.2020	Claimed in Truing up	Gain/(Loss)	Gain/(Loss) due to Controllable Factors to be absorbed by the licensee	Pass through on account of Uncontrollable Factors
NBPDC	481.29	484.26	(2.97)	1.98	0.99
SBPDCL	710.44	705.54	4.90	(1.63)	(3.26)

Commission's analysis:

The Commission in Tariff Order dated 25.03.2022 had determined the employee norms for the control period (in accordance with the regulation 22 and regulation 22.1 of MYT Distribution Regulations) and accordingly allowed the employee expenses based on the norms for the control period of FY 2022-23 to FY 2024-25.

The Commission has considered the base value of employee norm for number of employees per 1000 consumers, number of personnel per substation and annual expenses per personnel as determined for FY 2023-24 in the Tariff Order dated 25.03.2022 as detailed in the table below:

Table 4.64: Employee expense norm approved for NBPDC & SBPDCL in TO dated 25.03.2022

Particulars	Base employee expense norm for NBPDC	Base employee expense norm for SBPDCL
No. of personnel per substation	6.7650	9.4117
No. of personnel per 1000 consumers	0.0629	0.1504

Particulars	Base employee expense norm for NBPDC	Base employee expense norm for SBPDCL
Annual expenses per personnel (Rs. Crore)	0.0854	0.0914

Regulation 22.1 BERC MYT Distribution Tariff Regulations 2021 specify that :

“Employee cost shall be computed as per the approved norm escalated by consumer price index (CPI), adjusted by provisions for expenses beyond the control of the Distribution Licensee and one time expected expenses, such as recovery/adjustment of terminal benefits, implications of pay commission, arrears and Interim Relief, governed by the following formula:

$$EMP_n = (EMP_b * CPI \text{ inflation}) + Provision$$

Where:

EMP_n : Employee expense for the year n

EMP_b : Employee expense as per the norm

CPI inflation : is the average increase in the Consumer Price Index (CPI) for immediately preceding three years

Provision: Provision for expenses beyond control of the Distribution Licensee and expected one-time expenses as specified above.

Till the norms are specified by the Commission the employee cost shall be determined on the basis of actual historical cost.”

However, employee cost shall be computed as per the approved norm escalated by consumer price index (CPI).

The CPI inflation shall be considered based on the average increase in CPI for immediately preceding three years i.e. FY 2020-21, FY 2021-22 and FY 2022-23. The average CPI inflationary increase is computed as given below:

Table 4.65: CPI inflationary increase for FY 2023-24

Particulars	2019-20	2020-21	2021-22	2022-23
Average CPI index points for FY	322.50	338.69	356.06	377.62
Increase in CPI index over the previous year		5.02%	5.13%	6.05%
Average CPI inflationary increase				5.40%

The Annual expenses per personnel approved for FY 2022-23 is considered along with above mentioned escalation factor based on CPI inflation to approve the norms regarding Annual expenses per Personnel for FY 2023-24.

Further, Discoms have furnished the actual no. of substations and no. of consumers in Format 7 of the petition for the year FY 2023-24. No. of substations at end of FY 2023-24 in NBPDC are at 633 and SBPDCL at 615. Whereas number of consumers (in 1000) at end of FY 2023-24 in NBPDC are 12694 and SBPDCL at 7503. Accordingly, the no. of substations and no. of consumers is considered as given below.

Particulars	NBPDC	SBPDCL
No. of substations (Format 7)	633	615
No. of consumers (in 1000) (Format 7)	12694	7503

The Commission in terms of regulation 22.1 has computed the employee expenses considering the base value of norms (no. of personnel per substation and no of personnel per 1000 consumers), no. of Substations, no. of consumers and annual expenses per personnel for FY 2023-24 in truing up as given below:

Table 4.66: Normative Employee expenses computed for FY 2023-24 (Rs. Crore)

Sl. No	Particulars	NBPDCCL			SBPDCL		
		Base value of norm	FY 2022-23 approved value	Normative expenses computed in truing up of FY 2023-24	Base value of norm	FY 2022-23 approved value	Normative expenses computed in truing up of FY 2023-24
1	Average annual CPI index			5.40%			5.40%
2	Norms-Number of personnel per 1000 consumers	0.0629	0.0629	0.0629	0.1504	0.1504	0.1504
3	Norms-Number of personal per substation	6.7650	6.7650	6.7650	9.4117	9.4117	9.4117
4	No. of consumers (1000)			12694			7503
5	No of substations			633			615
6	Annual expenses per personnel (Rs. Crore)	0.0854	0.0904	0.095	0.09140	0.09678	0.10201
7	Employee cost per 1000 consumers			76.10			115.11
8	Employee cost per substation			408.16			590.44
9	Total Employee cost			484.26			705.55

Sharing of Gain/(Loss) on account of controllable factors:

The Commission, in its Tariff Order dated 23.03.2023, has approved employee expenses of Rs. 481.29 crore for NBPDCCL and Rs.710.44 crore for SBPDCL for FY 2023-24.

Regulation 9.2 (e) of BERC (Multi Year Distribution Tariff) Regulations 2021 specify that the controllable factors shall comprise but not limited to the following factors which are within the control of, and are attributable to the applicant (e)variations in operation and maintenance expenses, except those attributable to directions of the Commission or to change in Government policy/law.

The Commission observes that the Discoms have not claimed any uncontrollable expenses towards change in law, etc. The Discoms have considered the variation in

employee expenses as controllable factor.

According, as per the audited annual accounts for FY 2023-24, the employee expenses are at Rs. 482.67 crore for NBPDC & Rs. 690.58 crore for SBPDCL.

Therefore, the Commission has considered sharing of gains/(losses) on account of variation in actual employee expenses incurred vis-à-vis normative employee expenses approved in true up for FY 2023-24 as given in the table below.

Table 4.67: Gains/(Loss) on account of Employee expenses for FY 2023-24 (Rs. Crore)

Name of the Discom	Actual employee expenses for FY 2023-24	Normative employee expenses computed in True up	Deviation	Gain/(Loss) due to Controllable Factors	Gain/(Loss) due to Uncontrollable Factors
NBPDC	482.67	484.26	1.59	1.59	-
SBPDCL	690.58	705.55	14.97	14.97	-

4.15.2 Repairs and Maintenance (R&M) Expenses

Petitioners' submission:

Discoms have submitted that R&M expenses are claimed as a percentage of GFA excluding land cost in terms of Regulation 22.2 of BERC (Multi Year Distribution Tariff) Regulations 2021. It was submitted that the Commission had determined R&M norm i.e. K factor at 1.24% for NBPDC & 1.71% for SBPDCL for the MYT control period of FY 2022-23 to FY 2024-25 in the Tariff Order dated 25.03.2022 and accordingly the R&M expenses were claimed as per norm in truing up for FY 2023-24 by the Discoms as given in the table below:

Table 4.68: Repairs and Maintenance expenses claimed for FY 2023-24 (Rs. Crore)

Particulars	Claimed in truing up by NBPDC	Claimed in truing up by SBPDCL	Total
Opening GFA	22532.16	17558.67	40090.83
Less: Opening land cost	1047.36	1546.28	2593.64
Opening GFA (excl. land cost)	21484.79	16012.39	37497.18

Particulars	Claimed in truing up by NBPDCCL	Claimed in truing up by SBPDCL	Total
K factor	1.24%	1.71%	
R&M expenses	266.41	273.81	540.22

The Discoms have proposed the gains/(loss) on account of R&M expenses for FY 2023-24 as given in the table below:

Table 4.69: Gains/(Loss) on account off R&M expenses for FY 2023-24 (Rs. Crore)

Name of the Discom	Approved in the Tariff Order for FY 2021-22	Actual Claimed in Truing up	Gains/ (Loss)	Gain/(Loss) due to Controllable Factors to be absorbed by the licensee	Pass through on account of Uncontrollable Factors
NBPDCCL	264.65	266.41	(1.76)	1.17	0.59
SBPDCL	274.21	273.81	0.40	(0.13)	(0.27)

Commission's analysis

As per MYT Regulation 2021, clause no. 22.2 specifies, R&M expenses shall be calculated as per the norm determined of Opening Gross Fixed Assets excluding land cost for year governed by following formulae:

$$R\&M_n = K_b * GFAn$$

Where:

R&M_n : Repairs & Maintenance expense for nth year

GFAn : Opening Gross Fixed Assets for nth year

K_b : Percentage point as per the norm"

The Commission, in terms of regulation 22(b) of the BERC (Multi Year Distribution Tariff) Regulations 2021, has approved 'K' factor at 1.24% for NBPDCCL and 1.71% for SBPDCL for the MYT control period of FY 2022-23 to FY 2024-25 in Tariff order dated 25.03.2022.

The Commission accordingly considers 'K' factor approved in Tariff order dated

25.03.2022 for FY 2023-24 and approves R&M expenses on opening GFA as detailed in the table below:

Table 4.70: Normative R&M expenses computed for FY 2023-24 (Rs. Crore)

Sl. No.	Particulars	Approved in true up for NBPDCCL	Approved in true up for SBPDCL	Total
1	Opening GFA (excl. land) for FY 2023-24 (as per closing depreciable assets approved in true up for FY 2022-23, table- 4.50)	20981.21	15132.41	36113.62
2	'K' factor	1.24%	1.71%	
3	R & M Cost (1*2)	260.17	258.76	518.93

Sharing of Gain/(Loss) on account of controllable factors:

The Commission, in Tariff Order dated 23.03.2023, has approved R&M expenses of Rs. 264.65 crore for NBPDCCL and Rs. 274.21 crore for SBPDCL for FY 2023-24.

Regulation 9.2 (e) of BERC (Multi Year Distribution Tariff) Regulations 2021 specify; variations in R&M expenses, except those attributable to directions of the Commission or to change in Government policy/law. The R&M expenses is a component of O&M expenses and the O&M expenses is controllable factor. The Discoms have also considered the variation in R&M expenses as controllable factor.

According to the audited annual accounts for FY 2023-24, the R&M expenses are at Rs. 263.26 crore for NBPDCCL (includes operation expenses- smart meter of Rs. 45.61 Cr.) and Rs. 290.58 crore for SBPDCL. The Commission after due prudence check considers the actual R&M expenses as reported in the annual accounts for FY 2023-24 excluding the operational expenses attributed to Smart meters.

The Commission, accordingly has considered sharing of gains/(losses) on account of variation in actual R&M expenses vis-à-vis R&M expenses approved in true up for FY 2023-24 as given in the table below.

Table 4.71: Gains/(Loss) on account of R&M expenses for FY 2023-24 (Rs. Crore)

Name of the Discom	Actual R&M expenses for FY 2023-24	Normative R&M expenses computed in True up	Deviation	Gain/(Loss) due to Controllable Factors	Gain/(Loss) due to Uncontrollable Factors
NBPDC	217.65*	260.17	42.52	42.52	-
SBPDCL	290.58	258.76	-31.82	-31.82	-

*Excludes operation expenses- smart meter of Rs. 45.61 Cr from actual R&M expenses of Rs 263.26 Cr, as mentioned under Audited Account for FY 2023-24.

4.15.3 Administrative and General (A&G) Expenses

Petitioners' submission

Discoms have submitted that A&G expenses are claimed based on norms determined by the Commission as per the Regulation 22.2 of BERC (Multi Year Distribution Tariff) Regulations 2021. It was submitted that the Commission had determined A&G expense norm for the MYT control period of FY 2022-23 to FY 2024-25 in the Tariff Order dated 25.03.2022 as given below:

Table 4.72: A&G expense norm approved for NBPDC & SBPDCL in TO dated 25.03.2022 for the control period of FY 2022-23 to FY 2024-25

Particulars	Base A&G expense norm for NBPDC	Base A&G expense norm for SBPDCL
No. of personnel per 1000 consumers	0.4200	1.0000
A&G expenses per personal	0.360	0.850
Annual expenses per 1000 consumers (Rs. Crore)	0.0077	0.0099
A&G expenses per employee (Rs. Crore)	0.0225	0.0121

Regulation 22.3 specifies A&G expenses shall be computed as per the approved norm escalated by wholesale price index (WPI). The WPI inflation shall be considered based on the average increase in WPI for immediately preceding three years. The WPI inflationary increase for FY 2023-24 is computed as given below:

Table 4.73: WPI inflationary increase for FY 2023-24

Particulars	2019-20	2020-21	2021-22	2022-23
Average WPI index points for FY	121.80	123.38	139.41	152.38
Increase in WPI index over the previous year		1.29%	13.00%	9.30%
Average WPI inflationary increase				7.86%

In addition to the normative A&G expense of Rs. 215.53 Crore as computed above; the petitioner has additionally claimed rental charges for smart prepaid meter to the extent of Rs. 103.67 crores based on monthly rental per meter and the consideration of number of meter installed.

The Petitioner has considered the monthly rental of Rs. 86.23 per meter which is as per the order of the Commission in Case No. 05/2020. These expenses were not taken into account as the time of computation of A&G norm for the MYT control period of FY 2022-23 to FY 2024-25 in the Tariff Order dated 25.03.2022. The detailed calculation for Rs. 103.67 Crore on account of the rental charge is provided below:

Phase 1: The total number of smart meters proposed to be installed under phase 1 is 23,50,000 out which 10.30 lakhs belongs to NBPDCCL and 13.20 lakhs belongs to SBPDCL. The total smart meters under Phase 1 are under Opex mode which will be booked under A&G expenses:

Smart Prepaid Meters under A&G expense	Month	NBPDCCL			SBPDCL		
		Meters installed	Monthly Meter Rent	Total A&G cost	Meters installed	Monthly Meter Rent	Total A&G cost
Phase I: 23.5 lakhs NBPDCCL 10.30 Lakhs SBPDCL 13.2 Lakhs	Op. Balance	567226	86.23	58.69	723088	86.23	74.82
	April	18087	86.23	1.72	20651	86.23	1.96
	May	19632	86.23	1.69	17210	86.23	1.48
	June	14559	86.23	1.13	17742	86.23	1.38
	July	10277	86.23	0.71	19539	86.23	1.35
	August	11894	86.23	0.72	21712	86.23	1.31
	September	8204	86.23	0.42	25580	86.23	1.32
	October	8712	86.23	0.38	5408	86.23	0.23
	November	4179	86.23	0.14	10805	86.23	0.37
	December	3747	86.23	0.10	7849	86.23	0.20
	January	4428	86.23	0.08	5207	86.23	0.09

	February	13790	86.23	0.12	17939	86.23	0.15
	March	7236	86.23	-	19149	86.23	-
Total		691971		65.90	911879		84.68

Phase-II:

(i) Under phase-II, 36 lakhs of smart prepaid meters are scheduled to be installed across the Bihar by the end of March-2024. In Phase-II smart prepaid meters are scheduled to be installed under hybrid mode i.e., CAPEX + OPEX mode in the ratio of 70:30.

(ii) 26 lakhs smart prepaid meters are scheduled to be installed in NBPDC & 10 lakhs smart prepaid meters are scheduled to be installed in SBPDCL and .

Below table shows the expected expenditure under the OPEX mode for installation of 26 lakhs smart meter:

Smart Prepaid Meters under A&G expenses	Month	NBPDC			SBPDCL		
		Meters installed	Monthly Meter Rent	Total A&G cost	Meters installed	Monthly Meter Rent	Total A&G cost
Phase II: Total 36 lakhs NBPDC 26 Lakhs (70% Opex) SBPDCL 10 lakhs (70% Opex)	Op. Balance	43521	79.49	4.15	14215	70.60	1.20
	April	34290	79.49	3.00	3888	70.60	0.30
	May	33313	79.49	2.65	11734	70.60	0.83
	June	31173	79.49	2.23	7469	70.60	0.47
	July	64967	79.49	4.13	15480	70.60	0.87
	August	72952	79.49	4.06	20367	70.60	1.01
	September	85350	79.49	4.07	16838	70.60	0.71
	October	105884	79.49	4.21	18157	70.60	0.64
	November	93105	79.49	2.96	34473	70.60	0.97
	December	137623	79.49	3.28	57138	70.60	1.21
	January	124540	79.49	1.98	79723	70.60	1.13
	February	133080	79.49	1.06	63973	70.60	0.45
	March	91683	79.49	-	64504	70.60	-
Total		1051481		37.78	407959		9.81

Accordingly, the total rental charges for smart prepaid meter in FY 2023-24 is shown in the table below:

Table 4.74: Rental charges for smart prepaid meters claimed by DISCOMs for FY 2023-24

Particulars	NBPDC	SBPDCL
Rent Charges for Smart Prepaid Meter (Phase 1) 23.5 Lakhs	65.90	84.68
Rent Charges for Smart Prepaid Meter (Phase 2) 36 Lakhs- 70% Opex	37.78	9.81
Rent Charges for Smart Prepaid Meter (Phase 3) 1.12 crores- 70% Opex	-	0.01
Total Rental Charges	103.67	94.49

Discoms, accordingly have claimed total A&G expenses in truing up for FY 2023-24 as given in the table below:

Table 4.75: Administration and General Expenses claimed for FY 2023-24 (Rs. Crore)

Sl. No.	Particulars	NBPDCCL			SBPDCL		
		Approved in ARR	Actual		Approved in ARR	Actual	
			Base Value	2023-24		Base Value	2023-24
1	Average annual WPI index	5.32%		7.86%	5.32%		7.86%
2	Norms-A&G expenses per 1000 consumers	0.4200	0.4200	0.4200	1.000	1.000	1.000
3	No. of consumers (1000)	12041		12694	7043		7503
4	No. of employees	4645		4088	5805		5638
5	Annual expenses per 1000 consumers (Rs. Cr)	0.00854	0.0077	0.00875	0.01098	0.0099	0.01125
6	Annual expenses per employee (Rs. Cr)	0.02496	0.0225	0.02556	0.01342	0.0121	0.01375
7	A&G cost per 1000 consumers	102.84		111.04	77.34		84.38
8	A&G cost per employees	115.93		104.49	77.91		77.50
9	Normative A&G cost	218.77		215.53	155.25		161.88
10	Rental charges for smart prepaid meter	-		103.67	-		94.49
11	Total A&G cost	218.77		319.20	155.35		256.37

The Discoms have proposed the gains/(loss) on account of A&G expenses for FY 2023-24 as given in the table below:

Table 4.76: Gains/(Loss) on account of A&G expenses for FY 2023-24 (Rs. Crore)

Name of the Discom	Approved in the Tariff Order dated 23.03.2023	Claimed in Truing up	Gains/ (Loss) Deviation	Gain/(Loss) due to Controllable Factors to be absorbed by the licensee	Pass through on account of Uncontrollable Factors
NBPDC	218.77	215.53	3.24	(1.08)	(2.16)
SBPDCL	155.35	161.88	(6.63)	4.42	2.21

Commission analysis:

The Commission in Tariff Order dated 25.03.2022 had determined the A&G expense norms (in accordance with the regulation 22 and regulation 22.1) and accordingly allowed the A&G expenses based on the norms for the MYT control period of FY 2022-23 to FY 2024-25.

The Commission has considered the base value of A&G expense norm per 1000 consumers and A&G expense per employee and annual A&G expenses per 1000 consumers as determined for FY 2023-24 in the Tariff Order dated 25.03.2022 as detailed in the table below:

Table 4.77: A&G expense norm approved for NBPDC & SBPDCL in TO dated 25.03.2022

Particulars	Base A&G expense norm for NBPDC	Base A&G expense norm for SBPDCL
No. of personnel per 1000 consumers	0.4200	1.0000
Annual expenses per 1000 consumers (Rs. Crore)	0.0077	0.0099
A&G expenses per employee (Rs. Crore)	0.0225	0.0121

Regulation 22.3 specifies that A&G expenses shall be computed as per the approved norms escalated by wholesale price index (WPI). The WPI inflation shall be considered based on the average increase in WPI for immediately preceding three years. The WPI inflationary increase for FY 2023-24 based on WPI inflation of past three years is computed as given below:

Table 4.78: WPI inflationary increase for FY 2023-24

Particulars	2019-20	2020-21	2021-22	2022-23
Average WPI index points for FY	121.80	123.38	139.41	152.53
Increase in WPI index over the previous year	1.68%	1.29%	13.00%	9.41%
Average WPI inflationary increase				7.90%

Annual expenses per 1000 consumers and annual expenses per employee for FY 2023-24 is approved by escalating the said norms approved for FY 2022-23 in FY 2022-23 true-up order. The Commission in terms of regulation 22.3 has computed the A&G expenses considering the base value of norms, no. of employees and no. of consumers for FY 2023-24 in truing up as given below:

Table 4.79: Normative A&G expenses computed for FY 2023-24 (Rs. Crore)

Sl. No.	Particulars	NBPDC			SBPDCL		
		Base value of norm	FY 2022-23 approved value	Normative expenses computed in truing up for NBPDC	Base value of norm	FY 2022-23 approved value	Normative expenses computed in truing up for SBPDCL
1	Average annual WPI index			7.90%			7.90%
2	Norms- A&G expenses per 1000 consumers	0.4200	0.4200	0.4200	1.00	1.00	1.00
3	No. of consumers (1000)			12,694			7,503
4	No of employees			4088			5638
5	Annual expenses per 1000 consumers (Rs. Crore)	0.0077	0.00811	0.00875	0.0099	0.01043	0.0113
6	Annual expenses per employee (Rs. Crore)	0.0225	0.02370	0.02557	0.0121	0.01274	0.0137
7	A&G cost for 1000 consumers (3*5)			111.08			84.44
8	A&G cost			104.54			77.50

Sl. No.	Particulars	NBPDCCL			SBPDCL		
		Base value of norm	FY 2022-23 approved value	Normative expenses computed in truing up for NBPDCCL	Base value of norm	FY 2022-23 approved value	Normative expenses computed in truing up for SBPDCL
	for employees (4*6)						
9	Total A&G expenses (7+8) (Rs. Crore)			215.62			161.94

The Commission vide order dated 25.04.2023 in Case no.05/2020 has accorded approval for Smart Metering Project for single & three phase whole current meters for urban areas (IPDS Towns), rural areas single & three phase whole current meters for metered consumers of NDS and LTIS categories, unmetered consumers, agriculture consumers & connection under Har Ghar Nal Jal Yojana and Recovery of Smart Metering Cost and Expenses. Under Phase I of the scheme, installation of 23.50 Lacs Smart Pre-Paid Meters is allowed, at a monthly meter rent of Rs.86.23/-, subject to variation on account of budgetary support for smart metering project to be received from Government and any change in cost, information and quantitative data, which are basis of derivation of such monthly meter charges for the eight years of project life.

The Commission vide orders dated **28.04.2023 in Case no.26/2022** (NBPDCCL) and in **Case no.27/2022** (SBPDCL) has accorded in-principal approval for implementation of Phase II and Phase III Smart Metering Project.

However, the rental charges have not been determined by the Commission. In the said order, Discoms were directed to file a separate petition for approval of rental charges in respect of Phase II and Phase III smart prepaid meters project. The Commission raise this issue with the petitioners in Technical Validation Session held on 29.01.2025 . The petitioner in its reply to TVS queries submitted that Smart metering implementation program has been emphasized by the Ministry of Power and BERC, which is guided by rules and regulations framed by MoP and CEA and as such no separate approval of Commission is required.

The petitioner further submitted that in its ARR Petition for FY 2023-24 via case no. 16 & 17 of 2022 had claimed the OPEX expenses of Rs. 70.69 Crore and Rs. 25.70 Crore for Phase II and Rs. 9.29 Crore and Rs. 3.99 Crore in Phase III for FY 2023-24 for NBPDCCL and SBPDCL respectively. Accordingly, the Hon'ble Commission in its order dated 23rd March 2023 in case no. 16 & 17 of 2022 had approved A&G expenses with the following observation.

*“The Commission **has not considered the rental charges** for smart prepaid meters since the capex and opex of the said scheme has not yet been approved. However, the said expenses shall be considered in truing up based on actual expenses reported through audited accounts due prudence check and validation”.*

The petitioners further submitted that the Hon'ble Commission in its tariff order for FY 2024-25 dated 01st March 2024 has considered the rental charges for smart prepaid meters for FY 2024-25 under A&G head with the following observation.

*“The Commission **provisionally considers** the rental charges for smart prepaid meters as projected by the Discoms subject truing up based on actual expenses reported through audited accounts vis-à-vis actual no. of smart prepaid meters installed under OPEX modal due prudence check and **validation as directed in Case No 05/2020, Case No 26/2022 and Case No 27/2022.**”*

The Commission notes that in FY 2023-24 tariff order the Opex expenses claimed by the petitioners was not approved by the Commission on the ground that the capex and opex of the said scheme had not yet been approved by the Commission Subsequently , during review of FY 2023-24 in FY 2024-25 order , the Commission has provisionally **considered** the rental charges for smart prepaid meters as projected by the Discoms subject to truing up and more importantly validation as directed in **Case No 26/2022 and Case No 27/2022.**

As such, the Commission is maintaining consistency in its approach while dealing with the Opex charges of Phase II and Phase III during FY 2023-24 tariff order and during review of FY 2023-24 in FY 2024-25 Tariff order . The Commission do not find any merit in the submission of the petitioner that the Commission's approval for Opex

charges / meter rent charges for Phase II and III is not required.

The Commission notes that smart meter rental expenses for Phase I , Phase II & Phase II have been paid by the Petitioners as shown in the Audited Account for FY 2023-24. However, since the petitioners have incurred the expenses pertaining to Phase II and Phase III without prior approval, the Commission therefore deem it fit to allow 75% of the meter rental charges pertaining to Phase II and Phase III as pass through in Trueing up of FY 2023-24. The Commission decided to allow Meter rental expenses for Phase I of the scheme as proposed by the petitioner as the meter rental charges for Phase I has been approved by the Commission.

The rental charges approved for FY 2023-24 is given below.

Table 4.80 Rental charges on smart prepaid meters approved for FY 2023-24

Particulars	A&G expenses approved in trueing up for NBPDCCL	A&G expenses approved in trueing up for SBPDCL	Total
Rental charges for smart prepaid meters Phase I	65.9	84.68	150.58
Rental charges for smart prepaid meters Phase II (75% of the claimed amount)	28.34	7.36	35.69
Rental charges for smart prepaid meters Phase III for FY 2023-24(75% of the claimed amount)	0	0	0
Rental charges for smart prepaid meters approved for FY 2023-24	94.24	92.04	186.27

Based on the above discussion, the Commission thus approves total A&G expenses for FY 2023-24 in true up as given in the table below:

Table 4.81 Total A&G expenses approved for FY 2023-24

Sl.	Particulars	A&G expenses approved in truing up for NBPDCCL	A&G expenses approved in truing up for SBPDCL	Total
1	Normative A&G expenses approved	215.62	161.94	377.56
2	Rental charges for smart prepaid meters	94.24	92.04	186.27
3	Total A&G expenses	309.85	253.98	563.83

Sharing of Gain/(Loss) on account of controllable factors:

The Commission, in Tariff Order dated 23.03.2023, has approved A&G expenses of Rs. 218.77 crore for NBPDCCL and Rs. 155.25 crore for SBPDCL for FY 2023-24.

As per regulation 9.2 (e) of BERC (Multi Year Distribution Tariff) Regulations 2021, variations in operation and maintenance expenses, except those attributable to directions of the Commission or to change in Government policy/law are controllable. The Commission observes that the Discoms have not claimed any uncontrollable expenses towards change in law, etc. The Discoms have considered the variation in A&G expenses as controllable factor.

According to the audited annual accounts for FY 2023-24, the A&G expenses (without smart meter expenses) are at Rs. 354.35 crore for NBPDCCL and Rs. 294.60 crore for SBPDCL. The Commission after due prudence check considers the actual A&G expenses as reported in the annual accounts for FY 2023-24 as given below:

Table 4.82: Actual A&G expenses considered for sharing of Loss/(Gains) for FY 2023-24

Sl. No.	Particulars	NBPDCCL	SBPDCL	Remarks
1	A&G expenses as per audited accounts for FY 2023-24	415.57	397.95	
	Less:			
2	Rental charges for smart prepaid Meters	61.22	103.35	Considered separately
7	Total A&G expenses	354.35	294.60	

The Commission has approved the normative A&G expenses (without smart meter rent expenses) at Rs. 215.62 crore for NBPDCCL and Rs. 161.94 crore for SBPDCL in true up for FY 2023-24. The Rental charges for Prepaid smart meters are considered separately as they are not part of norms and normative A&G expenses.

Accordingly, the Commission has considered sharing of gains/(losses) on account of variation in A&G expenses actual vis-à-vis normative in true-up for FY 2023-24 as given in the table below:

Table 4.83: Gains/(Loss) on account of A&G expenses for FY 2023-24 (Rs. Crore)

Name of the Discom	Actual A&G expenses (without smart meter rental) for FY 2023-24	Normative A&G expenses approved in True up	Deviation	Gain/(Loss) due to Controllable Factors	Gain/(Loss) due to Uncontrollable Factors
NBPDCCL	354.35	215.62	-138.73	-138.73	
SBPDCL	294.60	161.94	-132.66	-132.66	

4.16. Total O & M expenses

On account of Gain/(loss), the Commission has approved the gain/(loss) of O&M expenses for true-up of FY 2023-24 as given below:

Table 4.84:Gains/(Loss) on account of O&M expenses for FY 2023-24 approved for NBPDCCL (Rs. Crore)

SN	Particulars	Actual expenses considered as per accounts for FY 2023-24	Normative expenses computed in trueing up	Deviation Gains / (loss)	Controllable	Uncontrollable	2/3rd Gain or 1/3rd (Loss) of controllable expenses to be passed on to Consumers	1/3rd Gain or 2/3rd (Loss) controllable expenses to be absorbed by licensee
1	Employee expenses	482.67	484.26	1.59	1.59		1.06	0.53
2	R&M expenses	217.65	260.17	42.52	42.52		28.34	14.17
3	A&G expenses	354.35	215.62	138.73	-138.73		-46.24	-92.49
	Total O&M expenses	1054.67	960.05	-94.62	-94.62	0.00	-16.84	-77.78

Table 4.85: Gains/(Loss) on account of O&M expenses for FY 2023-24 approved for SBPDCL (Rs. Crore)

Sl. No.	Particulars	Actual expenses considered as per accounts for FY 2023-24	Normative expenses computed in true up	Deviation Gains / (loss)	Controllable	Uncontrollable	2/3rd Gain or 1/3rd (Loss) of controllable expenses to be passed on to Consumers	1/3rd Gain or 2/3rd (Loss) controllable expenses to be absorbed by licensee
1	Employee expenses	690.58	705.55	14.97	14.97		9.98	4.99
2	R&M expenses	290.58	258.76	-31.82	-31.82		-10.61	-21.21
3	A&G expenses	294.60	161.94	-132.66	-132.66		-44.22	-88.44
	Total O&M expenses	1275.76	1126.25	-149.51	-149.51	0.00	-44.85	-104.66

Summary of O & M expenses:

The summary of O&M expenses approved for FY 2023-24 in true up are as detailed in the table below:

Table 4.86: Summary of O & M expenses approved for FY 2023-24 in true up (Rs. Crore)

Sl. No.	Particulars	NBPDC		SBPDCL	
		Actual expenses considered as per accounts for FY 2023-24	Normative expenses approved in true up	Actual expenses considered as per accounts for FY 2023-24	Normative expenses approved in true up
1	Employee expenses	482.67	484.26	690.58	705.55
2	R&M expenses	217.65	260.17	290.58	258.76
3	A&G expenses	354.35*	215.62*	294.60*	161.94*
4	Total O&M expenses	1054.67	960.05	1275.76	1126.25

*Excluding smart prepaid meter rental charges

4.17. Holding Company Expenses**Petitioners' submission**

Discoms have submitted that Holding Company expenses for FY 2023-24 are claimed as per the provisions of Transfer Scheme, 2012 and the actual claim based on the audit accounts as furnished are given below:

Table 4.87: Holding Company Expenses claimed for FY 2023-24 (Rs. Crore)

Particulars	Claimed by NBPDC in truing up	Claimed by SBPDCL in truing up	Total
Holding company expenses	34.12	34.73	68.85

The Discoms have proposed the gains/(loss) on account of holding company expenses for FY 2023-24 as given in the table below:

Table 4.88: Gains/(Loss) on account of holding company expenses for FY 2023-24 (Rs. Crore)

Name of the Discom	Approved in the Tariff Order for FY 2021-22	Actual Claimed in Truing up	Gains/(Loss)	Gain/(Loss) due to uncontrollable Factors to be absorbed by the licensee	Pass through on account of Uncontrollable Factors
NBPDC	25.28	34.12	(8.84)		8.84
SBPDCL	26.59	34.73	(8.14)		8.14

Commission's analysis:

The Bihar State Electricity Reforms Transfer Scheme, 2012 Schedule 'D' Holding undertaking Part-III defines the Functions and Duties of Bihar State Power (Holding) Company Limited. As per Clause (i) of the schedule 'D', the Holding Company shall handle all issues relating to the subsidiary companies in respect of business of purchasing, importing, exporting and trading of power subject to the provision of Electricity Act, 2003 and to supply electric power generated by other plants to transmission companies, distribution companies, trading companies, other generation companies and other persons, and in this regard execute agreements with Central and State Generating authorities, departments or companies,

independent Power Producers and other persons. Schedule 'F' specifies, the Holding Company shall handle all issues relating to the subsidiary companies in respect of "Common Services". BSPHCL provides common services to all the segregated entities. Clause (i) of the Schedule-D of the Bihar State Electricity Reforms Transfer Scheme, 2012, also states the operating expenses of BSPHCL (Holding Company) shall be shared between all the subsidiary Companies in the ratio of their respective equity.

NBPDC & SBPDCL have claimed the holding company expenses of Rs. 34.12 Crore and Rs. 34.73 Crore in truing up for FY 2023-24 based on the audited accounts.

The Commission asked the Discoms to provide the details of type of expenses for Holding Company paid by Discoms. It has been observed from the Petitioner's response dated 31.01.2025, *"the Petitioner currently do not maintain a detailed head-wise breakup of holding company expenses."*

The Commission therefore in terms of Bihar State Electricity Reforms Transfer Scheme 2012 has considered the holding company expenses based on audited accounts for FY 2023-24 as detailed in the table below:

Table 4.89: Holding Company expenses approved for FY 2023-24 (Rs. Crore)

Particulars	Approved in truing up for NBPDC	Approved in truing up for SBPDCL	Total
Holding Company Expenses	34.12	34.73	68.85

Sharing of Gain/(Loss) on account of controllable factors:

The Commission, in Tariff Order dated 23.03.2023, has approved holding company expenses of Rs. 22.55 crore for NBPDC & Rs. 23.71 crore for SBPDCL for FY 2023-24.

Regulation 9.2 (e) of BERC (Multi Year Distribution Tariff) Regulations 2021 specify; variations in operation and maintenance expenses, except those attributable to directions of the Commission or to change in Government policy/law. The petitioners

have submitted that as per the Clause (i) of the Schedule-D of the Bihar State Electricity Reforms Transfer Scheme 2012, the operating expenses of BSPHCL (Holding Company) shall be shared between all the subsidiary Companies in the ratio of their respective equity. Hence the expenses allocated to Discoms are beyond the control of the companies as these are incurred by BSPHCL.

The Commission, accordingly does not consider sharing of gains/(losses) on account of variation in holding company expenses for FY 2023-24.

4.18. Interest on Security Deposit

Petitioners' submission

Discoms have submitted that section 47(1) (a) of the Electricity Act, 2003 specifies that any person who requires a supply of electricity to give reasonable security in respect of the electricity supplied to such person. BERC Supply Code Regulations 2007 specifies that the distribution licensee shall pay interest at the RBI Bank rate, applicable on security deposits taken from the consumers. The interest amount of previous financial year shall be adjusted in the energy bill issued in May/June of each financial year depending on billing cycle.

The BERC (Multi Year Distribution Tariff) Regulations 2021, Regulation 26 (iii) specifies that *“Provided further that interest shall be allowed on consumer security deposits and security deposits from Distribution system users held during the year at the Bank Rate as of the date on which the petition for determination of tariff is accepted by the Commission”*.

The Discoms have submitted that as per the regulations interest on consumer's security deposit is being passed on to the consumers. Discoms have claimed interest on security deposit for FY 2023-24 as details in the table below:

Table 4.90: Interest on security deposit claimed for FY 2023-24 (Rs. Crore)

Sl. No.	Particulars	Claimed by NBPDCCL in truing up	Claimed by SBPDCL in truing up
1	Opening balance of interest payable to consumers	171.20	278.39
2	Interest payable during FY 2023-24	31.49	54.11
3	Sub-total (1+2)	202.68	332.50
4	Closing balance of interest payable to consumers	198.38	314.98
5	Interest actually paid to consumers (3-4)	4.31	17.52

The Discoms have proposed the gains/(loss) on account of interest on consumer security deposits for FY 2023-24 as given in the table below:

Table 4.91: Gains/(Loss) on account of interest on consumer security deposits for FY 2023-24 (Rs. Crore)

Name of the Discom	Approved in the Tariff Order for FY 2023-24	Actual Claimed in Truing up	Gains/(Loss)	Gain/(Loss) due to Controllable Factors to be absorbed by the licensee	Pass through on account of uncontrollable factors
NBPDCCL	23.29	4.31	18.98	-	(18.98)
SBPDCL	40.88	17.52	23.36	-	(23.36)

Commission's analysis

It has been observed that Section 47(1)(a) of the Electricity Act, 2003 specifies that *any person who requires a supply of electricity to give reasonable security in respect of the electricity supplied to such person.*

Further, BERC Supply Code Regulations 2007 specifies that the distribution licensee shall pay interest at the RBI Bank rate, applicable on security deposits taken from the consumers. The interest amount of previous financial year shall be adjusted in the energy bill issued in May/June of each financial year depending on billing cycle.

The BERC (Multi Year Distribution Tariff) Regulations 2021, Regulation 26 (iii) specifies that *“Provided further that interest shall be allowed on consumer security deposits and security deposits from Distribution system users held during the year at the Bank Rate*

as of the date on which the petition for determination of tariff is filed”.

According to the audited accounts for FY 2023-24, the interest amount on consumer security deposit is at Rs. 31.49 crore for NBPDCCL and Rs. 54.11 crore for SBPDCL.

The Commission observes that Discoms have made provision towards interest on security deposit to consumers in the accounts and actually not passed on to the consumers and hence not considered as pass through in the ARR in true up for FY 2023-24. As such, the Commission considers actual interest payment to the consumers in true up for FY 2023-24 as detailed hereunder:

Table 4.92: Interest on SD to the consumers (Rs. Crore)

Sl. No.	Particulars	NBPDCCL	SBPDCL	Total
1	Opening balance of interest payable to consumers (Note 20 (NBPDCCL) & Note 19 (SBPDCL)-Other current liabilities of the annual accounts)	171.2	278.4	449.6
2	Interest payable during FY 2023-24 (Note 29 of NBPDCCL and Note 29 of SBPDCL annual accounts)	31.49	54.11	85.6
3	Sub-total (1+2)	202.69	332.51	535.2
4	Closing balance of interest payable to consumers (Note 20 (NBPDCCL) & Note 19 (SBPDCL)-Other current liabilities of the annual accounts)	198.37	314.98	513.35
5	Interest actually paid to consumers (3-4)	4.32	17.53	21.85

The Commission, accordingly, considers the interest on consumers' security deposit for FY 2023-24 in truing up as given in the table below:

Table 4.93: Interest on security deposit approved for FY 2023-24 (Rs. Crore)

Particulars	Approved for NBPDC in trueing up	Approved for SBPDCL in trueing up	Total
Interest on Security Deposit	4.32	17.53	21.85

The Commission approves interest on Consumer's Security Deposit for FY 2023-24 as Rs. 4.32 Cr for NBPDC and Rs. 17.53 Cr. for SBPDCL in true up.

Sharing of Gain/(Loss) on account of controllable factors:

The Commission, in Tariff Order dated 23.03.2023, has approved interest on consumer Security Deposit of Rs. 23.29 crore for NBPDC and Rs. 40.88 crore for SBPDCL for FY 2023-24.

Regulation 9.2 (d) of BERC (Multi Year Distribution Tariff) Regulations 2021 specify that variations in metered sales i.e. sale of power to consumers as uncontrollable factor.

The Commission, accordingly has considered sharing of gains/(losses) on account of variation in interest on consumer's security deposit approved vis-à-vis trueed up for FY 2023-24 as given in the table below.

Table 4.94: Gains/(Loss) on account of interest on consumers security deposit for FY 2023-24 (Rs. Crore)

Name of the Discom	Approved in the Tariff Order for FY 2023-24 dated 23.03.2023	Approved in Trueing up	Deviation	Gain/(Loss) due to Controllable Factors	Gain/(Loss) due to Uncontrollable Factors
NBPDC	23.29	4.32	18.97		18.97
SBPDCL	40.88	17.53	23.35		23.35

4.19. Non-Tariff Income

Petitioners' submission:

Discoms have claimed non-tariff income for FY 2023-24 as detailed in the table below:

Table 4.95: Non-tariff Income claimed for FY 2023-24 (Rs. Crore)

Sl. No.	Particulars	NBPDCCL		SBPDCL	
		Approved in ARR FY 2023-24	Claimed in truing up for FY 2023-24	Approved in ARR FY 2023-24	Claimed in truing up for FY 2023-24
1	Interest on Advances to Suppliers/Contractors	-	19.91	-	30.66
2	Interest on Saving Accounts	-	17.03	-	41.09
3	Interest on Staff Loan & Advances	-	22.61	-	0.01
4	Interest Income	-	59.55	-	71.76
5	Delayed Payment Surcharge from Consumers	-	518.78	-	79.60
6	Income from sale of Tender paper	-	1.06	-	
7	Miscellaneous Receipts	-	0.67	-	7.83
9	Rebate and Discount Received	-	10.87	-	-29.37
10	SCED Benefits	-	25.02	-	
11	Consumer Contribution Income	-	4.08	-	3.04
12	Rental Income	-	1.20	-	2.41
13	Income from sale of scrap	-	16.90	-	25.08
14	Supervision Charges	-	28.55	-	25.93
15	Incentive on REC Purchase	-	0.75	-	
16	Rebate under RDSS	-	8.21	-	7.69
17	Incentive for GCRT	-	0.90	-	2.35
18	Miscellaneous charges from Consumers	-	74.35	-	103.68
19	Meter rent / service line rental	-	2.43	-	2.35
20	Other income	-	693.78	-	187.86
21	Excess provision written back	-	158.66	-	
22	Penalty Charge	-	109.73	-	
23	Others	-	268.38	-	108.17
24	Total Non-tariff income	1175.54	1021.71	771.27	367.78

Sl. No.	Particulars	NBPDCCL		SBPDCL	
		Approved in ARR FY 2023-24	Claimed in truing up for FY 2023-24	Approved in ARR FY 2023-24	Claimed in truing up for FY 2023-24
25	Less: Rebate	119.50	290.09	140.52	44.51
26	Delayed Payment Surcharge from Consumers	-	518.78	-	79.60
27	Principal amount on which DPS Charged	-	2882.11	-	442.22
28	Interest Rate of funding DPS		10.07%	-	10.07%
29	Interest on funding Principal		290.09	-	44.51
30	Net Non-Tariff Income	1056.04	731.62	630.75	323.27
31	Add: Additional income on account of supervision charges due to release of new connections	8.77	-	5.44	-
32	Add: Rebate @1% on total power purchase (incl. transmission charges) for FY 2023-24	105.20	-	122.25	-
33	Total NTI	1170.01	731.62	758.44	323.27

Commission's analysis:

The non-tariff income ,as per the audited annual accounts of NBPDCCL, is at Rs. 1831.15 Crore (including Amortisation of grant and Amortisation of Uday grant of Rs. 693.84 crore and 192.37 Cr. respectively; i.e. depreciation on assets created out of grants which is considered separately in the paragraph related to Depreciation). Accordingly, the Amortization of grant are not considered as non-tariff income.

Non-tariff income of SBPDCL is at Rs. 1028.95 crore (including Amortisation of grant and grant under RDSS as Rs. 273.97 crore and Rs. 96.03 Cr respectively, i.e. depreciation on assets created out of grant which is considered separately in the paragraph related to depreciation). Accordingly, the Amortization of grant are not considered as Non-tariff income.

According to the audited accounts for FY 2023-24 of NBPDCCL and SBPDCL, the rebate received for timely payment of power purchase bills is at Rs. 10.87 Crore and Rs. 5.06 Crore respectively. Further, it is observed that the Hon'ble Appellate Tribunal for Electricity (ATE) in Appeal no.153 of 2009 between North Delhi Power Ltd. Vs Delhi Electricity Regulatory Commission has adjudged that rebate only to the extent of 1% is to be considered as non-tariff income. The total power purchase cost (including transmission charges) for NBPDCCL are at Rs. 11369.01 Crore for FY 2023-24 and the rebate @ 1% works out to Rs. 113.69 Crore and for SBPDCL the rebate works out to Rs. 141.82 Crore @1% on the total power purchase of Rs.14182.07 Crore. Accordingly, the Commission has considered rebate @1% of the total power purchases (including transmission charges) for FY 2023-24 in the true up.

The Discoms have considered the financing cost on DPS and adjusted the same against the non-tariff income and net non-tariff income claimed in true up for FY 2023-24 which is in line with the methodology considered by the Commission for financing of outstanding dues in line with the judgment of the Hon'ble Appellate Tribunal for Electricity (APTEL) dated 12.07.2011 in case No.142 & 147 of 2009.

As per the audited annual accounts for FY 2023-24, the non-tariff income includes Delayed Payment Surcharge (DPS) from consumers. The Discoms charge DPS @ 18% per annum (1.5% per month) in accordance with the DPS specified in the Tariff Order dated 26.03.2021. The Commission has allowed rate of interest of 10.07% (8.57 % being the weighted average MCLR (1 year tenor) during FY 2023-24 plus 150 basis points i.e.1.50%) in accordance with interest on working capital as given under regulation 26 (iii) of BERC (Multi Year Distribution Tariff) Regulations 2021 towards the financing cost of DPS. The Commission has accordingly computed and allowed the financing cost as shown in the table below:

Table 4.96: Financing cost of DPS (Rs. Crore)

Particulars	Approved for NBPDCCL	Approved for SBPDCL
DPS as per audited accounts (@1.5% pm)	518.78	79.60
Principal amount on which DPS charged	2882.11	442.22

Particulars	Approved for NBPDC	Approved for SBPDCL
Interest rate for funding Principal of DPS	10.07%	10.07%
Interest on funding of Principal DPS	290.19	44.53

The Commission, in its earlier true-ups for FY 2019-20, FY 2020-21, FY 2021-22 and FY 2022-23 had considered the interest earned/(refunded) on capital funds as a part of Non-Tariff Income for SBPDCL. It was directed (in true up for FY 2017-18) to maintain proper records for/of actual interest earned/utilised on scheme wise grant, equity and loan fund and to claim separately the refund or utilization made in the year in which such amount is actually refunded or utilized. It is observed from the figures reported in the audited accounts of SBPDCL for FY 2023-24, utilisation of net interest is at Rs. 10.71 crore during FY 2023-24 as detailed hereunder.

Sl. No.	Particulars	SBPDCL
1	Closing balance as on 31.03.2024 stated in Note no.19 of the audited annual accounts for FY 2023-24 (Rs. Cr.)	317.70
2	Interest earned on Capital fund already recognised in Regulatory Accounts as on 31.03.2023 (Rs. Cr.)	306.99
3	Net Interest earned/(refunded/utilised) on Capital fund during FY 2023-24 (a-b) (Rs. Cr.)	10.71

Accordingly, the amount of Rs. 10.71 crore is considered in the Non-tariff income for SBPDCL.

The Commission, as deliberated above, has computed the non-tariff income for FY 2023-24 as detailed in the table below:

Table 4.97: Non-tariff income approved for FY 2023-24 (Rs. Crore)

Sl.	Particulars	Approved in truing up for FY 2023-24 for NBPDCCL	Approved in truing up for FY 2023-24 for SBPDCL	Total
1.	Interest on Advances to Suppliers/Contractors	19.91	30.65	50.56
2.	Interest on Saving Accounts	17.03	41.09	58.12
3.	Interest on Staff Loan & Advances	22.61	0.01	22.62
A	Interest Income	59.55	71.75	131.30
4.	Delayed Payment Surcharge from Consumers	518.78	79.60	598.38
5.	Consumer Contribution Income	4.08	3.03	7.11
6.	Rebate in Capacitive Charge & SCED Benefit	25.02	29.36	54.38
7.	Income From Interest on TDS Refund	0.00	0.17	0.17
9.	Miscellaneous Receipts	0.67	7.83	8.50
10.	Sale of Scrap	16.90	25.08	41.98
12.	Income from sale of Tender paper	1.06	0.00	1.06
15.	Rental Income from Board Property	1.20	2.40	3.60
16.	Income against Short Devolution of Materials	0.00	1.66	1.66
17.	Rebate under RDSS Scheme	8.21	7.69	15.90
18.	Incentive on REC Purchase	0.75	0.00	0.75
19.	Incentive for GCRT	0.90	0.00	0.90
20.	Miscellaneous charges from Consumers	74.35	0.00	74.35
21.	Supervision Income	28.55	25.90	54.45
B	Other Income	680.47	182.72	863.19
22.	Meter Rent/ Service Line Rental	2.43	1.26	3.69
23.	Miscellaneous Recoveries	0.00	103.67	103.67
24.	Liquidated damage income from Agencies	0.00	0.21	0.21
25.	Excess provision written back	158.66	0.00	158.66
26.	Penalty Charge	109.73	0.00	109.73
27.	Income Against BG Invocation	0.00	0.66	0.66
28.	Incentive Under CGRT Scheme	0.00	2.35	2.35

Sl.	Particulars	Approved in truing up for FY 2023-24 for NBPDCI	Approved in truing up for FY 2023-24 for SBPDCL	Total
29.	Others	270.81	108.15	378.96
D	Total Non-tariff income	1010.83	362.62	1373.45
30.	Less: Financing cost to DPS	290.19	44.53	334.71
31.	Add: Rebate @1% on power purchase (incl. transmission charges)	113.69	141.82	255.45
32.	Less: Rebate as per audited accounts for FY 2023-24	10.87	5.06	15.93
33	Less: Interest income on capital funds	0.00	10.71	10.71
34	Non-tariff income	823.47	465.56	1289.03

The Commission, accordingly, approves non-tariff income for NBPDCI and SBPDCL as Rs. 823.47 Cr and Rs. 465.56 Cr respectively for FY 2023-24.

4.20. Interest on working capital

Petitioners' submission:

Discoms have submitted that it has arrived at the working capital requirement according to applicable norms for Distribution function provided in Regulation 26 of the BERC (Multi Year Distribution Tariff) Regulations 2021. The regulations are reproduced hereunder:

“The Distribution Licensee shall be allowed interest on estimated level of working capital for the financial year, computed as follows:

a) Two months equivalent of expected revenue

b) Maintenance spares@40% of R&M expenses for one month:

Less:

(i) Power purchase cost, transmission charges and load dispatch charges of one month

(ii) Depreciation, return on equity and contribution to contingency reserves

equivalent to two months

(iii) Security deposits from consumers, if any

Provided that the interest on working capital shall be on normative basis and rate of interest shall be equal to the State Bank one-year Marginal Cost of Funds-based Lending Rate ('MCLR') as of the date on which petition for determination of tariff is filed plus 150 basis points. The rate of interest for the purpose of Truing-up shall be the weighted average MCLR of the concern Financial Year plus 150 basis points.

Provided further that interest shall be allowed on consumer security deposits and security deposits from Distribution System users held during the year at the Bank Rate as of the date on which petition for determination is filed. The interest allowed shall be subject to true up at weighted average Bank Rate of the concern Financial Year.

Provided also that if, the State Government is providing resource gap grant and/or direct subsidy to consumers, the working capital shall be reduced by two months equivalent of that amount."

Discoms have submitted that, maintenance spares at 40% of R&M expense for one month and two months equivalent revenue requirement after deducting non-tariff income has been considered for calculation of gross working capital requirement.

The Gross working capital requirement is then reduced by closing Security deposits from consumers in FY 2023-24. Depreciation and RoE equivalent to two months and the power purchase cost inclusive of transmission charges for one month is reduced from the gross working capital requirement. Interest rate @ 8.57% at weighted average MCLR + plus 150 basis points for FY 2023-24 is considered.

Discoms have claimed interest on working capital for FY 2023-24 computed as per norms as detailed in the table below:

Table 4.98: Interest on working capital claimed for FY 2023-24 (Rs. Crore)

Sr. No	Particulars	NBPDCCL FY 2023-24 (Actuals)	SBPDCL FY 2023-24 (Actuals)
1	Receivables - 2 months	2333.88	2789.33
2	Maintenance spares @40% of R&M expenses for one month	8.88	9.13
3	Total working capital (1+2)	2342.76	2798.46
4	Less:		
(i)	Power purchase cost, transmission charges and load dispatch charges of one month	949.00	1184.42
(ii)	Depreciation, return on equity and contribution to contingency reserve to two months	149.97	116.94
(iii)	Security deposit from consumers held during the year	488.74	838.87
(iv)	Resource Gap Grant received from State Govt. equivalent to two months	-	
(v)	Direct subsidy to consumers equivalents to two months	-	
5	Sub-total (4(i)+4(ii)+4(iii)+4(iv)+4(v))	1587.70	2140.23
6	Working capital requirement (3-5)	755.06	658.24
7	Two months of Subsidy	1048.04	1168.83
8	Net Working Capital	(292.98)	(510.60)
9	Rate of interest %	10.07%	10.07%
10	Interest on working capital (8*9)	-	-

Table 4.99: Gains/(Loss) on account of interest on working capital claimed for FY 2023-24 (Rs. Crore)

Name of the Discom	Approved in the Tariff Order dated 23.03.2023	Actual Claimed in Truing up	Gain/ (loss)	Gain/(Loss) due to uncontrollable Factors to be absorbed by the licensee	Pass through on account of Uncontrollable Factors
NBPDCCL	-	-	-	-	-
SBPDCL	-	-	-	-	-

Commission's analysis

The Discoms have computed the interest on working capital as per the norms prescribed in Regulation 26 of the BERC (Multi Year Distribution Tariff) Regulations, 2021. Maintenance spares is considered @40% of the R&M expenses for FY 2023-24. Receivables equivalent to two months is considered based on the ARR (net of non-tariff income). The working capital requirement for FY 2023-24 is considered after

deducting one month power purchase cost (incl. transmission and SLDC charges), two months equivalent of depreciation and RoE and closing balance of consumer security deposit approved in the truing up for FY 2023-24.

Regulation 26 of BERC (Multi Year Distribution Tariff) Regulations 2021 specify that:

“provided also that if the State Government is providing resource gap grant and/or direct subsidy to consumers, the working capital shall be reduced by two months equivalent of that amount”.

As per the audited accounts of NBPDC & SBPDCL, consumer subsidy received from Govt of Bihar is Rs. 6288.23 Cr. and Rs. 7021.99 Cr. Therefore, two months’ subsidy works out to be Rs. 1048.04 Cr. for NBPDC & Rs. 1168.83 Cr. for SBPDCL.

The Commission, accordingly considered the rate of interest on working capital at 10.07 % (weighted average SBI MCLR of 8.57 % plus 1.50%) as per regulation 26 (iii) BERC (Multi Year Distribution Tariff) Regulations, 2021.

Based on the expenses/costs approved, the working capital requirement and interest on working capital is computed in truing up for FY 2023-24 as detailed in the table below:

Table 4.100: Interest on working capital approved for FY 2023-24 (Rs. Crore)

Sl. No.	Particulars	Approved for NBPDC in Truing up	Approved for SBPDCL in Truing up
1	Maintenance spares 40% of R&M expenses for one month	8.67	8.63
2	Receivables - 2 months	2333.88	2789.33
3	Total working capital (1+2)	2342.55	2797.96
4	Less:		
	a). Power purchase cost, transmission charges and load dispatch charges of one month	947.42	1181.84
	b). Depreciation, RoE and contingency reserve	140.55	116.84
	c). Security deposit from consumers	488.74	838.86
	d). Grant received from State Govt. for purchase of power and other O&M expenses	1048.04	1168.83
	Sub-total (a+b+c+d)	2624.75	3306.37

Sl. No.	Particulars	Approved for NBPDCCL in Truing up	Approved for SBPDCL in Truing up
5	Net working capital requirement (3-4)	(282.20)	(508.41)
6	Rate of interest %	10.07%	10.07%
7	Interest on working capital (5*6)	-	-

The Commission, accordingly, approves 'NIL' interest on working capital as above in true up for FY 2023-24.

Sharing of Gain/(Loss) on account of controllable factors:

The Commission, in Tariff Order dated 23.03.2023, has approved interest on working capital as NIL for both DISCOM.

Regulation 9.2 (c) of BERC (Multi Year Distribution Tariff) Regulations 2021 specify that variation in RoE, depreciation and working capital requirement as controllable factor. However, if the Commission is satisfied that the variation in the working capital requirement is attributable to any uncontrollable factors, the same may be considered as uncontrollable factor.

The Commission opines that around 90% of the working capital requirement constitutes power purchase cost which is uncontrollable. As such the working capital requirement and interest there on is considered as uncontrollable factor.

The Commission, accordingly has not considered sharing of gains/(losses) on account of variation in interest on working capital for FY 2023-24.

4.21. Revenue from sale of power with existing tariff for FY 2023-24

Petitioner's submission

The Petitioner has submitted details of category wise revenue based on the tariff approved for FY 2023-24 as shown in the Tables below:

Table 4.101 Revenue from sale of power claimed by NBPDCCL for FY 2023-24

Sr. No	Category of Consumers	Final Data		
		Sales (Mus)	Total (Rs Crores)	ABR (Rs/kWh)
1	Domestic	8,851.99	7,143.92	8.07

Sr. No	Category of Consumers	Final Data		
		Sales (Mus)	Total (Rs Crores)	ABR (Rs/kWh)
A	Kutir Jyoti	2,696.76	2,129.85	7.9
I	Unmetered (Now Metered)	-	-	-
li	Metered 0-50	2,696.76	2,129.85	7.9
B	DS I Rural	4,326.85	3,489.53	8.06
I	Unmetered (Now Metered)	-	-	-
ii	Metered (Now Demand Based)	4,326.85	3,489.53	8.06
a	0-50 Units	3,199.90	1,961.72	6.13
b	Above 50 Units	1126.94	1,527.81	13.56
C	DS II Demand Based	1,828.02	1,524.19	8.34
i	1- 100 Units	1,510.71	999.03	6.61
ii	Above 100 Units	317.31	525.15	16.55
D	DS III	0.36	0.36	9.92
2	Non-Domestic Service	1,825.89	1,866.00	10.22
A	NDS I - Metered Now Demand Based	739.3	636.05	8.6
i	1- 100 Units	607.38	285.05	4.69
ii	Above 100 Units	131.92	351.00	26.61
B	NDS II - Demand Based	1,086.59	1,229.94	11.32
i	Contract Demand <0.5 kW	1.35	1.9	14.09
ii	Contract Demand >0.5 kW	1,085.25	1,236.06	11.39
a	1- 100 Units	805.24	390.04	4.84
b	Above 100 Units	280.00	846.02	30.22
3	Street Light Services	208.77	181.66	8.7
A	SS Metered	16.4	15.38	9.38
B	SS Unmetered	192.36	166.27	8.64
4	Irrigation & Allied Services	1,672.69	1,174.88	7.02
A	IAS I	1,533.14	1,033.60	6.74
i	Unmetered	17.47	13.35	7.64
ii	Metered	1,515.67	1,020.25	6.73
B	IAS II	139.55	141.28	10.12
i	Metered (Now Demand Based)	139.55	141.28	10.12
5	Public Service Connections	510.38	457.31	8.96
A	Public Water Works	36.91	63.03	17.08
B	Har Ghar Nal	473.47	394.28	8.33
6	Low Tension Industrial Services	434.93	552.07	12.69
A	LTIS I (0-19 kW)	395	505.93	12.81
B	LTIS II (>19 kW - 74 kW)	39.93	46.13	11.55
7	LT Electric Vehicle Charging Station	5.55	4.93	8.87
8	High Tension	961.24	970.98	10.10
A	HTS I - 11 kV	596.84	661.5	11.08

Sr. No	Category of Consumers	Final Data		
		Sales (Mus)	Total (Rs Crores)	ABR (Rs/kWh)
B	HTS II - 33 kV	252.37	250.91	9.94
C	HTS III -132 kV	112.04	118.33	10.56
D	HTS IV - 220 kV	-	0.52	-
9	HT-Industrial Services	53.87	41.99	7.79
A	HTIS (Industrial) – I (11 kV)	6.35	5.66	8.91
B	HTIS (Industrial)– II (33 kV)	10.85	9.55	8.81
C	HTIS (Industrial) – III (132 kV)	-	-	-
D	HTIS (Industries)-IV (220 kV)	-	-	-
E	HTSS	35.88	26.14	7.29
F	HTIS (Oxygen Manufacturers) - 11KV	0.79	0.64	8.06
G	HTIS (Oxygen Manufacturers) - 33KV	-	-	-
10	Railway Traction Services	122.14	137.11	11.23
A	RTS	122.14	137.11	11.23
11	Nepal	256.55	241.95	9.43
A	Nepal	256.55	241.95	9.43
12	DF	-	-	-
13	HT Electric Vehicle Charging Stations.	-	-	-
14	SLDC Deviation	191	146.76	7.68
15	Sale to other state	-	-	-
16	Sale to Sugar Mills	6.73	2.29	3.4
17	Sale to Solar Companies	0.94	0.48	5.14
18	Sale of Power to IEX through PTC	1,653.51	685.25	4.14
19	Sale of Power to IEX through BSPHCL	754.19	335.41	4.45
20	Others	-	-	-
	Total	17,510.38	14,003.27	8.00

Subsidy included in the total revenue from sale of power

Table 4.102: Revenue from sale of power claimed by SBPDCL for FY 2023-24

Sr. No	Category of Consumers	Final Data		
		Sales (MUs)	Total (Rs Crores)	ABR (Rs/kWh)
1	Domestic	7,815.86	6,721.17	8.60
A	Kutir Jyoti	1,501.51	1,202.12	8.01
i	Unmetered (Now Metered)	-	-	-
ii	Metered 0-50	1,501.51	-	-
B	DS I Rural	3,216.29	2,629.59	8.18
i	Unmetered (Now Metered)	-	-	-
ii	Metered (Now Demand Based)	3,216.29	2,629.59	8.18

Sr. No	Category of Consumers	Final Data		
		Sales (MUs)	Total (Rs Crores)	ABR (Rs/kWh)
a	First 50 Units	1,260.97	1,031	8.18
b	Above 50 Units	1,955.32	1,599	8.18
C	DS II Demand Based	3,097.82	2,889.99	9.33
i	First 100 Units	1,367.13	1,275	9.33
ii	Above 100 Units	1,730.69	1,614	9.33
D	DS III	0.24	0.25	9.09
2	Non-Domestic Service	1,631.93	1,760.32	10.79
A	NDS I - Metered Now Demand Based	408.08	358.1	8.77
i	First 100 Units	142.50	125	8.77
ii	Above 100 Units	265.57	233	8.77
B	NDS II - Demand Based	1,223.85	1,401.37	11.45
i	Contract Demand <0.5 kW	5.66	7	12.08
ii	Contract Demand >0.5 kW	1,218.20	1,394	11.44
a	First 100 Units	253.49	290	11.44
b	Above 100 Units	964.71	1,104	11.44
3	Street Light Services	266.09	236.989	8.91
A	SS Metered	67.34	59.724	8.87
B	SS Unmetered	198.75	177.265	8.92
4	Irrigation & Allied Services	4,000.34	2,825.126	7.06
A	IAS I	3,649.92	2,555.624	7.00
i	Unmetered	914.12	742	8.12
ii	Metered	2,735.80	1,813.57	6.63
B	IAS II	350.43	269.502	7.69
i	Metered (Now Demand Based)	350.43	269.502	7.69
5	Public Service Connections	480.00	437.49	9.11
A	Public Water Works	146.16	159.23	10.89
B	Har Ghar Nal	333.85	278.23	8.33
6	Low Tension Industrial Services	497.39	560.20	11.26
A	LTIS I (0-19 kW)	307.78	355.827	11.56
B	LTIS II (>19 kW - 74 kW)	189.61	204.32	10.78
7	LT Electric Vehicle Charging Station	6.02	4.62	7.67
8	High Tension	2,581.41	2,414.75	9.35
A	HTS I - 11 kV	880.58	994.50	11.29
B	HTS II - 33 kV	653.03	692.26	10.60

Sr. No	Category of Consumers	Final Data		
		Sales (MUs)	Total (Rs Crores)	ABR (Rs/kWh)
C	HTS III -132 kV	273.86	216.86	7.92
D	HTS IV - 220 kV	-	-	-
E	HTSS	773.94	511.13	6.60
9	HT-Industrial Services	6.35	9.92	15.61
A	HTIS (Industrial) – I (11 kV)	-	-	-
B	HTIS (Industrial)– II (33 kV)	-	-	-
C	HTIS (Industrial) – III (132 kV)	-	-	-
D	HTIS (Industries)-IV (220 kV)	-	-	-
E	HTIS (Oxygen Manufacturers) - 11KV	6.35	9.83	15.47
F	HTIS (Oxygen Manufacturers) - 33KV	-	-	-
10	Railway Traction Services	292.38	308.33	10.55
13	HT Electric Vehicle Charging Stations.	-	-	-
14	SLDC Deviation	238.75	182.57	7.65
15	IEX through PMC	941.30	418.66	4.45
16	Sale of Power to PTC	2,064.36	855.33	4.14
	Total	20,822.21	16,735.99	8.04

Subsidy included in the total revenue from sale of power

Commission's analysis

The Petitioners under Format-30A of the petitions have furnished slab-wise/subcategory wise/ category wise, number of consumers, connected load, energy sales, energy charges billed, and fixed charges billed etc for FY 2023-24.

Further, as per audited annual accounts for FY 2023-24, the revenue from sale of power to the exchange is as shown in the table below:

Table 4.103: Revenue from sale of power to exchange as shown in audited accounts for FY 2023-24 (Rs. Crore)

Particulars	NBPDCCL			SBPDCL			Total		
	Sales (MU)	Energy Charges (Rs. Crore)	Avg. Energy Charges Rs/kWh	Sales (MU)	Energy Charges (Rs. Crore)	Avg. Energy Charges Rs/kWh	Sales (MU)	Energy Charges (Rs. Crore)	Avg. Energy Charges Rs/kWh
Sales to IEX through PMC	0.00	0.00	0	941.30	418.66	4.45	941.30	418.66	4.45
Sales to IEX through	1653.51	685.25	4.14	2,064.36	855.33	4.14	3717.87	1540.58	4.14

Particulars	NBPDC			SBPDCL			Total		
	Sales (MU)	Energy Charges (Rs. Crore)	Avg. Energy Charges Rs/kWh	Sales (MU)	Energy Charges (Rs. Crore)	Avg. Energy Charges Rs/kWh	Sales (MU)	Energy Charges (Rs. Crore)	Avg. Energy Charges Rs/kWh
PTC									
Sales to IEX through BSPHCL	754.19	335.41	4.45	0.00	0.00	0.00	754.19	335.41	0.00
Total	2407.70	1020.66	4.24	3,005.66	1,273.99	4.24	5413.36	2294.65	4.24

As per audited annual accounts of FY 2023-24 the revenue from sale of power is Rs. 14003.27 Cr for NBPDC and Rs. 16733.65 Crore for SBPDCL and the petitioners have adopted the same values for FY 2023-24 in truing up. The actual revenue from sales to various consumer categories, without considering revenue from sale of power to exchange, is approved in truing up for FY 2023-24 as shown in Table below:

Table 4.104: Revenue from sale of power from Consumers approved for FY 2023-24

Name of the Discom	Consumers	Connected Load (KW)	Sales (MU)	Fixed Charges (Rs. crore)	Energy Charges (Rs. crore)	Other Charges (Rs. crore)	Total Revenue (Rs. crore)	Avg. Energy Charges Rs/kWh
NBPDC	12694190	13249343	14798.94	1577.46	11392.34	12.81	12982.61	8.77
SBPDCL	7502885	12901909	17507.23	2619.83	12805.70	34.13	15459.66	8.83
Total	20197075	26151252	32306.17	4197.29	24198.04	46.94	28442.27	8.80

Further, the Commission, in accordance with Rule 14 of the Electricity (Amendment) Rules, 2022 and in exercise of the powers conferred on it by Section 181(2) read with Section 61 & 62 of the Electricity Act, 2003 (36 of 2003) had notified Bihar Electricity Regulatory Commission Multi Year Distribution Tariff (First Amendment) Regulations, 2023. Regulation 20.2 of the aforesaid Regulations, has the following provisions Fuel and Power Purchase Adjustment Surcharge (FPPAS):

“20.2 Fuel and Power Purchase adjustment surcharge shall be calculated by the DISCOMs on monthly basis and shall be billed to the consumers automatically without going through regulatory approval process, according to the formula prescribed by the Commission subject to true-up on an annual basis. Automatic pass through shall be adjusted for monthly billing in accordance with these regulations. The petition for true-up of FPPAs

for a financial year shall be submitted by the DISCOMs to the Commission by 31st May of the next financial year and the true-up shall be completed by 30th June of next Financial Year.”.

Accordingly, the Petitioners filed Petition for true up of the Fuel and Power Purchase Adjustment Surcharge (FPPAS) for FY 2023-24 and order was issued on 16.12.2024 (Case No. 23 of 2024). In the said order, the Commission directed the Petitioners to submit relevant details as per provisions of above-mentioned Regulations as the Petitioner already filed the present petition including True Up for FY 2023-24. The Petitioner submitted that they have not levied any FPPAS to its consumer during FY 2023-24 since the cumulative balance (i.e. amount recovered at the end of each month of FY 2023-24 on account of FPPAS) was negative on the basis of FPPAS calculated for only one month i.e. for March 2024 during FY 2023-24.

Further, the Petitioner submitted that in the present Petition they have filed true up of power purchase cost for FY 2023-24 in accordance with Regulation 20.8, 20.9, 20.10 and 20.11 of BERC Multi Year Distribution Tariff (First Amendment) Regulations, 2023. The Petitioner submitted that overall actual power purchase cost for FY 2023-24 (also includes the aforesaid surplus amount of Rs.180.39 Crore on account of FPPAS) is higher than the approved power purchase cost by the Commission in the tariff order for FY 2023-24 as provided below:

Particulars	NBPDCCL		SBPDCL	
	FY 2023-24 (Approved)	FY 2023-24 (Actuals)	FY 2023-24 (Approved)	FY 2023-24 (Actuals)
Power purchase cost (Rs. Crore)	8,981.20	9,872.38	10,418.54	12,288.06

In view of the above, the Petitioner requested the Commission to approve the power purchase cost vis-à-vis true-up of FPPAS for FY 2023-24.

The Commission has already elaborately discussed the details of power purchase cost and allowed the power purchase cost for FY 2023-24 accordingly. Hence, the deviation

in power purchase cost has already been addressed by the Commission as the same is allowed on the basis of actual power purchase cost with prudence check.

4.22. Annual Revenue Requirement and sharing of gains/(losses) for FY 2023-24

Petitioners' submission:

Discoms have submitted that the gross ARR consists of the power purchase costs, interest and finance cost; O&M cost, depreciation and interest on working capital duly adjusted for non-tariff income and other income. The Discoms have computed the total revenue requirement for FY 2023-24 as detailed in the table below:

Table 4.105: ARR, Gains/(Losses) due to controllable & uncontrollable variations claimed by NBPDC for FY 2023-24 (Rs. Crore)

Sr. No.	Particulars	FY 2023-24 (Approved)	FY 2023- 24 (Actuals)	Deviation	(Gains)/Loss on account of controllable factors absorbed by licensee	Pass through on account of uncontrollable factors
1	Purchase of power	8,981.20	9,872.38	(891.18)	-	891.18
	Additional Power purchase cost due to distribution loss variation				(235.74)	(117.87)
2	Transmission Charges	1,538.42	1,515.56	22.86		(22.86)
3	Revenue from Sale of Surplus Power	0.00	-	-		-
4	O & M Expenses (A+B+C+D)	989.99	1,104.00	(114.01)		
A	Employee expenses	481.29	484.26	(2.97)	1.98	0.99
B	R&M expenses	264.65	266.41	(1.76)	1.17	0.59
	A&G expenses (normative)	218.77	215.53	3.24	(1.08)	(2.16)
	Rent Charges for Smart Prepaid Meter	-	103.67	(103.67)		
C	Total A&G expenses	218.77	319.20			
D	Holding company expenses	25.28	34.12	(8.84)		

5	Depreciation	362.02	513.30	(151.28)		
6	Interest on loan	546.77	530.95	15.82		
7	Other finance charges	57.16	76.69	(19.53)		
8	Return on equity	412.89	421.28	(8.39)		
9	Interest on SD	23.29	4.31	18.98		
10	Interest on working capital	-	-	-		
11	Energy Savings Certificate (ESCERTs)	-	10.04	(10.04)		
12	Total Revenue requirement (1 to 11)	12,911.74	14,048.52	(1,137)		
13	Less:: Non-tariff income	1,170.01	731.62	438		
15	Net Revenue requirement (1213)	11,741.73	13,316.90	(1,575)	(233.60)	

Table 4.106: ARR, Gains/(Losses) due to controllable & uncontrollable variations claimed by SBPDCL for FY 2023-24 (Rs. Crore)

Sr. No.	Particulars	FY 2023-24 (Approved)	FY 2022-23 (Actuals)	Deviation	(Gains)/Loss on account of controllable factors absorbed by licensee	Pass through on account of uncontrollable factors
1	Purchase of power	10,418.54	12,288.06	(1,869.52)		1869.52
	Additional Power purchase cost due to distribution loss variation				(184.47)	(92.24)
2	Transmission Charges	1,805.97	1,925.00	(119.03)		119.03
3	Revenue from Sale of Surplus Power	0.00	0.00	-		-
4	O & M Expenses (A+B+C+D)	1,166.49	1,270.46	(103.97)		
A	Employee expenses	710.44	705.54	4.90	(1.63)	(3.26)
B	R&M expenses	274.21	273.81	0.40	(0.13)	(0.27)

Sr. No.	Particulars	FY 2023-24 (Approved)	FY 2022-23 (Actuals)	Deviation	(Gains)/Loss on account of controllable factors absorbed by licensee	Pass through on account of uncontrollable factors
	A&G expenses (normative)	155.25	161.88	(6.63)	4.42	2.21
	Rent Charges for Smart Prepaid Meter	0.00	94.49	(94.49)		
C	Total A&G expenses	155.25	256.37	(101.12)		
D	Holding company expenses	26.59	34.73	(8.14)		
5	Depreciation	364.91	360.40	4.51		
6	Interest on loan	444.17	393.92	50.25		
7	Other finance charges	70.79	147.21	(76.42)		
8	Return on equity	378.74	341.22	37.52		
9	Interest on SD	40.88	17.52	23.36		
12	Interest on working capital	0.00	0.00	-		
	Energy Savings Certificate (ESCERTs)	0.00	34.92	(34.92)		
	Bad & doubtful debts	0.00	0.90	(0.90)		
13	Total Revenue requirement (1 to 12)	14,690.49	16,779.62	(2,085.42)		
14	Less:: Non-tariff income	758.44	323.27	435.17		
15	Net Revenue requirement (13-14)	13,932.05	16,456.35	(2,520.59)	(181.82)	

Commission's analysis:

The Commission notes that Regulation 10 and 11 of the BERC (Multi Year Distribution Tariff) Regulations, 2021 specify the procedure for sharing of the gains/losses on account of controllable and uncontrollable factors. The relevant Regulations are extracted here under:

“Regulation 10. Mechanism for pass-through of gains or losses on account of uncontrollable factors

10.1 The approved aggregate gain or loss to the Distribution Licensee on

account of uncontrollable factors shall be a pass through as an adjustment in the tariff of the Distribution Licensee as specified in these Regulations and as may be determined in the Order of the Commission passed under these Regulations.

10.2 The Distribution Licensee shall submit such details of the variation between actual and the figures approved by the Commission along with the detailed computations and supporting documents as may be required by the Commission.

Regulation 11. Mechanism for sharing of gains or losses on account of controllable factors

11.1 The approved aggregate gain to the Distribution Licensee on account of controllable factors shall be dealt with separately for aggregate gain and aggregate loss in the following manner:

(a) Aggregate gain:

- (i) Two-third of the amount of such gain shall be a pass through as an adjustment in the tariff of the Distribution licensee, as specified in these regulation and as may be determined in the order of the Commission passed under these regulation;*
- (ii) The balance one third of the amount of such gain shall be on account of Distribution licensee and such amount shall be utilized at the discretion of Distribution Licensee.*

(b) Aggregate Loss:

- (i) One third of the amount of such loss shall normally be a pass through as an adjustment in the tariff of the Distribution Licensee as specified in these regulations and as may be determined in the order of the Commission passed under these regulations, provided the Commission is satisfied that such loss is not on account of deliberate action of the Distribution licensee:*
- (ii) The balance two third of the amount of such loss shall be on account of Distribution licensee.*

Explanation: *If the State Government is providing resource gap grant,*

aggregate loss shall be reduced by that amount for the purpose of computation of aggregate loss to be qualified for a pass through.

- 11.2 *The Distribution licensee shall submit such details of variation for sharing of approved aggregate gain or loss on account of controllable factors along with the detailed computations and supporting documents as may be required for verification by the Commission.*

The Commission based on the Aggregate Revenue Requirement (ARR) approved for FY 2023-24 in the Tariff order dated 23.03.2023, the actuals claimed in truing up by the Discoms and as approved by the Commission in truing up, has computed the variations due to controllable factors and uncontrollable factors and sharing of Gains/(Losses) in accordance with the BERC (Multi Year Distribution Tariff) Regulations, 2021 as given in the Table below:

Table 4.107: ARR approved in truing up for FY 2023-24 for Discoms (Rs. Crore)

Sl.	Particulars	NBPDCCL			SBPDCL		
		Approved in Tariff order dated 01.03.2024	Claimed in truing up for FY 2023-24	Now approved in truing up for FY 2023-24	Approved in Tariff order dated	Claimed in truing up for FY 2023-24	Now approved in truing up for FY 2023-24
1	Purchase of power	8981.2	9872.38	9853.45	10418.54	12288.06	12254.67
2	PGCIL and other transmission charges	890.11	894.52	894.52	1044.91	1156.27	1156.27
3	BSPTCL transmission charges	541.25	515.11	515.11	635.37	642.95	642.95
4	BGCL transmission charges	100.91	96.54	96.54	118.47	115.50	115.50
5	SLDC charges	6.15	5.18	5.18	7.22	6.47	6.47
6	ERLDC, POSOCO	0	4.21	4.21	0	6.21	6.21
7	O & M Expenses (A+B+C)	964.71	1069.87	1054.29	1139.90	1235.72	1218.28
A	Employee expenses	481.29	484.26	484.26	710.44	705.54	705.54
B	R&M expenses	264.65	266.41	260.17	274.21	273.81	258.76
C	A&G expenses	218.77	319.2*	309.85*	155.25	256.37*	253.98*

Sl.	Particulars	NBPDCCL			SBPDCL		
		Approved in Tariff order dated 01.03.2024	Claimed in truing up for FY 2023-24	Now approved in truing up for FY 2023-24	Approved in Tariff order dated	Claimed in truing up for FY 2023-24	Now approved in truing up for FY 2023-24
8	Holding company Expenses	25.28	34.12	34.12	26.59	34.73	34.73
9	Depreciation	362.02	513.3	316.14	364.91	360.4	268.60
10	Interest on loan	546.77	530.95	530.95	444.17	393.92	393.92
11	Other finance charges	57.16	76.69	60.98	70.79	147.21	117.11
12	Return on equity	412.89	421.28	421.78	378.74	341.22	342.90
13	Interest on SD	23.29	4.31	4.31	40.88	17.52	17.52
14	Bad & doubtful debts	0	0	0	0	0.9	0
15	Interest on working capital	0	0	0.00	0	0	0.00
	Energy Savings Certificate (ESCERTs)	0	10.04	0.00	0	34.92	0
16	Less: Non-tariff Income	1170.01	731.62	823.47	758.44	323.27	465.56
17	ARR for the year	11741.73	13316.88	12968.11	13932.05	16458.73	16109.57

* It includes smart prepaid rental expenses

The Commission, accordingly, approves the net ARR for FY 2023-24 in truing up for Discoms as detailed in the table above.

Figure 6: The Share of each component of ARR (%) for FY 2023-24 for NBPDCCL

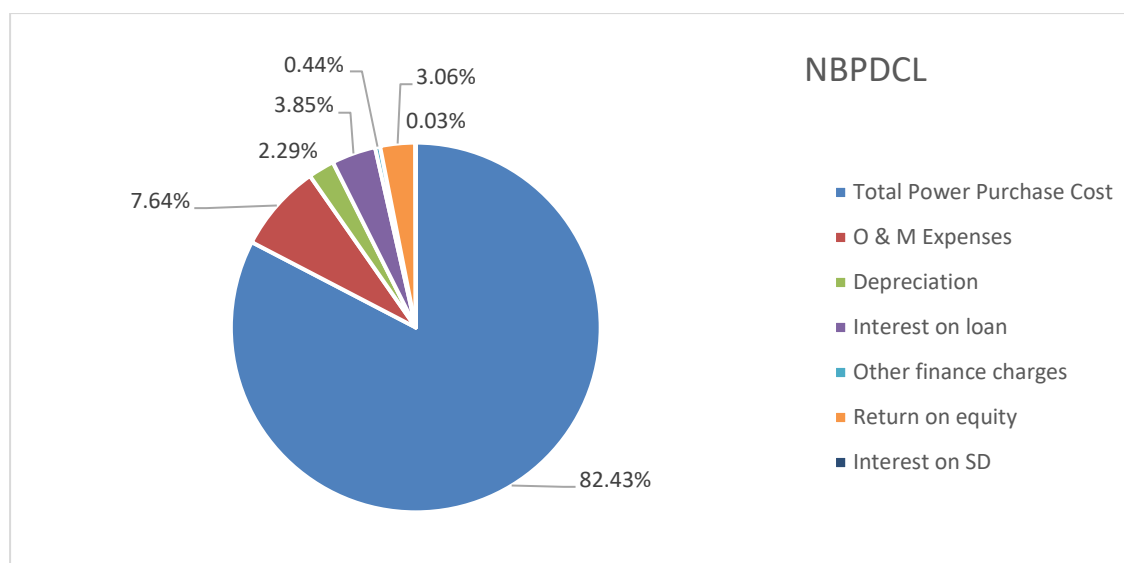
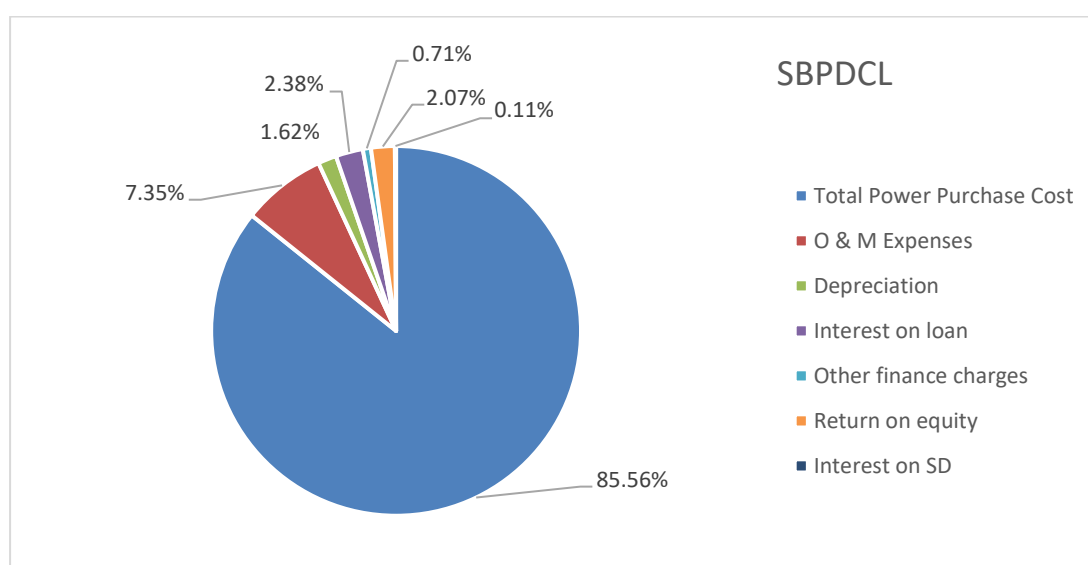


Figure 7: The Share of each component of ARR (%) for FY 2023-24 for SBPDCL



The 6-year trend of ARR & Average Cost of Supply (ACoS) of NBPDCCL & SBPDCL for FY 2018-19 to FY 2023-24 are shown below:

Figure 8: Net ARR from FY 2018-19 to FY 2023-24 (Rs. Crore)

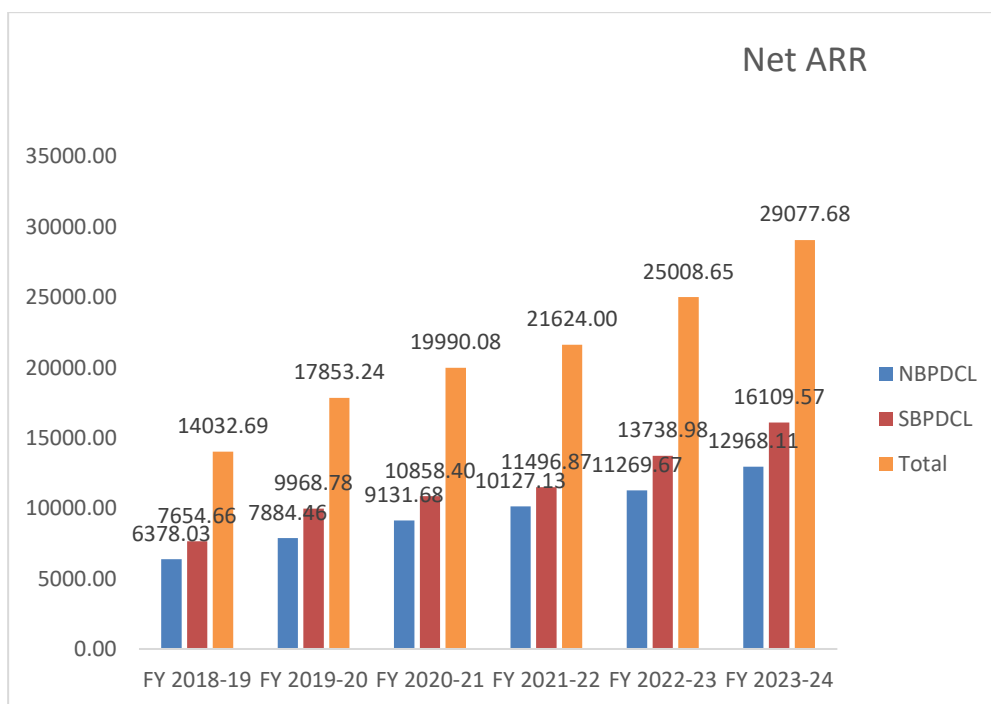
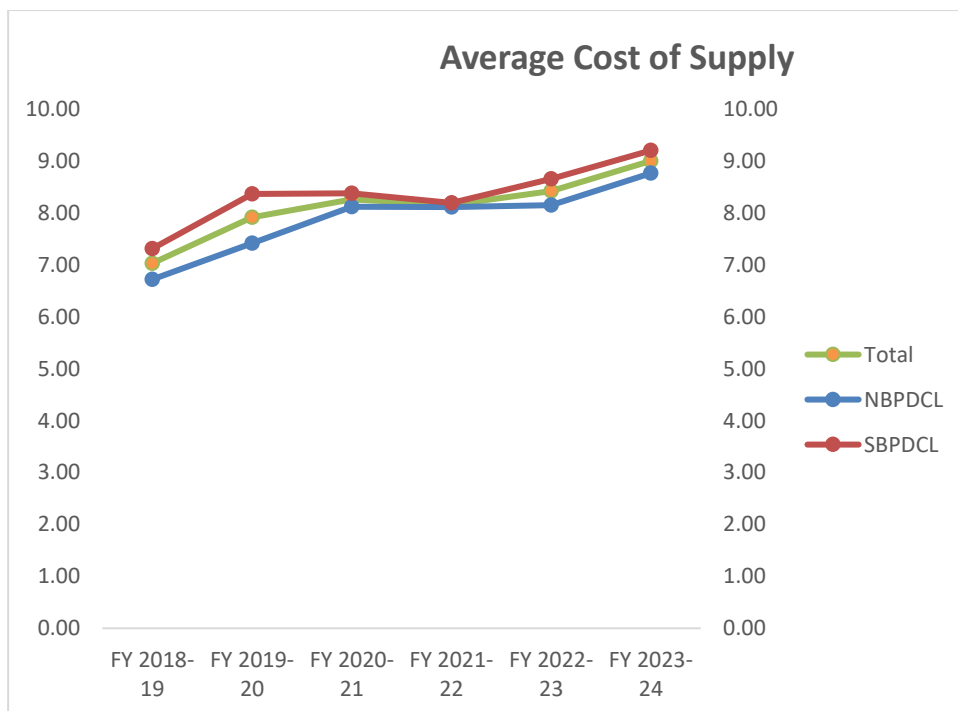


Figure 9: Average cost of supply from FY 2018-19 to FY 2023-24 (Rs/kWh)



4.23. Revenue Gap/(Surplus) for FY 2023-24**Petitioner's submission:**

The Discoms have claimed the revenue gap/(surplus) for FY 2023-24 as detailed in the Table below:

Table 4.108: Revenue Gap/(Surplus) claimed by the Discoms for FY 2023-24 (Rs. Crore)

Particular	(NBPDCCL) Amount (Rs. Crore)	(SBPDCL) Amount (Rs. Crore)	Remarks
Net Revenue requirement	13,316.90	16,456.35	29,773.25
Revenue from Sale of Energy	14,003.27	16,735.99	30,739.26
Revenue Gap / (Surplus)	(686.36)	(279.64)	(966.00)
Less: (Gains)/Loss on account of controllable factors absorbed by licensee	(233.6)	(181.82)	(415.42)
Add: Revenue Gap/ (Surplus) of previous FY	0	0	0.00
Net Revenue Gap / (Surplus)	(452.7)*	(97.83)**	(550.53)

* Revised submission: surplus of Rs (541) Cr, ** Revised submission: gap of Rs 4087 Cr

Commission's analysis:

The Commission based on the expenses and sharing of Gains/(Losses) due to controllable and uncontrollable factors has approved the ARR for FY 2023-24 in trueing up as detailed in the table below.

Table 4.109: Revenue Gap/(Surplus) approved in true up for FY 2023-24 (Rs. Crore)

SNo	Particulars	Approved in trueing up for FY 2023-24 for NBPDCCL	Approved in trueing up for FY 2023-24 for SBPDCL	Total
1	ARR approved in True up for FY 2023-24	12968.11	16109.57	29077.68

2	Add: Gains /(Loss) on account of O&M expenses to be passed into tariff	(77.78)	(104.66)	(182.45)
3	Add: Impact of Order (review) dated 07.11.2022 in Case no.7/2022 (NBPDC) and 8/2022 (SBPDCL) relating truing up for FY 2020-21 along with carrying cost	574.16	1032.73	1606.89
4	Add: Carried forward trued up revenue Gap/(Surplus) of FY 2021-22 with carrying cost as per TO dated 25.03.2022	-195.02	3515.41	3320.39
5	Sharing of Power purchase cost on account of gain/loss	0.56	(415.96)	(415.40)
6	Revised Revenue Requirement (1 to 5)	13270.02	20137.09	33407.11
	Less: Revenue from existing tariff	14003.27	16735.99	30739.26
	Revenue Gap approved in true up for FY 2023-24 to be carried forward	(733.25)	3401.10	2667.85

The Commission approves the total net consolidated revenue Gap of Rs. 2667.85 Crore (NBPDC surplus of Rs. 733.25 Crore and SBPDCL gap of Rs. 3401.10 Crore) for Discoms in True up for FY 2023-24.

The Regulation 14(f) of the BERC (Multi Year Distribution Tariff) Regulations 2021, specifies

“the revenue gap/surplus arising out of Truing up shall be considered by the Commission while determining the ARR of ensuing year(s). While approving adjustments towards revenue/expenses in future years, arising out of Truing up exercises, the Commission may allow the carrying costs as determined by the Commission of such expenses/revenues”.

Accordingly, the net consolidated revenue Gap of Rs. 2667.85 Crore (NBPDC surplus of Rs. 733.25 Crore and SBPDCL gap of Rs. 3401.10 Crore) for Discoms in True up for FY 2023-24 is adjusted in the ARR for FY 2025-26 along with applicable carrying cost.

5. Annual Performance Review for FY 2024-25

5.1. Background

The Commission had issued MYT Order dated 25th March, 2022 approving Aggregate Revenue Requirement for the control period FY 2022-23 to 2024-25 for the Bihar Distribution Companies, viz., NBPDCCL and SBPDCL. The Commission has also issued the Tariff Order for FY 2024-25 dated 01st March, 2024, re-determining the ARR for FY 2024-25. The distribution licensees have now filed the present Tariff Petitions for determination of tariff FY 2025-26 on 15th November, 2024, which also includes Annual Performance Review (APR) for FY 2024-25. Discoms have stated that the APR for FY 2024-25 is on the basis of actual figures for 6 months (i.e. April 2024 to September 2024) for power purchase, sales and pro-rata projections and escalations over previous year has been considered.

Annual Performance Review (APR) for FY 2024-25 shall be carried out in accordance with the Regulation 8.1 of the BERC (Multi Year Distribution Tariff) Regulations, 2021. Accordingly, the “Review” exercise for FY 2024-25 has been undertaken by the Commission on the basis of Audited Annual Accounts for FY 2023-24 and revised estimates for FY 2024-25 submitted by the Petitioners and as per BERC (Multi Year Distribution Tariff) Regulations, 2021.

However, as per Regulation 14 (f) of BERC (Multi Year Distribution Tariff) Regulations, 2021 the revised estimated gap/surplus as a result of Review (APR) shall not be passed in to the ARR of the ensuing year.

5.2. Number of Consumers, Energy Sales and Connected Load for FY 2024-25

Petitioners’ submission:

Number of Consumers

The Petitioners have submitted that while projecting the number of consumers for FY 2024-25, the impact due to Central schemes like Saubhagya and UDAY were considered. The Successful implementation of these schemes ensured that all the willing households are connected to the grid, leaving little scope for addition of new consumers from KJY, DS-I and DS-II categories.

These plans were mainly targeted for rural consumers in KJ, DS-I category and for IAS-I category, many policies at state level were adopted, hence the growth rate in previous years under this category was above the normal CAGR growth as large number of new connections were released in the ensuing years. However, since the state of Bihar has achieved 100% electrification, the growth in consumers have normalized in the past 2 years. Considering the same, the Petitioners have considered growth pattern of last 2-3 years as well as that of the 6 months provisional data of FY 2024-25 for revising the growth in number of consumers for FY 2024-25.

The category-wise number of consumers approved in the Tariff Order dated 01.03.2024 and now projected in APR for FY 2024-25 is as given in Table below:

Table 5.1: Category-wise number of consumers projected by NBPDC & SBPDCL for FY 2024-25

Category	NBPDC		SBPDCL	
	Approved in TO, Dt 01.04.2023	Now Projected in APR	Approved in TO, Dt 01.04.2023	Now Projected in APR
Domestic	11693852	11563807	6435722	6476313
Kutir Jyoti	4387902	4354193	1548455	1571239
DS I Rural	5825635	5764392	3208205	3245241
DS II Demand Based	1480223	1445130	1678893	1659679
DS III	92	92	169	155
Non-Domestic Service	1001986	996870	687879	690097
NDS I - Metered Now Demand Based	575431	589733	261301	260029
NDS II - Demand Based	426555	407137	426578	430068
Contract Demand <0.5 kW	2650	2561	9589	10720
Contract Demand >0.5 kW	423905	404576	416989	419348
Street Light Services	2781	3064	2378	2681
SS Metered	675	752	1182	1255
SS Unmetered	2105	2312	1196	1426
Irrigation & Allied Services	353946	294864	353397	419432
IAS I	347180	288028	348709	414454
Unmetered	7445	12770	156434	171000
Metered	339734	275259	192275	243454
IAS II Metered (Now Demand Based)	6766	6835	4688	4978
Public Service Connections	68028	69235	36200	35973
Public Water Works	2374	2058	3417	3399
Har Ghar Nal	65654	67176	32783	32574
LT Electric Vehicle Charging Station	280	260	92137	97447
Low Tension Industrial	97852	97669	86360	91103

Category	NBPDC		SBPDCL	
	Approved in TO, Dt 01.04.2023	Now Projected in APR	Approved in TO, Dt 01.04.2023	Now Projected in APR
Services				
LTIS I (0-19 kW)	96525	95592	5777	6344
LTIS II (>19 kW - 74 kW)	1327	2077	436	508
High Tension	1710	1779	2739	2941
HTS I - 11 kV	1613	1688	2489	2711
HTS II - 33 kV	90	84	245	225
HTS III -132 kV	7	6	5	5
HTS IV - 220 kV	0	1	0	0
HT-Industrial Services	8	8	48	33
HTIS (Industrial) – I (11 kV)	2	3	0	-
HTIS (Industrial)– II (33 kV)	1	4	0	-
HTIS (Industrial) – III (132 kV)	0	0	0	-
HTIS (Industries)-IV (220 kV)	1	0	0	-
HTIS (Oxygen Manufacturers)	1	1	35	33
HTSS - 33/11 kV	3	3	13	13
Railway Traction Services	8	8	3	
Nepal	1	-	10	10
HT Electric Vehicle Charging Stations.	6	-	0	0
Total	13220457	13027566	7610949	7725449

Category wise Energy Sales

The Petitioners submitted that the DISCOMs have already provided electricity connection to all willing BPL households in urban areas and both APL & BPL households in rural areas under Saubhagya Scheme/ Mukhyamantri Har Ghar Bijli Scheme.

The Petitioners have projected the category-wise sales based on the CAGR of the previous year's data and considering factors like present average consumption per consumer per month, new consumers to be added, population data, expected conversion of unauthorized connections, connected load factor and specific growth factors and wherever the data was incongruous such incongruity was ignored while projecting the load growth for the ensuing years.

The Petitioners submitted that the specific consumption level along with the number of consumers in each category gives the sales figure for that particular sub-category and the final detailed calculations estimate the connected load for each

tariff category. Also, 6 months provisional figure of FY 2024-25 was also used for revising the category wise sales for the above projected number of consumers for the year.

The Petitioners also submitted that the units sold are projected by taking average consumption per consumer per month and multiplying the same to the projected number of consumers to arrive at units sold for FY 2024-25.

The category wise sales approved in the Tariff Order dated 01.03.2024 and now projected in APR for FY 2024-25 is shown in the Table below:

Table 5.2: Energy Sales (MU) projected by NBPDCCL & SBPDCL for FY 2024-25

Category of Consum	NBPDCCL		SBPDCL	
	Approved in TO, Dt 01.04.23	Now Projected In APR	Approved in TO, Dt 01.04.23	Now Projected In APR
Domestic	9575.03	9154.45	8428.37	8093.40
Kutir Jyoti	2632.74	2750.97	929.07	1524
DS I Rural	4691.69	4501.22	3839.78	3346
DS II Demand Based	2250.21	1901.87	3659.24	3223
DS III	0.39	0.38	0.28	0.26
Non-Domestic Service	2250.85	1972.17	1917	1785
NDS I - Metered Now Demand Based	814.80	814.41	479.63	450
NDS II - Demand Based	1436.05	1157.76	1437.67	1335
Contract Demand <0.5 kW	2.19	1.70	6.05	6.17
Contract Demand >0.5 kW	1433.86	1156.06	1431.62	1329
Street Light Services	129.53	210.90	284.79	273
SS Metered	13.34	18.07	78.46	74
SS Unmetered	116.19	192.83	206.33	199
Irrigation & Allied Services	1942.17	1834.95	4430.23	4359
IAS I	1840.57	1688.34	4047.04	3991
Unmetered	9.95	18.68	894.66	977
Metered	1830.62	1669.66	3152.38	3014
IAS II	101.60	146.61	383.19	368
Public Service Connections	547.87	550.83	489.39	514.33
Public Water Works	45.82	38.92	175.26	153
Har Ghar Nal	502.05	511.91	314.13	361
Low Tension Industrial Services	561.86	479.12	483.88	547.93
LTIS I (0-19 kW)	519.48	435.13	330.39	339
LTIS II (>19 kW - 74 kW)	42.38	43.99	153.49	209
LT Electric Vehicle Charging Station	12.28	6.01	8.11	6.51
High Tension	1132.56	1023.78	2420.8	1922
HTS I - 11 kV	669.48	639.22	1206.89	943

Category of Consum	NBPDCCL		SBPDCL	
	Approved in TO, Dt 01.04.23	Now Projected In APR	Approved in TO, Dt 01.04.23	Now Projected In APR
HTS II - 33 kV	332.06	270.28	934.10	699
HTS III -132 kV	131.02	114.28	279.81	279
HTS IV - 220 kV	0.00	-	0.00	-
HT-Industrial Services	124.93	18.62	925.84	6.48
HTIS (Industrial) – I (11 kV)	2.54	6.80	-	-
HTIS (Industrial)– II (33 kV)	3.54	11.62	-	-
HTIS (Industrial) – III (132 kV)	0.00	-	-	-
HTIS (Industries)-IV (220 kV)	74.46		-	-
HTIS (Oxygen Manufacturers)	0.42	0.20	10.79	6.48
HTSS- (33kV/11kV)	43.97	36.60	915.05	789
Railway Traction Services	159.50	125.80	290.04	301.15
Nepal	314.22	0		
HT Electric Vehicle Charging Stations.	184.25	0	0.34	-
Sale to Sugar Mills	-	4.57	-	-
Sale to Solar Companies	-	0.71	-	-
IEX through PMC			-	683.03
Sale of Power to IEX through BSPHCL		581.84	-	-
Others	-	-	-	-
Total	16,935.05	16009.22	19679.09	19281.54

Connected load

The Petitioners have submitted that the connected load is calculated considering average connected Load per consumer of different categories as per the actuals, analysing CAGR of past years and multiplying it by projected number of consumers of each category separately to arrive at the connected load for FY 2024-25.

The category wise connected load approved in Tariff Order dated 01.03.2024 and now projected in APR is shown in the Table below:

Table 5.3: Connected Load projected by NBPDCCL & SBPDCL for FY 2024-25

Category of Consumers	NBPDCCL		SBPDCL	
	Approved in TO, Dt 01.03.2024	Now Projected in APR	Approved in TO, Dt 01.03.2024	Now Projected in APR
Domestic	9702178	9549141	8290057	8327047
Kutir Jyoti	1096976	1098615	385146	397620
DS I Rural	6046613	5950314	3343828	3432768

Category of Consumers	NBPDCCL		SBPDCL	
	Approved in TO, Dt 01.03.2024	Now Projected in APR	Approved in TO, Dt 01.03.2024	Now Projected in APR
DS II Demand Based	2558040	2499660	4560583	4496298
DS III	549	553	500	360.57
Non-Domestic Service	2021235	2000347	1894506	1926162
NDS I - Metered Now Demand Based	809956	892449	426529	448526
NDS II - Demand Based	1211279	1107898	1467977	1477636
Contract Demand <0.5 kW	1481	1363	5851	6241
Contract Demand >0.5 kW	1209798	1106535	1462126	1471395
Street Light Services	32125	31566	34976	38931
SS metered	5409	4871	11450	12149
SS Un metered	26716	26695	23526	26782
Irrigation & Allied Services	765215	614355	707754	833154
IAS I	707668	557118	666987	790060
Unmetered	27235	29389	326976	360142
Metered	680433	527729	340011	429918
IAS II	57547	57237	40767	43093
Public Service Connections	186994	185636	129558	130746
Public Water Works	35349	31331	52408	50947
Har Ghar Nal	151645	154304	77150	79799
LT Electric Vehicle Charging Stations	806	689	1007613	1059930
Low Tension Industrial Services	907136	898670	703532	730031
LTIS I (0-19 kW)	833936	802933	304081	329899
LTIS II (>19 kW - 74 kW)	73200	95737	2560	3601
High Tension	552856	555312	992036	1009000
HTS I - 11 kV	337571	362380	550595	607609
HTS II - 33 kV	127508	112179	365186	324381
HTS III -132 kV	87777	68003	76255	77010
HTS IV - 220 kV	0	12750	0.00	-
HT-Industrial Services	24833	6780	142438	6866
HTIS (Industrial) – I (11 kV)	1428	1981	-	-
HTIS (Industrial)– II (33 kV)	1122	4605	-	-
HTIS (Industrial) – III (132 kV)	0	-	-	-
HTIS (Industries)-IV (220 kV)	12500		-	-
HTIS (Oxygen Manufacturers)	194	194	7286	6866
HTSS - 33/11 kV	9589	9588	135152	135139
Railway Traction Services	60000	61800	94500	103515
Nepal	0	-		
HT Electric Vehicle Charging Stations	12338	-	0	-

Category of Consumers	NBPDC		SBPDCL	
	Approved in TO, Dt 01.03.2024	Now Projected in APR	Approved in TO, Dt 01.03.2024	Now Projected in APR
Total	14265716	13914901	13295998	13574090

Commission's analysis:

Number of Consumers

The Commission finds that Discoms have stated that since the State of Bihar has achieved 100% electrification, the growth, in consumers, have normalized in the past 2 years. The Successful implementation of RDSS, Saubhagya, Har Ghar Bijli and UDAY schemes, which are aimed to ensure that all the willing households are connected to the grid, leads to limited scope for addition of new consumers, particularly in KJY, DS-I and DS-II categories. Hence the growth rate in previous years under these categories was above the normal CAGR growth as large number of new connections were released.

The Commission, therefore, opines that the Discoms are in best position to estimate the growth in number of consumers. Hence, the Commission has provisionally considered the submission of Discoms in this regard. Based on above, the Commission has considered the same consumer numbers as requested by the Petitioners and approved the number of consumers for each consumer category in APR of FY 2024-25 as shown in the Table below:

Table 5.4: Number of Consumers considered for NBPDC & SBPDCL for FY 2024-25 (RE)

Category	NBPDC		SBPDCL	
	Projected by Petitioner	Considered by the Commission	Projected by Petitioner	Considered by the Commission
Domestic	11563807	11563807	6476313	6476313
Kutir Jyoti	4354193	4354193	1571239	1571239
DS I Rural	5764392	5764392	3245241	3245241
DS II Demand Based	1445130	1445130	1659679	1659679
DS III	92	92	155	155
Non-Domestic Service	996870	996870	690097	690097
NDS I - Metered Now Demand Based	589733	589733	260029	260029
NDS II - Demand Based	407137	407137	430068	430068
Contract Demand <0.5 kW	2561	2561	10720	10720
Contract Demand >0.5 kW	404576	404576	419348	419348
Street Light Services	3064	3064	2681	2681

Category	NBPDCCL		SBPDCL	
	Projected by Petitioner	Considered by the Commission	Projected by Petitioner	Considered by the Commission
SS Metered	752	752	1255	1255
SS Unmetered	2312	2312	1426	1426
Irrigation & Allied Services	294864	294864	419432	419432
IAS I	288028	288028	414454	414454
IAS II	6835	6835	4978	4978
Public Service Connections	69235	69235	35973	35973
Public Water Works	2058	2058	3399	3399
Har Ghar Nal	67176	67176	32574	32574
LT Electric Vehicle Charging Station	260	260	508	508
Low Tension Industrial Services	97669	97669	97447	97447
LTIS I (0-19 kW)	95592	95592	91103	91103
LTIS II (>19 kW - 74 kW)	2077	2077	6344	6344
High Tension	1779	1779	2941	2941
HTS I - 11 kV	1688	1688	2711	2711
HTS II - 33 kV	84	84	225	225
HTS III -132 kV	6	6	5	5
HTS IV - 220 kV	1	1	-	-
HT-Industrial Services	8	8	46	46
HTIS (Industrial) – I (11 kV)	3	3	-	-
HTIS (Industrial)– II (33 kV)	4	4	-	-
HTIS (Industrial) – III (132 kV)	0	0	-	-
HTIS (Industries)-IV (220 kV)	0	0	-	-
HTIS (Oxygen Manufacturers)	1	1	33	33
HTSS - 33/11 kV	3	3	13	13
HT Electric Vehicle Charging Stations	-	-	-	-
Railway Traction Services	8	8	10	10
Nepal	-	-	-	-
Total	13027566	13027566	7725449	7725449

Connected Load

The Petitioners have also submitted that the category-wise connected load is projected considering average connected load per consumer as per actual, CAGR of past years and multiplying it by projected number of consumers of concerned category to arrive at the connected load. The Commission has verified the computation of connected load as submitted by the Discoms and found them to be

in order.

The Commission has verified the computation of connected load as submitted by the Discoms and found them to be in order except for Kutir Jyoti.

The Commission has approved the connected load in review of FY 2024-25 as shown in the Table below:

Table 5.5: Connected Load (KW) considered for NBPDC & SBPDCL for FY 2024-25 (RE)

Category of Consumers	NBPDC		SBPDCL	
	Projected by Petitioner	Considered by the Commission	Projected by Petitioner	Considered by the Commission
Domestic	9549141	9549141	8327047	8327047
Kutir Jyoti	1098615	1098615	397620	397620
DS I Rural	5950314	5950314	3432768	3432768
DS II Demand Based	2499660	2499660	4496298	4496298
DS III	553	553	360.57	360.57
Non-Domestic Service	2000347	2000347	1926162	1926162
NDS I - Metered Now Demand Based	892449	892449	448526	448526
NDS II - Demand Based	1107898	1107898	1477636	1477636
Contract Demand <0.5 kW	1363	1363	6241	6241
Contract Demand >0.5 kW	1106535	1106535	1471395	1471395
Street Light Services	31566	31566	38931	38931
SS metered	4871	4871	12149	12149
SS Un metered	26695	26695	26782	26782
Irrigation & Allied Services	614355	614355	833154	833154
IAS I	557118	557118	790060	790060
Unmetered	29389	29389	360142	360142
Metered	527729	527729	429918	429918
IAS II	57237	57237	43093	43093
Public Service Connections	185636	185636	130746	130746
Public Water Works	31331	31331	50947	50947
Har Ghar Nal	154304	154304	79799	79799
LT Electric Vehicle Charging Stations	689	689	1059930	1059930
Low Tension Industrial Services	898670	898670	730031	730031
LTIS I (0-19 kW)	802933	802933	329899	329899
LTIS II (>19 kW - 74 kW)	95737	95737	3601	3601
High Tension	555312	555312	1009000	1009000
HTS I - 11 kV	362380	362380	607609	607609
HTS II - 33 kV	112179	112179	324381	324381
HTS III -132 kV	68003	68003	77010	77010
HTS IV - 220 kV	12750	12750	-	-
HT-Industrial Services	6780	6780	6866	6866
HTIS (Industrial) – I (11 kV)	1981	1981	-	-
HTIS (Industrial)– II (33 kV)	4605	4605	-	-

Category of Consumers	NBPDCCL		SBPDCL	
	Projected by Petitioner	Considered by the Commission	Projected by Petitioner	Considered by the Commission
HTIS (Industrial) – III (132 kV)	-	-	-	-
HTIS (Industries)-IV (220 kV)	-	-	-	-
HTIS (Oxygen Manufacturers)	194	194	6866	6866
HTSS - 33/11 kV	9588	9588	135139	135139
Railway Traction Services	61800	61800	103515	103515
Nepal	-	-	-	-
HT Electric Vehicle Charging Stations	-	-	-	-
Total	13914901	13914901	13574090	13574090

Energy Sales

The Commission notes that the Petitioners have projected category-wise energy sales for the year by taking average consumption per consumer per month and multiplying the same to the projected number of consumers. The Commission also notes the submission of the Petitioners wherein they have mentioned that the forecast for FY 2024-25 is based on expected growth relationships to income and price, effect of Demand Side Management and impact of hours of service.

For the purpose of estimation of sales for FY 2024-25, the Commission finds the methodology considered by the Petitioners as acceptable. The Commission has verified the detailed of sales projections as submitted by Discoms and found them to be in order. However, It is observed that for Kutir Jyoti category, NBPDCCL has considered 52.65 units / consumer / month whereas SBPDCL has considered 80.84 units / consumer / month which is not as per norms of 50 units / consumer / month, for projecting total energy sales for this category. In view of this, sales of Kutir Jyoti category is modified and approved by the Commission.

The Commission has also noted that the figure of energy sales submitted by both DISCOMS for street light unmetered category are unrealistic and directed the Petitioner to submit the methodology for assessing the unmetered sale. The Petitioners submitted the same for assessing the sale for un-metered category of consumers, the Petitioners have adopted the methodology as prescribed by the Commission in the tariff order for FY 2017-18 dated 24th March 2017. The extract of the same is provided hereunder for ease of reference:

“The Commission has revised the Norms of energy consumption to be considered for various **unmetered categories** for estimating energy sales for FY 2017-18 are as given below:

Category	Consumption
KJY	50 units per connection per month
DS-I	75 units per kW per month
NDS-I	50 units per kW per month
IAS-I	1485 units per kW per annum
IAS-II	3620 units per kW per annum
SS	25 units per 100 watts per month

Based on the above submission, the Commission has re-estimated the energy sales for streetlight (un-metered) on the basis of 25 units per 100 watts per month (i.e. 250 units per kW per month). The Commission has recomputed the sales by taking norms as discussed above and as given in true up chapter section 4.2.

Accordingly, the Commission approves total energy sales (MU) for FY 2024-25 as projected by the Petitioners with modification as discussed above, as shown in Table below:

Table 5.6: Energy Sales (MU) considered for NBPDCCL & SBPDCL for FY 2024-25 (RE)

Category of Consumers	NBPDCCL		SBPDCL	
	Projected by Petitioner	Considered by the Commission	Projected by Petitioner	Considered by the Commission
Domestic	9154.45	9154.45	8093.40	8093.40
Kutir Jyoti	2750.97	2612.52	1524	942.74
DS I Rural	4501.22	4639.67	3346	3927.43
DS II Demand Based	1901.87	1901.87	3223	3222.97
DS III	0.38	0.38	0.26	0.26
Non-Domestic Service	1972.17	1972.17	1785	1784.75
NDS I - Metered Now Demand Based	814.41	814.41	450	449.54
NDS II - Demand Based	1157.76	1157.76	1335	1335.22
Contract Demand <0.5 kW	1.70	1.70	6.17	6.17
Contract Demand >0.5 kW	1156.06	1156.06	1329	1329.04
Street Light Services	210.90	98.16	273	154.15
SS Metered	18.07	18.07	74	74.18
SS Unmetered	192.83	80.09	199	80.34
Irrigation & Allied Services	1834.95	1834.95	4359	4359.29
IAS I	1688.34	1688.34	3991	3991.13
Unmetered	18.68	18.68	977	977.38
Metered	1669.66	1669.66	3014	3013.76
IAS II	146.61	146.61	368	368.16
Public Service Connections	550.83	550.83	514.33	514.33
Public Water Works	38.92	38.92	153	153.37
Har Ghar Nal	511.91	511.91	361	360.96
Low Tension Industrial Services	479.12	479.12	547.93	547.93
LTIS I (0-19 kW)	435.13	435.13	339	339.05
LTIS II (>19 kW - 74 kW)	43.99	43.99	209	208.88

Category of Consumers	NBPDC		SBPDCL	
	Projected by Petitioner	Considered by the Commission	Projected by Petitioner	Considered by the Commission
LT Electric Vehicle Charging Station	14.87	14.87	6.51	6.51
High Tension General	1023.78	1023.78	1922	1921.83
HTS I - 11 kV	639.22	639.22	943	943.10
HTS II - 33 kV	270.28	270.28	699	699.40
HTS III -132 kV	114.28	114.28	279	279.33
HTS IV - 220 kV	-	-	-	-
HT-Industrial Services	55.22	55.22	795.48	795.48
HTIS (Industrial) – I (11 kV)	6.80	6.80	-	-
HTIS (Industrial)– II (33 kV)	11.62	11.62	-	-
HTIS (Industrial) – III (132 kV)	-	-	-	-
HTIS (Industries)-IV (220 kV)	-	-	-	-
HTIS (Oxygen Manufacturers)	0.20	0.20	6.48	6.48
HTSS- (33kV/11kV)	36.60	36.60	789	789
Railway Traction Services	125.80	125.80	301.15	301.15
Nepal	256.55	160.00	-	-
HT Electric Vehicle Charging Stations.	0	0	-	-
SLDC Deviation	0	0	-	-
Sale to other state	-	-	-	-
Sale to Sugar Mills	4.57	4.57	-	-
Sale to Solar Companies	0.71	0.71	-	-
Sale of Power to IEX through BSPHCL	581.84	0.00	-	-
IEX through PMC	-	-	683.03	-
Total	16009.22	15474.64	19281.54	18479.34

The above category - wise number of consumers, connected load and energy sales considered for FY 2024-25 (RE) are provisional and while truing up for FY 2024-25, the actual figures based on Audited Annual Accounts and prudence check will be considered.

The Discoms are directed to get the category - wise connected load audited by a 3rd party also and exhibit the same in the audited annual accounts of FY 2024-25 along with category -wise number of consumers and energy sales.

5.3. Distribution Losses for FY 2024-25

Petitioners' submission:

The Petitioners submits that the Government of India, through Ministry of Power has introduced "Revamped Distribution Sector Scheme – A Reform based, and Results linked scheme" in July 2021. The scheme is applicable for all the State/UTs Utilities or Power Departments to avail such financial assistance under the revamped scheme. The scheme has a total outlay of Rs 3,03,758 Crores with an estimated gross budgetary support of Rs 97,631 Crores (~32% of total outlay) from

the Government of India.

It is stated that the Petitioners have participated in the said scheme and submitted the action plan, DPR of the total project outlay & roadmap for AT&C Loss reduction to the State Government for its approval in the month of March 2022. The Monitoring Committee for RDSS constituted under the Chairmanship of Secretary (Power), Govt of India, in its 9th meeting held on 28.04.2022, has approved the Action Plan and Loss Reduction DPR of NBPDCCL and SBPDCL under Revamped Distribution Sector Scheme. Accordingly, the Monitoring Committee approved the following trajectory for AT&C loss for the Petitioner.

Discom	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
NBPDCCL	25%	22%	19%	16%
SBPDCL	35%	31%	25%	20%

Hence, it would be appropriate and realistic for the DISCOMs that the projections for the AT&C losses be approved by the Commission in line with the trajectory approved in the RDSS.

Further, the Petitioners in its Tariff Petition for determination of Tariff for FY 2024-25 had requested the Commission to consider the distribution loss and AT&C loss as per the targets approved under the RDSS. The Commission, in the Tariff Order dated 01st March 2024, has approved distribution losses, collection efficiency and AT&C loss for the FY 2024-25, as shown in Table below:

Table 5.7: Distribution loss, Billing Efficiency and AT&C losses projected by NBPDCCL & SBPDCL for FY 2024-25

Sl. No.	Particular	NBPDCCL	SBPDCL
1	Distribution Loss (%)	14.55%	17.49%
2	Billing Efficiency (%)	85.45%	82.51%
3	Collection Efficiency (%)	98.30%	96.96%
4	AT&C Loss (%)	16.00%	20.00%

Commission's analysis:

The Govt. of India introduced Revamped Distribution Sector Scheme (RDSS) scheme- A reform based and results linked scheme. The DISCOMs have participated in the scheme and submitted the action plan and DPR. The Monitoring Committee for RDSS has approved the action plan and AT&C loss reduction of NBPDCCL and SBPDCL for FY 2021-22 to FY 2024-25 as given in the table below.

Table 5.8: AT& C Loss Target Under RDSS Scheme

Discom	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
NBPDCCL	25%	22%	19%	16%
SBPDCL	35%	31%	25%	20%

The Ministry of Power, Govt of India, vide letter F.No.24/3/3/2019-PFC (MoP)-Part(2)-(E-263367) dated 28.08.2023 and also the Rules issued vide its GSR 558 (E) dated 26th July 2023 has provided that the AT&C loss reduction trajectory adopted by the SERC for tariff determination shall be in accordance with the trajectory agreed by the respective State Governments and approved by the Central Government under RDSS and the BERC may adopt the trajectory in accordance with the Rules. Accordingly, the Commission in its tariff order dated 01.03.2024 has considered the AT&C loss trajectory for FY 2024-25 as specified in the RDSS scheme. The same is considered for APR of FY 2024-25 as given below:

Table 5.9: Distribution and AT& C Loss Target for FY 2024-25

Particulars	NBPDCCL	SBPDCL
Distribution Loss	14.55%	17.49%
Collection Efficiency	98.30%	96.96%
AT&C Loss	16.00%	20.00%

The Commission has considered the Distribution loss at 14.55% and 17.49% for FY 2024-25 for NBPDCCL and SBPDCL respectively for computation of Energy Requirement.

5.4. Transmission Losses for FY 2024-25

Petitioners' submission:

The Petitioners have considered Transmission Loss of 3.00% as approved by the Commission in its previous Tariff Order.

Commission's analysis:

The Commission observed that, Petitioners claim of Transmission Loss of 3%, whereas computation of State Transmission loss as per data provided by SLDC is arrived at 2.65%. Therefore, the Commission has considered the State Transmission loss at 2.65% for FY 2024-25, subject to True-up based on actuals.

5.5. Central Transmission Loss for FY 2024-25

Petitioners' submission:

The Petitioners have submitted that they have considered Transmission Loss of 3.55% as per last 52 weeks data and accordingly requested the Commission to consider the same.

Commission's analysis:

The Commission has considered the CTU loss at 3.55% for FY 2024-25 as projected by the Petitioner. However, while truing up for FY 2024-25 the actual CTU loss based on audited accounts and prudence check will be considered.

5.6. Power Purchase for FY 2024-25**Petitioners' submission:**

The DISCOMs submitted that they rely on allocation from central generating stations and state projects for procuring power for meeting the requirement of energy sale in the state. This power has been proposed to be apportioned between NBPDCCL and SBPDCL in the proportion as determined by the Board resolution as detailed below.

Bihar State Power Holding Company Ltd (BSPHCL) issued vide its Resolution No.55-10 dated 14th July 2017, one notification for approval regarding apportionment distribution of power purchase quantum between NBPDCCL and SBPDCL. The notification states the following:

"RESOLVED THAT Power Purchase & Transmission charges bills are to be admitted and payment by both DISCOMs i.e NBPDCCL and SBPDCL in the ratio 46:54 respectively w.e.f.1-4-2017 subjected to the final reconciliation of actual consumption"

RESOLVED FURTHER THAT Chairman cum Managing Director, BSHPCL are here by authorized for deciding the power consumption ratio subsequently as per the actual consumption of both the DISCOMS based on the average consumption of the last 6 months of power drawal of both the DISCOMs i.e. NBPDCCL and SBPDCL"

Power purchase projection submitted by NBPDCCL and SBPDCL in APR for FY 2024-25 are as detailed below:

The power purchase from the new sources has been considered on the basis of commissioning status received from generators and CEA reports. Some of the new plants that are scheduled for Commissioning in FY 2024-25 are as follows:

S. No	Name of Unit	Expected COD	Quantum (MW)	Plant type
1	NTPC NORTH KARANPUR UNIT #3	Mar-25	297.00	Thermal
2	BUXAR TPP UNIT #1	Jan-25	561.00	Thermal
3	Adani Solar	May-24	150.00	Solar
4	AVADA GREEN	Jul-24	50.00	Solar
5	ACME DEOGHAR/ACME DHAULPUR	Mar-25	150.00	Solar
6	SBE RENEWABLES SIXTEEN PVT LTD	Jan-25	180.00	Solar
7	GREENKO ENERGY HYBRID	Mar-25	210.00	Hybrid
8	FLOATING SOLAR	Mar-25	10.00	Solar
9	CANAL BANK SOLAR	Nov-24	2.00	Solar
10	ACME SOLAR JAISELMER	Mar-25	500.00	Solar

Further the allocation of power from the new projects is in the ratio of 46:54 for NBPDC & SBPDCL as per the Board resolution.

The Petitioner submitted that for Projecting the Power Purchase Quantum for FY 2024-25, The Petitioner has considered the actual Power Purchase quantum for the period April to September 2024 and projected for remaining months based on the following methodology.

- i). Share allocation has been considered as per Eastern Regional Power Committee.
- ii). The Plant Load Factor (PLF) for each plant has been considered as per CEA Report- Monthly/Annual Report for existing conventional plants based on average of PLF of last 5 years as applicable and the current six months PLF of FY 2024-25. For new and upcoming plants, the minimum technical level PLF of 60% is considered for projection.
- iii). Normative auxiliary consumption provided by Central Electricity Regulatory Commission (CERC) for the Thermal and Hydro plants and the auxiliary consumptions specified for plants.
- iv). For the state plants PLF highest value of PLF norms specified by BERC and the plant wise auxiliary consumption determined by BERC for thermal, and biomass has been considered. For the solar plants CUF has been considered as specified in their respective Power Purchase Agreement/ Power Supply Agreements
- v). Considering the PLF as mentioned above and using the power purchase

allocation data, total number of units purchased was calculated from every source/ plant for every month separately.

Accordingly, the projections of power purchase for FY 2024-25 is tabulated below:

Table 5.8: Power purchase allocation projected by NBPDC & SBPDCL for FY 2024-25

Name of The Source	NBPDC		SBPDCL		Total	
	Share allocated (MW)	Units purchased (MU)	Share allocated (MW)	Units purchased (MU)	Share allocated (MW)	Units purchased (MU)
Stations with injection at CTU	3,314	14,183	3,890	16,649	7,204	30,832
NTPC(BARH-I)	530	1,301	623	1,527	1,153	2,828
NTPC(BARH-II)	369	1,521	433	1,786	802	3,307
NTPC (DARLIPALLI)	149	941	175	1,105	324	2,046
NTPC (FARAKKA - I & II)	189	555	221	651	410	1,206
NTPC (FARAKKA - III)	45	138	53	162	98	300
NTPC (KAHALGAUN - I)	24	75	28	88	52	163
NTPC (KAHALGAUN - II)	29	100	34	118	63	218
NTPC (NORTH KARANPURA)	273	1,807	321	2,122	594	3,929
NTPC (TALCHAR)	186	1,142	218	1,341	404	2,483
NTPC (KBUNL-II)	133	414	156	486	289	900
NTPC NORTH KARANPUR UNIT #3	137	449	160	527	297	976
NABINAGAR POWER GENERATION COMPANY LIMITED	754	4,977	885	5,842	1,639	10,819
BHARTIYA RAIL BIJLEE COMPANY LIMITED	46	149	54	175	100	324
NHPC (RANGIT)	11	60	12	70	23	130
NHPC (TEESTA)	49	124	58	145	107	269
PTC (TALA)	120	70	140	82	260	152
PTC (CHUKHA)	43	74	50	87	93	161
PTC (MANGDECHHU)	131	212	154	248	285	460
PTC(KURUCHU)	2	0	2	0	4	0
PTC(NEPAL)	96	75	113	88	209	163
Stations with injection at STU	771	1,547	905	1,816	1,676	3,363
NTPC (BARAUNI-II)	230	1,288	270	1,512	500	2,800
BUXAR TPP UNIT #1	258	242	303	284	561	526
BUXAR TPP UNIT #2	258	-	303	-	561	
EAST GANDAK H.E.PROJECT, VALMIKINAGAR	7	8	8	10	15	18
TRIVENI S.H. PROJECT, TRIVENI (VALMIKINAGAR)	1	3	2	3	3	6
SONE EASTERN H.E. PROJECT, BARUN	2	1	2	2	4	3

Name of The Source	NBPDC		SBPDCL		Total	
	Share allocated (MW)	Units purchased (MU)	Share allocated (MW)	Units purchased (MU)	Share allocated (MW)	Units purchased (MU)
SONE WESTERN H.E. PROJECT, DEHRI-ON-SONE	3	1	4	1	7	2
SONE WESTERN H.E. PROJECT, KOSI	9	3	11	4	20	7
AGNOOR S.H. PROJECT, AGNOOR	0	-	1	-	1	
DHELABAGH S.H.PROJECT, DHELABAGH	0	0	1	0	1	0
NASHRIGANJ S H.PROJECT, NASHRIGANJ	0	0	1	0	1	0
JAINAGRAH S.H.PROJECT, JAINAGRAH	0	0	1	0	1	0
SRIKHINDA S.H. PROJECT, SRIKHINDA	0	0	0	0	0	0
SEBARI S.H.PROJECT, SEBARI	0	0	1	0	1	0
ARWAL S.H.PROJECT, ARWAL	0	0	0	0	0	0
BELSAR S.H.PROJECT, BELSAR	0	0	1	0	1	0
IPPs	224	1,423	264	1,671	488	3,094
GMR KAMALANGA ENERGY LIMITED	120	792	140	930	260	1,722
JINDAL INDIA THARMAL POWER LIMITED	105	632	123	741	228	1,373
Renewables	1,679	2,264	1,971	2,658	3,650	4,922
TIRUPATI SUGAR LIMITED	3	6	3	7	6	13
HARINAGAR SUGAR MILL	7	13	8	16	15	29
HASANPUR SUGAR MILL	5	10	5	12	10	22
BHARAT SUGAR MILL	7	0	8	0	15	0
BIHAR DISTILLERS AND BOTTLERS PRIVATE LIMITED	4	8	5	10	9	18
GLATT SOLUTION PRIVATE LIMITED	1	2	2	3	3	5
SECI (FOCAL)	5	8	5	10	10	18
SB ENERGY SIX PRIVATE LIMITED (NTPC)	138	338	27	91	165	429
RESPONCE RENEWABLE ENERGY PRIVATE LIMITED	5	8	54	159	59	167
SECI (RENEW SUNWAVES PRIVATE LIMITED)	138	332	27	67	165	399
SECI (GRT Jewellers)	69	130	54	170	123	300
AVANTIKA CONTRACTOR (I) PVT. LTD.	2	4	27	82	29	86
Welspun I	5	7	27	88	32	95
Welspun II	7	11	27	87	34	98
Welspun III	7	11	27	82	34	93
UDIPTA ENERGY AND EQUIPMENT PRIVATE LIMITED	2	4	162	427	164	431

Name of The Source	NBPDC		SBPDCL		Total	
	Share allocated (MW)	Units purchased (MU)	Share allocated (MW)	Units purchased (MU)	Share allocated (MW)	Units purchased (MU)
SUNMARK ENERGY PROJECT LIMITED	5	7	162	397	167	404
ACME (MAGADH)	5	7	5	9	10	16
ACME (NALANDA)	7	11	5	14	12	25
AZURE POWER ERIS PVT. LTD.	5	7	162	390	167	397
Avada power eris pvt ltd	23	20	81	153	104	173
ALFA INFRA PROP PVT. LTD.	5	12	3	4	8	16
SECI (VIVID SOLAIRE ENERGY PVT. LTD.)	23	78	5	9	28	87
SECI (GREEN INFRA WIND ENERGY PVT. LTD.)	46	135	8	13	54	148
SECI (Morjar Windfarms Pvt. Ltd.)	23	57	8	13	31	70
SECI (GREENKO SIRONJ WIND POWER PVT. LTD.)	46	145	3	4	49	149
PTC (OSTRO KUTCH WIND PRIVATE LIMITED)	23	70	5	9	28	79
PTC (GREEN INFRA RENEWABLE ENERGY LIMITED)	23	75	5	9	28	84
PTC (MYTRAH VAYU SABARMATI PRIVATE LIMITED)	23	74	8	13	31	87
SECI (ALFANAR ENERGY PVT. LTD.)	23	70	5	8	28	78
SECI (OSTRO KANNADA POWERPRIVATE LMITED)	138	364	27	23	165	387
Adani Solar	69	117	81	137	150	254
Avada Clean	23	25	27	30	50	55
ACME DEOGHAR/ACME DHAULPUR	69	11	81	12	150	23
SBE RENEWABLES SIXTEEN PVT LTD	83	38	97	45	180	83
GREENKO ENERGY HYBRID	97	10	113	12	210	22
FLOATING SOLAR	5	1	5	1	10	2
CANAL BANK SOLAR	1	1	1	1	2	2
ACME SOLAR JAISELMER	230	35	270	42	500	77
Others		1,197		1,405		2,602
IEX DAM		111		130		241
IEX RTM		204		239		443
IEX TAM		12		14		26
IEX GDAM		43		50		93
IEX GTAM		0		0		0
PXIL TAM		36		42		78
Nepal Electricity Authority		0		0		0

Name of The Source	NBPDCCL		SBPDCL		Total	
	Share allocated (MW)	Units purchased (MU)	Share allocated (MW)	Units purchased (MU)	Share allocated (MW)	Units purchased (MU)
TATA POWER SHORT TERM		275		322		597
PTC SHORT TERM		377		443		820
UI		140		165		305
Total	5,988	20,614	7,030	24,199	13,018	44,813

Commission's analysis:**Power Purchase Quantum**

The Commission has noted that for projecting the Power Purchase quantum of FY 2024-25, the Petitioners have considered the actual Power Purchase quantum for the period from April 2024 to September 2024 and projected the energy purchase for remaining months.

Further, power purchase for the new sources has been considered by the Petitioners based on the commissioning status as per details given below:

S. No	Name of Unit	Expected COD	Quantum (MW)	Plant type
1	NTPC NORTH KARANPUR UNIT #3	Mar-25	297.00	Thermal
2	BUXAR TPP UNIT #1	Jan-25	561.00	Thermal
3	Adani Solar	May-24	150.00	Solar
4	AVADA GREEN	Jul-24	50.00	Solar
5	ACME DEOGHAR/ACME DHAULPUR	Mar-25	150.00	Solar
6	SBE RENEWABLES SIXTEEN PVT LTD	Jan-25	180.00	Solar
7	GREENKO ENERGY HYBRID	Mar-25	210.00	Hybrid
8	FLOATING SOLAR	Mar-25	10.00	Solar
9	CANAL BANK SOLAR	Nov-24	2.00	Solar
10	ACME SOLAR JAISELMER	Mar-25	500.00	Solar

The Commission has not considered the power purchase from Noth Karanpura Unit-3, Buxar TPP Unit-1, Greenko Energy Hybrid, Floating Solar and Canal based Solar (as mentioned at serial no 1,2,7,8 & 9 in the above table) due to their non-commissioning till date. Further, the Commission observes that based on power availability from various sources, there will be surplus power availability in FY 2024-25. The Commission directs Discoms to schedule the energy following Least Cost principle duly observing Merit Order Despatch (MoD) principle.

The Commission approves the power purchase quantum-based on MoD principle. As per MoD principle, the plants which are not "Must Run" are stacked in ascending order of their variable cost (Rs/kWh). The following table shows the details of Merit Order Dispatch considered for FY 2024-25 for estimating the power purchase requirement for FY 2024-25

The Commission approves the power purchase from various sources / stations for FY 2024-25 based on the above Merit Order, and energy requirement of the Discoms. The approved power purchase quantum is shown in Table below:

Note 1: The above MOD List is based on the average energy cost (Rs/kWh) for first six months of FY 2024-25. However, in case of any variation in energy cost the revised merit list may be prepared and be followed while scheduling power from these sources.

2: While analyzing the power purchase requirement of the petitioner vis-a vis expected availability from different sources, the Commission has taken the estimated availability of power from different sources on the basis of certain assumptions as per available data. The power purchase from energy exchange as proposed by the Petitioner is considered for FY 2024-25. In this connection it is clarified that in case the availability of power drops due to any reason at any time, then for matching the requirement of providing 24X7 power to all, the Petitioners' may exercise the possibility of short-term procurement from available options including purchase from exchanges by following the least cost method approach. Here it is also clarified that for any such procurement other than that from power exchange(s) prior approval of the Commission shall be necessary.

The power availability and power purchase quantum from various sources for FY 2024-25 has been worked out by the Commission, based on the PLF and as estimated by the Petitioner as well as following MoD principle, as shown in the Table below,

Table 5.9: Power Purchase Availability considered by the Commission for NBPDC & SBPDCL for FY 2024-25 (MU)

Sl. No	Particulars	Bihar share allocation (MW)	NBPDC share allocation (MW)	SBPDCL share allocation (MW)	Computed Avg PLF % (24-25)	Energy available as per PLF (MU)	Energy purchase after MoD (MU)	SBPDCL (54%)	NBPDC (46%)
I	Stations with injection at CTU	6909.00	3179.00	3,730.00		40268.33	28,957.00	15,636.78	13,320.22
1.	NTPC(Barh-I)	1,153	530.00	623.00	62.57%	6,318.34	3,475.09	1,876.55	1,598.54
2.	NTPC(Barh-II)	802	369.00	433.00	91.43%	6,420.00	3,531.00	1,906.74	1,624.26
3.	NTPC (Darlipalli)	324	149.00	175.00	80.72%	2,286.96	2,286.96	1,234.96	1,052.00
4.	NTPC (Farakka - I & II)	410	189.00	221.00	62.89%	2,259.29	1,242.61	671.01	571.60
5.	NTPC (Farakka - III)	98	45.00	53.00	62.89%	535.65	294.60	159.09	135.52
6.	NTPC (Kahalgaun - I)	52	24.00	28.00	68.68%	309.95	309.95	167.37	142.58
7.	NTPC (Kahalgaun - II)	63	29.00	34.00	76.92%	429.00	429.00	231.66	197.34
8.	NTPC (North Karanpura)	594	273.00	321.00	77.78%	4,044.47	4,044.47	2,184.01	1,860.46
9.	NTPC (Talchar)	404	186.00	218.00	80.97%	2,865.00	2,865.00	1,547.10	1,317.90
10.	NTPC (Kbunl-II)	289	133.00	156.00	76.94%	1,948.43	1,948.43	1,052.15	896.28
11.	Nabinagar Power Generation Company Limited	1,639	754.00	885.00	76.00%	10,915.00	6,863.62	3,706.36	3,157.27
12.	Bhartiya Rail Bijlee Company Limited	100	46.00	54.00	68.49%	599.95	329.97	178.18	151.79
13.	NHPC (Rangit)	23	11.00	12.00	61.90%	130.43	130.43	70.43	60.00
14.	NHPC (Teesta)	107	49.00	58.00	59.50%	268.96	268.96	145.24	123.72
15.	PTC (Tala)	260	120.00	140.00	13.83%	151.92	151.92	82.04	69.89
16.	PTC (Chukha)	93	43.00	50.00	40.88%	160.81	160.81	86.83	73.97
17.	PTC (Mangdechhu)	285	131.00	154.00	38.29%	460.17	460.17	248.49	211.68
18.	PTC (Kuruchu)	4	2.00	2.00	4.96%	0.71	0.71	0.39	0.33
19.	PTC(Nepal)	209	96.00	113.00	85.00%	163.28	163.28	88.17	75.11
II	Stations with injection at STU	555.00	252.00	303.00		2,922.48	2,820.07	1,522.84	1,297.23
1	NTPC (Barauni-II)	500.00	230.00	270.00	63.52%	2,884.76	2,782.35	1,502.47	1,279.88
2	BSHPC	55.00	22.00	33.00		37.72	37.72	20.37	17.35

Sl. No	Particulars	Bihar share allocation (MW)	NBDCL share allocation (MW)	SBPDCL share allocation (MW)	Computed Avg PLF % (24-25)	Energy available as per PLF (MU)	Energy purchase after MoD (MU)	SBPDCL (54%)	NBDCL (46%)
III	IPPs	488.00	225.00	263.00		3,684.03	3,684.03	1,989.38	1,694.65
1	GMR Kamalanga Energy Limited	260.00	120.00	140.00	87.03%	1,982.03	1,982.03	1,070.30	911.73
2	Jindal India Thermal Power Limited	228.00	105.00	123.00	85.22%	1,702.00	1,702.00	919.08	782.92
IV	Renewables	2813.00	1,297.00	1516.00		4,897.60	4,897.60	2644.70	2,252.90
1	Tirupati Sugar Limited	6.00	3.00	3.00	54.59%	13.13	13.13	7.09	6.04
2	Harinagar Sugar Mill	15.00	7.00	8.00	50.33%	29.25	29.25	15.79	13.45
3	Hasanpur Sugar Mill	10.00	5.00	5.00	50.33%	22.37	22.37	12.08	10.29
4	Bharat Sugar Mill	15.00	7.00	8.00	0.00%	0.41	0.41	0.22	0.19
5	Bihar Distillers And Bottlers Private Limited	9.00	4.00	5.00	21.88%	17.67	17.67	9.54	8.13
6	Glatt Solution Private Limited	3.00	1.00	2.00	18.86%	5.20	5.20	2.81	2.39
7	Seci (Focal)	10.00	5.00	5.00	21.84%	17.85	17.85	9.64	8.21
8	Sb Energy Six Private Limited (NTPC)	300.00	138.00	162.00	28.95%	735.45	735.45	397.14	338.31
9	Responce Renewable Energy Private Limited	10.00	5.00	5.00	18.86%	17.24	17.24	9.31	7.93
10	Seci (Renew Sunwaves Private Limited)	300.00	138.00	162.00	27.97%	722.75	722.75	390.29	332.47
11	Seci (GRT Jewellers)	150.00	69.00	81.00	18.86%	282.77	282.77	152.70	130.08
12	Avantika Contractor (I) Pvt. Ltd.	5.00	2.00	3.00	18.86%	7.86	7.86	4.24	3.62
13	Welspun I	10.00	5.00	5.00	18.86%	16.13	16.13	8.71	7.42
14	Welspun II	15.00	7.00	8.00	18.86%	23.89	23.89	12.90	10.99
15	Welspun III	15.00	7.00	8.00	18.86%	24.20	24.20	13.07	11.13
16	Udipta Energy And Equipment Private Limited	5.00	2.00	3.00	18.86%	7.69	7.69	4.15	3.54
17	Sunmark Energy Project Limited	10.00	5.00	5.00	18.86%	16.25	16.25	8.77	7.47
18	Acme (Magadh)	10.00	5.00	5.00	18.86%	16.04	16.04	8.66	7.38
19	Acme (Nalanda)	15.00	7.00	8.00	18.86%	23.50	23.50	12.69	10.81
20	Azure Power Eris Pvt. Ltd.	10.00	5.00	5.00	18.86%	15.24	15.24	8.23	7.01
21	Avada Power Eris Pvt Ltd	50.00	23.00	27.00	18.86%	43.00	43.00	23.22	19.78

Sl. No	Particulars	Bihar share allocation (MW)	NBDCL share allocation (MW)	SBPDCL share allocation (MW)	Computed Avg PLF % (24-25)	Energy available as per PLF (MU)	Energy purchase after MoD (MU)	SBPDCL (54%)	NBDCL (46%)
22	Alfa Infra Prop Pvt. Ltd.	10.00	5.00	5.00	18.86%	25.29	25.29	13.66	11.63
23	Seci (Vivid Solaire Energy Pvt. Ltd.)	50.00	23.00	27.00	31.76%	169.36	169.36	91.46	77.91
24	Seci (Green Infra Wind Energy Pvt. Ltd.)	100.00	46.00	54.00	31.76%	294.29	294.29	158.92	135.38
25	Seci (Morjar Windfarms Pvt. Ltd.)	50.00	23.00	27.00	21.84%	124.39	124.39	67.17	57.22
26	Seci (Greenko Sironj Wind Power Pvt. Ltd.)	100.00	46.00	54.00	31.76%	315.58	315.58	170.41	145.17
27	Ptc (Ostro Kutch Wind Private Limited)	50.00	23.00	27.00	31.76%	151.68	151.68	81.91	69.77
28	Ptc (Green Infra Renewable Energy Limited)	50.00	23.00	27.00	31.76%	163.04	163.04	88.04	75.00
29	Ptc (Mytrah Vayu Sabarmati Private Limited)	50.00	23.00	27.00	31.76%	161.00	161.00	86.94	74.06
30	Seci (Alfanar Energy Pvt. Ltd.)	50.00	23.00	27.00	31.76%	151.82	151.82	81.98	69.84
31	Seci (Ostro Kannada Powerprivate Limited)	300.00	138.00	162.00	29.78%	791.46	791.46	427.39	364.07
32	Adani Solar	150.00	69.00	81.00	21.84%	253.72	253.72	137.01	116.71
33	Avada Clean	50.00	23.00	27.00	18.86%	55.07	55.07	29.74	25.33
34	Acme Deoghar/Acme Dhaulpur	150.00	69.00	81.00	21.84%	23.07	23.07	12.46	10.61
35	SBE Renewables Sixteen Pvt Ltd	180.00	83.00	97.00	21.84%	83.04	83.04	44.84	38.20
36	Acme Solar Jaiselmer	500.00	230.00	270.00	21.84%	76.89	76.89	41.52	35.37
V	Others		-	-		2,298.00	2,298.00	1,240.00	1,058.00
1	IEX DAM		-	-		241.00	241.00	130.00	111.00
2	IEX RTM		-	-		443.00	443.00	239.00	204.00
3	IEX TAM		-	-		26.00	26.00	14.00	12.00
4	IEX GDAM		-	-		93.00	93.00	50.00	43.00
6	PXIL TAM		-	-		78.00	78.00	42.00	36.00
8	TATA POWER SHORT TERM		-	-		597.00	597.00	322.00	275.00
9	PTC SHORT TERM		-	-		820.00	820.00	443.00	377.00
	Grand Total	10765.00	4953.00	5812		54070.44	42,656.69	23,033.70	19,623.00

5.7. Energy Balance for FY 2024-25**Petitioners' submission:**

Based on above discussed elements such as sales, losses and power availability, the Petitioners submitted the revised energy balance projected for FY 2024-25 as under:

Table 5.10: Energy Balance Projected by NBPDC & SBPDCL for FY 2024-25

Sr.no.	Particulars	FY 2024-25 NBPDC	FY 2024-25 SBPDCL
	Energy Requirement		
1	Energy Sales	15,427	18,599
2	Less: Sale	-	-
4	Energy sales (excl. SLDC deviation and interstate Sales)	15,427	18,599
5	Distribution Loss	14.55%	17.49%
6	Add: Distribution Loss	2,627	3,942
7	Energy required at Distribution periphery	18,054	22,541
8	Add: Interstate sales	-	-
10	Energy required at Transmission Periphery	18,613	22,541
11	State Transmission Loss	3.00%	3.00%
12	Add State Transmission Loss	558	697
13	Total Energy required at state Periphery	18,613	23,238
14	Losses in Regional Transmission System	3.55%	3.55%
15	Add: Losses in Regional Transmission System	684	854
16	Total Energy requirement at Ex-Bus	19,297	24,092
17	Total Energy Purchased	20,614	24,199
18	Energy Surplus/(Deficit)	1317	107
19	surplus energy sale	585	686
20	Energy Surplus/Deficit after sale of surplus energy (NBPDC)	732	732
21	Energy Surplus/Deficit after sale of surplus energy (SBPDCL)	(579)	(579)
22	UI at state level	(153)	(153)
23	Net Energy Surplus/Deficit	0	0

Particulars (Mus)	NBPDC	SBPDCL	Bihar level
Surplus	1,317	107	1,424
Energy sale to exchange	(585)	(686)	(1,271)
Remaining available	732	(579)	153
NB sale to SB/SB purchase from NB	(579)	579	0.00
Remaining after inter-se allocation	153	0.00	153
UI State level	(153)	0.00	(153)
Net energy surplus/(Deficit)	0.00	0.00	0.00

For NBPDC, there is surplus energy available at ex-bus to the tune of 1317 MU. For SBPDCL, there is energy surplus at ex-bus shall be 107 MU as given below:

As can be seen from above, energy surplus in NBPDCCL is energy deficit of SBPDCL. As the power will be allocated between the DISCOM, hence the energy surplus of NBPDCCL will compensate the energy deficit of SBPDCL.

Commission's analysis:

The Energy Balance for FY 2024-25 has been computed based on the approved energy sales for FY 2024-25 and power availability derived by following MoD.

Distribution loss has been considered at 14.55 % and 17.49 % for NBPDCCL and SBPDCL respectively as projected by the Discoms for FY 2024-25. Further, Energy required at State transmission periphery is computed based on the intra- State Transmission loss of 2.65% as approved in Para 5.4 above. The Central Transmission loss on Central Stations, IPPs, etc has been considered based on the CTU losses approved at 3.55 % in para 5.5 above. The energy balance is given below.

Table 5.14: Energy Balance for FY 2024-25 as considered by the Commission

Sl. No	Particulars	Unit	NBPDCCL	SBPDCL
A	Energy Requirement			
1	Energy sales	MU	15,474.64	18,479.34
2	Less: Inter-state sales (including banking)	MU	160	0.00
3	Energy sales excluding Inter-state sales	MU	15,314.64	18,479.34
4	Distribution Loss	%	14.55%	17.49%
5	Add: Distribution Loss	MU	2,607.70	3,917.15
6	Total energy required at Distribution periphery	MU	17,922.34	22,396.49
7	Add: Inter-state sales	MU		
8	Total energy required at Distribution periphery	MU	17,922.34	22,396.49
9	State Transmission Loss	%	2.65%	2.65%
10	Add: State Transmission Loss	MU	487.87	609.66
11	Total energy required at State Transmission Periphery	MU	18,410.21	23,006.15
B	Energy Available			
1	From Central Sector Stations injecting at CTU	MU	12,705.53	14,915.18
2	From IPP	MU	1,694.65	1,989.38
3	From Stations injecting at STU (Except RE)	MU	1,279.88	1,502.47
4	From Renewable Sources	MU	2,270.25	2,665.07
5	UI (Net)	MU	0.00	0.00
5	NHPC+PTC Hydro	MU	614.69	721.59
5a	Others		1,058.00	1,240.00
7	Total	MU	19,623.00	23,033.70
8	CTU losses applicable on item 1&2, 5, 5a	MU	16,072.87	18,866.15
9	CTU losses	%	3.55%	3.55%

Sl. No	Particulars	Unit	NBPDCCL	SBPDCL
10	CTU losses	MU	570.59	669.75
11	Net Power available at State periphery	MU	19,052.41	22,363.95
C (B11-A11)	Energy Surplus/(Deficit) at State Periphery	MU	642.20	(642.20)
	Energy Surplus/(Deficit) at State Periphery after intra-Discom adjustment		NIL	

As shown in the above Table, the Commission has arrived at surplus energy of NBPDCCL at 642.20 MU and Deficit energy of SBPDCL at 642.20 MU based on the energy sales and approved Distribution losses. Therefore, after adjustment, no power will be surplus or deficit at State level.

5.8. Power Purchase Cost

Petitioners' submission:

The Petitioners have submitted that the power purchase cost mainly comprises of fixed charges and energy charges for two-part Tariff stations i.e. NTPC, NHPC & PTC. The energy charges and fixed cost for these power stations are considered an escalation of 6.71% and 5.57% escalation on the previous year i.e. FY 2024-25 on energy charges and fixed cost respectively for these power stations.

Due to the impact of coal blending the variable cost of the Thermal Power Plants increased upto as high as 10% with respect to the cost prevailing in April. Further, the Commission in its order dated 1st October 2024 in the matter of True up for FY 2010-11 to FY 2015-16 for Bihar State Hydro Power Corporation Limited approved gap of Rs. 17.27 crore and accordingly the Petitioners have claimed the same amount for recovery in FY 2024-25. .

The Petitioners have considered the new plants as per information available with them. The new plants for which cost details are not available, the cost break-up of similar capacity plants has been considered for projection.

Power purchase cost projection submitted by NBPDCCL and SBPDCL for APR period FY 2024-25 is summarized as shown in Table below:

Table 5.11: Power Purchase Cost Projected by NBPDC for FY 2024-25

Sr. No	Particulars	FY 2024-25		Rs. Crore			Rs. Unit
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost	Energy Cost	Total Cost	Total Cost
I	Stations with injection at CTU	3,314	14,183	3,079	3,832	6,911	4.87
1	NTPC(BARH-I)	530	1,301	392	439	832	6.40
2	NTPC(BARH-II)	369	1,521	370	542	912	5.99
3	NTPC (DARLIPALLI)	149	941	165	116	281	2.98
4	NTPC (FARAKKA - I & II)	189	555	65	199	263	4.75
5	NTPC (FARAKKA - III)	45	138	28	47	75	5.41
6	NTPC (KAHALGAUN - I)	24	75	9	25	34	4.57
7	NTPC (KAHALGAUN - II)	29	100	9	31	40	4.00
8	NTPC (NORTH KARANPURA)	273	1,807	434	284	717	3.97
9	NTPC (TALCHAR)	186	1,142	114	217	331	2.90
10	NTPC (KBUNL-II)	133	414	112	125	237	5.73
11	NTPC NORTH KARANPUR UNIT #3	137	449	108	70	178	3.97
12	NABINAGAR POWER GENERATION COMPANY LIMITED	754	4,977	1,209	1,487	2,696	5.42
13	BHARTIYA RAIL BIJLEE COMPANY LIMITED	46	149	38	47	85	5.72
14	NHPC (RANGIT)	11	60	14	13	26	4.40
15	NHPC (TEESTA)	49	124	13	15	28	2.26
16	PTC (TALA)	120	70	-	17	17	2.40
17	PTC (CHUKHA)	43	74	-	24	24	3.21
18	PTC (MANGDECHHU)	131	212	-	94	94	4.42
19	PTC(KURUCHU)	2	0	-	-0	0	3.13
20	PTC(NEPAL)	96	75	-	41	41	5.50

Sr. No	Particulars	FY 2024-25		Rs. Crore			Rs. Unit
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost	Energy Cost	Total Cost	Total Cost
II	Stations with injection at STU	771	1,547	369	463	832	5.38
1	NTPC (BARAUNI-I)	-	-	-	-	-	-
2	NTPC (BARAUNI-II)	230	1,288	297	377	674	5.23
3	BUXAR TPP UNIT #1	258	242	73	82	155	6.40
4	BUXAR TPP UNIT #2	258	-	-	-	-	-
5	EAST GANDAK H.E.PROJECT, VALMIKINAGAR	7	8	-	2	2	2.49
6	TRIVENI S.H. PROJECT, TRIVENI (VALMIKINAGAR)	1	3	-	1	1	2.49
7	SONE EASTERN H.E. PROJECT, BARUN	2	1	-	0	0	2.49
8	SONE WESTERN H.E. PROJECT, DEHRI-ON-SONE	3	1	-	0	0	2.49
9	SONE WESTERN H.E. PROJECT, KOSI	9	3	-	1	1	2.49
10	AGNOOR S.H. PROJECT, AGNOOR	0	-	-	-	-	-
11	DHELABAGH S.H.PROJECT, DHELABAGH	0	0	-	0	0	2.49
12	NASHRIGANJ S H.PROJECT, NASHRIGANJ	0	0	-	0	0	2.49
13	JAINAGRAH S.H.PROJECT, JAINAGRAH	0	0	-	0	0	2.49
14	SRIKHINDA S.H. PROJECT, SRIKHINDA	0	0	-	0	0	2.49
15	SEBARI S.H.PROJECT, SEBARI	0	0	-	0	0	2.49
16	ARWAL S.H.PROJECT, ARWAL	0	0	-	0	0	2.49
17	BELSAR S.H.PROJECT, BELSAR	0	0	-	0	0	2.49
III	IPPs	224	1,423	347	175	522	3.66
1	GMR KAMALANGA ENERGY LIMITED	120	792	147	100	247	3.12
2	JINDAL INDIA THARMAL POWER LIMITED	105	632	200	75	275	4.35
IV	Renewables	1,679	2,264	-	675	675	2.98

Sr. No	Particulars	FY 2024-25		Rs. Crore			Rs. Unit
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost	Energy Cost	Total Cost	Total Cost
1	TIRUPATI SUGAR LIMITED	3	6	-	5	5	7.52
2	HARINAGAR SUGAR MILL	7	13	-	10	10	7.52
3	HASANPUR SUGAR MILL	5	10	-	8	8	7.52
4	BHARAT SUGAR MILL	7	0	-	0	0	7.52
5	HPCL BIOFUELS LIMITED, SUGAULI	-	-	-	-	-	
6	HPCL BIOFUELS LIMITED, LAURIYA	-	-	-	-	-	
7	NEW SWADESHI SUGAR MILL	5	-	-	-	-	
8	RIGA SUGAR COMPANY LIMITED	1	-	-	-	-	
9	BIHAR DISTILLERS AND BOTTLERS PRIVATE LIMITED	4	8	-	7	7	8.21
10	SIDHASHRAM RICE MILL CLUSTER PVT. LTD	1	-	-	-	-	
11	GLATT SOLUTION PRIVATE LIMITED	1	2	-	2	2	7.02
12	SECI (FOCAL)	5	8	-	5	5	5.91
13	SB ENERGY SIX PRIVATE LIMITED (NTPC)	138	338	-	90	90	2.67
14	RESPONCE RENEWABLE ENERGY PRIVATE LIMITED	5	8	-	6	6	7.02
15	SECI (RENEW SUNWAVES PRIVATE LIMITED)	138	332	-	87	87	2.62
16	SECI (GRT Jewellers)	69	130	-	34	34	2.60
17	AVANTIKA CONTRACTOR (I) PVT. LTD.	2	4	-	3	3	7.69
18	Welspun I	5	7	-	6	6	8.69
19	Welspun II	7	11	-	9	9	8.64
20	Welspun III	7	11	-	10	10	8.56
21	UDIPTA ENERGY AND EQUIPMENT PRIVATE LIMITED	2	4	-	3	3	7.98
22	SUNMARK ENERGY PROJECT LIMITED	5	7	-	5	5	7.02
23	ACME (MAGADH)	5	7	-	6	6	8.73
24	ACME (NALANDA)	7	11	-	9	9	8.73

Sr. No	Particulars	FY 2024-25		Rs. Crore			Rs. Unit
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost	Energy Cost	Total Cost	Total Cost
25	AZURE POWER ERIS PVT. LTD.	5	7	-	6	6	8.39
26	Avada power eris pvt ltd	23	20	-	8	8	4.16
27	ALFA INFRA PROP PVT. LTD.	5	12	-	9	9	7.96
28	SECI (VIVID SOLAIRE ENERGY PVT. LTD.)	23	78	-	20	20	2.52
29	SECI (GREEN INFRA WIND ENERGY PVT. LTD.)	46	135	-	34	34	2.51
30	SECI (Morjar Windfarms Pvt. Ltd.)	23	57	-	13	13	2.19
31	SECI (GREENKO SIRONJ WIND POWER PVT. LTD.)	46	145	-	39	39	2.71
32	PTC (OSTRO KUTCH WIND PRIVATE LIMITED)	23	70	-	25	25	3.53
33	PTC (GREEN INFRA RENEWABLE ENERGY LIMITED)	23	75	-	26	26	3.53
34	PTC (MYTRAH VAYU SABARMATI PRIVATE LIMITED)	23	74	-	26	26	3.53
35	SECI (ALFANAR ENERGY PVT. LTD.)	23	70	-	18	18	2.52
36	SECI (OSTRO KANNADA POWERPRIVATE LIMITED)	138	364	-	80	80	2.18
37	Adani Solar	69	117	-	32	32	2.72
38	Avada Clean	23	25	-	8	8	3.11
39	ACME DEOGHAR/ACME DHAULPUR	69	11	-	3	3	2.51
40	SBE RENEWABLES SIXTEEN PVT LTD	83	38	-	10	10	2.72
41	ADANI GREEN ENERGY	276	-	-	-	-	
42	GREENKO ENERGY HYBRID	97	10	-	5	5	4.57
43	FLOATING SOLAR	5	1	-	0	0	3.87
44	CANAL BANK SOLAR	1	1	-	0	0	3.10
45	ACME SOLAR JAISELMER	230	35	-	9	9	2.51
V	Others		1,197	-	946	946	7.90
1	IEX DAM		111		85	85	7.63

Sr. No	Particulars	FY 2024-25		Rs. Crore			Rs. Unit
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost	Energy Cost	Total Cost	Total Cost
2	IEX RTM		204		127	127	6.26
3	IEX TAM		12		13	13	10.55
4	IEX GDAM		43		26	26	6.04
5	IEX GTAM		0		0	0	10.52
6	PXIL TAM		36		41	41	11.66
7	Nepal Electricity Authority		0		0	0	7.98
8	TATA POWER SHORT TERM		275		218	218	7.94
9	PTC SHORT TERM		377		298	298	7.90
10	UI		140		138	138	9.80
	BSHPC Revenue Gap				8	8	
VI	Transmission Charges			1,741		1,741	
1	PGCIL			1,036		1,036	
2	BSPTCL (including SLDC)			592		592	
3	BGCL			107		107	
4	ERLDC (POSOCO)			5		5	
VII	Total	5,988	20,614	5,536	6,098	11,635	5.64

Table 5.12: Power Purchase Cost Projected by SBPDCL for FY 2024-25

Sr.	Particulars	FY 2024-25		Rs. Crore			Rs. Unit
No		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost	Energy Cost	Total Cost	Total Cost
I	Stations with injection at CTU	3,890	16,649	3,615	4,498	8,113	4.87
1	NTPC(BARH-I)	623	1,527	461	516	976	6.40
2	NTPC(BARH-II)	433	1,786	434	636	1,070	5.99
3	NTPC (DARLIPALLI)	175	1,105	193	136	329	2.98
4	NTPC (FARAKKA - I & II)	221	651	76	233	309	4.75
5	NTPC (FARAKKA - III)	53	162	33	55	88	5.41
6	NTPC (KAHALGAUN - I)	28	88	11	29	40	4.57
7	NTPC (KAHALGAUN - II)	34	118	11	36	47	4.00
8	NTPC (NORTH KARANPURA)	321	2,122	509	333	842	3.97
9	NTPC (TALCHAR)	218	1,341	134	255	389	2.90
10	NTPC (KBUNL-II)	156	486	132	147	279	5.73
11	NTPC NORTH KARANPUR UNIT #3	160	527	126	83	209	3.97
12	NABINAGAR POWER GENERATION COMPANY LIMITED	885	5,842	1,419	1,745	3,165	5.42
13	BHARTIYA RAIL BIJLEE COMPANY LIMITED	54	175	45	55	100	5.72
14	NHPC (RANGIT)	12	70	16	15	31	4.40
15	NHPC (TEESTA)	58	145	15	18	33	2.26
16	PTC (TALA)	140	82	-	20	20	2.40
17	PTC (CHUKHA)	50	87	-	28	28	3.21
18	PTC (MANGDECHHU)	154	248	-	110	110	4.42
19	PTC(KURUCHU)	2	0	-	0	0	3.13
20	PTC(NEPAL)	113	88	-	48	48	5.50
II	Stations with injection at STU	905	1,816	434	544	977	5.38
1	NTPC (BARAUNI-I)	-	-	-	-	-	
2	NTPC (BARAUNI-II)	270	1,512	348	443	791	5.23
3	BUXAR TPP UNIT #1	303	284	86	96	181	6.40
4	BUXAR TPP UNIT #2	303	-	-	-	-	
5	EAST GANDAK H.E.PROJECT, VALMIKINAGAR	8	10	-	2	2	2.49
6	TRIVENI S.H. PROJECT, TRIVENI (VALMIKINAGAR)	2	3	-	1	1	2.49

Sr.	Particulars	FY 2024-25		Rs. Crore			Rs. Unit
No		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost	Energy Cost	Total Cost	Total Cost
7	SONE EASTERN H.E. PROJECT, BARUN	2	2	-	0	0	2.49
8	SONE WESTERN H.E. PROJECT, DEHRI-ON-SONE	4	1	-	0	0	2.49
9	SONE WESTERN H.E. PROJECT, KOSI	11	4	-	1	1	2.49
10	AGNOOR S.H. PROJECT, AGNOOR	1	-	-	-	-	
11	DHELABAGH S.H.PROJECT, DHELABAGH	1	0	-	0	0	2.49
12	NASHRIGANJ S H.PROJECT, NASHRIGANJ	1	0	-	0	0	2.49
13	JAINAGRAH S.H.PROJECT, JAINAGRAH	1	0	-	0	0	2.49
14	SRIKHINDA S.H. PROJECT, SRIKHINDA	0	0	-	0	0	2.49
15	SEBARI S.H.PROJECT, SEBARI	1	0	-	0	0	2.49
16	ARWAL S.H.PROJECT, ARWAL	0	0	-	0	0	2.49
17	BELSAR S.H.PROJECT, BELSAR	1	0	-	0	0	2.49
III	IPPs	264	1,671	407	205	612	3.66
1	GMR KAMALANGA ENERGY LIMITED	140	930	172	117	290	3.12
2	JINDAL INDIA THARMAL POWER LIMITED	123	741	235	88	323	4.35
IV	Renewables	1,971	2,658	-	792	792	2.98
1	TIRUPATI SUGAR LIMITED	3	7	-	5	5	7.52
2	HARINAGAR SUGAR MILL	8	16	-	12	12	7.52
3	HASANPUR SUGAR MILL	5	12	-	9	9	7.52
4	BHARAT SUGAR MILL	8	0	-	0	0	7.52
5	HPCL BIOFUELS LIMITED, SUGAULI	-	-	-	-	-	
6	HPCL BIOFUELS LIMITED, LAURIYA	-	-	-	-	-	
7	NEW SWADESHI SUGAR MILL	5	-	-	-	-	
8	RIGA SUGAR COMPANY LIMITED	2	-	-	-	-	
9	BIHAR DISTILLERS AND BOTTLERS PRIVATE LIMITED	5	10	-	8	8	8.21
10	SIDDHASHRAM RICE MILL CLUSTER PVT. LTD	1	-	-	-	-	
11	GLATT SOLUTION PRIVATE LIMITED	2	3	-	2	2	7.02
12	SECI (FOCAL)	5	10	-	6	6	5.91
13	SECI (VIVID SOLAIRE ENERGY PVT. LTD.)	27	91	-	23	23	2.52

Sr.	Particulars	FY 2024-25		Rs. Crore			Rs. Unit
No		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost	Energy Cost	Total Cost	Total Cost
14	SECI (GREEN INFRA WIND ENERGY PVT. LTD.)	54	159	-	40	40	2.51
15	SECI (Morjar Windfarms Pvt. Ltd.)	27	67	-	15	15	2.19
16	SECI (GREENKO SIRONJ WIND POWER PVT. LTD.)	54	170	-	46	46	2.71
17	PTC (OSTRO KUTCH WIND PRIVATE LIMITED)	27	82	-	29	29	3.53
18	PTC (GREEN INFRA RENEWABLE ENERGY LIMITED)	27	88	-	31	31	3.53
19	PTC (MYTRAH VAYU SABARMATI PRIVATE LIMITED)	27	87	-	31	31	3.53
20	SECI (ALFANAR ENERGY PVT. LTD.)	27	82	-	21	21	2.52
21	SECI (OSTRO KANNADA POWERPRIVATE LIMITED)	162	427	-	93	93	2.18
22	SB ENERGY SIX PRIVATE LIMITED (NTPC)	162	397	-	106	106	2.67
23	RESPONCE RENEWABLE ENERGY PRIVATE LIMITED	5	9	-	7	7	7.02
24	ALFA INFRA PROP PVT. LTD.	5	14	-	11	11	7.96
25	SECI (RENEW SUNWAVES PRIVATE LIMITED)	162	390	-	102	102	2.62
26	SECI (GRT Jewellers)	81	153	-	40	40	2.60
27	AVANTIKA CONTRACTOR (I) PVT. LTD.	3	4	-	3	3	7.69
28	WELSPUN I	5	9	-	8	8	8.69
29	WELSPUN II	8	13	-	11	11	8.64
30	WELSPUN III	8	13	-	11	11	8.56
31	UDIPTA ENERGY AND EQUIPMENT PRIVATE LIMITED	3	4	-	3	3	7.98
32	SUNMARK ENERGY PROJECT LIMITED	5	9	-	6	6	7.02
33	ACME (MAGADH)	5	9	-	8	8	8.73
34	ACME (NALANDA)	8	13	-	11	11	8.73
35	AZURE POWER ERIS PVT. LTD.	5	8	-	7	7	8.39
36	AVADA POWER ERIS PVT LTD	27	23	-	10	10	4.16
37	ADANI SOLAR	81	137	-	37	37	2.72
38	AVADA CLEAN	27	30	-	9	9	3.11
39	ACME DEOGHAR/ACME DHAULPUR	81	12	-	3	3	2.51
40	SBE RENEWABLES SIXTEEN PVT LTD	97	45	-	12	12	2.72
41	ADANI GREEN ENERGY	324	-	-	-	-	
42	GREENKO ENERGY HYBRID	113	12	-	5	5	4.57
43	FLOATING SOLAR	5	1	-	0	0	3.87

Sr.	Particulars	FY 2024-25		Rs. Crore			Rs. Unit
No		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost	Energy Cost	Total Cost	Total Cost
44	CANAL BANK SOLAR	1	1	-	0	0	3.10
45	ACME SOLAR JAISELMER	270	42	-	10	10	2.51
V	Others		1,405	-	1,110	1,110	7.90
1	IEX DAM		130		99	99	6.26
2	IEX RTM		239		150	150	10.55
3	IEX TAM		14		15	15	6.04
4	IEX GDAM		50		30	30	10.52
5	IEX GTAM		0		0	0	11.66
6	PXIL TAM		42		49	49	7.98
7	Nepal Electricity Authority		0		0	0	7.94
8	TATA POWER SHORT TERM		322		256	256	7.90
9	PTC SHORT TERM		443		350	350	9.80
10	UI		165		162	162	9.80
	BSHPC Revenue Gap				9	9	
VI	Transmission charges			2,044		2,044	
1	PGCIL			1,217		1,217	
2	BSPTCL (inclduing SLDC)			695		695	
3	BGCL			126		126	
4	ERLDC (POSOCO)			6		6	
VII	Total	7,030	24,199	6,499	7,149	13,658	5.64

Commissions analysis

The Petitioners have provided detailed estimate of power purchase quantum and cost from various sources showing fixed costs, energy costs and other costs in Format -5 of the Petition.

On a query from the Commission, the Petitioners have clarified, in the additional information submitted, about the fixed costs and energy costs, projected for FY 2024-25 as below;

- a) The power purchase cost mainly comprises of fixed charges and energy charges for two-part tariff stations i.e., NTPC, NHPC & PTC in case of Petitioner. The Petitioners have considered an escalation of 6.71% and 5.57% escalation on the previous year i.e. FY 2023-24 on energy charges and fixed cost respectively for these power stations.
- b) Further, transmission charges have been increased by 10% with respect to the actual Transmission charges paid the Petitioner in the previous financial year FY 2023-24 (true-up).
- c) The details of new plants have been considered as per information available with the Petitioner.

The Commission has reviewed the fixed cost and energy cost projected by the Petitioners. For fixed charges, the Commission considers a 3% hike over actual fixed cost paid (in terms of Rs Crore) during FY 2023-24 (true-up). The Commission has verified the actual energy charges (in terms of Rs/kWh) prevailing during first six months and average of the same is considered. For renewable energy sources, the energy rates are considered as projected by the Petitioner which are as per the PPAs. Other costs related to purchase cost from exchange is considered as submitted by Petitioners. However, the Petitioners should explain the reasons for such purchase and justification of cost while submitting the true-up Petition for FY 2024-25. The justification of costs will be analysed during true-up of FY 2024-25, based on the submission of the Petitioners, in this regard. The Commission has computed the quantum (MUs) and cost (Rs. Crore) of power purchase as shown in the Tables below. However, the actual power purchase cost for FY 2024-25 for NBPDCCL & SBPDCL will be considered at actual as per audited annual accounts with prudence check while trueing up of ARR for FY 2024-25 in next Tariff Order.

Table 5.13: Power Purchase Cost for NBPDC for FY 2024-25 as computed by Commission.

Sl. No	Particulars	NBPDC share allocation (MW)	Units approved NBPDC (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
I	Stations with injection at CTU	3179.00	13320.22		3356.98	3241.91	6598.89	4.95
1	NTPC(Barh-I)	530.00	1,598.54	3.07	490.66	377.23	867.88	5.43
2	NTPC(Barh-II)	369.00	1,624.26	3.01	489.46	670.29	1,159.75	7.14
3	NTPC (Darlipalli)	149.00	1,052.00	1.23	129.40	171.67	301.07	2.86
4	NTPC (Farakka - I & II)	189.00	571.60	3.33	190.63	84.32	274.94	4.81
5	NTPC (Farakka - III)	45.00	135.52	3.29	44.59	43.62	88.22	6.51
6	NTPC (Kahalgaun - I)	24.00	142.58	2.75	39.17	65.35	104.52	7.33
7	NTPC (Kahalgaun - II)	29.00	197.34	2.57	50.62	16.86	67.48	3.42
8	NTPC (North Karanpura)	273.00	1,860.46	1.57	292.09	232.59	524.69	2.82
9	NTPC (Talchar)	186.00	1,317.90	1.83	241.33	122.60	363.93	2.76
10	NTPC (Kbunl-II)	133.00	896.28	2.62	234.53	226.73	461.26	5.15
11	Nabinagar Power Generation Company Limited	754.00	3157.27	2.87	905.05	1,138.59	2043.64	6.47
12	Bhartiya Rail Bijlee Company Limited	46.00	151.79	3.04	46.07	63.20	109.27	7.20
13	NHPC (Rangit)	11.00	60.00	2.11	12.68	10.76	23.44	3.91
14	NHPC (Teesta)	49.00	123.72	1.23	15.18	18.09	33.26	2.69
15	PTC (Tala)	120.00	69.89	2.40	16.75	-	16.75	2.40
16	PTC (Chukha)	43.00	73.97	3.21	23.74	-	23.74	3.21
17	PTC (Mangdechhu)	131.00	211.68	4.42	93.63	-	93.63	4.42
18	PTC (Kuruchu)	2.00	0.33	3.13	0.10	-	0.10	3.13
19	PTC(Nepal)	96.00	75.11	5.50	41.31	-	41.31	5.50
II	Stations with injection at STU	252.00	1,297.23		317.78	275.08	592.87	4.57
1	NTPC (Barauni-II)	230.00	1,279.88	2.45	313.46	275.08	588.55	4.60
2	BSHPC	22.00	17.35	2.49	4.32	-	4.32	2.49

Sl. No	Particulars	NBPDC share allocation (MW)	Units approved NBPDC (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
III	IPPs	225.00	1,694.65		206.39	389.13	595.53	3.51
1	GMR Kamalanga Energy Limited	120.00	911.73	1.26	114.88	157.60	272.48	2.99
2	Jindal India Thermal Power Limited	105.00	782.92	1.17	91.51	231.53	323.05	4.13
IV	Renewables	1297.00	2252.90		669.55	0.00	669.55	2.97
1	Tirupati Sugar Limited	3.00	6.04	7.52	4.54	-	4.54	7.52
2	Harinagar Sugar Mill	7.00	13.45	7.52	10.12	-	10.12	7.52
3	Hasanpur Sugar Mill	5.00	10.29	7.52	7.74	-	7.74	7.52
4	Bharat Sugar Mill	7.00	0.19	7.52	0.14	-	0.14	7.52
5	Bihar Distillers And Bottlers Private Limited	4.00	8.13	8.21	6.67	-	6.67	8.21
6	Glatt Solution Private Limited	1.00	2.39	7.02	1.68	-	1.68	7.02
7	Seci (Focal)	5.00	8.21	5.91	4.85	-	4.85	5.91
8	Sb Energy Six Private Limited (NTPC)	138.00	338.31	2.67	90.33	-	90.33	2.67
9	Responce Renewable Energy Private Limited	5.00	7.93	7.02	5.57	-	5.57	7.02
10	Seci (Renew Sunwaves Private Limited)	138.00	332.47	2.62	87.11	-	87.11	2.62
11	Seci (GRT Jewellers)	69.00	130.08	2.60	33.82	-	33.82	2.60
12	Avantika Contractor (I) Pvt. Ltd.	2.00	3.62	7.69	2.78	-	2.78	7.69
13	Welspun I	5.00	7.42	8.69	6.45	-	6.45	8.69
14	Welspun II	7.00	10.99	8.64	9.49	-	9.49	8.64
15	Welspun III	7.00	11.13	8.56	9.53	-	9.53	8.56
16	Udipta Energy And Equipment Private Limited	2.00	3.54	7.98	2.82	-	2.82	7.98
17	Sunmark Energy Project Limited	5.00	7.47	7.02	5.25	-	5.25	7.02
18	Acme (Magadh)	5.00	7.38	8.73	6.44	-	6.44	8.73
19	Acme (Nalanda)	7.00	10.81	8.73	9.44	-	9.44	8.73
20	Azure Power Eris Pvt. Ltd.	5.00	7.01	8.39	5.88	-	5.88	8.39
21	Avada Power Eris Pvt Ltd	23.00	19.78	4.16	8.23	-	8.23	4.16

Sl. No	Particulars	NBPDC share allocation (MW)	Units approved NBPDC (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
22	Alfa Infra Prop Pvt. Ltd.	5.00	11.63	7.96	9.27	-	9.27	7.96
23	Seci (Vivid Solaire Energy Pvt. Ltd.)	23.00	77.91	2.52	19.63	-	19.63	2.52
24	Seci (Green Infra Wind Energy Pvt. Ltd.)	46.00	135.38	2.51	33.98	-	33.98	2.51
25	Seci (Morjar Windfarms Pvt. Ltd.)	23.00	57.22	2.19	12.50	-	12.50	2.19
26	Seci (Greenko Sironj Wind Power Pvt. Ltd.)	46.00	145.17	2.71	39.34	-	39.34	2.71
27	Ptc (Ostro Kutch Wind Private Limited)	23.00	69.77	3.53	24.63	-	24.63	3.53
28	Ptc (Green Infra Renewable Energy Limited)	23.00	75.00	3.53	26.47	-	26.47	3.53
29	Ptc (Mytrah Vayu Sabarmati Private Limited)	23.00	74.06	3.53	26.14	-	26.14	3.53
30	Seci (Alfanar Energy Pvt. Ltd.)	23.00	69.84	2.52	17.60	-	17.60	2.52
31	Seci (Ostro Kannada Powerprivate Limited)	138.00	364.07	2.18	79.55	-	79.55	2.18
32	Adani Solar	69.00	116.71	2.72	31.75	-	31.75	2.72
33	Avada Clean	23.00	25.33	3.11	7.88	-	7.88	3.11
34	Acme Deoghar/Acme Dhaulpur	69.00	10.61	2.51	2.66	-	2.66	2.51
35	SBE Renewables Sixteen Pvt Ltd	83.00	38.20	2.72	10.39	-	10.39	2.72
36	Acme Solar Jaiselmer	230.00	35.37	2.51	8.88	-	8.88	2.51
V	Others	-	1,058.00		817.19	-	817.19	7.72
1	IEX DAM	-	111.00	7.63	84.69		84.69	7.63
2	IEX RTM	-	204.00	6.26	127.70		127.70	6.26
3	IEX TAM	-	12.00	10.55	12.66		12.66	10.55
4	IEX GDAM	-	43.00	6.04	25.97		25.97	6.04
6	PXIL TAM	-	36.00	11.66	41.98		41.98	11.66
8	TATA POWER SHORT TERM	-	275.00	7.94	218.35		218.35	7.94
9	PTC SHORT TERM	-	377.00	7.90	297.83		297.83	7.90
VI	BSHPC Revenue Gap	-		-	8.00		8.00	
	Grand Total	4953.00	19623.00		5367.90	3906.13	9274.03	4.73

Table 5.14: Power Purchase Cost for SBPDCL for FY 2024-25 as computed by Commission

Sl. No	Particulars	SBPDCL share allocation (MW)	Units approved SBPDCL (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
I	Stations with injection at CTU	3730.00	15636.78		3940.80	4047.49	7988.29	5.11
1	NTPC(Barh-I)	623.00	1,876.55	3.07	575.99	470.85	1,046.84	5.58
2	NTPC(Barh-II)	433.00	1,906.74	3.01	574.58	836.67	1,411.25	7.40
3	NTPC (Darlipalli)	175.00	1,234.96	1.23	151.90	214.28	366.18	2.97
4	NTPC (Farakka - I & II)	221.00	671.01	3.33	223.78	105.98	329.76	4.91
5	NTPC (Farakka - III)	53.00	159.09	3.29	52.35	54.63	106.98	6.72
6	NTPC (Kahalgaun - I)	28.00	167.37	2.75	45.98	81.58	127.56	7.62
7	NTPC (Kahalgaun - II)	34.00	231.66	2.57	59.42	21.05	80.47	3.47
8	NTPC (North Karanpura)	321.00	2,184.01	1.57	342.89	290.33	633.22	2.90
9	NTPC (Talchar)	218.00	1,547.10	1.83	283.30	153.03	436.33	2.82
10	NTPC (Kbunl-II)	156.00	1052.15	2.62	275.32	283.01	558.33	5.31
11	Nabinagar Power Generation Company Limited	885.00	3,706.36	2.87	1062.45	1,421.19	2,483.64	6.70
12	Bhartiya Rail Bijlee Company Limited	54.00	178.18	3.04	54.08	78.88	132.96	7.46
13	NHPC (Rangit)	12.00	70.43	2.11	14.88	13.43	28.31	4.02
14	NHPC (Teesta)	58.00	145.24	1.23	17.82	22.58	40.39	2.78
15	PTC (Tala)	140.00	82.04	2.40	19.66	0.00	19.66	2.40
16	PTC (Chukha)	50.00	86.83	3.21	27.87	0.00	27.87	3.21
17	PTC (Mangdechhu)	154.00	248.49	4.42	109.92	0.00	109.92	4.42
18	PTC (Kuruchu)	2.00	0.39	3.13	0.12	0.00	0.12	3.13
19	PTC(Nepal)	113.00	88.17	5.50	48.49	0.00	48.49	5.50
II	Stations with injection at STU	303.00	1,522.84		373.05	343.36	716.41	4.70
1	NTPC (Barauni-II)	270.00	1,502.47	2.45	367.98	343.36	711.34	4.73
2	BSHPC	33.00	20.37	2.49	5.07	-	5.07	2.49

Sl. No	Particulars	SBPDCL share allocation (MW)	Units approved SBPDCL (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
III	IPPs	263.00	1,989.38		242.29	485.71	728.00	3.66
1	GMR Kamalanga Energy Limited	140.00	1,070.30	1.26	134.86	196.71	331.57	3.10
2	Jindal India Thermal Power Limited	123.00	919.08	1.17	107.43	289.00	396.43	4.31
IV	Renewables	1516.00	2644.70		786.00	0.00	786.00	2.97
1	Tirupati Sugar Limited	3.00	7.09	7.52	5.33	-	5.33	7.52
2	Harinagar Sugar Mill	8.00	15.79	7.52	11.88	-	11.88	7.52
3	Hasanpur Sugar Mill	5.00	12.08	7.52	9.08	-	9.08	7.52
4	Bharat Sugar Mill	8.00	0.22	7.52	0.17	-	0.17	7.52
5	Bihar Distillers And Bottlers Private Limited	5.00	9.54	8.21	7.83	-	7.83	8.21
6	Glatt Solution Private Limited	2.00	2.81	7.02	1.97	-	1.97	7.02
7	Seci (Focal)	5.00	9.64	5.91	5.70	-	5.70	5.91
8	Sb Energy Six Private Limited (NTPC)	162.00	397.14	2.67	106.04	-	106.04	2.67
9	Responce Renewable Energy Private Limited	5.00	9.31	7.02	6.54	-	6.54	7.02
10	Seci (Renew Sunwaves Private Limited)	162.00	390.29	2.62	102.26	-	102.26	2.62
11	Seci (GRT Jewellers)	81.00	152.70	2.60	39.70	-	39.70	2.60
12	Avantika Contractor (I) Pvt. Ltd.	3.00	4.24	7.69	3.26	-	3.26	7.69
13	Welspun I	5.00	8.71	8.69	7.57	-	7.57	8.69
14	Welspun II	8.00	12.90	8.64	11.15	-	11.15	8.64
15	Welspun III	8.00	13.07	8.56	11.19	-	11.19	8.56
16	Udipta Energy And Equipment Private Limited	3.00	4.15	7.98	3.31	-	3.31	7.98
17	Sunmark Energy Project Limited	5.00	8.77	7.02	6.16	-	6.16	7.02
18	Acme (Magadh)	5.00	8.66	8.73	7.56	-	7.56	8.73
19	Acme (Nalanda)	8.00	12.69	8.73	11.08	-	11.08	8.73
20	Azure Power Eris Pvt. Ltd.	5.00	8.23	8.39	6.90	-	6.90	8.39
21	Avada Power Eris Pvt Ltd	27.00	23.22	4.16	9.66	-	9.66	4.16

Sl. No	Particulars	SBPDCL share allocation (MW)	Units approved SBPDCL (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
22	Alfa Infra Prop Pvt. Ltd.	5.00	13.66	7.96	10.88	-	10.88	7.96
23	Seci (Vivid Solaire Energy Pvt. Ltd.)	27.00	91.46	2.52	23.05	-	23.05	2.52
24	Seci (Green Infra Wind Energy Pvt. Ltd.)	54.00	158.92	2.51	39.89	-	39.89	2.51
25	Seci (Morjar Windfarms Pvt. Ltd.)	27.00	67.17	2.19	14.68	-	14.68	2.19
26	Seci (Greenko Sironj Wind Power Pvt. Ltd.)	54.00	170.41	2.71	46.18	-	46.18	2.71
27	Ptc (Ostro Kutch Wind Private Limited)	27.00	81.91	3.53	28.91	-	28.91	3.53
28	Ptc (Green Infra Renewable Energy Limited)	27.00	88.04	3.53	31.08	-	31.08	3.53
29	Ptc (Mytrah Vayu Sabarmati Private Limited)	27.00	86.94	3.53	30.69	-	30.69	3.53
30	Seci (Alfanar Energy Pvt. Ltd.)	27.00	81.98	2.52	20.66	-	20.66	2.52
31	Seci (Ostro Kannada Powerprivate Limited)	162.00	427.39	2.18	93.38	-	93.38	2.18
32	Adani Solar	81.00	137.01	2.72	37.27	-	37.27	2.72
33	Avada Clean	27.00	29.74	3.11	9.25	-	9.25	3.11
34	Acme Deoghar/Acme Dhaulpur	81.00	12.46	2.51	3.13	-	3.13	2.51
35	SBE Renewables Sixteen Pvt Ltd	97.00	44.84	2.72	12.20	-	12.20	2.72
36	Acme Solar Jaiselmer	270.00	41.52	2.51	10.42	-	10.42	2.51
V	Others	-	1,240.00		957.38	-	957.38	7.72
1	IEX DAM	-	130.00	7.63	99.19		99.19	7.63
2	IEX RTM	-	239.00	6.26	149.61		149.61	6.26
3	IEX TAM	-	14.00	10.55	14.77		14.77	10.55
4	IEX GDAM	-	50.00	6.04	30.20		30.20	6.04
6	PXIL TAM	-	42.00	11.66	48.97		48.97	11.66
8	TATA POWER SHORT TERM	-	322.00	7.94	255.67		255.67	7.94
9	PTC SHORT TERM	-	443.00	7.90	349.97		349.97	7.90
VI	BSHPC Revenue Gap	-			9.00		9.00	
	Grand Total	5812.00	23033.70		6299.52	4876.56	11176.08	4.85

5.9. Transmission Charges

Petitioners' submission:

The Petitioners submitted that the Petitioners have to pay transmission charges to POWERGRID, BSPTCL, BGCL for use of transmission facilities. Further, the Petitioners have to pay charges to POSOCO and SLDC. The Petitioner has considered the Transmission charges escalation of 10% on the actual transmission charges paid in the FY 2023-24 for the calculation purpose. The Petitioners requested the Commission to approve the transmission and related charges for inter-state as well as intra-state transmission transactions for FY 2024-25 as per the below given table

Table 5.15: Transmission charges projected for APR for FY 2024-25 (Rs. Cr)

Particulars	NBPDC	SBPDCL
PGCIL	1,036	1,217
BSPTCL (including SLDC)	592	695
BGCL	107	126
ERLDC (POSOCO)	5	6
Total	1,741	2,044

Commission's analysis:

It is observed that Petitioners have estimated the PGCIL/CTU transmission charges with an escalation of 10.00% over that of actuals of FY 2023-24, without any valid explanation. The Commission has reviewed the charges paid in past and decides to considers a 3% increase on the actual amount paid in FY 2023-24 for FY 2024-25.

The Commission considers the transmission charges as projected by the Petitioners except PGCIL, which are as per transmission charge decided by Commission for FY 2024-25 under FY 2024-25 tariff order of the respective utilities.

The transmission charges considered in the APR for FY 2024-25 as are given in the Table below:

Table 5.16: Transmission charges considered for FY 2024-25 (RE) (Rs. Crore)

Particulars	NBPDC	SBPDCL	Total
BSPTCL (Including SLDC)	592.00	695.00	1,287.00
BGCL	107.00	126.00	233.00
PGCIL	921.36	1,188.48	2,109.84
POSCO	5.00	6.00	11.00
Total	1,625.36	2,015.48	3,640.84

Table 5.17: Total Power Purchase Cost considered for FY 2024-25 (RE)

Sl. No	Particulars	NBPDCCL		SBPDCL		Total
		MU	Rs. Cr	MU	Rs. Cr	Rs. Cr
1	Power Purchase	19,623.00	9,274.03	23033.70	11,176.08	20450.11
2	Transmission Charges	0	1,625.36	0	2,015.48	3640.84
3	Total Power Purchase Cost	19,623.00	10899.38	23033.70	13191.57	24090.95

5.10. Renewable Purchase Obligation (RPO)**Petitioners' submission:**

The Commission initiated the Suo-motu proceeding for 4th amendment in BERC (Renewable Purchase Obligation, its compliance and REC Framework Implementation) Regulations, 2010.

The Hon'ble Commission in the draft Regulations has specified the following:

"Further, Ministry of Power, Govt. of India, through its order no. 09/13/2021-RCM dated 22.07.2022 has specified separate Wind RPO, HPO and other RPO within the overall RPO target for the FY 2022-23 to FY 2029-30.

In view of above, the Commission has decided to adopt the RPO target as specified by the Ministry of Power through its order no. 09/13/2021-RCM dated 22.07.2022 for the FY 2022-23 to FY 2029-30, including introduction of a separate hydro purchase obligation (HPO) as recommended previously by the ministry through MoP Notification F No. 15/2/2016-H-I(Pt.) dated 08.03.2019.

In line with the directions from MoP, the Commission proposes to specify separate Wind RPO, HPO and other RPO within the overall RPO target.

Provided that Wind RPO shall be met through energy produced from wind power projects commissioned after 31st March 2022; HPO shall be met only by energy produced from Large Hydro Projects (including pump storage plants) commissioned after 8th March 2019; other RPO target may be met by energy produced from any RE power project not qualifying for meeting Wind RPO and HPO. Further, as the directives of the MoP, the Commission proposes to specify separate Energy Storage Obligation for the energy consumed from solar/wind along with /through storage. The Energy Storage obligation to the extent of energy stored from RE sources shall be considered as part of fulfilment of the

total RPO.”

The details of RPO to be met by the Petitioner for FY 2024-25 and Petitioner compliance are given in the table below:

Table 5.18 :RPO submitted by NBPDCCL & SBPDCL for FY 2024-25 (APR)

SL.NO	Particulars	Unit	NBPDCCL	SBPDCL
1	Energy Sale (excluding inter-state sales)	MU	15,427.38	18,598.51
2	RPO Targets (%)	%	29.91%	29.91%
3	Wind RPO (%)	%	2.46%	2.46%
4	HPO (%)	%	1.08%	1.08%
5	Other RPO (%)		26.37%	26.37%
6	RPO Targets (MU)		4,614.33	5,562.81
7	Wind RPO	MU	379.51	457.52
8	HPO RPO	MU	166.62	200.86
9	Other RPO	MU	4,068.20	4,904.43
10	Renewable Power Purchased			
11	Wind RE purchased from the plants commissioned till 31-03- 2022	MU	950.26	1,115.53
12	a)93% of 11	MU	883.75	1,037.44
13	b)7% of 11	MU	66.52	78.09
14	Wind RE purchased from the plants commissioned after 31- 03-2022	MU	118.14	138.69
15	Other RE Power (16+17+18+19+20+21+22)	MU	1,915.43	2,196.04
16	a) Solar	MU	1,157.55	1,358.86
17	b) Sugar Mill & Biomass	MU	82.82	44.72
18	c)BSHPC & Hydro		632.04	741.96
19	d) Green Power from Exchange		43.017	50.498
20	e) Captive Consumption Solar		-	-
21	f) Net Meter /Solar Generation from Consumers		-	-
22	g) GCRT/solar Data from BREDA		-	-
23	h) Captive Consumption Non-Solar BERDA		-	-
24	RPO Compliance			
25	HPO RPO Compliance (from 12 above)		166.62	200.86
26	Left over Wind RE purchased from the 93% of plants commissioned till 31-03-2022 after adjusting HPO targets (12-24)		717.13	836.58
27	Wind RPO Compliance (25+14)		835.27	975.27
28	Other RPO Compliance: (13+15)		1,981.95	2,274.13
29	RPO Shortfall (MU)			
30	Wind RPO shortfall/ (surplus) (7-26)		(455.76)	(517.74)
31	HPO shortfall/ (surplus) (8-24)		-	-
32	Other RPO shortfall/ (surplus) (9-29)		2,086.25	2,630.29
33	RPO Target Achieved			
34	Wind RPO		220%	213%
35	HPO		100%	100%
36	Other RPO		49%	46%

The Petitioner submitted that in line with proviso 2 of Regulation 4.1 (a) of RPO 4th

Amendment Regulation any shortfall in achievement of 'Wind RPO' in a particular year can be met with excess energy consumed from Hydro Power Plants, which is in excess of 'HPO' for that year and vice versa. The Petitioners have considered total purchased under these heads (Wind RPO and HPO) and submitted that it will achieve the HPO targets in combination of Wind RPO.

Furthermore, the Petitioners are procuring wind power more than its wind RPO requirement, considering that the Petitioners requested the Commission to allow the issuance of REC on the purchase of electricity from wind energy source in excess of the Wind RPO as determined by the Commission or allow the Petitioners to carry forward wind energy surplus during the FY 2024-25 to FY 2025-26 for fulfilment of the Wind RPO. The Commission was requested to allow the Petitioners to fulfil Other RPO target of FY 2025-26 with the excess wind energy procured.

Commission's analysis:

The Commission vide BERC (Renewable Purchase Obligation, its compliance and REC frame work implementation) Regulations, 2010 and its amendments has notified the Renewable Purchase Obligation (RPO) percentages up to FY 2021-22.

The Ministry of Power, Government of India vide Order No F.No.09/13/2021-RCM dated 22.07.2022 has specified the RPO trajectory for period from FY 2022-23 to FY 2029-30 as given below:

Year	Wind RPO	HPO	Other RPO	Total RPO
2022-23	0.81%	0.35%	23.44%	24.61%
2023-24	1.60%	0.66%	24.81%	27.08%
2024-25	2.46%	1.08%	26.37%	29.91%
2025-26	3.36%	1.48%	28.17%	33.01%
2026-27	4.29%	1.80%	29.86%	35.95%
2027-28	5.23%	2.15%	31.43%	38.81%
2028-29	6.16%	2.51%	32.69%	41.36%
2029-30	6.94%	2.82%	33.57%	43.33%

The Commission has notified the BERC (Renewable Purchase Obligation, its compliance and REC frame work implementation) (4th amendment) Regulations, 2022 duly aligning the targets with the MoP RPO trajectory specified vide Order No F.No.09/13/2021-RCM dated 22.07.2022.

As per the BERC 4th Amendment of RPO Regulations, the targets were determined for wind, HPO and other RPO. The Regulation 4.1 (Amended) specify:

“(a) Wind RPO Shall be met only by energy produced from Wind Power Projects

(WPPs) commissioned after 31st March 2022 and the wind energy consumed over and above 7% from WPPs commissioned till 31st March 2022;

(b) HPO shall be met only by energy produced from LHPs (including PSPs and small hydro projects (SHPs)), commissioned after 8th March 2019;

(c) Other RPO may be met by energy produced from any RE based / green energy based power project not mentioned in (a) and (b) above.”

On a query from the Commission, SBPDCL vide its Letter No-2049 dated 18.12.2024 and NBPDC & SBPDCL vide its Letter No-1737 dated 17.12.2024 submitted the Revised RPO figures.

The Commission accordingly has considered the RPO targets for FY 2024-25 and computed the RPO Compliance for FY 2024-25 as shown in the Table below.

Table 5.19: RPO Considered for NBPDC & SBPDCL for FY 2024-25 (RE)

SL. No	Particulars	Units	SBPDCL	NBPDC
1	Energy Sale (excluding inter-state sales)	MU	18598.51	15,427.38
2	RPO Targets (%)	%	29.91%	29.91%
3	Wind RPO (%)	%	2.46%	2.46%
4	HPO (%)	%	1.08%	1.08%
5	Other RPO (%)	%	26.37%	26.37%
6	RPO Targets (MU)	MU	5562.81	4614.33
7	Wind RPO	MU	457.52	379.51
8	HPO RPO	MU	200.86	166.62
9	Other RPO	MU	4904.43	4068.20
10	Renewable Power Purchased			
11	Wind RE purchased from the plants commissioned till 31-03-2022	MU	1,115.53	950.26
12	a)93% of 11	MU	1037.441	883.7418
13	b)7% of 11	MU	78.08694	66.5182
14	Wind RE purchased from the plants commissioned after 31-03-2022	MU	138.69	118.14
15	Other RE Power (16+17+18+19+20+21+24)	MU	2196.0443	1915.427
16	a) Solar	MU	1,358.86	1,157.55
17	b) Sugar Mill & Biomass	MU	44.72	82.82
18	c)BSHPC	MU	741.96	632.04
19	d) Hydro	MU		
20	e) Green Power from Exchange	MU	50.50	43.017
21	f) Captive Consumption Solar	MU		
22	i) Net Meter /Solar Generation from Consumers	MU		
23	ii) GCRT/solar Data from BREDA	MU		
24	Captive Consumption Non-Solar BERDA	MU		

SL. No	Particulars	Units	SBPDCL	NBPDCCL
25	RPO Compliance	MU		
26	Left over Wind RE purchased from the 93% of plants commissioned till 31-03-2022 after adjusting HPO targets (12-8)	MU	836.58	717.13
27	Wind Power Purchased (26+14)	MU	975.27	835.27
28	Other RPO Compliance: (15+13)	MU	2274.1313	1981.9452
29	RPO Shortfall (MU)	MU		
30	Wind RPO shortfall/ (surplus) (7-27)	MU	(517.74)	(455.75)
31	HPO shortfall/ (surplus) (Compensated from surplus Wind RPO)	MU	0.00	0.00
32	Other RPO shortfall/ (surplus) (9-28)	MU	2491.61	1968.11
33	REC Purchase	MU	80.99	
34	RPO Shortfall considering REC (MU)	MU		
35	Wind RPO shortfall/ (surplus) (30)	MU	(517.74)	(455.75)
36	HPO shortfall/ (surplus)	MU	0.00	0.00
37	Other RPO shortfall/ (surplus) (32-33)	MU	2410.61	1968.11
38	RPO Target Achieved considering REC (%)			
39	Wind RPO	%	100%	100%
40	HPO	%	100%	100%
41	Other RPO	%	48%	49%

It is observed from the Table above that the Discoms may fulfill the wind RPO and HPO RPO for FY 2024-25, However the RPO target in respect others RPO has not been fully complied by Discoms. The Petitioners have letter approached the Commission with a separate Petition where it has been pray to allow the shortfall of FY 2024-25 to be carried forward to the next FY. Th main reason for the above prayer is stated that due to excessive purchase of REC for meeting shortfall of previous year, the Petitioner could not in FY 2024-25 purchase REC in FY 2024-25. This continued with delay/cancellation of many RE projects from where petitioner's have got substitutive allocation has caused this situation. The Commission nots the prayer of the Petitioner and besides that the matter of non-compliance of RPO trajectory as per sr no 41 of the above table shall be subject to the final order of the Commission in the aforesaid petition

5.11. Capital Expenditure

Petitioners' submission:

The BERC (Multi Year Distribution Tariff) Regulations 2021, specify that the Distribution Licensee must file a Business Plan which shall comprise of detailed capital investment plan, financing plan and physical targets. Relevant extract of the aforesaid

Regulations is as follows:

“5.1 The Distribution Licensee shall file a Business Plan, for the Control Period by a Petition in accordance with BERC (Conduct of Business) Regulations, 2005 and its amendments from time to time, by 15th September of the year prior to the commencement of the Control Period...

5.2 Such Business Plan shall comprise but not limited to detailed category/sub-category-wise sales and demand projections, power procurement plan, capital investment plan, financing plan and physical targets...

5.3 The Distribution Licensee shall make assessment of infrastructure requirement and prepare capital investment plan in accordance with BERC (Procedure for Filing Capital Investment and Capitalization Plan) Regulations, 2018 that will spill into the year(s) under review and new projects that will commence and may be completed within or beyond the tariff period...”

Discoms have submitted that in the Tariff Petition filed by the Petitioners for Truing up of FY 2020-21, APR of FY 2021-22 and ARR of FY 2022-23, the Petitioners didn't submit any projection for the control period 2022-23 to 2024-25 as the said projection for the control period is to be submitted post approval under the Revamped Distribution Sector Scheme (RDSS) by the Monitoring Committee. Therefore, a separate CAPEX Petition was filed by the Petitioners (Case No. 26/2022- NBPDCCL and 27/2022- SBPDCL) for approval of schemes like Reconductoring, Mukhyamantri Krishi Vidyut Sambandh Yojana (MKVYS), Smart Metering, and RDSS. The said Petitions formed the basis for approval of capex and capitalization for the present Petition filed by the Petitioner for Truing up of FY 2023-24, APR of 2024-25.

Discoms have submitted that they have estimated Capex, Capitalization and funding considering the capital expenditure and investments to be done as per the recent developments and keeping in mind the targets to be achieved for capitalisation under various schemes during the year of APR. In line with the above, the Petitioner has computed the capitalization of investment on the assumption that other than MKVYS and RDSS scheme, all other ongoing schemes will get capitalized during FY 2024-25.

The scheme-wise capitalisation proposed for FY 2024-25 (APR) is detailed hereunder:

Table 5.20: Scheme-wise capitalisation projected for FY 2024-25 (Rs. Crore)

Particulars	NBPDC for FY 2024-25	SBPDCL for FY 2024-25
BRGF	3.22	95.76
Deposit Scheme	-	8.67
ADB	-	80.44
R-APDRP	23.29	-
State Plan -Others	101.25	308.62
State Plan -RDSS	1,396.06	1,228.87
Reconductoring	193.42	24.79
IPDS	19.52	74.29
Smart Prepaid Meter (Phase 2) 36 Lakhs- 30% Capex	355.28	206.12
Smart Prepaid Meter (Phase 3) 1.12 crores- 30% Capex	688.92	375.32
DDUGJY	20.49	0.14
MKVYS	124.07	-
APL connection	-	93.30
Own Sources	221.83	82.39
New Scheme		
Mukhya Mantri Vidyut Sambandh Nishchay Yojna (MKVSY)-Phase II	180.00	83.81
Reconductoring of 78 no. of 33 kV lines	-	18.72
New 33 kV Lines	36.80	-
Construction of 15 Nos. of New 33 kV lines at different locations of NBPDC	44.53	-
Augmentation of 3.15 MVA Power Transformers with 10 MVA Power Transformers	3.11	-
Augmentation of 5 MVA Power Transformers with 10 MVA Power Transformers	87.83	-
Additional 10 MVA Power Transformers in existing PSS	5.59	-
Re-conductoring of 33 KV Lines from ACSR Dog to Wolf Conductors	81.40	-
Augmentation & Additional Distribution Transformers	60.00	-
Protective Equipment's i.e. VCBs, CTs & PTs, Lightning Arrestors etc.	36.00	-
Construction of 12 Nos Divisional and 51 Nos Sub-divisional Control room building cum Customer facilitation centre at different locations under NBPDC	30.00	-
Construction of New Control Room, PCC & Gravel filling for old PSS, Boundary wall of different PSS, Offices, Colony and Open lands under five Civil Circles of NBPDC.	18.00	-

Particulars	NBPDCCL for FY 2024-25	SBPDCL for FY 2024-25
Construction of Sheds, Platforms, Approach Road and allied components at TRWs under NBPDCCL	9.00	-
RMS (RDSS)	59.00	58.50
SCADA, DMS, OMS	-	57.78
Total	3,798.63	2,797.51

Further Discoms submitted that the Monitoring Committee for RDSS constituted under Chairmanship of Secretary (Power), Govt. of India in its meeting held on 28.04.2023, has approved the Action plan and Loss Reduction DPR of NBPDCCL and SBPDCL under Revamped Distribution Sector Scheme (RDSS). The details are given below.

Prepaid Smart Metering:

Phase 1:

The total number of smart meters proposed to be installed under phase 1 is 23,50,000 (NBPDCCL 10,30,000 lakhs and SBPDCL 13,20,000). The total smart meters under Phase 1 are under OPEX mode which will be booked under A&G expenses. Hence the entire expenditure proposed under Phase I has been considered under A&G expenditure.

Phase-II:

36 lakhs (NBPDCCL 26 lakhs and SBPDCL 10 lakhs) of smart prepaid meters are scheduled to be installed across the State of Bihar by the end of March, 2024 under hybrid mode i.e., CAPEX + OPEX mode in the ratio of 70:30. Discoms have furnished the expected expenditure under CAPEX mode for installation of smart prepaid meters as given below.

NBPDCCL-

Smart Prepaid Meters under Capex	Month	2023-24			2024-25		
		Meters installed	Meter cost	Capex	Meters installed	Meter cost	Capex
Phase II: 36 lakhs North 26 Lakhs (30% Capex)-	Op. Balance	43521			1051481		
	April	34290	10219.67	10.51	105842	10219.67	32.45
	May	33313	10219.67	10.21	128492	10219.67	39.39
	June	31173	10219.67	9.56	94152	10219.67	28.87
	July	64967	10219.67	19.92	82619	10219.67	25.33
	August	72952	10219.67	22.37	83385	10219.67	25.57
	September	85350	10219.67	26.17	62616	10219.67	19.20

Smart Prepaid Meters under Capex	Month	2023-24			2024-25		
		Meters installed	Meter cost	Capex	Meters installed	Meter cost	Capex
	October	105884	10219.67	32.46	146088	10219.67	44.79
	November	93105	10219.67	28.55	146088	10219.67	44.79
	December	137623	10219.67	42.19	146088	10219.67	44.79
	January	124540	10219.67	38.18	146088	10219.67	44.79
	February	133080	10219.67	40.80	146088	10219.67	44.79
	March	91683	10219.67	28.11	146088	10219.67	44.79
Less: 7.5% to be given after 6 months		1051481		23.18	2485115		32.97
Total Capex				285.85			429.75

SBPDCL:

under CAPEX mode for installation of smart prepaid meters as given below:

Smart Prepaid Meters under Capex	Month	2023-24			2024-25		
		Meters installed	Meter cost	Capex	Meters installed	Meter cost	Capex
Phase II: 36 lakhs North 26 Lakhs (30% Capex)-	Op. Balance	14215			407959		
	April	3888	9777.14	1.14	47845	9777.14	14.03
	May	11734	9777.14	3.44	85388	9777.14	25.05
	June	7469	9777.14	2.19	51886	9777.14	15.22
	July	15480	9777.14	4.54	36493	9777.14	10.70
	August	20367	9777.14	5.97	33016	9777.14	9.68
	September	16838	9777.14	4.94	29454	9777.14	8.64
	October	18157	9777.14	5.33	153980	9777.14	45.16
	November	34473	9777.14	10.11	153979	9777.14	45.16
	December	57138	9777.14	16.76	0	9777.14	-
	January	79723	9777.14	23.38	0	9777.14	-
	February	63973	9777.14	18.76	0	9777.14	-
	March	64504	9777.14	18.92	0	9777.14	-
Less: 7.5% to be given after 6 months		407959		8.66	1000000		13.02
Total Capex				106.83			160.63

Phase-III:

In the final Phase-III, 1.12 Crore (77 lakhs in NBPDC & 35 lakhs SBPDCL) of smart prepaid meters are scheduled to be installed across the Bihar by the end of March, 2024 under hybrid mode i.e. CAPEX + OPEX mode in the ratio of 70:30. Discoms have

furnished the expected expenditure under CAPEX mode for installation of smart prepaid meters as given below:

NBPDC-

Smart Prepaid Meters under Capex	Month	2024-25			2025-26			2026-27		
		Meters installed	Meter cost	Capex	Meters installed	Meter cost	Capex	Meters installed	Meter cost	Capex
Phase III: 1.12 crores North 77 Lakhs (30% Capex)	Op. Balance	0			2556918			6490902		
	April	0	10788.13	-	327832	10788.13	106.10	327832	10788.13	106.10
	May	22444	10788.13	7.26	327832	10788.13	106.10	327832	10788.13	106.10
	June	62253	10788.13	20.15	327832	10788.13	106.10	327832	10788.13	106.10
	July	114931	10788.13	37.20	327832	10788.13	106.10	327867	10788.13	106.11
	August	180494	10788.13	58.42	327832	10788.13	106.10	0	10788.13	-
	September	209802	10788.13	67.90	327832	10788.13	106.10	0	10788.13	-
	October	327834	10788.13	106.10	327832	10788.13	106.10	0	10788.13	-
	November	327832	10788.13	106.10	327832	10788.13	106.10	0	10788.13	-
	December	327832	10788.13	106.10	327832	10788.13	106.10	0	10788.13	-
	January	327832	10788.13	106.10	327832	10788.13	106.10	0	10788.13	-
	February	327832	10788.13	106.10	327832	10788.13	106.10	0	10788.13	-
	March	327832	10788.13	106.10	327832	10788.13	106.10	0	10788.13	-
Less: 7.5% to be given after 6 months		2556918		62.06	6490902		95.49	7802265		31.83
Total Capex				765.47			1,239.78			488.07

SBPDCL-

Smart Prepaid Meters under Capex	Month	2024-25			2025-26			2026-27		
		Meters installed	Meter cost	Capex	Meters installed	Meter cost	Capex	Meters installed	Meter cost	Capex
Phase III: 1.12 crores North 77 Lakhs (30% Capex)	Op. Balance	7280			1426124			7280		
	April	27902	10537.53	8.82	165541	10537.53	52.33	27902	10537.53	8.82
	May	56686	10537.53	17.92	165541	10537.53	52.33	56686	10537.53	17.92
	June	74966	10537.53	23.70	194755	10537.53	61.57	74966	10537.53	23.70
	July	85425	10537.53	27.01	194755	10537.53	61.57	85425	10537.53	27.01
	August	84213	10537.53	26.62	194755	10537.53	61.57	84213	10537.53	26.62
	September	96406	10537.53	30.48	194755	10537.53	61.57	96406	10537.53	30.48
	October	165541	10537.53	52.33	194755	10537.53	61.57	165541	10537.53	52.33
	November	165541	10537.53	52.33	194755	10537.53	61.57	165541	10537.53	52.33
	December	165541	10537.53	52.33	194755	10537.53	61.57	165541	10537.53	52.33
	January	165541	10537.53	52.33	194755	10537.53	61.57	165541	10537.53	52.33
	February	165541	10537.53	52.33	194754	10537.53	61.57	165541	10537.53	52.33
	March	165541	10537.53	52.33	0	10537.53	-	165541	10537.53	52.33
Less: 7.5% to be given after 6 months		1426124		33.64	3510000		49.41	1426124		33.64
Total Capex				414.89			643.00			414.89

Discoms have submitted the details of opening CWIP, investment during the year, capitalisation and funding of capitalisation for FY 2024-25 as detailed in the table below:

Table 5.21: CWIP, Capitalisation and Funding of capitalisation projected for FY 2024-25 (Rs. Crore)

Sl. No.	Particulars	NBPDCCL		SBPDCL	
		Approved for FY 2024- 25	Projected by FY 2024-25	Approved for FY 2024-25	Projected by FY 2024-25
1	Opening CWIP	2136.08	2060.13	2890	2177
2	New Investment	3716.12	2870.52	1608	2127
3	Less Capitalization	3000.06	3798.63	3362	2798
(a)	CWIP	0.00	3038.90	0.00	2238
(b)	New Investment	0.00	759.73	0.00	560
4	Closing CWIP (1+2-3)	2852.14	1132.02	2852	1507

Commission's analysis:

Discoms have projected the capex and capitalisation for FY 2024-25 as given in the following table and furnished the scheme-wise details in Format 11 enclosed to the petition. As per the details, the projected capex and capitalisation for FY 2024-25 (APR) is as under:

Particulars	NBPDCCL	SBPDCL
Capital investment	2870.52	2127
Capitalisation	3,798.63	2797.51

Further, on enquiry by the Commission for the reconductoring scheme, the Petitioner (SBPDCL) has submitted the revised capitalization for the reconductoring scheme in response to BERC letter dated 15.01.2025. The Commission has observed that, the revised capitalization proposed by SBPDCL for this scheme as given below:

Particulars	Opening CWIP (Rs. Crore)	Capex (Rs. Crore)	Capitalization (Rs. Crore)	Closing CWIP (Rs. Crore)
FY 2024-25	24.79	454.56	479.35 (in Petition Rs 24.79 Cr)	-

It has been observed that the capitalization amount claimed by SBPDCL for reconductoring is not matching with the amount approved for reconductoring in capex approval order (Case No 27/2022). It is very unfortunate that SBPDCL has not obtained approval for revised cost estimation, if any, and not even included the same in its Petition. SBPDCL through its reply to query presented the case before the

Commission for approval, which is not accepted as it is not as per Regulatory process and directs the Petitioner (SBPDCL) to follow the due Regulatory process. Further, the Commission directs the Petitioner to file a separate capex petition for approval of the reconductoring scheme along with cost estimation, approval of the concerned authority, capital expenditure and capitalization details. It is directed that the Petitioner should clearly submit the year-wise amount capitalized for reconductoring against each approval of concerned authority, without clubbing the capitalization under reconductoring.

Therefore, the Commission directs the Petitioners (NBPDC & SBPDCL) to review the capitalisation for FY 2024-25 and obtain the approval of Commission for revised capex scheme (if there is difference in capitalisation amount corresponding to amount approved in Case No 26/2022 and 27/2022) before true-up Petition for FY 2024-25. Based on the approval of the Commission on revised cost, the Commission will review the capitalization for true-up for FY 2024-25.

The Commission finds that various stakeholders have submitted that capitalization proposed by the Discoms is never achieved. Therefore, they have requested the Commission to review the same and reduce the proposed capitalization under APR of FY 2024-25.

It has been observed that, in true-up of FY 2023-24, NBPDC & SBPDCL has actually achieved capitalization of only 55% and 71% in comparison to the capitalization proposed in its Petition of ARR for FY 2023-24. Hence, considering the past trend and observation of the Stakeholders, the Commission considers capitalization of the tune of 55% and 71% of the projected capitalization of NBPDC & SBPDCL respectively during APR of FY 2024-25. The Commission will review the actual capitalization of both DISCOMs for the truing up of FY 2024-25 when the audited account will be available.

Capitalisation approved for FY 2024-25

Particular	Approved for NBPDC	Approved for SBPDCL	Total
Capitalisation	2089.25	1986.24	4075.48

5.12. Gross Fixed Assets (GFA)

Petitioners' submission

Discoms have submitted the computation of GFA based on the opening GFA and capitalisation schedule for FY 2024-25 as detailed in the table below:

Table 5.22: Summary Gross Fixed Assets for NBPDC for FY 2024-25 (Rs. Crore)

Sl. No.	Assets group	Closing balance FY 2023-24	Addition during FY 2024-25 (RE)	Closing balance FY 2024-25 (RE)
1	Land and land rights	1,047.43	111.79	1,159.21
2	Buildings	108.64	26.61	135.26
3	Hydraulic Works	0.00	0.00	0.00
4	Others Civil Works	196.66	47.74	244.40
5	Plant and Machinery	3,284.91	557.82	3,842.73
6	Lines and Cable Network	18,400.08	2,936.82	21,336.90
7	Vehicles	0.93	0.12	1.05
8	Furniture and Fixtures	6.61	1.64	8.25
9	Office Equipment	43.97	15.37	59.33
10	Spare Units/Service Units	320.85	100.28	421.13
11	Assets taken over from Licensees pending final valuation	4.24	0.44	4.68
	GRAND TOTAL	23,414.31	3,798.63	27,212.95

Table 5.23: Summary Gross Fixed Assets for SBPDCL for FY 2024-25 (Rs. Crore)

Sl. No.	Assets group	Closing balance FY 2023-24	Addition during FY 2024-25 (RE)	Closing balance FY 2024-25 (RE)
1	Land and land rights	1546.29	227.54	1774
2	Buildings	326.70	50.04	377
3	Hydraulic Works	1.46	0.20	2
4	Others Civil Works	110.12	16.21	126
5	Plant and Machinery	3952.62	593.22	4546
6	Lines and Cable Network	12363.63	1879.80	14243
7	Vehicles	1.23	0.17	1
8	Furniture and Fixtures	7.61	1.24	9
9	Office Equipment	208.71	28.88	238
10	Spare Units/Service Units	1.19	0.18	1
11	Assets taken over from Licensees pending final valuation	0.32	0.05	0
	GRAND TOTAL	18520	2797.51	21317

Commission's analysis:

The Commission has considered opening GFA at Rs. 22911.63 Crore for NBPDC and Rs.17639.89 Crore for SBPDCL based on the closing GFA approved in truing up for FY 2023-24. Addition to the GFA during FY 2024-25 is considered as in Table 5.30 above. The opening GFA, additions to assets during the year and closing GFA for FY 2024-25, arrived at by the Commission is as detailed in the table below:

Table 5.24: Gross Fixed Assets considered for FY 2024-25 in APR (Rs. Crore)

Sl. No.	Particulars	Considered for NBPDCCL in APR	Considered for SBPDCL in APR	Total
1	Opening GFA	22911.63	17639.89	40551.52
2	Additions during the year	2089.25	1986.24	4075.48
3	Closing GFA	25000.88	19626.13	44627.00

5.13. Depreciation on Gross Fixed Assets

Petitioners' submission:

Discoms have submitted that depreciation is computed as per regulation 23 of BERC (Multi Year Distribution Tariff) Regulations 2021 on the total GFA reduced by value of land and Grants for FY 2024-25.

Discoms have projected the depreciation for FY 2024-25 as detailed in the table below:

Table 5.25: Depreciation on GFA projected for FY 2024-25 (RE) (Rs. Crore)

Sl. No.	Particulars	Projected by NBPDCCL in review	Projected by SBPDCL in review	Total
1	Gross fixed assets of the beginning of the year	22,367	16,974	39341
2	Additions during the year	3,687	2,569.98	6256.98
3	IDC	-	-	-
4	Adjustment for assets sold/ discarded etc.	-	-	-
5	Closing GFA	26,053.73	19,543.58	45597.31
6	Average GFA	24,210.31	18,258.59	42468.90
7	Weighted Average Rate of Depreciation	5.73%	4.78%	
8	Depreciation for the year	1,388.18	872	2260.18
9	Opening grants	11,983	7,285	19268
10	Grants during the year	139	134	273
11	Adjustment for assets sold/discarded etc.	-	-	-
12	Total Grants	12,122.37	7,418.70	19541.07
13	Average Grants	12,052.70	7,351.77	19404.47
14	Weighted Average rate of Depreciation (on grant)	5.89%	6.09%	
15	Depreciation for GFA on Grants	710.00	448	1158
16	Net Depreciation of GFA on loans (8-15)	678.18	424.39	1102.57

Commission's analysis:

The Commission has considered the opening depreciable assets and opening grants for FY 2024-25 based on the closing GFA and Grants approved in the truing up for FY 2023-24 as given hereunder:

Particulars	NBPDCCL	SBPDCL
Opening Depreciable Assets	21857.21	16093.61
Opening Grants	12253.74	7774.34

Capitalisation and Grants during the year FY 2024-25 are considered based on the

capitalisation for FY 2024-25 as shown in Table 5.27 of this order.

As per the Regulation 23 (d) of the BERC (Multi Year Distribution Tariff) Regulations 2021, specifies that

“Provided that freehold land shall not be treated as a depreciable asset and its cost shall be excluded from the original cost of the asset”.

The Commission has provisionally considered the value of land addition at Rs. 111.79 crore for NBPDCCL and Rs. 227.54 crore for SBPDCL as reported in Format 14 of the petition for FY 2024-25 and accordingly reduced the same from capitalisation for the purpose of computing depreciation for FY 2024-25. Same procedure is followed by the Discoms for computing the grants utilised for land addition during FY 2024-25. The Commission has considered addition to grants based on the funding of capitalisation for FY 2024-25.

The Commission has considered weighted average rate of depreciation on assets and grants for Discoms (NBPDCCL and SBPDCL) in APR FY of 2024-25 in line with the weighted average rate of depreciation considered in true up for FY 2023-24.

The opening GFA, additions to GFA, closing GFA, rate of depreciation and depreciation on assets created out of grants and depreciation considered by the Commission for FY 2024-25 in Annual Performance Review (APR) is as detailed in the table below:

Table 5.26: Depreciation considered for FY 2024-25 (RE) (Rs. Crore)

Sl. No.	Particulars	Considered in review for NBPDCCL for FY 2024-25 (RE)	Considered in review for SBPDCL for FY 2024-25 (RE)	Total
1	Opening depreciable assets	21857.21	16093.61	37950.82
2	Net Additions during the year (excl land)	1977.46	1758.70	3736.15
5	Closing GFA (1+2)	23834.67	17852.31	41686.97
6	Average GFA $\{(1+3)/2\}$	22845.94	16972.96	39818.90
7	Weighted average rate of depreciation	4.58%	4.55%	
8	Depreciation (4*5)	1046.37	772.59	1818.97
9	Opening Grants	12253.74	7774.34	20028.08
10	Grants during the year	139.00	134.00	273.00
12	Net Closing Grants for depreciable assets (7+8-9)	12392.74	7908.34	20301.08
13	Average Grants for Depreciable Assets $\{(7+10)/2\}$	12323.24	7841.34	20164.58
14	Weighted average rate of depreciation	4.58%	4.55%	

Sl. No.	Particulars	Considered in review for NBPDC for FY 2024-25 (RE)	Considered in review for SBPDCL for FY 2024-25 (RE)	Total
15	Depreciation on assets created out of grants (11*13)	564.42	356.93	921.35
16	Net Depreciation (6-13)	481.95	415.66	897.62
18	Depreciation allowed in APR	361.47	311.75	673.21

* Commission in its order dated 01.03.2024 has issue the following directives under chapter 10 of the order:

“Directives- 6 Asset Register”- the Commission has observed that the DISCOMs have not yet started work of representation of asset register in spite of repetitive directives. DISCOMs have submitted that they are going to implement ERPC which is mandated in RDSS scheme.

“It is endeavouring to create and maintain component wise fixed asset register and will be provided after ERP implementation. ERP for all areas of both DISCOMs was floated by SBPDCL vide NIT No: 39/PR/NBPDC/2023. Technical evaluation is under process and it is expected to finalize the tender process by the end of current financial year. The Commission directs Discoms that if the Fixed Asset Register is not prepared by the end of FY 2023-24 and is submitted along with petition for true up of FY 2023-24, the Commission shall be constrained to take appropriate action under the Rules has directed to the Petitioner to create fixed asset register (FAR) without any fail from next year true-up onwards.”

The Commission approves a depreciation of Rs. 481.95 Crore & Rs 415.66 Cr for FY 2023-24 in truing-up for NBPDC and SBPDCL.

However, in view of the fact that in spite of repeated direction of the Commission issued vide various tariff orders, the petitioner has not submitted the Asset Register, in absence of which it is very difficult to ascertain whether allowing depreciation on estimated Asset value will be against the applicable Regulations as well as against the consumer interest. The Commission therefore decides to allow only 75% of the

total calculated depreciation as shown in the above table 4.48 at Sr No 14. Accordingly, out of calculated value of depreciation of Rs 481.95 Cr and 415.66 Cr depreciation amounting to only 361.47 Cr and 311.75 Cr respectively is being allowed for NBPDCCL and SBPDCL respectively in the APR of FY 2024-25.

Further, the Commission directs the Petitioner to submit fixed asset register (FAR) without any fail at the time of from next tariff filing for FY 2026-27.

The Commission, accordingly, considers the depreciation in review for FY 2024-25.

5.14. Interest on Loans

Petitioners' submission:

Discoms have submitted that addition to debt is considered at 70% of the addition to GFA excluding contribution from grants. The weighted average rate of interest is considered @ 9.16 % by NBPDCCL and 9.51 % by SBPDCL for FY 2024-25 as given below.

Table 5.27: Weighted average rate of interest considered by NBPDC for FY 2024-25 (RE)

Sr. No	Particulars	Purpose of loan	Opening balance	Rate of Interest	Addition during the year	Repayment during the year	Closing balance	Amount of interest paid	Average Loan
1	REC (RGGVY) Term Loan	Project	186	10.50%		21	166	19	176
2	REC (R-APDRP- PART-B) Term Loan	Project	22	9.00%		7	15	7	19
3	PFC (COUNTER PART FUNDING) Term Loan	Project	69	11.12%		7	62	7	65
4	State Govt.-Non-Plan Loan	Project	332	10.50%	40	-	372	-	352
5	BSPHCL (ADB) Loan	Project	56	10.50%		-	56	6	56
6	REC (DDUGJY)	Project	1,033	8.82%		68	965	96	999
7	REC (IPDS)	Project Support	303	8.94%		20	283	27	293
8	Smart Metering		449	8.87%	2,695	-	3,144	279	1,797
9	Total		2,449		2,735	122	5,063	441	3,756
	Average Interest Rate on Loan								9.16%

Table 5.28: Weighted average rate of interest considered by SBPDCL for FY 2024-25 (RE)

Sr. No	Particulars	Purpose of loan	Opening balance	Rate of Interest	Addition during the year	Repayment during the year	Closing balance	Amount of interest paid	Average Loan
1	REC (RGGVY) Term Loan	Project	103.60	0.11	-	13.85	89.75	10.56	96.67
2	REC (R-APDRP) Term Loan	Project	253.72	0.10	-	34.93	218.79	23.32	236.26
3	PFC (R-APDRP) Term Loan	Project	113.24	0.09	-	10.89	102.35	18.41	107.80

4	REC (IPDS) Term Loan	Project	336.45	0.10	-	22.25	314.20	31.92	325.32
5	REC (DDUGJY) Term Loan	Project	745.29	0.10	-	48.66	696.63	70.78	720.96
6	REC (Smart Meter) Term Loan	Project	131.40	0.09	268.60	-	400.00	24.68	265.70
7	State Govt.-Non-Plan Loan	Project Support	170.70	0.13	24.41	-	195.11	23.78	182.90
8	BSPHCL (ADB) Loan	Project	6.28	0.13	-	-	6.28	0.82	6.28
9	Canara Bank- VSL	WC	300.00	0.07	-	-	300.00	20.25	300.00
10	Bank O/D under consortium arrangement (Lead Bank- PNB)	WC	2,756.27	0.09	750.00	-	3,506.27	281.81	3,131.27
11	REC Short Term Loan-RBPF	WC	250.00	0.10	500.00	250.00	500.00	42.50	375.00
12	REC- SLTTL	WC	1,038.34	0.10	-	159.74	878.60	96.58	958.47
13	PFC- SLTTL	WC	1,060.18	0.10	-	121.94	938.24	100.53	999.21
11	Total		7,265.47		1,543.01	662.26	8,146.22	745.94	7,705.84
Average Interest Rate on Loan: 9.51%									

Discoms have projected the interest charges for FY 2024-25 as detailed in the table below:

Table 5.29: Interest on loans projected by Discoms for FY 2024-25 (RE) (Rs. Crore)

Sl. No.	Particulars	Projected by NBPDCCL	Projected by SBPDCL	Total
1	Opening loan	5512	4265	9777
2	Addition to loan	2555	1856	4411
3	Less: Repayment	678	424	1102
4	Closing loan	7389	5696	13085
5	Average loans	6451	4980	11431
6	Interest rate/weighted average rate	9.16%	9.51%	
7	Interest Charges	590.57	473.64	1064.21

Commission's analysis:

The Commission has considered opening loan for FY 2024-25 in review based on the closing loan approved for NBPDCCL as Rs. 5599.60 Crore and for SBPDCL as Rs. 4266.57 Crore in true up for FY 2023-24.

The Commission has provisionally considered the addition to loan @70% of the net capitalisation (after reducing the grants) in terms of regulation 25(j) of the BERC (Multi Year Distribution Tariff) Regulations 2021 read with regulation 27 (a) as given hereunder:

Table 5.30: Debt Equity considered for FY 2024-25 in review (Rs. Crore)

Sl. No.	Particulars	NBPDCCL	SBPDCL
1	Capitalisation during FY 2024-25	2089.25	1986.24
2	Less: Capitalisation through Grants	139	134.00
3	Net capitalisation (1-2)	1950.25	1852.24
4	Debt @70% of 3	1365.17	1296.56
5	Equity @30% of 3	585.07	555.67

The Commission, in terms of regulation 25(e) of BERC (Multi Year Distribution Tariff) Regulations 2021, has considered repayment of loan equal to the depreciation considered for the year 2024-25.

The Commission has noted that the funding pattern is same for both DISCOMs. Therefore, the Commission has provisionally considered the weighted average rate of interest at 9.16 % for both DISCOMs in review and subject to true up based on audited accounts for FY 2024-25.

The Commission, considering the above, has computed interest on loans in review for

FY 2024-25 as detailed in the table below:

Table 5.31: Interest on loan considered for FY 2024-25 (RE) (Rs. Crore)

Sl. No.	Particulars	Considered for NBPDCCL in review	Considered for SBPDCL in review	Total
1	Opening loan	5599.60	4266.57	9866.17
2	Additions during the year	1365.17	1296.56	2661.74
3	Normative repayment	481.95	415.66	897.62
4	Closing loan (1+2-3)	6482.82	5147.47	11630.29
5	Average loans (1+4)/2	6041.21	4707.02	10748.23
6	Interest rate/weighted average rate	9.16%	9.16%	
7	Interest Charges (5x6)	553.37	431.16	984.54

The Commission, accordingly, has considered interest on loans for FY 2024-25 in review.

5.15. Other finance charges

Petitioners' submission:

Discoms have projected other finance charges for FY 2024-25 based on the charges claimed in true up for FY 2023-24 with escalation by 10% as given in the table below:

Table 5.32: Other finance charges projected for FY 2024-25 (RE) (Rs. Crore)

Sl. No.	Particulars	Projected by NBPDCCL in review	Projected by SBPDCL in review	Total
1	Other finance charges for the base year	76.69	143.50	220.19
2	Escalation percentage	10%	10%	
3	Escalated Amount	7.67	14.35	22.02
4	Finance Charges	84.36	157.85	242.21

Commission's analysis:

The Commission, based on the audited accounts for FY 2023-24 of Discoms, has approved other finance charges at Rs. 60.98 Crore for NBPDCCL and Rs. 117.11 Crore for SBPDCL in truing up for FY 2023-24. The Commission has considered escalation of 10% year on year in respect of other finance charges for the MYT control period of FY 2022-23 to FY 2024-25 in Tariff Order dated 25.03.2022 and accordingly has considered the escalation at 10% for FY 2024-25 in review. The Commission has considered other finance charges for FY 2024-25 as given in the table below:

Table 5.33: Other finance charges considered for FY 2024-25 in review (Rs. Crore)

Sl. No.	Particulars	Considered for NBPDCCL in review	Considered for SBPDCL in review	Total
1	Other finance charges as approved in true up for FY 2023-24	60.98	117.11	178.08
2	Escalation percentage	10.00%	10.00%	0.20
3	Add: increase in finance charges	6.10	11.71	17.81
4	Other finance charges	67.07	128.82	195.89

The Commission, accordingly, has considered other finance charges in review for FY 2024-25.

5.16. Return on Equity (ROE)

Petitioners' submission:

Discoms have submitted that RoE is calculated on the basis of closing balance of fixed assets as claimed in true up for FY 2023-24. It is submitted that RoE shall be allowed @14% on the net capital base as on 31.03.2016 and @15.50% on the net capital base with effect from 1st April 2016 onwards.

Discoms have computed the return on equity for FY 2024-25 as detailed in the table below:

Table 5.34: Return on Equity projected for FY 2024-25 (RE) (Rs. Crore)

Sl. No.	Particulars	Projected by NBPDCCL in review	Projected by SBPDCL in review	Total
1	Closing equity to end of 31.03.2016	440.86	638.06	1078.92
2	Rate of return on equity %	14%	14.00%	
3	Return on Equity	61.72	89.33	151.05
	Equity with effect from 1st April 2016			
4	Opening equity	2,438	1,750	4188
5	Equity addition during the year	1,095.16	795	1890.16
6	Closing equity	3532.69	2,544.92	6077.61
7	Average equity	2985.11	2,147.29	5132.40
8	Rate of return on equity	15.50%	15.50%	
9	Return on equity	462.69	332.83	795.52
10	Total Return on equity	524.41	422.16	946.57

Commission's analysis

The Commission has considered the opening equity based on the closing equity approved in true up for FY 2023-24 as given below:

Particulars	NBPDCCL	SBPDCL
Closing equity to end of 31.03.2016	440.86	638.06
Closing equity in respect of projects commissioned w.e.f.01.04.2016	2443.98	1500.50

The Commission accordingly has considered opening equity and in terms of regulation 27(c) of BERC (Multi Year Distribution Tariff) Regulations 2021 has considered Rate of RoE at 14% on equity upto 31.3.2016 and 15.50% on equity w.e.f.01.04.2016. Addition to equity for FY 2024-25 is considered based on funding of capitalisation as shown in above table.

Regulation 29 of BERC (Multi Year Distribution Tariff) Regulations 2021, specify

“The base rate of return on equity allowed under Regulation 27 shall be grossed up with the effective tax rate of the respective financial year. The effective tax rate shall be considered on the basis of actual tax paid in the respect of the financial year in line with the provisions of the relevant Finance Acts.”

The Commission observes that the Discoms (NBPDCCL and SBPDCL) have not paid/incurred any expenditure towards Income tax/MAT for FY 2023-24 and hence RoE is considered without considering the IT/MAT for FY 2024-25 in review.

Therefore, the Commission, has computed Return on Equity for FY 2024-25 as detailed in the table below:

Table 5.35: Return on Equity considered for FY 2024-25 (RE) (Rs. Crore)

Sl. No.	Particulars	Considered for NBPDCCL in review	Considered for SBPDCL in review	Total
1	Closing equity to end of 31.03.2016	440.86	638.06	1078.92
2	Rate of return on equity %	14.00%	14.00%	0.28
3	Return on Equity (1x2)	61.72	89.33	151.05
	Equity with effect from 1st April 2016			
4	Opening equity	2443.98	1500.50	3944.48
5	Equity addition during the year	585.07	555.67	1140.74
6	Closing equity (4+5)	3029.05	2056.17	5085.22
7	Average equity (4+6)/2	2736.52	1778.34	4514.85
8	Rate of return on equity with effect from 1.4.2016	15.50%	15.50%	
9	Return on equity (7*8)	424.16	275.64	699.80
10	Total Return on equity (3+9)	485.88	364.97	850.85

The Commission accordingly, considers Return on Equity in review for FY 2024-25.

5.17. Operation and Maintenance (O&M) Expenses

5.17.1 Employee Cost

Petitioners' submission:

Discoms have submitted that the Commission, in terms of Regulation 22 of BERC (Multi Year Distribution Tariff) Regulations 2021, had determined norms for computation of Employee cost for the upcoming control period of FY 2022-23 to FY 2024-25 as detailed in the table below:

Employee expense norm approved for NBPDCCL & SBPDCL in TO dated 25.03.2022

Particulars	Base employee expense norm for NBPDCCL	Base employee expense norm for SBPDCL
No. of personnel per substation	6.7650	9.4117
No. of personnel per 1000 consumers	0.0629	0.1504
Annual expenses per personnel (Rs. Crore)	0.0854	0.0914

Regulation 22.1 specify employee cost shall be computed as per the approved norm escalated by consumer price index (CPI) The CPI inflation shall be considered based on the average increase in CPI for immediately preceding three years i.e. FY 2021-22, FY 2022-23, FY 2023-24 and base year of FY 2020-21. The average CPI inflationary increase is computed as given below:

Particulars	2020-21	2021-22	2022-23	2023-24
Average CPI index points for FY	338.69	356.06	377.6	397.2
Increase in CPI index over the previous year		5.13%	6.05%	5.19%
Average CPI inflationary inc.	5.46%			

The Discoms accordingly, considering the norm for employee expense have computed the employee expenses for 2024-25 as given in the table below:

Table 5.36: Employee Cost projected for FY 2024-25 (RE) (Rs. Crore)

Sl. No.	Particulars	NBPDCCL		SBPDCL	
		Base value	Projected Employee expenses	Base value	Projected Employee expenses
1	Average annual CPI index		5.46%		5.46%
2	Norms-No. of personnel per 1000 consumers	0.0629	0.0629	0.1504	0.1504
3	Norms-No. of personnel per Substation	6.765	6.765	9.4117	9.4117
4	No. of consumers (in thousands)		13028		7725
5	No. of substations		643		625

Sl. No.	Particulars	NBPDCCL		SBPDCL	
		Base value	Projected Employee expenses	Base value	Projected Employee expenses
6	Annual expenses per personnel (Rs. Crore)	0.0854	0.1005	0.10201	0.1076
7	Employee cost per 1000 consumers (Rs. crore)		82.36		127.31
8	Employee cost per substation (Rs. crore)		437.23		632.77
9	Total Employee cost (Rs. crore)		519.59		757.76

Commission's analysis:

The Commission, in terms of regulation 22 of BERC (Multi Year Distribution Tariff) Regulations 2021, had determined Employee norm for the MYT control period of FY 2022-23 to FY 2024-25 in the Tariff Order dated 25.03.2022. The base value of determined employee expense norm is as given below:

Particulars	Base Value for NBPDCCL	Base Value for SBPDCL
No. of personnel per 1000 consumers	0.0629	0.1504
No. of personnel per Sub-Station	6.765	9.4117
Annual expenses per personnel (Rs. Crore)	0.0854	0.0914

Regulation 22.1 of BERC (Multi Year Distribution Tariff) Regulations 2021 specifies, employee cost shall be computed as per the approved norm escalated by CPI. CPI inflation is defined as the average increase in the CPI for immediately preceding three years. Accordingly, the Commission has worked out average CPI inflation based on the available CPI index points as given below:

Table 5.37: CPI Inflation considered for FY 2024-25

Particulars	2020-21	2021-22	2022-23	2023-24
Annual Average CPI Index	338.69	356.06	377.62	397.2
CPI Inflation		5.13%	6.05%	5.19%
Weighted average CPI inflation				5.46%

The Discoms have furnished details of projected total number of consumers and total no. of substations for FY 2024-25 as given below:

Particulars	NBPDCCL	SBPDCL
No. of consumers (in thousands)	13028	7725
No. of substations	643	625

Regulation 22 (g) specifies that the norms determined at constant prices of base year

shall be escalated on account of inflation. Accordingly, the Commission has considered the weighted average increase in the Consumer Price Index (CPI) at 5.46% (Table 5.37), for immediately preceding three years in terms of regulation 22.1 and escalated the base annual expenses per personnel to arrive the normative annual expenses for personnel for FY 2024-25.

The Commission considering the base value of employee expense norm has computed the employee expenses with CPI inflationary indexation of 5.46 % for FY 2024-25 as detailed in the table below:

Table 5.38: Employee expenses based on norm considered for FY 2024-25 for Discoms (Rs. Crore)

Sl. No.	Particulars	NBPDC		SBPDCL		Bihar Level (NBPDC+ SBPDCL)
		Base Value	2024-25	Base Value	2024-25	
1	Average annual CPI index		5.46%		5.46%	
2	Norms-Number of personnel per 1000 consumers	0.0629	0.0629	0.1504	0.1504	
3	Norms-Number of personal per substation	6.7650	6.7650	9.4117	9.4117	
4	No. of consumers (1000)		13027.57		7725.0	
5	No of substations		643.00		625.00	
6	Annual expenses per personnel (Rs. Crore)	0.0953	0.1005	0.1020	0.1076	
7	Employee cost on the norm of 1000 consumers (2*5*6) (Rs. Crore)		82.37		124.98	
8	Employee cost on the norms of substation (4*5*6) (Rs. crore)		437.23		632.78	
9	Total Employee cost (7+8) (Rs. Crore)		519.59		757.76	1277.35

The Commission, accordingly, considers the employee expenses for FY 2024-25 in review as given in the table above.

5.17.2 Administration and General (A&G) Expenses

Petitioners' submission:

Discoms have submitted that Administration and General expenses are projected in terms of regulation 22.3 with escalation for WPI inflationary index for FY 2024-25.

It is submitted that the Commission has determined the base value of A&G expense norm per 1000 consumers and A&G expense per employee and annual A&G expenses per 1000 consumers and per employee in the Tariff Order dated 25.03.2022 as detailed in the table below:

Table 5.39 A&G expense norm approved for NBPDCCL & SBPDCL in TO dated 25.03.2022

Particulars	Base A&G expense norm for NBPDCCL	Base A&G expense norm for SBPDCL
Norms-A&G expenses per 1000 consumers	0.420	1.00
Norms-A&G expenses per personal	0.360	0.850
Annual expenses per 1000 consumers (Rs. Cr)	0.0077	0.0099
Annual A&G expenses per employee (Rs. Crore)	0.0225	0.0121

Regulation 22.3 specifies A&G expenses shall be computed as per the approved norm escalated by wholesale price index (WPI). The WPI inflation shall be considered based on the average increase in WPI for immediately preceding three years. The WPI inflationary increase for FY 2024-25 is computed as given below:

Table 5.40 WPI inflationary increase for FY 2024-25

Years	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
Average WPI index points for FY	123.38	139.41	152.38	151.42
Increase in WPI index over previous year		13.00%	9.30%	-0.63%
Average WPI inflationary increase	7.22%			

Table 5.41: A & G Expenses projected for FY 2024-25 (RE) (Rs. Crore)

Sl. No.	Particulars	NBPDCCL		SBPDCL		Total (NB+SB)
		Base Value 2024-25	FY 2024-25	Base Value 2024-25	FY 2024-25	
1	Average annual WPI CPI index		7.22%		7.22%	
2	Norms-A&G expenses per 1000 consumers	0.42	0.42	1.00	1.000	
3	No. of consumers (1000)		13028		7725	
4	No of employees		4029		5488	
5	Annual expenses per 1000 consumers (Rs. Cr)	0.00875	0.00938	0.01125	0.01206	
6	Annual expenses per employee (Rs. Cr)	0.02556	0.02741	0.01375	0.01474	
7	A&G cost per 1000 consumers		122.19		93.16	
8	A&G cost per employee		110.42		80.89	
9	Total		232.61		174.05	560.35
10	Rent Charge for Smart Prepaid Meter		316.43		220.56	
11	Net Total A&G Cost		549.04		394.61	

In addition to the normative A&G expenses, the petitioner has also claimed expenses on account of installation of the Prepaid smart meters as details hereunder.

Phase 1: The total number of smart meters proposed to be installed under phase 1 is 23,50,000 out of which 10,30,000 lakhs belongs to NBPDCCL and 13,20,000 lakhs belongs to SBPDCL. The total smart meters under Phase 1 are under Opex mode which will be

booked under A&G expenses:

Smart Prepaid Meters under A&G expenses	Month	NBPDC			SBPDCL		
		Meters installed	Monthly Meter Rent	Total A&G cost	Meters installed	Monthly Meter Rent	Total A&G cost
Phase I: Phase I: 23.5 lakhs North 10.30 Lakhs	Op. Balance	691971	86.23	71.60	911879	86.23	94.36
	April	5010	86.23	0.48	5802	86.23	0.55
	May	3512	86.23	0.30	20386	86.23	1.76
	June	15665	86.23	1.22	16558	86.23	1.29
	July	5044	86.23	0.35	7642	86.23	0.53
	August	18718	86.23	1.13	15591	86.23	0.94
	September	17578	86.23	0.91	16849	86.23	0.87
	October	90834	86.23	3.92	108431	86.23	4.68
	November	90834	86.23	3.13	108431	86.23	3.74
	December	90834	86.23	2.35	108431	86.23	2.81
	January	0	86.23	-	0	86.23	0
	February	0	86.23	-	0	86.23	0
	March	0	86.23	-	0	86.23	0
	Total	1030000		85.38	1320000		111.51

Phase-II

NBPDC

- Under phase-II, 36 lakhs of smart prepaid meters are scheduled to be installed across the Bihar by the end of March-2024. In Phase-II smart prepaid meters are scheduled to be installed under hybrid mode i.e., CAPEX + OPEX mode in the ratio of 70:30.
- 10,00,000 smart prepaid meters are scheduled to be installed in South Bihar and 26,00,000 smart prepaid meters are scheduled to be installed in North Bihar.
- Below table shows the expected expenditure under the OPEX mode for installation of 26 lakhs smart meter for SBPDCL and the expected expenditure under the OPEX mode for installation of 26 lakhs smart meter for NBPDC are given below:

Smart Prepaid Meters under A&G expenses	Month	NBPDC			SBPDCL		
		Meters installed	Monthly Meter Rent	Total A&G cost	Meters installed	Monthly Meter Rent	Total A&G cost
Phase I: Phase I: 23.5 lakhs North 10.30 Lakhs	Op. Balance	1051481	79.49	100.30	407959	70.60	34.56
	April	105842	79.49	9.25	47845	70.60	3.72
	May	128492	79.49	10.21	85388	70.60	6.03
	June	94152	79.49	6.74	51886	70.60	3.30
	July	82619	79.49	5.25	36493	70.60	2.06
	August	83385	79.49	4.64	33016	70.60	1.63

	September	62616	79.49	2.99	29454	70.60	1.25
	October	146088	79.49	5.81	153980	70.60	5.44
	November	146088	79.49	4.65	153979	70.60	4.35
	December	146088	79.49	3.48	0	70.60	0
	January	146088	79.49	2.32	0	70.60	0
	February	146088	79.49	1.16	0	70.60	0
	March	146088	79.49	-	0	70.60	0
Total				156.80	1000000		62.33

Phase-III

- In the final phase i.e. phase-III 1.12 Crore of smart prepaid meters are scheduled to be installed across the Bihar by the end of March-2024. In Phase-III smart prepaid meters are scheduled to be installed under hybrid mode i.e. CAPEX + OPEX mode in the ratio of 70:30.
- Out of 1.12 Crore, 77 lakhs smart prepaid meters are scheduled to be installed in North Bihar and 35 lakhs smart prepaid meters are scheduled to be installed in South Bihar.
- Below table shows the expected expenditure under the OPEX mode for installation of 35 lakhs smart prepaid meters for South Bihar and the expected expenditure under the OPEX mode for installation of 77 lakhs smart prepaid meters for North Bihar are given below:

Smart Prepaid Meters under A&G expenses	Month	NBPDCCL			SBPDCL		
		Meters installed	Monthly Meter Rent	Total A&G cost	Meters installed	Monthly Meter Rent	Total A&G cost
Phase I: Phase I: 23.5 lakhs North 10.30 Lakhs	Op. Balance	0		-	7280	78.26	0.68
	April	0	81.20	-	27902	78.26	2.40
	May	22444	81.20	1.82	56686	78.26	4.44
	June	62253	81.20	4.55	74966	78.26	5.28
	July	114931	81.20	7.47	85425	78.26	5.35
	August	180494	81.20	10.26	84213	78.26	4.61
	September	209802	81.20	10.22	96406	78.26	4.53
	October	327834	81.20	13.31	165541	78.26	6.48
	November	327832	81.20	10.65	165541	78.26	5.18
	December	327832	81.20	7.99	165541	78.26	3.89
	January	327832	81.20	5.32	165541	78.26	2.59
	February	327832	81.20	2.66	165541	78.26	1.30
	March	327832	81.20	-	165541	78.26	0
Total				74.25			46.72

Table 5.42: Total A & G Expenses projected for FY 2024-25 (RE) (Rs. Crore)

Sl. No.	Particulars	Total A&G expenses projected by NBPDCCL	Total A&G expenses projected by SBPDCL	Total
1	Normative A&G expenses	232.61	174.05	
2	Rent charges for Smart prepaid meter	316.43	220.56	
3	Total A&G expenses	549.04	394.61	

Commission's analysis:

The Commission, in terms of regulation 22 of BERC (Multi Year Distribution Tariff) Regulations 2021, had determined A&G expense norm for the MYT control period of FY 2022-23 to FY 2024-25 in the Tariff Order dated 25.03.2022. The base value of determined A&G expense norm is as given below:

Particulars	Base Value for NBPDCCL	Base Value for SBPDCL
Norm-A&G expense per 1000 consumers	0.420	1.000
Norm-A&G expense per personal/employee	0.360	0.850
Annual A&G expenses per 1000 consumers (Rs. Crore)	0.0077	0.0099
Annual A&G expenses per employee (Rs. Crore)	0.0225	0.0121

Regulation 22.3 of BERC (Multi Year Distribution Tariff) Regulations 2021 specifies, A&G expenses shall be computed as per the approved norm escalated by WPI. The WPI inflation is defined as the average increase in the WPI for immediately preceding three years. Accordingly, the Commission has worked out average WPI inflation based on the available WPI index points as given hereunder.

Table 5.43: Weighted average WPI index inflation

Particulars	2020-21	2021-22	2022-23	2023-24
Average annual WPI index	123.38	139.41	152.53	151.42
Year on year increase	1.29%	13.00%	9.41%	-0.73%
Average increase	7.23 %			

Discoms have furnished the no. of employees in Format 10 and no. of consumers in Format 7 of the petition for the year FY 2024-25 as given below.

Particulars	NBPDCCL	SBPDCL
No. of consumers	13028	7725
No. of employees	4029	5488

The Commission, considering the base year A&G expense norm and no. of consumers has computed the A&G expenses with WPI inflationary indexation of 7.23 % for FY

2024-25 as detailed in the table below:

Table 5.44: A&G expenses based on norm considered for FY 2024-25 for Discoms (Rs. Crore)

Sl. No.	Particulars	NBPDCCL		SBPDCL		Total
		Base Value	2024-25	Base Value	2024-25	
1	Average annual WPI index		7.23%		7.23%	
2	Norms-A&G expenses per 1000 consumers	0.42	0.42	1.000	1	
3	No. of consumers (1000)		13028		7725	
4	No of employees		4029		5488	
5	Annual expenses per 1000 consumers (Rs. Crore)	0.0077	0.00938	0.0099	0.01207	
6	Annual expenses per employee (Rs. Crore)	0.0225	0.02742	0.0121	0.01474	
7	A&G cost for 1000 consumers (3*5)		122.24		93.22	
8	A&G cost for employees (4*6)		110.47		80.89	
9	Normative A&G expenses (G+H) (Rs. Crore)		232.72		174.11	406.83

Accordingly, the Commission has allowed only 50 % of phase-II and phase-III smart prepaid meter project for FY 2024-25 subject to true-up based on actual expenses reported through audited accounts due prudence check and validation as directed in Order dated 25.04.2023 in Case No. 05/2020 and Order dated 28.04.2023 in Case No 26/2022 and Case No 27/2022. Therefore, the Commission directs both DISCOMs to file a separate petition for approval of rental charges in respect of Phase II and Phase III smart prepaid meters project.

Accordingly, the Commission has allowed only 50 % of phase-II and phase-III smart prepaid meter project for FY 2024-25 as given below:

Particulars	A&G expenses approved in APR for NBPDCCL	A&G expenses approved in APR for SBPDCL
Normative A&G expenses approved	232.72	174.11
Rental charges allowed for smart prepaid meters	200.91	166.04
Phase I	85.38	111.51
Phase II	78.40	31.17
Phase III	37.13	23.36
Total A&G expenses	433.62	340.14

The Commission, accordingly, considers the A&G expenses for FY 2024-25 in review

as given in the table above.

5.17.3 Repairs and Maintenance (R&M) Expenses

Petitioners' submission:

Discoms have submitted that Regulation 22.2 of BERC (Multi Year Distribution Tariff) Regulations 2021, specify R&M expenses as a percentage (as per the norm determined) of Gross Fixed Assets excluding land cost for the year. The Commission has determined the R&M norm i.e. 'K' factor at 1.24% for NBPDCCL and 1.71% for SBPDCL for the MYT control period of FY 2022-23 to FY 2024-25 in the Tariff Order dated 25.03.2022. Discoms have projected the R&M expenses for FY 2024-25 as shown in the table below:

Table 5.45: R & M expenses projected for FY 2024-25 (RE) (Rs. Crore)

Sl. No.	Particulars	Projected by NBPDCCL in review	Projected by SBPDCL in review	Total
1	Opening GFA	23414.31	18519.88	41934.19
2	Opening land cost	1047.43	1546.29	2593.72
3	Opening GFA excl. land cost	22366.89	16973.60	39340.49
4	K factor	1.24%	1.71%	
5	R & M expenses	277.35	290.25	567.60

Commission's analysis

The Commission has examined the R&M expenses projected by the Petitioner's for FY 2024-25. Regulation 22.2 of BERC (Multi Year Distribution Tariff) Regulations 2021, specify R&M expenses as a percentage (as per the norm determined) of Gross Fixed Assets excluding land cost for the year.

The Commission had determined the R&M norm i.e. 'K' factor at 1.24% for NBPDCCL and 1.71% for SBPDCL for the MYT control period of FY 2022-23 to FY 2024-25 in the Tariff Order dated 25.03.2022.

The Commission has considered the opening GFA net of land value for FY 2024-25 as per the closing GFA in true-up of FY 2023-24 and accordingly considers R&M expenses adopting 'K' factor for FY 2024-25 (RE) as detailed in the table below:

Table 5.46: R&M expenses considered for FY 2024-25 (RE) (Rs. Crore)

Sl. No.	Particulars	Considered for NBPDCCL in review	Considered for SBPDCL in review	Total
1	Opening GFA	21857.21	16093.61	37950.82
2	K factor	1.24%	1.71%	
3	R & M expenses	271.03	275.20	546.23

The Commission, accordingly, considers R&M expenses in review for FY 2024-25.

5.17.4 Allocation of Holding Company Expenses

Petitioners' submission

Discoms have submitted that as per Schedule 'F', the Holding Company shall continue to provide services to all successor entities during the interregnum period, until issue of further transfer notifications allocating the employees to respective companies.

Discoms have estimated the Holding Company expenses for FY 2024-25 duly escalating at 10% over the actual holding company expenses claimed in true up for FY 2023-24 as given in table below:

Table 5.47: Holding Company Expenses projected for FY 2024-25 (RE) (Rs. Crore)

Particulars	Projected by NBPDCCL in review	Projected by SBPDCL in review	Total
Holding company expenses considered for FY 2023-24	34.12	34.73	68.85
Escalation % considered	10%	10%	
Increase considered	3.41	3.47	6.88
Total	37.53	38.21	75.74

Commission's analysis:

The Commission has considered the holding company expenses approved in truing up for FY 2023-24 as base holding company expenses and further escalated with CPI inflationary increase of 5.46% (as adopted for Employee expenses since the holding company expenses majorly represent employee/Manpower expenses), and considered holding company expenses for FY 2024-25.

The Commission, in terms of Bihar State Electricity Reforms Transfer Scheme, 2012, has considered the holding company expenses for FY 2024-25 in review, as detailed below:

Table 5.48: Holding Company expenses considered for FY 2024-25 (RE) (Rs. Crore)

Particulars	Considered for NBPDCCL in review	Considered for SBPDCL in review	Total (NB+SB)
Base Holding company expenses	34.12	34.73	68.85
Escalation %	5.46%	5.46%	
Increase	1.86	1.89	3.75
Total Holding company expenses	35.98	36.62	72.61

5.17.5 Summary of Operation and Maintenance (O&M) Expenses

The summary of the revised O & M expenses considered in review for FY 2024-25 (RE) as tabulated below:

Table 5.49: Total O&M cost considered for FY 2024-25 (RE) (Rs. Crore)

Sl. No.	Particulars	Considered for NBPDCCL in review	Considered for SBPDCL in review	Total (NB+SB)
1	Employee cost	519.59	757.76	1277.35
2	R&M expenses	271.03	275.20	546.23
3	A&G Expenses	433.62	340.14	773.77
4	Holding company Expenses	35.98	36.62	72.61
5	Total O & M cost	1260.22	1409.73	2669.95

5.18. Interest on Security Deposit

Petitioners' submission:

Discoms have submitted that interest on Security Deposit has been considered as per prevailing RBI Bank Rate of 6.50 %. The opening balance is considered as per the audited accounts for FY 2023-24 and the additions to SD for FY 2024-25 is considered equivalent to the amount of actual addition during FY 2023-24. The Discoms have projected interest on security deposit for FY 2024-25 as detailed in the table below:

Table 5.50: Interest on security deposit projected for FY 2024-25 (RE) (Rs. Crore)

Sl. No.	Particulars	Projected by NBPDCCL	Projected by SBPDCL	Total
1	Opening Security Deposit	488.74	838.87	1327.61
2	Addition / (Deletion) during the year	38.03	55.28	93.31
3	Closing Security Deposit	526.77	894.14	1420.91
4	Average Security Deposit (1+3)/2	507.76	866.50	1374.26
5	RBI Bank Rate	6.50%	6.50%	
6	Interest on Security Deposit	33.00	56.32	89.32

Commission's analysis:

The BERG (Multi Year Distribution Tariff) Regulations 2021, Regulation 26 (iii) specifies that

“provided further that interest shall be allowed on consumer security deposits and security deposits from Distribution system users held during the year at the Bank Rate as of the date on which the petition for determination is filed. The interest allowed shall be subject to true up at weighted average Bank Rate of the concern Financial Year”.

Section 47(1)(a) of the Electricity Act, 2003 inter alia specifies that

“a distribution licensee may require any person, who requires a supply of electricity in pursuance of section 43, to give him reasonable security, as may be determined by regulation.....”

The section 47 (4) of the act further specifies that the distribution licensee shall pay interest equivalent to the same rate or more as may be specify by the concerned state Commission.

The BERC Supply Code Regulations 2007 also specifies that the distribution licensee shall pay interest at the RBI Bank rate, applicable on security deposits taken from the consumers.”

The Commission has considered opening Security Deposit (SD) from consumers based on the closing SD in the audited account of FY 2023-24 and net addition to SD is considered as projected by the Discoms for FY 2024-25. The rate on interest is considered as per RBI rate at 6.50% i.e. prevailing rate as on the date of filing of tariff petitions by the Discoms.

The Commission considers the interest on consumer’s security deposit in review for FY 2024-25 as given in the table below:

Table 5.51: Interest on security deposit considered for FY 2024-25 (RE) (Rs. Crore)

Sl. No.	Particulars	Considered for NBPDCCL in review	Considered for SBPDCL in review	Total
1	Opening Security Deposit	488.74	838.86	1327.60
2	Addition during the year	38.03	55.28	93.31
3	Closing Security Deposit (1+2)	526.77	894.14	1420.91
4	Average Security Deposit (1+3)/2	507.76	866.50	1374.26
5	RBI Bank Rate	6.50%	6.50%	0.13
6	Interest on Security Deposit (4*5)	33.00	56.32	89.33

The Commission considers interest on Consumer’s Security Deposit for FY 2024-25 in review as shown above.

5.19. Non-Tariff Income

Petitioners’ submission:

Discoms have submitted that Non-Tariff income includes bank charges, interest on investments and bank balances, miscellaneous recoveries etc. and projected the non-tariff income for FY 2024-25 with an overall escalation of around 10 % on the non-tariff income of FY 2023-24. The Discoms have estimated the Non-tariff income at such

higher rate due to the reasons that the DISCOMs while implementing Smart prepaid meters in the state in the coming years are expecting arrear and DPS recovery at a higher rate as compared to previous years which is further expected to increase the NTI at a higher rate in the coming years.

Discoms have projected the non-tariff income in FY 2024-25 as detailed in the Table below:

Table 5.52: Net Non-tariff Income projected by NBPDCCL and SBPDCL for FY 2024-25 (RE) (Rs. Crore)

Particulars	Approved for FY 2024-25 for NBPDCCL	Approved for FY 2024-25 SBPDCL
Base Non-tariff income	689.76	293.40
Less: Rebate included in the above	35.59	39.29
Sub-total	654.17	254.11
Add: Rebate @1% on total power purchase (incl. transmission charges) for FY 2024-25	128.91	153.88
Non-tariff income	783.08	407.99

Table 5.53: Non-tariff Income projected by NBPDCCL and SBPDCL for FY 2024-25 (RE) (Rs. Crore)

Particulars	NBPDCCL Projected for FY 2024-25 (RE)	SBPDCL Projected for FY 2024-25 (RE)
Interest on Advances to Suppliers/Contractors	19.91	30.66
Interest on Saving Accounts	17.03	41.09
Interest on Staff Loan & Advances	22.61	0.01
Interest Income	59.55	71.76
Delayed Payment Surcharge from Consumers	466.90	71.64
Income From Interest on TDS Refund	-	0.17
Income from sale of tender paper	1.06	-
Miscellaneous Receipts	0.67	7.83
Rebate and Discount Received	11.42	-
SCED benefits	25.02	29.37
Consumer contribution income	4.08	3.04
Rental income	1.20	0.00
Income from sale of Scrap	13.52	20.07
Supervision Charge	25.70	23.33
Incentive for GCRT	-	23.33
Rental Income from Board Property	-	2.41
Incentive for timely payment of power purchase bills	-	5.32
Miscellaneous charges from Consumers	74.35	-
Meter rent / service line rental	2.43	1.26
Other Income	623.91	164.44
Excess provision written back	-	-
Liquidated damage income from Agencies	-	0.15
Others	-	-
Total Non-tariff income	683.46	0.15
Delayed Payment Surcharge from Consumers	466.90	71.64
Principal amount on which DPS Charged	2,593.90	398.00

Particulars	NBPDCCL Projected for FY 2024-25 (RE)	SBPDCL Projected for FY 2024-25 (RE)
Interest Rate of funding DPS	10.45%	10.45%
Interest on funding Principal	271.06	41.59
Net Non-Tariff Income	412.40	194.76

Commission analysis:

The Commission has considered the base value of non-tariff income of FY 2024-25 which is excluding penalty charges and excess provision written back income of FY 2023-24.

It is observed from the Format 27B of the petitions, NBPDCCL has projected Rs. 11.42 crore and SBPDCL as NIL towards Rebate and Discount received for timely payment of power purchase bills for FY 2024-25.

The Commission, considers rebate @1% of the power purchase cost including PGCIL and transmission charges for FY 2024-25. The Commission, accordingly, has considered non-tariff income for FY 2024-25 in review as detailed in the table below.

Table 5.54: Non-tariff income considered for FY 2024-25 (RE) (Rs. Crore)

Sl. No.	Particulars	Considered for NBPDCCL in review	Considered for SBPDCL in review	Total
1	Non-tariff income projected by the petitioner	555.09	465.56	1020.65
2	Less: Rebate on power purchase considered by the Petitioners	113.69	141.82	255.51
	Sub-total	441.39	323.74	765.14
2	Add: Rebate @1% on power purchase	108.99	131.92	240.07
3	Total Non- tariff income	550.39	454.66	1006.05

The Commission, accordingly, considered non-tariff income for FY 2024-25 (RE) as detailed in the Table above.

5.20. Interest on working capital

Petitioners' submission:

Discoms have submitted that, in terms of Regulation 26 of BERC (Multi Year Distribution Tariff) Regulations 2021, the working capital requirement and interest on working capital is computed for FY 2024-25. The rate of interest applied on the proposed working capital is @9.45% as per the SBI 1 year MCLR plus 150 basis points

in terms of regulation 26. Discoms have submitted that they have not considered grant against disallowed power purchase for low distribution loss, since the support is infused by State Govt. in terms of equity and not in terms of grant.

Discoms have projected interest on working for FY 2024-25 computed based on the norms as detailed in the table below:

Table 5.55: Interest on working capital projected for FY 2024-25 (RE) (Rs. Crore)

Sl. No.	Particulars	Projected by NBPDCCL in review	Projected by SBPDCL in review
1	Two months equivalent expected revenue	2342.57	2892.69
2	Maintenance spares @40% of R&M expenses for one month	9.24	9.67
3	Sub-total (1+2+3)	2351.81	2902.36
4	Less:		
(i)	Power purchase cost, transmission charges and load dispatch charges of one month	969.55	1138.16
(ii)	Depreciation, return on equity and contribution to contingency reserve	200	141.09
(iii)	Resource Gap grant / subsidy for two months	1219.33	1347.83
(iv)	Security Deposit from consumers	489	838.87
5	Sub-total (5(i)+5(ii)+5(iii))	693.10	3465.95
6	Net working capital (3-5)	(526.24)	(563.59)
9	Rate of interest %	10.45%	10.45%
10	Interest on working capital (7*8)	-	--

Commission's analysis

The Commission has computed the interest on working capital as per the norms prescribed in regulation 26 of the BERC (Multi Year Distribution Tariff) Regulations, 2021. The Commission has considered rate of interest at 10.45 % (8.95 % plus 1.50% (i.e.150 basis as per regulation 26) and accordingly, the same is applied on the working capital for computing interest on working capital in review for FY 2024-25.

Regulation 26 (iii) specifies that:

“Provided also that if the State Government is providing resource gap grant and/or direct subsidy to consumers, the working capital shall be reduced by two months equivalent of that amount”.

The Commission has noted that resource gap Subsidy grant as Rs. 1219.33 for NBPDCCL and Rs. 1347.83 for SBPDCL respectively.

The Commission, as specified in regulation 26 has considered two months equivalent of subsidy and reduced from the working capital requirement.

Accordingly, the Commission based on the expenses/costs approved in review for FY

2024-25, has computed the working capital requirement and interest on working capital for FY 2024-25 in review as detailed in the table below:

Table 5.56: Interest on working capital considered for FY 2024-25 (RE) (Rs. Crore)

Sl. No.	Particulars	Considered for NBPDCCL in review	Considered for SBPDCL in review
1	Maintenance spares @40% of R&M expenses for one month	9.03	9.17
2	Two months equivalent of expected revenue	2352.33	2888.12
3	Sub-total (1+2)	2361.37	2897.29
4	Less:		
	(i) Power purchase cost, transmission charges and load dispatch charges of one month	908.28	1099.30
	(ii) Depreciation, return on equity and contribution to contingency reserve	161.31	130.11
	(iii) Security Deposits from consumers	526.77	894.14
	(iv) Resource Gap grant / subsidy for two months	1219.33	1347.83
5	Sub-total (4(i)+4(ii)+4(iii)+4(iv))	2815.69	3471.37
6	Net working capital requirement (3-5)	-454.32	-574.08
7	Rate of interest %	10.45%	10.45%
8	Interest on working capital (6*7)	0.00	0.00

The Commission, accordingly, considers NIL interest on working capital for FY 2024-25 in review.

5.21. Revenue from sale of power at existing tariff

Petitioners' submission

Discoms have submitted the category wise revenue from sale of power based on the existing tariff for FY 2024-25 as detailed in the table below:

Table 5.57: Revenue from sales of Power at existing Tariff projected by Discoms for FY 2024-25 (RE)

Category of consumers	NBPDCCL		SBPDCL		Total	
	Sales (MU)	Total Revenue (Rs. Cr)	Sales (MU)	Total Revenue (Rs. Cr)	Sales (MU)	Total Revenue (Rs. Cr)
Domestic	9,154.45	7537	8093.40	7024.84	17,247.85	14561.84
Kutir Jyoti	2,750.97	2146	1524.26	1169	4,275.23	3315
DS I Rural	4501.22	3689	3346	2757	7,847.22	6446
DS II Demand Based	1901.87	1702	1312	1038	3,213.87	2740
DS III	0.38	0	0	0.27	0.38	0.27
Non-Domestic Service	1972.17	2034	1785	2085	3,757.17	4119

Category of consumers	NBPDCCL		SBPDCL		Total	
	Sales (MU)	Total Revenue (Rs. Cr)	Sales (MU)	Total Revenue (Rs. Cr)	Sales (MU)	Total Revenue (Rs. Cr)
NDS I - Metered Now Demand Based	814.41	705	450	395	1,264.41	1100
NDS II - Demand Based	1157.76	1330	1335	1691	2,492.76	3021
Street Light Services	210.90	153	273	205	483.90	358
SS Metered	18.07	17			18.07	17
SS Unmetered	192.83	136			192.83	136
Irrigation & Allied Services	1834.95	1350	4359	3173	6,193.95	4523
IAS I	1688.34	1210	3991	2883	5,679.34	4093
IAS II	146.61	139	368	290	514.61	429
Public Service Connections	550.83	504	514	494	1,064.83	998
Public Water Works	38.92	64	153	188	191.92	252
Har Ghar Nal	511.91	440	361	306	872.91	746
Low Tension Industrial Services	479.12	734	548	869	1,027.12	1603
LTIS I (0-19 kW)	435.13	654	339	546	774.13	1200
LTIS II (>19 kW - 74 kW)	43.99	79	209	323	252.99	402
LT Electric Vehicle Charging Station	6.01	14	7	6.31	13.01	20.31
High Tension	1023	1271	1922	2361	2,945.00	3632
HTS I - 11 kV	639.22	806	943	1237	1,582.22	2043
HTS II - 33 kV	270.28	312	699	830	969.28	1142
HTS III -132 kV	114.28	145	279	294	393.28	439
HTS IV - 220 kV	-	8	-	-	0.00	8
HTSS	36.60	0	789	563	825.60	563
HT Electric Vehicle Charging Stations.	-	0	-	-	0.00	0
Sale to Sugar Mills	4.57	2	-	-	4.57	2
Sale to Solar Companies	0.71	1	-	-	0.71	1
IEX through PMC	-	-	683.03	215.02	683.03	215.02
ale of Power to IEX through BSPHCL	581.84	183	-	-	581.84	183
HTIS (Oxygen manufacturers)- 11 KV	0.20	0	6	12	6.20	12
Railway Traction Services	125.80	159	301	348	426.80	507
Nepal	-	-	-	-	0.00	0
Total	16009.22	13991.59	19281.54	17356.14	35290.76	31347.73

Commission's analysis

The Commission has computed category wise revenue on existing tariffs for FY 2024-25 based on the projections of number of consumers, connected load and energy sales (excluding exchange sales) as approved by the Commission in this review order for FY 2024-25. The detailed calculation is available as annexure 5.1 and 5.2 to this order. The expected revenue from sale of power for NBPDCCL and SBPDCL for FY 2024-25 considered by the Commission is shown in the Table below:

Table 5.58: Revenue from Sale of Power for FY 2024-25 (RE) as Considered by Commission (Rs. Crore)

Particulars	NBPDCCL	SBPDCL	Total
Sales (MU)	15474.64	18479.34	33953.98

Particulars	NBPDC	SBPDCL	Total
Revenue (Rs. Cr)	14114.00	17328.72	31442.72

5.22. Annual Revenue Requirement and Revenue Gap at existing tariff projected for FY 2024-25 (RE)

Petitioners' submission:

Discoms have submitted that the gross ARR consists of the power purchase costs, interest and finance cost, O&M cost, depreciation and interest on working capital. The Discoms have computed the revenue requirement for FY 2024-25 against approved revenue requirement by the Commission for FY 2022-23 in Tariff Order dated 25.03.2022, as detailed in the table below:

Table 5.59: ARR and Revenue Gap/(Surplus) projected for FY 2024-25 (RE) (Rs. Crore)

Sl. No	Particulars	NBPDC	SBPDCL
		Projected by NBPDC in review	Projected by SBPDCL in review
1	Purchase of power	9893.65	11614.28
2	Transmission Charges	1740.92	2043.69
3	O & M Expenses (A+B+C+D)	1383.51	1480.82
A	Employee expenses	519.59	757.76
B	R&M expenses	277.35	290.25
	A&G expenses	232.61	174.05
	Rent Charges for Smart Prepaid Meter	316.43	220.56
C	Total A&G expenses	549.04	394.61
D	Holding company expenses	37.53	38.21
4	Depreciation	678.18	424.39
5	Interest on loan	590.57	473.64
6	Other finance charges	84.36	161.93
7	Return on equity	524.41	422.16
8	Interest on SD	33.00	56.32
9	Interest on working capital	-	-
10	Demand Side Management	30.00	30.00
11	Bad & doubtful debts	-	0.90
12	Total Revenue requirement	14958.61	16708.14
13	Less: Non-tariff income	412.40	194.76
14	Net Revenue requirement (1 to 15)	14546.21	16513.38
15	Revenue from Existing tariff	14055.43	17356.14
16	Gap / (Surplus)	490.78	(842.76)
17	Less: (Gains)/Loss on account of controllable factors absorbed by licensee	-	-
18	Less: Treatment of AT&C loss subsidy considered as pass through	-	-
19	Add: Revenue Gap/ (Surplus) of previous FY	-	-
20	Net Gap / (Surplus)	490.78	(842.76)

Commission analysis:

The Commission has computed the net annual revenue requirement based on the costs approved in the preceding paragraphs in the review as detailed in the table below:

Table 5.60: ARR and Revenue Gap/(Surplus) considered in review for FY 2024-25 (Rs. Crore)

Particulars	FY 2024-25	
	NBPDCCL	SBPDCL
Purchase of power	9274.03	11176.08
PGCIL and other transmission charges	921.36	1188.48
BSPTCL transmission charges including SLDC	592	695
BGCL transmission charges	107	126
ERLDC, POSOCO	5	6
O & M Expenses (A+B+C+D)	1260.22	1409.73
Employee expenses	519.59	757.76
R&M expenses	271.03	275.20
A&G expenses	433.62	340.14
Holding company Expenses	35.98	36.62
Depreciation	361.47	311.75
Interest on loan	553.37	431.16
Other finance charges	67.07	128.82
Return on equity	485.88	364.97
Interest on SD	33.00	56.32
Bad & doubtful debts	0	0
Interest on working capital	0.00	0.00
Demand Side Management	0	0
Gross ARR	13673.79	15821.18
Less: Non-tariff Income	550.39	455.66
ARR for the year	13110.02	15438.65
Revenue from Existing tariff	14114.00	17328.72
Standalone gap/(surplus)	(1003.98)	(1890.06)
Carry forward gap/(surplus) of FY 2022-23 with carrying cost	899.14	(1250.94)
Net Gap / (Surplus) for FY 2024-25	(104.84)	(3141.00)

The Commission considers the **net revenue surplus of Rs. 3245.84 Crore** for Discoms (**Rs. 104.84 Crore for NBPDCCL and Rs. 3141.00 Crore for SBPDCL**) in review for FY 2024-25 subject to final truing up as and when the audited annual accounts for FY 2024-25 are submitted by the Discoms.

According to Regulation 14 (f) of BERC (Multi Year Distribution Tariff) Regulations, 2021 specify that

“The revised estimated gap/surplus as a result of APR shall not be passed in the ARR of ensuing year.”

The Commission accordingly has not considered the estimated revenue Gap/(Surplus) as a result of Annual Performance Review (APR) as pass through in the ARR of ensuing year i.e. FY 2025-26.

Annexure- 5.1

Revenue from Sale of Power FY 2024-25 - NBPDC													
Sr. No	Category of Consumers	Tariff Schedule					Approved Data						
		Fixed/Demand Charge (Rs)	Unit	Energy Charge (Rs)	Unit	Sales (MUs)	No of Consumers	Connected Load (kW/kVA/HP)	Fixed Charges (Rs Crores)	Energy Charges (Rs Crores)	Others (Rs Crores)	Total (Rs Crores)	ABR (Rs/kWh)
1	Domestic					9,154.45	11563807	95,49,141	630.14	6906.48	0.00	7536.62	8.23
A	Kutir Jyoti					2,612.52	4354193	10,98,615	104.50	1938.49	0.00	2042.99	7.82
i	Unmetered (Now Metered)	20.00	Connection/ Month	7.42		-	0	0	0.00	0.00		0.00	-
ii	Metered 0-50	20.00	Connection/ Month	7.42	kWh	2,612.52	4354193	10,98,615	104.50	1938.49		2042.99	7.82
B	DS I Rural					4,639.67	5764392	59,50,314	285.62	3505.95	0.00	3791.56	8.17
i	Metered (Now Demand Based)					-	0	59,50,314	285.62	3505.95	0.00	3791.56	-
a	First 50 Units	40.00	kW/Month	7.42	kWh	3,467.31	0	44,00,529	211.23	2572.74		2783.97	8.03
b	Above 50 Units	40.00	kW/Month	7.96	kWh	1,172.36	0	15,49,785	74.39	933.20		1007.59	8.59
C	DS II Demand Based					1,901.87	1445130	24,99,660	239.97	1461.70	0.00	1701.67	8.95
i	First 100 Units	80.00	kW/Month	7.42	kWh	1,571.74	0	20,65,764	198.31	1166.23		1364.55	8.68
ii	Above 100 Units	80.00	kW/Month	8.95	kWh	330.13	0	4,33,896	41.65	295.47		337.12	10.21
D	DS III	80.00	kW/Month	9.03		0.38	92	553	0.05	0.35		0.40	10.41
2	Non_Domestic Service					1,972.17	996870	20,00,347	463.22	1571.27	0.00	2034.50	10.32
A	NDS I - Metered Now Demand Based					814.41	589733	8,92,449	64.26	640.53	0.00	704.79	8.65
i	First 100 Units	60.00	kW/Month	7.79	kWh	669.09	0	7,33,197	52.79	521.22		574.01	8.58
ii	Above 100 Units	60.00	kW/Month	8.21	kWh	145.33	0	1,59,252	11.47	119.31		130.78	9.00
B	NDS II - Demand Based					1,157.76	407137	11,07,898	398.97	930.74	0.00	1329.71	11.49
i	Contract Demand <0.5 kW	200.00	Connection/ Month	7.73	kWh	1.70	2561	1,363	0.61	1.31		1.93	11.35
ii	Contract Demand >0.5 kW					1,156.06	404576	11,06,535	398.35	929.43	0.00	1327.78	11.49
a	First 100 Units	300.00	kW/Month	7.73	kWh	857.78	0	8,21,037	295.57	663.07		958.64	11.18
b	Above 100 Units	300.00	kW/Month	8.93	kWh	298.28	0	2,85,498	102.78	266.36		369.14	12.38
3	Street Light Services					98.16	3064	31,566	136.73	16.32	0.00	153.05	15.59
A	SS Metered	100.00	kW/Month	9.03	kWh	18.07	752	4,871	0.58	16.32		16.90	9.35

Revenue from Sale of Power FY 2024-25 - NBPDC													
Sr. No	Category of Consumers	Tariff Schedule					Approved Data						
		Fixed/De mand Charge (Rs)	Unit	Energy Charge (Rs)	Unit	Sales (MUs)	No of Consumers	Connected Load (kW/kVA/HP)	Fixed Charges (Rs Crores)	Energy Charges (Rs Crores)	Others (Rs Crores)	Total (Rs Crores)	ABR (Rs/kWh)
B	SS Unmetered	4250.00	kW/Month	0.00	kWh	80.09	2312	26,695	136.15	0.00		136.15	17.00
4	Irrigation & Allied Services					1,834.95	294864	6,14,355	186.93	1242.15	0.00	1429.08	7.79
A	IAS I					1,688.34	288029	5,57,118	148.77	1125.35	0.00	1274.12	7.55
i	Unmetered	1350.00	HP/Month	0.00	kWh	18.68	12770	29,389	63.85	0.00		63.85	34.18
ii	Metered	100.00	HP/Month	6.74	kWh	1,669.66	275259	5,27,729	84.92	1125.35		1210.28	7.25
B	IAS II					146.61	6835	57,237	38.16	116.80	0.00	154.96	10.57
i	Metered (Now Demand Based)	500.00	kVA/Month	7.17	kVAh	146.61	6835	57,237	38.16	116.80		154.96	10.57
5	Public Service Connections					550.83	69234	1,85,636	51.15	459.75	0.00	510.90	9.28
A	Public Water Works	630.00	kVA/Month	9.72	kVAh	38.92	2058	31,331	26.32	42.03		68.35	17.56
B	Har Ghar Nal	100.00	HP/Month	8.16	kWh	511.91	67176	1,54,304	24.83	417.72		442.55	8.65
6	Low Tension Industrial Services					479.12	97669	8,98,670	354.28	414.71	0.00	768.99	16.05
A	LTIS I (0-19 kW)	288.00	kVA/Month	7.79	kVAh	435.13	95592	8,02,933	308.33	376.63		684.96	15.74
B	LTIS II (>19 kW - 74 kW)	360.00	kVA/Month	7.79	kVAh	43.99	2077	95,737	45.95	38.08		84.03	19.10
7	LT Electric Vehicle Charging Station	0.00		8.72	kVAh	14.87	260	1,706	0.00	14.41		14.41	9.69
8	HT-General					1060.38	1779	5,64,900	417.46	924.39		1341.84	12.65
A	HTS (General)- I (11 kV)	550.00	kVA/Month	7.98	kVAh	639.22	1688	3,62,380	265.75	566.77		832.52	13.02
B	HTS (General)- II (33 kV)	550.00	kVA/Month	7.92	kVAh	270.28	84	1,12,179	82.26	237.85		320.11	11.84
C	HTS (General)- III (132 kV)	550.00	kVA/Month	7.85	kVAh	114.28	6	68,003	49.87	99.67		149.54	13.09
D	HTS (General)- IV (220 kV)	550.00	kVA/Month	7.79	kVAh	0.00	1	12,750	9.35	0.00		9.35	-
	HTS (General)- V (400 kV)	550.00	kVA/Month	7.72		0.00	0	-	0.00	0.00			
E	HTSS – (33 kV/11 kV)	800.00	kVA/Month	4.94	kVAh	36.60	3	9,588	10.23	20.09		30.32	8.28
9.00	HT-Industrial Services					18.62	11.00	6780.45	5.09	16.38	0.00	21.47	11.53
A	HTIS (Industrial) – I (11 kV)	550.00	kVA/Month	7.98	kVAh	6.80	3	1,981	1.45	6.03		7.49	11.00
B	HTIS (Industrial)– II (33 kV)	550.00	kVA/Month	7.92	kVAh	11.62	4	4,605	3.38	10.22		13.60	11.71
C	HTIS (Industrial) – III (132 kV)	550.00	kVA/Month	7.85	kVAh	0.00	0	-	0.00	0.00		0.00	-

Revenue from Sale of Power FY 2024-25 - NBPDC													
Sr. No	Category of Consumers	Tariff Schedule					Approved Data						
		Fixed/De mand Charge (Rs)	Unit	Energy Charge (Rs)	Unit	Sales (MUs)	No of Consumers	Connected Load (kW/kVA/HP)	Fixed Charges (Rs Crores)	Energy Charges (Rs Crores)	Others (Rs Crores)	Total (Rs Crores)	ABR (Rs/kWh)
D	HTIS (Industries)-IV (220 kV)	550.00	kVA/Month	7.79	kVAh	0.00	0	-	0.00	0.00		0.00	-
	HTIS (Industries)-V (400 kV)	550.00	kVA/Month	7.72		-	0	-	0.00	0.00			
E	HTIS (Oxygen Manufacturers)- 11 KV	1000.00	kVA/Month	5.43	kVAh	0.20	1	194	0.26	0.12		0.38	18.83
F	HTIS (Oxygen Manufacturers)- 33 KV	1000.00	kVA/Month	5.37	kVAh	-	0	-	0.00	0.00		0.00	-
8	Railway Traction Services					125.80	8	61,800	44.50	114.06	0.00	158.56	12.60
A	RTS	540.00	kVA/Month	8.16	kVAh	125.80	8	61,800	44.50	114.06		158.56	12.60
9	Nepal			7.98	kVAh	160.00	1	-	0.00	141.87		141.87	8.87
11	HT Electric Vehicle Charging Stations.			7.85	kVAh	-	0	-	0.00	0.00		0.00	-
10	Total					15,474.64	1,30,27,567	1,39,14,901	2289.49	11824.52		14114.00	9.12

Annexure: 5.2

Revenue from Sale of Power FY 2024-25 - SBPDCL													
Sr. No	Category of Consumers	Tariff Schedule				Approved Data							
		Fixed/Demand Charge (Rs)	Unit	Energy Charge (Rs)	Unit	Sales (MUs)	No of Consumers	Connected Load (kW/kVA/HP)	Fixed Charges (Rs Crores)	Energy Charges (Rs Crores)	Others (Rs Crores)	Total (Rs Crores)	ABR (Rs/kWh)
1	Domestic					8,093.49	6476314	8327046	634.16	6390.75	0.00	7024.91	8.68
A	Kutir Jyoti					942.74	1571239	3,97,620	37.71	699.52	0.00	737.23	7.82
i	Unmetered (Now Metered)	20.00	Connection/Month	7.42		-	0	0	0.00	0.00		0.00	-
ii	Metered 0-50	20.00	Connection/Month	7.42	kWh	942.74	1571239	3,97,620	37.71	699.52		737.23	7.82
B	DS I Rural					3,927.52	3245241	34,32,768	164.77	3024.06	0.00	3188.83	8.12

Revenue from Sale of Power FY 2024-25 - SBPDCL													
Sr. No	Category of Consumers	Tariff Schedule				Approved Data							
		Fixed/Demand Charge (Rs)	Unit	Energy Charge (Rs)	Unit	Sales (MUs)	No of Consumers	Connected Load (kW/kVA/HP)	Fixed Charges (Rs Crores)	Energy Charges (Rs Crores)	Others (Rs Crores)	Total (Rs Crores)	ABR (Rs/kWh)
i	Metered (Now Demand Based)					3,927.52	0	34,32,768	164.77	3024.06	0.00	3188.83	8.12
a	First 50 Units	40.00	kW/Month	7.42	kWh	1,893.40	0	13,45,844	64.60	1404.91		1469.51	7.76
b	Above 50 Units	40.00	kW/Month	7.96	kWh	2,034.11	0	20,86,923	100.17	1619.16		1719.33	8.45
C	DS II Demand Based					3,222.97	1659679	44,96,298	431.64	2666.94	0.00	3098.58	9.61
i	First 100 Units	80.00	kW/Month	7.42	kWh	1,422.37	0	19,84,311	190.49	1055.40		1245.89	8.76
ii	Above 100 Units	80.00	kW/Month	8.95	kWh	1,800.61	0	25,11,987	241.15	1611.54		1852.69	10.29
D	DS III	80.00	kW/Month	9.03		0.26	155	361	0.03	0.23		0.27	10.37
2	Non_Domestic Service					1,784.75	690097	19,26,162	564.57	1520.90	0.00	2085.47	11.68
A	NDS I - Metered Now Demand Based					449.54	260029	4,48,526	32.29	362.48	0.00	394.77	8.78
i	First 100 Units	60.00	kW/Month	7.79	kWh	156.98	0	1,56,626	11.28	122.29		133.56	8.51
ii	Above 100 Units	60.00	kW/Month	8.21	kWh	292.56	0	2,91,900	21.02	240.19		261.21	8.93
B	NDS II - Demand Based					1,335.22	430068	14,77,635	532.27	1158.42	0.00	1690.70	12.66
i	Contract Demand <0.5 kW	200.00	Connection/Month	7.73	kWh	6.17	10720	6,241	2.57	4.77		7.34	11.90
ii	Contract Demand >0.5 kW					1,329.04	419348	14,71,395	529.70	1153.65	0.00	1683.35	12.67
a	First 100 Units	300.00	kW/Month	7.73	kWh	276.55	0	3,06,174	110.22	213.78		324.00	11.72
b	Above 100 Units	300.00	kW/Month	8.93	kWh	1,052.49	0	11,65,221	419.48	939.87		1359.35	12.92
3	Street Light Services					154.15	2681	38,931	138.05	66.99	0.00	205.04	13.30
A	SS Metered	100.00	kW/Month	9.03	kWh	74.18	1255	12,149	1.46	66.99		68.45	9.23
B	SS Unmetered	4250.00	kW/Month	0.00	kWh	80.34	1426	26,782	136.59	0.00		136.59	17.00
4	Irrigation & Allied Services					4,359.29	419432	8,33,153	880.30	2324.57	0.00	3204.88	7.35
A	IAS I					3,991.13	414454	7,90,060	851.58	2031.27	0.00	2882.85	7.22
i	Unmetered	1350.00	HP/Month	0.00	kWh	977.38	171000	3,60,142	782.39	0.00		782.39	8.01

Revenue from Sale of Power FY 2024-25 - SBPDCL													
Sr. No	Category of Consumers	Tariff Schedule				Approved Data							
		Fixed/Demand Charge (Rs)	Unit	Energy Charge (Rs)	Unit	Sales (MUs)	No of Consumers	Connected Load (kW/kVA/HP)	Fixed Charges (Rs Crores)	Energy Charges (Rs Crores)	Others (Rs Crores)	Total (Rs Crores)	ABR (Rs/kWh)
ii	Metered	100.00	HP/Month	6.74	kWh	3013.76	243454	4,29,918	69.18	2031.27		2100.45	6.97
B	IAS II					368.16	4978	43,093	28.73	293.30	0.00	322.03	8.75
i	Metered (Now Demand Based)	500.00	kVA/Month	7.17	kVAh	368.16	4978	43,093	28.73	293.30		322.03	8.75
5	Public Service Connections					514.33	35973	1,30,746	55.64	460.18	0.00	515.82	10.03
A	Public Water Works	630.00	kVA/Month	9.72	kVAh	153.37	3399	50,947	42.80	165.64		208.44	13.59
B	Har Ghar Nal	100.00	HP/Month	8.16	kWh	360.96	32574	79,799	12.84	294.54		307.38	8.52
6	Low Tension Industrial Services					547.93	97447	10,59,930	438.68	474.26	0.00	912.95	16.66
A	LTIS I (0-19 kW)	288.00	kVA/Month	7.79	kVAh	339.05	91103	7,30,031	280.33	293.47		573.80	16.92
B	LTIS II (>19 kW - 74 kW)	360.00	kVA/Month	7.79	kVAh	208.88	6344	3,29,899	158.35	180.80		339.15	16.24
7	LT Electric Vehicle Charging Station	0.00		8.72	kVAh	6.51	508	3,601	0.00	6.31		6.31	9.69
8	HT-General					2711.25	2941	11,44,139	884.08	2128.63		3012.71	11.11
A	HTS (General)- I (11 kV)	550.00	kVA/Month	7.98	kVAh	943.10	2711	6,07,609	445.58	836.21		1281.79	13.59
B	HTS (General)- II (33 kV)	550.00	kVA/Month	7.92	kVAh	699.40	225	3,24,381	237.88	615.47		853.35	12.20
C	HTS (General)- III (132 kV)	550.00	kVA/Month	7.85	kVAh	279.33	5	77,010	56.47	243.64		300.12	10.74
D	HTS (General)- IV (220 kV)	550.00	kVA/Month	7.79	kVAh	0.00	0	-	0.00	0.00		0.00	-
	HTS (General)- V (400 kV)	550.00	kVA/Month	7.72		-	0	-	0.00	0.00			
E	HTSS – (33 kV/11 kV)	800.00	kVA/Month	4.94	kVAh	789.42	13	1,35,139	144.15	433.30		577.45	7.31
9	HT-Industrial Services					6	46	6,866	9.15	3.91	0.00	13.06	20.16
A	HTIS (Industrial) – I (11 kV)	550.00	kVA/Month	7.98	kVAh	-	0	-	0.00	0.00		0.00	-

Revenue from Sale of Power FY 2024-25 - SBPDCL													
Sr. No	Category of Consumers	Tariff Schedule				Approved Data							
		Fixed/Demand Charge (Rs)	Unit	Energy Charge (Rs)	Unit	Sales (MUs)	No of Consumers	Connected Load (kW/kVA/HP)	Fixed Charges (Rs Crores)	Energy Charges (Rs Crores)	Others (Rs Crores)	Total (Rs Crores)	ABR (Rs/kWh)
B	HTIS (Industrial)– II (33 kV)	550.00	kVA/Month	7.92	kVAh	-	0	-	0.00	0.00		0.00	-
C	HTIS (Industrial) – III (132 kV)	550.00	kVA/Month	7.85	kVAh	-	0	-	0.00	0.00		0.00	-
D	HTIS (Industries)-IV (220 kV)	550.00	kVA/Month	7.79	kVAh	-	0	-	0.00	0.00		0.00	-
	HTIS (Industries)-V (400 kV)	550.00	kVA/Month	7.72		-	0	-	0.00	0.00			
E	HTIS (Oxygen Manufacturers)- 11 KV	1000.00	kVA/Month	5.43	kVAh	6.48	33	6,866	9.15	3.91		13.06	20.16
F	HTIS (Oxygen Manufacturers)- 33 KV	1000.00	kVA/Month	5.37	kVAh	-	0	-	0.00	0.00		0.00	-
8	Railway Traction Services					301.15	10	1,03,515	74.53	273.04	0.00	347.57	11.54
A	RTS	540.00	kVA/Month	8.16	kVAh	301.15	10	1,03,515	74.53	273.04		347.57	11.54
10	Total					18,479.34	77,25,449	1,35,74,088	3679.17	13649.55		17328.72	9.38

6. Business Plan for control period for FY 2025-26 to FY 2027-28

6.1 Introduction

The Commission has undertaken the process of approval of Business Plan for the Control Period FY 2025-26 to FY 2027-28 in accordance with the provisions in the Bihar Electricity Regulatory Commission (Multi Year Distribution Tariff) Regulations, 2024.

Regulation 5.1 of the BERC (MYT Distribution Tariff) Regulations, 2024 stipulates that:

“The Distribution Licensee shall file a Business Plan for the Control Period i. e. FY 2025-26 to FY 2027-28, by way of a separate petition along with the tariff petition for the first year of the Control Period i.e. 2025-26 for approval of the commission. The petition for approval of Business Plan shall be filed in accordance with BERC (Conduct of Business) Regulations, 2005 as amended from time to time, accompanied by such fee payable, as specified in the BERC (Fees, Fines and Charges) Regulations, 2019 as amended from time to time.”

The Discoms viz., SBPDCL & NBPDCCL have submitted their Business Plan for the Control Period FY 2025-26 to FY 2027-28 on 15.11.2024 along with the Multi-Year Tariff Petitions for the Control Period FY 2025-26 to FY 2027-28 and tariff proposal for FY 2025-26. The Discoms were directed to submit the additional data/clarifications regarding the Business Plan and MYT Petitions vide BERC letters dated 05.12.2024, 24.12.2024, 15.01.2025.

The Regulation 13.1 of - reads as under:

“An order approving with such modifications or such conditions as may be specified in that order or rejecting Business Plan shall, as far as practicable, be issued before filing of Tariff Petitions separately or with the Tariff Order as the Commission may deem and practicable”.

In line with the provisions in (Multi Year Distribution Tariff) Regulations, 2024, the Commission has undertaken the process of approval of Business Plan and approval of Aggregate Revenue Requirement (ARR) for the MYT Control Period for FY 2025-26 to FY 2027-28 and determination of tariff for FY 2025-26. Commission's Analysis and approval of Business Plan is provided in this Chapter of the Order.

6.2 Business Plan

The Discoms have submitted that the Business Plan is prepared after taking into consideration

all the factors. Business Plan being a dynamic document may need to be updated at periodic intervals taking into account the changes in the internal and external environment and these would be intimated to the Commission from time to time. The DISCOMs submitted that the Business Plan includes the estimates of capital expenditure schemes of the Discom for the Control Period FY 2025-26 to FY 2027-28.

Discoms referred relevant part of Regulations 5 of the BERC (MYT Distribution Tariff) Regulations, 2024, which provide the structure or content of the Business Plan as given below.

“5.2 Such Business Plan shall comprise but not limited to detailed category /subcategory-wise sales and demand projections, power procurement plan, capital Investment plan, financing plan and physical targets.

Provided that in case the Commission issues guidelines and formats, from time to time, the same shall be adhered to by the Distribution Licensee.

5.3 The Distribution Licensee shall make assessment of infrastructure requirement and prepare capital investment plan in accordance with BERC (Procedure for Filing Capital Investment and Capitalization Plan) Regulations, 2018 that will spill into the year(s) under review and new projects that will commence and may be completed within or beyond the tariff period. It is the duty of the Distribution Licensee to ensure optimization of investments to enhance efficiency, productivity and meet performance standards prescribed by the Commission.

5.4 The Commission shall approve the capital investment plan in accordance with BERC (Procedure for Filing Capital Investment and Capitalization Plan) Regulations, 2018, as amended from time to time”

In line with the above provisions, the Commission examined the following parameters for approval of the Business Plan for the Control Period FY 2025-26 to FY 2027-28.

- (i) Number of Consumers, Connected Load and Energy Sales.
- (ii) Aggregate Technical & Commercial Losses
- (iii) Energy Requirement
- (iv) Energy Availability (MUs) from various sources
- (v) Energy Balance
- (vi) Capital Expenditure Plan

6.3 Number of consumers, connected load and Energy Sales for MYT Period FY 2025-26 to FY 2027-28

Petitioner's Submission

The Discoms have submitted that with release of large number of connections to rural and left-over urban households in recent years under various State and Central Govt. schemes, the scope of adding new consumers is going to be minimal. The DISCOM has already provided electricity access to all willing BPL households in urban areas and both APL & BPL households in rural areas under Har Ghar Bijli' and Saubhagya Scheme. The Petitioner has projected the category-wise sales based on the CAGR of the previous years' data, the actual sales figures of FY 2023-24 as well as considering factors like available average consumption per consumer per month, new consumers to be added, population data, expected conversion of unauthorized connections, connected load factor and specific growth factors, and wherever the data was incongruous such incongruity was ignored while projecting the load growth for the ensuing years.

It is submitted that segregation of the agricultural feeders will have a positive effect on the overall system stability as well as on demand side management. With release of large number of connections to rural and left-over urban households in recent years under various State and Central Govt. schemes, the scope of adding new consumers is going to be minimal. Therefore, a lower number of consumers are expected to be added over next FY in comparison to previous years. Taking the same into account, the growth in number of consumers for various categories have been considered at a lower rate as compared to previous years.

It is submitted that the consumer numbers for FY 2024-25 are projected considering the provisional figures as available at the end of September 2024 and thereafter an appropriate growth rate for each category has been considered, taking into account the growth observed in FY 2023-24 over the previous year. Accordingly, the overall growth rate has been assumed to be approximately 5% for FY 2024-25.

The number of consumers projected by Discoms over the next years is provided below:

Table 6.1:: Category-wise no. of consumers projected for FY 2025-26 to FY 2027-28 of NBPDCCL & SBPDCL

Sr. No	Category of Consumers	FY 25-26 (Projected) NBPDCCL	FY 26-27 (Projected) NBPDCCL	FY 27-28 (Projected) NBPDCCL	FY 25-26 (Projected) SBPDCL	FY 26-27 (Projected) SBPDCL	FY 27-28 (Projected) SBPDCL
1	Domestic	11809188	12060770	12318726	6,614,885	6,757,083	6,903,008
A	Kutir Jyoti	4397735	4441712	4486129	1,579,252	1,587,306	1,595,401
B	DS I Rural	5937324	6115443	6298907	3,342,598	3,442,876	3,546,162

Sr. No	Category of Consumers	FY 25-26 (Projected) NBPDC	FY 26-27 (Projected) NBPDC	FY 27-28 (Projected) NBPDC	FY 25-26 (Projected) SBPDCL	FY 26-27 (Projected) SBPDCL	FY 27-28 (Projected) SBPDCL
C	DS II Demand Based	1474032	1503513	1533583	1,692,872	1,726,730	1,761,264
D	DS III	97	102	107	1,692,872	1,726,730	1,761,264
2	Non-Domestic Service	1062207	1132129	1206973	740,833	795,315	853,823
A	NDS I - Metered Now Demand Based	636912	687864	742894	280,832	303,298	327,562
B	NDS II - Demand Based	425296	444265	464080	460,001	492,017	526,261
i	Contract Demand <0.5 kW	2676	2796	2922	11,466	12,264	13,118
ii	Contract Demand >0.5 kW	422620	441469	461158	448,534	479,752	513,143
3	Street Light Services	3147	3235	3329	2,796	2,919	3,050
A	SS Metered	812	877	947	1,355	1,464	1,581
B	SS Unmetered	2335	2358	2382	1,440	1,455	1,469
4	Irrigation & Allied Services	318111	343208	370302	452,738	488,701	527,533
A	IAS I	311071	335956	362833	447,611	483,420	522,093
i	Unmetered	13792	14895	16086	208,329	253,808	309,214
ii	Metered	297279	321062	346746	296,600	361,348	440,231
B	IAS II	7040	7251	7469	5,127	5,281	5,440
i	Metered (Now Demand Based)	7040	7251	7469	5,127	5,281	5,440
5	Public Service Connections	73334	77679	82281	38,025	40,198	42,497
A	Public Water Works	2127	2199	2273	3,497	3,598	3,701
B	Har Ghar Nal	71207	75479	80008	34,528	36,600	38,796
6	Low Tension Industrial Services	105482	113921	123034	105,243	113,663	122,756
A	LTIS I (0-19 kW)	103239	111498	120418	98,392	106,263	114,764
B	LTIS II (>19 kW - 74 kW)	2243	2422	2616	6,851	7,400	7,992
7	LT Electric Vehicle Charging Station	110	116	122	534	560	588
8	HT-General	1871	1964	2062	3,101	3,255	3,417
A	HTS (General)- I (11 kV)	1773	1861	1955	2,847	2,989	3,138
B	HTS (General)- II (33 kV)	88	93	97	236	248	260
C	HTS (General)- III (132 kV)	6	6	6	5	5	5

Sr. No	Category of Consumers	FY 25-26 (Projected) NBPDCCL	FY 26-27 (Projected) NBPDCCL	FY 27-28 (Projected) NBPDCCL	FY 25-26 (Projected) SBPDCL	FY 26-27 (Projected) SBPDCL	FY 27-28 (Projected) SBPDCL
D	HTS (General)-IV (220 kV)	1	1	1	-	-	-
	HTS (General)-V (400 kV)	0	0	0	-	-	-
9	HT-Industrial Services	8	8	8	33	33	33
A	HTIS (Industrial) – I (11 kV)	3	3	3	-	-	-
B	HTIS (Industrial)– II (33 kV)	4	4	4	-	-	-
C	HTIS (Industrial) – III (132 kV)	0	0	0	-	-	-
D	HTIS (Industries)-IV (220 kV)	0	0	0	-	-	-
	HTIS (Industries)-V (400 kV)	0	0	0	-	-	-
E	HTIS (Oxygen Manufacturers)-11 KV	1	1	1	33	33	33
	HTSS – (33 kV/11 kV)	3	3	3	13	13	13
10	Railway Traction Services	8	8	8	10	10	10
	Total	13373467	13733038	14106846	7,958,197	8,201,736	8,456,715

It is submitted that successful implementation of the ‘Har Ghar Bijli’ and ‘Saubhagya’ scheme ensured that all the willing households are connected. Due to the rise in consumerism among consumers in the country, there will be a corresponding rise in the consumption of electricity in the coming years. It is anticipated that gradually, customers currently falling under the Kutir Jyoti category will move on to higher consumption categories. For projecting the connected load, an average connected load per consumer has been taken as per the actual data of the past few years. This has then been then multiplied by the projected number of consumers to arrive at the connected Load.

Table 6.2: Category-wise connected load projected for FY 2025-26 to FY 2027-28 of NBPDCCL & SBPDCL

Sr. No	Category of Consumers	FY 25-26 (NBPDCCL)	FY 26-27 (NBPDCCL)	FY 27-28 (NBPDCCL)	FY 25-26 (SBPDCL)	FY 26-27 (SBPDCL)	FY 27-28 (SBPDCL)
1	Domestic	9,897,640	10,259,086	10,633,969	8,611,218	8,905,319	9,209,705

Sr. No	Category of Consumers	FY 25-26 (NBPDCCL)	FY 26-27 (NBPDCCL)	FY 27-28 (NBPDCCL)	FY 25-26 (SBPDCL)	FY 26-27 (SBPDCL)	FY 27-28 (SBPDCL)
A	Kutir Jyoti	1,131,793	1,165,973	1,201,185	407,641	417,914	428,446
i	Unmetered (Now Metered)						
ii	Metered 0-50	1,131,793	1,165,973	1,201,185	407,641	417,914	428,446
B	DS I Rural	6,190,111	6,439,573	6,699,088	3,571,108	3,715,024	3,864,739
i	Unmetered (Now Metered)	-	-	-			
ii	Metered (Now Demand Based)	6,190,111	6,439,573	6,699,088	3,571,108	3,715,024	3,864,739
a	First 50 Units	4,577,870	4,762,358	4,954,281	1400082	1,456,505	1,515,202
b	51-100 Units	1,276,356	1,327,794	1,381,304	2,171,026	2,258,519	2,349,537
c	101-200 Units	335,885	349,421	363,503			
d	Above 200 Units	-	-	-			
C	DS II Demand Based	2,575,150	2,652,919	2,733,037	4,632,087	4,771,976	4,916,089
i	First 100 Units	2,128,150	2,192,420	2,258,631	2,044,237	2,105,973	2,169,574
ii	101-200 Units	322,586	332,328	342,364	2,587,849	2,666,002	2,746,516
iii	201-300 Units	124,414	128,172	132,042			
iv	Above 300 Units	-	-	-			
D	DS III (Optional-Demand Based)	586	621	659	382.38	405.52	430.05
2	Non-Domestic Service	2,163,579	2,340,775	2,533,182	2106185	2303072	2518407
A	NDS I - Metered Now Demand Based	983,122	1,083,007	1,193,041	494096	544297	599597
i	First 100 Units						
ii	101-200 Units						
iii	Above 200 Units						
B	NDS II - Demand Based	1,180,457	1,257,768	1,340,142	1612089	1758776	1918810
i	Contract Demand <0.5 kW	1,453	1,548	1,650	6809	7428	8104
ii	Contract Demand >0.5 kW	1,179,004	1,256,220	1,338,492	1605280	1751347	1910706
a	First 100 Units						
b	101-200 Units						
c	Above 200 Units						
3	Street Light Services	32,868	34,243	35,699	40,975	43,168	45,524
A	SS Metered	5,366	5,911	6,512	13,384	14,743	16,241
B	SS Unmetered	27,501	28,332	29,187	27,591	28,424	29,283

Sr. No	Category of Consumers	FY 25-26 (NBPDCCL)	FY 26-27 (NBPDCCL)	FY 27-28 (NBPDCCL)	FY 25-26 (SBPDCL)	FY 26-27 (SBPDCL)	FY 27-28 (SBPDCL)
4	Irrigation & Allied Services	672,902	737,184	807,771	1,013,892	1,235,358	1,506,853
A	IAS I	612,769	674,008	741,399	968,618	1,187,793	1,456,882
i	Unmetered	31,423	33,598	35,923	434,373	523,905	631,891
ii	Metered	581,346	640,411	705,476	534,245	663,888	824,991
B	IAS II	60,133	63,176	66,373	45,274	47,565	49,972
i	Metered (Now Demand Based)	60,133	63,176	66,373	45,274	47,565	49,972
5	Public Service Connections	199,869	215,212	231,753	139741	149387	159732
A	Public Water Works	33,035	34,831	36,725	53463	56103	58873
B	Har Ghar Nal	166,834	180,381	195,028	86279	93285	100859
6	Low Tension Industrial Services	980,269	1,069,278	1,166,368	1156172	1261152	1375665
A	LTIS I (0-19 kW)	875,839	955,365	1,042,112	796318	868624	947495
B	LTIS II (>19 kW - 74 kW)	104,430	113,913	124,256	359854	392528	428170
7	LT Electric Vehicle Charging Station	760	838	923	3970	4377	4825
8	HT-General	600,400	638,329	678,857	1214553	1289750	1370066
A	HTS (General)- I (11 kV)	388,109	415,665	445,177	650750	696953	746437
B	HTS (General)- II (33 kV)	120,143	128,674	137,809	347412	372078	398495
C	HTS (General)- III (132 kV)	69,363	70,751	72,166	78550	80121	81724
D	HTS (General)- IV (220 kV)	13005	13265.1	13530.402			
	HTS (General)- V (400 kV)	-	-	-			
E	HTSS – (33 kV/11 kV)	9,780	9,975	10,175	137842	140598	143410
9	HT-Industrial Services	6,916	7,054	7,195	7003	7143	7286
A	HTIS (Industrial) – I (11 kV)	2,021	2,061	2,103			
B	HTIS (Industrial)– II (33 kV)	4,697	4,791	4,887			
C	HTIS (Industrial) – III (132 kV)	-	-	-			
D	HTIS (Industries)-IV (220 kV)	-	-	-			
	HTIS (Industries)- V (400 kV)						
E	HTIS (Oxygen Manufacturers)- 11 KV	198	202	206	7003	7143	7286

Sr. No	Category of Consumers	FY 25-26 (NBPDC)	FY 26-27 (NBPDC)	FY 27-28 (NBPDC)	FY 25-26 (SBPDCL)	FY 26-27 (SBPDCL)	FY 27-28 (SBPDCL)
	HTIS (Oxygen Manufacturers)- 33 KV						
	HTSS – (33 kV/11 kV)						
10	Railway Traction Services	63,654	65,564	67,531	106620	109819	113114
	Total	14,618,856	15,367,563	16,163,250	14400329	15308545	16311177

The energy sales have been projected by considering the average consumption per consumer per month and then multiplying the same with the projected number of consumers. It is submitted that the Petitioner has projected the category-wise sales based on the CAGR of the previous years' data, the actual sales figures of FY 2023-24 as well as considering factors like available average consumption per consumer per month, new consumers to be added, population data, expected conversion of unauthorized connections, connected load factor and specific growth factors, and wherever the data was incongruous such incongruity was ignored while projecting the load growth for the ensuing years. The category wise projections of energy sales for FY 2025-26 to FY 2027-28, have been done taking into account the above factors. The details of energy sales are provided below.

Table 6.3 : Category-wise sales projected for FY 2025-26 to FY 2027-28

Category of Consumers	FY 25-26 (Projected) (NBPDC)	FY 26-27 (Projected) (NBPDC)	FY 27-28 (Projected) (NBPDC)	FY 25-26 (Projected) (SBPDCL)	FY 26-27 (Projected) (SBPDCL)	FY 27-28 (Projected) (SBPDCL)
Domestic	9,468.00	9,793.09	10,130.14	8381.56	8680.76	8991.45
Kutir Jyoti	2,806.26	2,862.67	2,920.21	1547	1571	1595
Metered 0-50				1547	1571	1595
DS I Rural	4,682.62	4,871.33	5,067.64	3481	3621	3767
Metered (Now Demand Based)	4,682.62	4,871.33	5,067.64	3481	3621	3767
DS II Demand Based	1,978.71	2,058.65	2,141.82	3353	3489	3630
DS III	0.41	0.44	0.47	0.28	0.30	0.32
Non-Domestic Service	2,130.74	2,302.69	2,489.18	1952	2135	2335
NDS I - Metered Now Demand Based	897.16	988.31	1,088.72	495.21	546	601
NDS II - Demand Based	1,233.59	1,314.38	1,400.46	1457	1589	1734
Contract Demand <0.5 kW	1.81	1.93	2.06	6.73	7.35	8.01

Category of Consumers	FY 25-26 (Projected) (NBPDC)	FY 26-27 (Projected) (NBPDC)	FY 27-28 (Projected) (NBPDC)	FY 25-26 (Projected) (SBPDCL)	FY 26-27 (Projected) (SBPDCL)	FY 27-28 (Projected) (SBPDCL)
Contract Demand >0.5 kW	1,231.77	1,312.45	1,398.41	1449.98	1582	1726
Street Light Services	213.20	215.70	218.39	281	290	300
SS Metered	19.91	21.93	24.16	82	90	99
SS Unmetered	193.30	193.77	194.24	200	200	201
Irrigation & Allied Services	2,013.30	2,209.35	2,424.87	5311	6482	7325
IAS I	1,859.27	2,047.53	2,254.86	4924	6076	7498
Unmetered	19.97	21.35	22.83	1179	1422	1715
Metered	1,839.30	2,026.17	2,232.03	3745	4654	5783
IAS II	154.03	161.82	170.01	387	406	427
Metered (Now Demand Based)	154.03	161.82	170.01	387	406	427
Public Service Connections	594.51	641.69	692.63	551.21	590.85	633.45
Public Water Works	41.03	43.27	45.62	161	169	177
Har Ghar Nal	553.48	598.42	647.01	390	422	456
Low Tension Industrial Services	527.80	581.43	640.50	603.60	664.92	732.48
LTIS I (0-19 kW)	479.34	528.05	581.70	373	411	453
LTIS II (>19 kW - 74 kW)	48.46	53.38	58.81	230	253	279
LT Electric Vehicle Charging Station	6.50	7.03	7.60	7.05	7.62	8.24
HT-General	1,127.97	1,200.21	1,277.41	2849	2996	3152
HTS (General)- I (11 kV)	684.60	733.21	785.27	1010	1082	1159
HTS (General)- II (33 kV)	289.47	310.03	332.04	749	802	859
HTS (General)- III (132 kV)	116.56	118.89	121.27	285	291	296
HTS (General)- IV (220 kV)	-	-	-			
HTS (General)- V (400 kV)	-	-	-			
HT-Industrial Services	19.00	19.38	19.76	6.61	6.74	6.88
HTIS (Industrial) – I (11 kV)	6.94	7.08	7.22			
HTIS (Industrial)– II (33 kV)	11.85	12.09	12.33			
HTIS (Industrial) – III (132 kV)	-	-	-			
HTIS (Industries)-IV (220 kV)	-	-	-			
HTIS (Industries)-V (400 kV)	-	-	-			

Category of Consumers	FY 25-26 (Projected) (NBPDC)	FY 26-27 (Projected) (NBPDC)	FY 27-28 (Projected) (NBPDC)	FY 25-26 (Projected) (SBPDCL)	FY 26-27 (Projected) (SBPDCL)	FY 27-28 (Projected) (SBPDCL)
HTIS (Oxygen Manufacturers)- 11 KV	0.21	0.21	0.21	6.61	6.74	6.88
HTIS (Oxygen Manufacturers)- 33 KV	-	-	-			
HTSS – (33 kV/11 kV)	37.33	38.08	38.84	805	821	838
Railway Traction Services	129.58	133.46	137.47	310.19	319.49	329.08
Total	16,240.19	17,114.37	18,049.18	20253.51	22173.40	24413.22

Approach followed for projection of Consumer number, connected load and Sales for specific category of Consumers

Following approach have been taken by Discoms while projecting the specific category wise number of consumers, connected load and energy sales for the business plan period

The growth rate in KJY consumers was 2.2% in FY 2023-24 as compared to the previous year. The consumer growth in this category has been high in the recent past under various schemes. Thereafter, the overall growth rate has been assumed to be ~1% for FY 2024-25 and FY 2025-26.

The growth rate in DS-I consumers was around 8% in FY 2023-24 as compared to previous year. The consumer numbers for FY 2024-25 are projected considering the provisional figures as available for September 2024 and thereafter an appropriate growth rate across the categories have been considered. Thereafter, the overall growth rate has been assumed to be around 6% for FY 2025-26.

The growth rate in DS-II consumers was ~6.53% in FY 2023-24 as compared to the previous year. The consumer numbers for FY 2024-25 are projected considering the provisional figures as available for September 2024 and thereafter applying an appropriate growth rate across the categories. Accordingly, the overall growth rate has been assumed to be ~2% (NBPDC) and ~5% (SBPDCL) for FY 2025-26. The petitioner accordingly projected the consumer numbers, connected load and sales for KJY category, DS-I, DS-II, DS-III category of consumer as given below :

Number of Consumers (NBPDC)	FY 2025-26
KJY category	4,397,735
DS-I Category	6,288,224

DS-II Category	1,474,032
DS-III Category	99
Total	12,160,090
Energy Sales	FY 2025-26 (in MUs)
KJY category	2,806.26
DS-I Category	4,959.36
DS-II Category	1,978.71
DS-III Category	0.42
Total	9,744.76
Connected Load	FY 2025-26 (kW)
KJY category	1,131,793
DS-I Category	6,555,952
DS-II Category	2,575,150
DS-III Category	597

Number of Consumers (SBPDCL)	FY 2025-26
KJY category	1,579,252
DS-I Category	3342598
DS-II Category	1692872
DS-III Category	163
Total	6614885
Energy Sales	FY 2025-26 (in MUs)
KJY category	1,547
DS-I Category	3481
DS-II Category	3353
DS-III Category	0.28
Total	8381.56
Connected Load	FY 2025-26 (kW)
KJY category	407,641
DS-I Category	3571108
DS-II Category	4632087
DS-III Category	382.38
Total	8611218

The Petitioners submitted that they have estimated growth rate of 8% in NDS-I category while projecting number of consumers for FY 2025-26. The sales projections for NDS-I category is done in a way to rationalize the sales pattern for the category considering that the average consumption per consumer in previous years.

FY 2025-26	Consumers (NBPDCCL)	Energy Sale (MU) (NBPDCCL)	Connected Load (KW) (NBPDCCL)
NDS-I	636,912	897.16	983,122

FY 2025-26	Consumers (SBPDCL)	Energy Sale (MU) (SBPDCL)	Connected Load (kW) (SBPDCL)
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NDS-I	280,832	495.21	494,096
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For NDS-II category (contract demand > 0.5 kW), the number of consumers has grown in FY 2023-24 by 3.24% & 6.29% (SBPDCL) as compared to previous year. Further, the 2 year and 3 year CAGR growth rate have been 5.01% and 5.14% OF NBPDC 6.79% and 7.80% of SBPDCL respectively. The average of these comes to around 6.96% which is considered as growth rate for FY 2024-25 and FY 2025-26.

FY 2025-26 (NBPDC)	Consumers (NBPDC)	Energy Sale (MU) (NBPDC)	Connected Load (KW) (NBPDC)
NDS-II	422,620	1,231.77	1,179,004

FY 2025-26 (SBPDCL)	Consumers (SBPDCL)	Energy Sale (MU) (SBPDCL)	Connected Load (kW) (SBPDCL)
NDS-II	460001	1457	1612089

It is submitted that as per the third agricultural roadmap, Bihar has started work to set up dedicated feeders to provide electricity for agriculture. In line with this plan, a growth rate of 8% has been considered for estimating the number of consumers for FY 2025-26 in IAS-I category.

FY 2025-26 (NBPDC)	Consumers (NBPDC)	Energy Sale (MU) (NBPDC)	Connected Load (KW) (NBPDC)
IAS-I	311,071	1,859.27	612,769

FY 2025-26	Consumers	Energy Sale (MU)	Connected Load (kW)
IAS-I	447,611	4924	968,618

The Petitioners submitted that the growth in number of consumers for FY 2025-26 is considered to be 3% for IAS-II category. Whereas for estimated sales a nominal growth rate of 2% is considered for FY 2025-26 for under IAS-II category.

FY 2025-26 (NBPDC)	Consumers (NBPDC)	Energy Sale (MU) (NBPDC)	Connected Load (KW) (NBPDC)
IAS-II	7,040	154.03	60,133

FY 2025-26 (SBPDCL)	Consumers (SBPDCL)	Energy Sale (MU) (SBPDCL)	Connected Load (kW) (SBPDCL)
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IAS-II	5127	387	45,274
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The petitioners also submitted that the consumer growth for LTIS-I category in FY 2025-26 is assumed to be a nominal as 8% due to a fluctuant growth rate shown over the years in the LTIS-I category. The average consumption per consumer has decreased over the years and has dipped by around 14% in FY 2023-24. Hence the growth in average consumption per consumer is considered to be 8% in 2024-25 and FY 2025-26.

FY 2025-26 (NBPDCCL)	Consumers (NBPDCCL)	Energy Sale (MU) (NBPDCCL)	Connected Load (KW) (NBPDCCL)
LTIS-I	103,239	479.34	875,839

FY 2025-26 (SBPDCL)	Consumers (SBPDCL)	Energy Sale (MU) (SBPDCL)	Connected Load (Kw) (SBPDCL)
LTIS-I	98,392	373	796,318

The petitioner submitted that the consumer growth for LTIS-II in FY 2025-26 is assumed to be 8% even though there has been a sharp increase in FY 2023-24 i.e., around 61% (NBPDCCL). It is further assumed that the increase in consumption will directly be reflected through addition of consumers and an increase of 8% is considered to project the sales of FY 2025-26

The Petitioners have estimated a growth rate of around 2.88% (SBPDCL) & 3% (NBPDCCL) in number of consumers in FY 2025-26 in PWW category based on the CAGR average growth rate for 2 years, 3 years and year on year. In Har Ghar Nal Yojana the Petitioners submits a growth rate of 6% in 2025-26.

Commission's Analysis

The Commission has reviewed the projections made by the DISCOMS. The approach and methodology adopted by the petitioners for projecting the category wise number of consumers, connected load and energy sales for the MYT period FY 2025-26 to FY 2027-28 has been examined by the Commission.

Proper estimation of category-wise energy sales for the MYT Period FY 2025-26 to 2027-28 is essential to arrive at the quantum of power to be purchased and the likely revenue receipts to the petitioners by sale of energy. The Commission has reviewed the Compounded Annual Growth Rate (CAGR) based on past years' data for demand forecasting and decides to follow

the same . The CAGR based approach for projecting the demand has to be adjusted based on past data and judgement for some specific categories of consumers .

The Commission observes that the petitioner has projected the number of consumers for FY 2025-26 to FY 2027-28 by a certain CAGR growth rate (different CAGR growth rate for different categories of consumers) based on the trend in CAGR growth rate in the past 7 years, 6 years, 5 years, 4 years, 3 years, 2 years, 1 year and envisaged growth for the upcoming years accordingly. The category wise CAGR considered by NBPDCCL is depicted in the table below:

NBPDCCL- Number of Consumers												
Sr. No	Category of Consumers	CAGR (%)										
		7 Year	6 Year	5 Year	4 Year	3 Year	2 Year	YoY	Considered for FY 24-25	Considered for FY 25-26	Considered for FY 26-27	Considered for FY 27-28
1	Domestic	10%	10%	5%	5%	4.29 %	4.27 %	5.00 %				
A	Kutir Jyoti	8%	7%	3%	1.79 %	1.17 %	0.86 %	2.22 %	1.00%	1.00%	1.00%	1.00%
B	DS I Rural	16%	17%	9%	7.07 %	6.74 %	7.52 %	8.09 %	3.00%	3.00%	3.00%	3.00%
C	DS II Demand Based	3%	2%	3%	4%	5.13 %	2.97 %	1.91 %	2.00%	2.00%	2.00%	2.00%
D	DS III				21%	9.51 %	11.33 %	6.02 %	5.00%	5.00%	5.00%	5.00%
A	NDS I - Metered Now Demand Based	32%	34%	34%	29%	25.76 %	22.88 %	19.37 %	8.00%	8.00%	8.00%	8.00%
B	NDS II - Demand Based	9%	10%	7%	8%	5.13 %	5.02 %	3.24 %				
i	Contract Demand <0.5 kW	9%	10%	18%	5.99 %	4.09 %	5.69 %	3.68 %	4.49%	4.49%	4.49%	4.49%
ii	Contract Demand >0.5 kW	9%	10%	7%	7.53 %	5.14 %	5.01 %	3.24 %	4.46%	4.46%	4.46%	4.46%
3	Street Light Services	42%	29%	19%	30%	33%	26%	33%				
A	SS Metered	25%	15%	18%	23.31 %	27.10 %	28.73 %	33.33 %	8.00%	8.00%	8.00%	8.00%
B	SS Unmetered	54%	37%	19%	32.48 %	35.70 %	25.04 %	33.31 %	1.00%	1.00%	1.00%	1.00%
4	Irrigation & Allied Services	53%	61%	54%	36%	36%	44%	44%				
A	IAS I	62%	72%	58%	37%	38%	45%	45%				
i	Unmetered	66%	77%	20%	26%	36%	59%	157%	8.00%	8.00%	8.00%	8.00%
ii	Metered	62%	71%	62%	38.12 %	37.84 %	44.80 %	42.07 %	8.00%	8.00%	8.00%	8.00%
B	IAS II	4%		8%	6.74 %	2.14 %	2.38 %	4.52 %				
i	Metered (Now Demand Based)	4%	4%	8%	6.74 %	2.14 %	2.38 %	4.52 %	3.00%	3.00%	3.00%	3.00%
5	Public Service Connections		125 %	121 %	55%	22%	13%	16%				
A	Public Water Works	38%	13%	10%	6%	6.06 %	5.20 %	- 1.14 %	3.37%	3.37%	3.37%	3.37%
B	Har Ghar Nal				59%	22.29	13.44	16.81	6.00%	6.00%	6.00%	6.00%

NBPDC - Number of Consumers												
Sr. No	Category of Consumers	CAGR (%)										
		7 Year	6 Year	5 Year	4 Year	3 Year	2 Year	YoY	Considered for FY 24-25	Considered for FY 25-26	Considered for FY 26-27	Considered for FY 27-28
						%	%	%				
6	Low Tension Industrial Services	33%	25%	23%	22%	19%	17%	14%				
A	LTIS I (0-19 kW)	34%	25%	23%	22%	18.77 %	17.07 %	13.76 %	8.00%	8.00%	8.00%	8.00%
B	LTIS II (>19 kW - 74 kW)	17%	20%	21%	20.84 %	21.66 %	34.37 %	60.52 %	8.00%	8.00%	8.00%	8.00%
7	LT Electric Vehicle Charging Station							-4%	5%	5%	5%	5%
8	HT-General	14%	14%	11%	11%	14%	13%	17%				
A	HTS (General)- I (11 kV)	14%	14%	11%	11%	13%	12%	17%	5%	5%	5%	5%
B	HTS (General)- II (33 kV)	18%	16%	15%	15%	20%	18%	29%	5%	5%	5%	5%
C	HTS (General)- III (132 kV)	17%	12%	8%	19%	26%	41%	50%	0%	0%	0%	0%
D	HTS (General)- IV (220 kV)								0%	0%	0%	0%
	HTS (General)- V (400 kV)								0%	0%	0%	0%
E	HTSS – (33 kV/11 kV)	-7%	-8%	-10%	-7%	-9%	0%	0%	0%	0%	0%	0%
9	HT-Industrial Services											
A	HTIS (Industrial) – I (11 kV)								5%	5%	5%	5%
B	HTIS (Industrial)– II (33 kV)								5%	5%	5%	5%
C	HTIS (Industrial) – III (132 kV)								0%	0%	0%	0%
D	HTIS (Industries)- IV (220 kV)								0%	0%	0%	0%
	HTIS (Industries)- V (400 kV)								0%	0%	0%	0%
E	HTIS (Oxygen Manufacturers)- 11 KV								0%	0%	0%	0%
	HTIS (Oxygen Manufacturers)- 33 KV								0%	0%	0%	0%
10	Railway Traction Services	2%	0%	0%	19%	10%	26%	0%	0%	0%	0%	0%

SBPDCL - Number of Consumers												
Sr. No	Category of Consumers	CAGR (%)										
		7 Year	6 Year	5 Year	4 Year	3 Year	2 Year	YoY	Considered for FY 24-25	Considered for FY 25-26	Considered for FY 26-27	Considered for FY 27-28
1	Domestic	10%	9%	6%	6%	6%	6%	6%				

SBPDCL- Number of Consumers												
Sr. No	Category of Consumers	CAGR (%)										
		7 Year	6 Year	5 Year	4 Year	3 Year	2 Year	YoY	Consid ered for FY 24-25	Consid ered for FY 25-26	Consid ered for FY 26-27	Consid ered for FY 27-28
A	Kutir Jyoti	9%	7%	2%	1.31 %	0.62 %	0.50 %	0.43 %	0.51%	0.51%	0.51%	0.51%
B	DS I Rural	14%	13%	9%	8%	8.43 %	9.27 %	8.46 %	3.00%	3.00%	3.00%	3.00%
C	DS II Demand Based	6%	5%	5%	5%	6.79 %	6.05 %	6.53 %	2.00%	2.00%	2.00%	2.00%
D	DS III				9%	-7%			5.00%	5.00%	5.00%	5.00%
2	Non_Domestic Service	14%	13%	12%	12%	12%	10%	9%				
A	NDS I - Metered Now Demand Based	29%	30%	31%	26%	19.4 9%	17.1 2%	13.5 2%	8.00%	8.00%	8.00%	8.00%
B	NDS II - Demand Based	9%	8%	6%	7%	7.80 %	6.79 %	6.29 %				
i	Contract Demand <0.5 kW	9%	8%	6%	7%	7.80 %	6.79 %	6.29 %	6.96%	6.96%	6.96%	6.96%
ii	Contract Demand >0.5 kW	9%	8%	6%	7%	7.80 %	6.79 %	6.29 %	6.96%	6.96%	6.96%	6.96%
3	Street Light Services	20%	19%	16%	17%	20%	10%	14%				
A	SS Metered	17%	16%	11%	11%	14.4 1%	10.7 7%	16.2 0%	8.00%	8.00%	8.00%	8.00%
B	SS Unmetered	24%	21%	22%	23%	25.9 3%	9.76 %	11.6 2%	1.00%	1.00%	1.00%	1.00%
4	Irrigation & Allied Services	15%	16%	15%	13%	16%	21%	27%				
A	IAS I	15%	16%	15%	13.5 1%	15.8 8%	21.8 0%	27.8 0%	8.00%	8.00%	8.00%	8.00%
i	Unmetered	11%	11%	9%	7%	7%	7%	28%	8.00%	21.83%	21.83%	21.83%
ii	Metered	19%	20%	20%	20%	25%	36%	28%	8.00%	21.83%	21.83%	21.83%
B	IAS II	4%	4%	6%	7%	2.55 %	2.69 %	2.31 %				
i	Metered (Now Demand Based)	4%	4%	6%	7%	2.55 %	2.69 %	2.31 %	3.00%	3.00%	3.00%	3.00%
5	Public Service Connections	58%	63%	69%	55%	22%	8%	7%				
A	Public Water Works	13%	11%	6%	6%	4.25 %	2.64 %	1.76 %	2.88%	2.88%	2.88%	2.88%
B	Har Ghar Nal				76%	24.1 8%	8.53 %	7.40 %	6.00%	6.00%	6.00%	6.00%
6	Low Tension Industrial Services	18%	10%	9%	9%	8%	8%	7%				
A	LTIS I (0-19 kW)	18%	10%	9%	9%	8.08 %	7.86 %	6.58 %	8.00%	8.00%	8.00%	8.00%
B	LTIS II (>19 kW - 74 kW)	12%	8%	7%	7%	6.27 %	5.84 %	5.86 %	8.00%	8.00%	8.00%	8.00%
7	LT Electric Vehicle Charging Station							432 %	5%	5%	5%	5%
8	HT-General	11%	10%	9%	10%	11%	10%	13%				
A	HTS (General)- I (11 kV)	11%	10%	9%	10%	10%	10%	12%	5%	5%	5%	5%
B	HTS (General)- II (33 kV)	12%	13%	14%	16%	18%	21%	22%	5%	5%	5%	5%
C	HTS (General)- III (132 kV)	8%	0%	5%	6%	8%	0%	0%	0%	0%	0%	0%
D	HTS (General)- IV (220 kV)								0%	0%	0%	0%
	HTS (General)- V (400 kV)								0%	0%	0%	0%

SBPDCL- Number of Consumers												
Sr. No	Category of Consumers	CAGR (%)										
		7 Year	6 Year	5 Year	4 Year	3 Year	2 Year	YoY	Consid ered for FY 24-25	Consid ered for FY 25-26	Consid ered for FY 26-27	Consid ered for FY 27-28
E	HTSS – (33 kV/11 kV)	0%	0%	0%	-2%	-2%	0%	0%	0%	0%	0%	0%
9	HT-Industrial Services							3%				
A	HTIS (Industrial) – I (11 kV)								5%	5%	5%	5%
B	HTIS (Industrial)– II (33 kV)								5%	5%	5%	5%
C	HTIS (Industrial) – III (132 kV)								0%	0%	0%	0%
D	HTIS (Industries)-IV (220 kV)								0%	0%	0%	0%
	HTIS (Industries)-V (400 kV)								0%	0%	0%	0%
E	HTIS (Oxygen Manufacturers)-11 KV							3%	0%	0%	0%	0%
	HTIS (Oxygen Manufacturers)-33 KV								0%	0%	0%	0%
10	Railway Traction Services	-6%	-7%	27%	78%	19%	83%	67%	0%	0%	0%	0%

The Commission in the APR Chapter has estimated the number of consumers for the current year i.e., FY 2024-25 based on the actuals of FY 2023-24 and provisional figures submitted by Discoms as on September, 2024 (1st half of 2024-25) and explanations provided by the Discoms. Considering the estimated number of consumers of FY 2024-25 (RE) as base figures, and adopting appropriate growth rates, the category-wise number of consumers approved for the MYT Period FY 2025-26- 2027-28 are as shown, along with past CAGR trend, in the Tables below:

Table 6.4: Category-wise Number of consumers for the past 5 years and growth rates for NBPDC

Sr. No	Category of Consumers	FY 20	FY 21	FY 22	FY 23	FY 24	CAGR (%)			
							4 Year	3 Year	2 Year	YoY
1	Domestic	94,65,335	99,84,126	1,04,15,432	1,07,85,533	1,13,24,461	5%	4.29%	4.27%	5.00%
A	Kutir Jyoti	40,15,781	41,62,883	42,37,872	42,17,514	43,11,082	1.79%	1.17%	0.86%	2.22%
B	DS I Rural	42,58,986	46,01,721	48,41,296	51,77,639	55,96,497	7.07%	6.74%	7.52%	8.09%
C	DS II Demand Based	11,90,527	12,19,455	13,36,193	13,90,297	14,16,794	4%	5.13%	2.97%	1.91%
D	DS III	41	67	71	83	88	21%	9.51%	11.33%	6.02%
2	Non_Domestic Service	4,87,545	6,09,912	7,15,048	8,34,977	9,35,802	18%	15%	14%	12%
A	NDS I - Metered Now Demand Based	1,95,954	2,74,524	3,61,635	4,57,453	5,46,049	29%	25.76%	22.88%	19.37%
B	NDS II - Demand Based	2,91,591	3,35,388	3,53,413	3,77,524	3,89,753	8%	5.13%	5.02%	3.24%
3	Street Light Services	1,044	1,255	1,884	2,239	2,985	30%	33%	26%	33%
A	SS Metered	301	339	420	522	696	23.31%	27.10%	28.73%	33.33%
B	SS Unmetered	743	916	1,464	1,717	2,289	32.48%	35.70%	25.04%	33.31%
4	Irrigation & Allied Services	79,818	1,08,224	1,32,548	1,90,341	2,73,329	36%	36%	44%	44%
A	IAS I	74,706	1,01,996	1,26,217	1,83,992	2,66,693	37%	38%	45%	45%
B	IAS II	5,112	6,228	6,331	6,349	6,636	6.74%	2.14%	2.38%	4.52%
5	Public Service Connections	11,453	36,322	51,049	56,269	65,365	55%	22%	13%	16%
A	Public Water Works	1,586	1,669	1,799	2,014	1,991	6%	6.06%	5.20%	-1.14%
B	Har Ghar Nal	9,867	34,653	49,250	54,255	63,374	59%	22.29%	13.44%	16.81%
6	Low Tension Industrial Services	41,216	53,891	65,642	79,005	90,434	22%	19%	17%	14%
A	LTIS I (0-19 kW)	40,314	52,823	64,577	77,807	88,511	22%	18.77%	17.07%	13.76%
B	LTIS II (>19 kW - 74 kW)	902	1,068	1,065	1,198	1,923	20.84%	21.66%	34.37%	60.52%
7	LT Electric Vehicle Charging Station				104	100	0	0	0	-4%
8	HT-General	1,111	1,156	1,339	1,447	1,698	11%	14%	13%	17%
A	HTS (General)- I (11 kV)	1,058	1,103	1,276	1,378	1,608	11%	13%	12%	17%
B	HTS (General)- II (33 kV)	46	46	57	62	80	15%	20%	18%	29%
C	HTS (General)- III (132 kV)	3	3	3	4	6	19%	26%	41%	50%
E	HTSS – (33 kV/11 kV)	4	4	3	3	3	-7%	-9%	0%	0%
10	Railway Traction Services	4	6	5	8	8	19%	10%	26%	0%

Table 6.5: Category-wise Number of consumers for the past 5 years and growth rates for SBPDCL

Sr. No	Category of Consumers	FY 20	FY 21	FY 22	FY 23	FY 24	CAGR (%)			
							4 Year	3 Year	2 Year	YoY
1	Domestic	50,75,789	53,42,375	56,33,681	59,88,814	63,41,269	6%	6%	6%	6%
A	Kutir Jyoti	14,83,858	15,34,746	15,47,844	15,56,541	15,63,266	1.31%	0.62%	0.50%	0.43%
B	DS I Rural	22,74,063	24,71,230	26,38,966	29,04,828	31,50,719	8%	8.43%	9.27%	8.46%
C	DS II Demand Based	13,17,764	13,36,217	14,46,871	15,27,445	16,27,136	5%	6.79%	6.05%	6.53%
D	DS III	104	182	-	-	148	9%	-7%	#NUM!	#DIV/0!
2	Non_Domestic Service	4,06,025	4,62,059	5,28,126	5,90,371	6,42,851	12%	12%	10%	9%
A	NDS I - Metered Now Demand Based	94,531	1,41,120	1,75,532	2,12,100	2,40,768	26%	19.49%	17.12%	13.52%
B	NDS II - Demand Based	3,11,494	3,20,939	3,52,594	3,78,271	4,02,083	7%	7.80%	6.79%	6.29%
3	Street Light Services	1,376	1,483	2,119	2,265	2,574	17%	20%	10%	14%
A	SS Metered	752	776	947	1,000	1,162	11%	14.41%	10.77%	16.20%
B	SS Unmetered	624	707	1,172	1,265	1,412	23%	25.93%	9.76%	11.62%
4	Irrigation & Allied Services	2,34,788	2,51,071	2,63,242	3,05,007	3,88,587	13%	16%	21%	27%
A	IAS I	2,31,154	2,46,590	2,58,659	3,00,283	3,83,754	13.51%	15.88%	21.80%	27.80%
B	IAS II	3,634	4,481	4,583	4,724	4,833	7%	2.55%	2.69%	2.31%
5	Public Service Connections	5,849	18,962	29,224	31,859	34,034	55%	22%	8%	7%
A	Public Water Works	2,626	2,916	3,136	3,247	3,304	6%	4.25%	2.64%	1.76%
B	Har Ghar Nal	3,223	16,046	26,088	28,612	30,730	76%	24.18%	8.53%	7.40%
6	Low Tension Industrial Services	64,026	71,717	77,756	84,698	90,229	9%	8%	8%	7%
A	LTIS I (0-19 kW)	59,574	66,822	72,512	79,149	84,355	9%	8.08%	7.86%	6.58%
B	LTIS II (>19 kW - 74 kW)	4,452	4,895	5,244	5,549	5,874	7%	6.27%	5.84%	5.86%
8	HT-General	1,929	2,064	2,305	2,497	2,814	10%	11%	10%	13%
10	Railway Traction Services	1	6	3	6	10	78%	19%	83%	67%

Table 6.6: Category-wise number consumer approved for NBPDC & SBPDCL for the control period

Sr. No	Category of Consumers	NBPDC			SBPDCL		
		FY 25-26	FY 26-27	FY 27-28	FY 25-26	FY 26-27	FY 27-28
1	Domestic	11,809,188	12,060,770	12,318,726	6,614,885	6,757,083	6,903,008
A	Kutir Jyoti	4,397,735	4,441,712	4,486,129	1,579,252	1,587,306	1,595,401
B	DS I Rural	5,937,324	6,115,443	6,298,907	3,342,598	3,442,876	3,546,162
C	DS II Demand Based	1,474,032	1,503,513	1,533,583	1,692,872	1,726,730	1,761,264
D	DS III	97	102	107	163	171	180
2	Non-Domestic Service	1,062,207	1,132,129	1,206,973	740,833	795,315	853,823
A	NDS I - Metered Now Demand Based	636,912	687,864	742,894	280,832	303,298	327,562
B	NDS II - Demand Based	425,296	444,265	464,080	460,001	492,017	526,261
i	Contract Demand <0.5 kW	2,676	2,796	2,922	11,466	12,264	13,118
ii	Contract Demand >0.5 kW	422,620	441,469	461,158	448,534	479,752	513,143
3	Street Light Services	3,147	3,235	3,329	2,796	2,919	3,050
A	SS Metered	812	877	947	1,355	1,464	1,581
B	SS Unmetered	2,335	2,358	2,382	1,440	1,455	1,469
4	Irrigation & Allied Services	318,111	343,208	370,302	510056	620437	754885
A	IAS I	311,071	335,956	362,833	504929	615156	749445
i	Unmetered	13,792	14,895	16,086	208,329	253,808	309,214
ii	Metered	297,279	321,062	346,746	296,600	361,348	440,231
B	IAS II	7,040	7,251	7,469	5,127	5,281	5,440
5	Public Service Connections	73,334	77,679	82,281	38,025	40,198	42,497
A	Public Water Works	2,127	2,199	2,273	3,497	3,598	3,701
B	Har Ghar Nal	71,207	75,479	80,008	34,528	36,600	38,796
6	Low Tension Industrial Services	105,482	113,921	123,034	105,243	113,663	122,756
A	LTIS I (0-19 kW)	103,239	111,498	120,418	98,392	106,263	114,764
B	LTIS II (>19 kW - 74 kW)	2,243	2,422	2,616	6,851	7,400	7,992
7	LT Electric Vehicle Charging Station	110	116	122	534	560	588
8	HT-General	1871	1964	2062	3088	3242	3403
A	HTS (General)- I (11 kV)	1,773	1,861	1,955	2,847	2,989	3,138
B	HTS (General)- II (33 kV)	88	93	97	236	248	260

Sr. No	Category of Consumers	NBPDC			SBPDCL		
		FY 25-26	FY 26-27	FY 27-28	FY 25-26	FY 26-27	FY 27-28
C	HTS (General)- III (132 kV)	6	6	6	5	5	5
D	HTS (General)- IV (220 kV)	1	1	1	-	-	-
	HTS (General)- V (400 kV)	-	-	-	-	-	-
9	HT-Industrial Services	11	11	11	46	46	46
A	HTIS (Industrial) – I (11 kV)	3	3	3	-	-	-
B	HTIS (Industrial)– II (33 kV)	4	4	4	-	-	-
C	HTIS (Industrial) – III (132 kV)	-	-	-	-	-	-
D	HTIS (Industries)-IV (220 kV)	-	-	-	-	-	-
	HTIS (Industries)-V (400 kV)	-	-	-	-	-	-
E	HTIS (Oxygen Manufacturers)- 11 KV	1	1	1	33	33	33
	HTSS – (33 kV/11 kV)	3	3	3	13	13	13
10	Railway Traction Services	8	8	8	10	10	10
11	Nepal	1	1	1			
13	HT Electric Vehicle Charging Stations.						
10	Total	13373467	13733038	14106846	8015514	8333472	8684065

Connected Load

The Commission has noted that the petitioners have projected average connected load per consumer for various categories of consumers. The average connected load per consumer and approved number of consumers are considered for computing the total load for each sub-category.

The methodology proposed by petitioner for projecting the connected load appears to be reasonable and hence the Commission accepts the same. However, for Kutir Jyoti category, the loads are revised by considering the Government norms of 250 watt per consumer. The consumer category-wise connected load considered by the Commission for the MYT Period FY 2025-26 to FY 2027-28 is shown in the Table below:

Table 6.7 Category-wise connected load approved for NBPDCCL & SBPDCL for the control period

Sr. No	Category of Consumers	NBPDCCL			SBPDCL		
		FY 25-26	FY 26-27	FY 27-28	FY 25-26	FY 26-27	FY 27-28
1	Domestic	9897640	10259087	10633969	8611217	8884232	9209704
A	Kutir Jyoti	1099434	1110428	1121532	394813	396827	398850
B	DS I Rural	6222470	6495118	6778741	3583936	3,715,024	3,894,335
C	DS II Demand Based	2,575,150	2,652,919	2,733,037	4,632,087	4,771,976	4,916,089
D	DS III (Optional- Demand Based)	586	621	659	382.38	405.52	430.05
2	Non-Domestic Service	2,163,579	2,340,775	2,533,182	2,106,185	2,303,072	2,518,407
A	NDS I - Metered Now Demand Based	983,122	1,083,007	1,193,041	494,096	544,297	599,597
B	NDS II - Demand Based	1,180,457	1,257,768	1,340,142	1,612,089	1,758,776	1,918,810
i	Contract Demand <0.5 kW	1,453	1,548	1,650	6809	7428	8104
ii	Contract Demand >0.5 kW	1,179,004	1,256,220	1,338,492	1605280	1751347	1910706
3	Street Light Services	32,868	34,243	35,699	40,975	43,167	45,524
A	SS Metered	5,366	5,911	6,512	13,384	14,743	16,241
B	SS Unmetered	27,501	28,332	29,187	27,591	28,424	29,283
4	Irrigation & Allied Services	672,902	737,184	807,771	1,013,892	1,235,358	1,506,853
A	IAS I	612,769	674,008	741,399	968,618	1,187,793	1,456,882
i	Unmetered	31,423	33,598	35,923	434,373	523,905	631,891
ii	Metered	581,346	640,411	705,476	534,245	663,888	824,991
B	IAS II	60,133	63,176	66,373	45,274	47,565	49,972
i	Metered (Now Demand Based)	60,133	63,176	66,373	45,274	47,565	49,972
5	Public Service Connections	199,869	215,212	231,753	139,741	149,387	159,732
A	Public Water Works	33,035	34,831	36,725	53,463	56,103	58,873
B	Har Ghar Nal	166,834	180,381	195,028	86,279	93,285	100,859

Sr. No	Category of Consumers	NBPDC			SBPDCL		
		FY 25-26	FY 26-27	FY 27-28	FY 25-26	FY 26-27	FY 27-28
6	Low Tension Industrial Services	980,269	1,069,278	1,166,368	1,156,172	1,261,152	1,375,665
A	LTIS I (0-19 kW)	875,839	955,365	1,042,112	796,318	868,624	947,495
B	LTIS II (>19 kW - 74 kW)	104,430	113,913	124,256	359,854	392,528	428,170
7	LT Electric Vehicle Charging Station	1,881	2,074	2,287	3,970	4,377	4,825
8	HT-General	590,620	628,355	668,682	1,076,712	1,149,152	1,226,656
A	HTS (General)- I (11 kV)	388,109	415,665	445,177	650,750	696,953	746,437
B	HTS (General)- II (33 kV)	120,143	128,674	137,809	347,412	372,078	398,495
C	HTS (General)- III (132 kV)	69,363	70,751	72,166	78,550	80,121	81,724
D	HTS (General)- IV (220 kV)	13005	13265.1	13530.402			
	HTS (General)- V (400 kV)	-	-	-			
9	HT-Industrial Services	16,696	17,029	17,371	144,845	147,741	150,696
A	HTIS (Industrial) – I (11 kV)	2,021	2,061	2,103			
B	HTIS (Industrial)– II (33 kV)	4,697	4,791	4,887			
C	HTIS (Industrial) – III (132 kV)	-	-	-			
D	HTIS (Industries)-IV (220 kV)	-	-	-			
	HTIS (Industries)- V (400 kV)						
E	HTIS (Oxygen Manufacturers)- 11 KV	198	202	206	7,003	7,143	7,286
	HTIS (Oxygen Manufacturers)- 33 KV						
	HTSS – (33 kV/11 kV)	9,780	9,975	10,175	137,842	140,598	143,410
10	Railway Traction Services	63,654	65,564	67,531	106,620	109,819	113,114
11	Nepal						
12	DF						
13	HT Electric Vehicle Charging Stations.	-	-	-			
	Total	14619978	15,368799	16,164613	14400328	15308545	16311177

Energy Sales

The Energy sales projections of the petitioners have been reviewed by the Commission. The Commission notes that Regulation 16 of the BERC (Multi Year Distribution Tariff) Regulations, 2024, specifies methodology for assessment of Sales for future period as given below :

“ 16.1 Forecasting Methodology. — Metered sales shall be treated as an uncontrollable parameter; and un-metered sales shall be treated as a controllable parameter.

Provided that, open access transactions shall not form part of the sales.

Provided further that absolute sales forecast of metered category shall be based on past trends in each of the slabs of consumer categories.

Provided further that, in case of un-metered category, sales forecast shall be based on the norms

developed as per Regulation 16.2 of these regulations.

Provided further that in cases where slab-wise sales to each metered consumer category are not available in audited books of accounts and only consolidated sales are available, the Distribution Licensee shall include the slabwise sales alongwith the Business Plan and Tariff petition.

Provided also that in case of occurrence of materially significant findings during audit check as per Regulation 16.3 of these regulations, prudent adjustment in forecasted sales shall be carried out.”

The Commission notes that the MYT Distribution Regulations provides that the sales forecast shall be based on past trend. The Regulations provides that the absolute sales forecast of metered category shall be based on past trends in each of the slabs of consumer categories. The Commission has reviewed the past sales data and examined the sales forecast submitted by the Petitioners. The sales forecast projected by the Petitioners is based on past data in terms of sales per consumer, which is projected for each sub-category.

The Commission accepts the sales projection methodology submitted by the petitioner along with category wise sale projected over the business plan period , except few modifications, as given below.

The Commission has noted that the average consumption per consumer per month for Kutir Jyoti is projected considering more than the stipulated norm of 50 units per consumer per month i.e. NBPDCCL has considered 53.18 units and SBPDCL has considered 81.65 units per consumer per month for FY 2025-26, with 1% growth rate proposed for next two years. The Commission considers it appropriate to allow specific consumption for Kutir Jyoti category at 50 units per month per consumer only.

The applicability of Kutir Jyoti category is to those dwelling houses of rural and urban families which are Below Poverty Line (BPL) as per the list notified and published by Rural Development Department of the State Government of Bihar and also fulfilling the norm of connected load not exceeding 250 watts and consumption per month not exceeding 50 units. Therefore, wherever the consumer deviate from the norm , the petitioners need to shift such consumer from the Kutir Jyoti category to appropriate Domestic category. This will also improve the revenue to Discoms.

As discussed in true-up and APR chapter regarding sales to street light (un-metered), the consumption norms of 25 units per 100 watts per month is considered. For Nepal, sales approved under APR of FY 2024-25 is considered for the control period FY 2025-26 to FY 2027-28.

The category-wise energy sales approved for the MYT Period FY 2025-26 to FY 2027-28 is shown in the Table below:

Table 6.8 Category-wise sales approved for NBPDC & SBPDCL for the control period

Sr. No	Category of Consumers	NBPDC			SBPDCL		
		FY 25-26	FY 26-27	FY 27-28	FY 25-26	FY 26-27	FY 27-28
1	Domestic	9897640	10259087	10633969	8611217	8884232	9209704
A	Kutir Jyoti	1099434	1110428	1121532	394813	396827	398850
B	DS I Rural	6222470	6495118	6778741	3583936	3,715,024	3,894,335
C	DS II Demand Based	2,575,150	2,652,919	2,733,037	4,632,087	4,771,976	4,916,089
D	DS III (Optional- Demand Based)	586	621	659	382.38	405.52	430.05
2	Non-Domestic Service	2,163,579	2,340,775	2,533,182	2,106,185	2,303,072	2,518,407
A	NDS I - Metered Now Demand Based	983,122	1,083,007	1,193,041	494,096	544,297	599,597
B	NDS II - Demand Based	1,180,457	1,257,768	1,340,142	1,612,089	1,758,776	1,918,810
i	Contract Demand <0.5 kW	1,453	1,548	1,650	6809	7428	8104
ii	Contract Demand >0.5 kW	1,179,004	1,256,220	1,338,492	1605280	1751347	1910706
3	Street Light Services	32,868	34,243	35,699	40,975	43,167	45,524
A	SS Metered	5,366	5,911	6,512	13,384	14,743	16,241
B	SS Unmetered	27,501	28,332	29,187	27,591	28,424	29,283
4	Irrigation & Allied Services	672,902	737,184	807,771	1,013,892	1,235,358	1,506,853
A	IAS I	612,769	674,008	741,399	968,618	1,187,793	1,456,882
i	Unmetered	31,423	33,598	35,923	434,373	523,905	631,891
ii	Metered	581,346	640,411	705,476	534,245	663,888	824,991
B	IAS II	60,133	63,176	66,373	45,274	47,565	49,972
i	Metered (Now Demand Based)	60,133	63,176	66,373	45,274	47,565	49,972
5	Public Service Connections	199,869	215,212	231,753	139,741	149,387	159,732
A	Public Water Works	33,035	34,831	36,725	53,463	56,103	58,873
B	Har Ghar Nal	166,834	180,381	195,028	86,279	93,285	100,859
6	Low Tension Industrial Services	980,269	1,069,278	1,166,368	1,156,172	1,261,152	1,375,665
A	LTIS I (0-19 kW)	875,839	955,365	1,042,112	796,318	868,624	947,495
B	LTIS II (>19 kW - 74 kW)	104,430	113,913	124,256	359,854	392,528	428,170
7	LT Electric Vehicle Charging Station	1,881	2,074	2,287	3,970	4,377	4,825
8	HT-General	590,620	628,355	668,682	1,076,712	1,149,152	1,226,656
A	HTS (General)- I (11 kV)	388,109	415,665	445,177	650,750	696,953	746,437
B	HTS (General)- II (33 kV)	120,143	128,674	137,809	347,412	372,078	398,495
C	HTS (General)- III (132 kV)	69,363	70,751	72,166	78,550	80,121	81,724

Sr. No	Category of Consumers	NBPDCCL			SBPDCL		
		FY 25-26	FY 26-27	FY 27-28	FY 25-26	FY 26-27	FY 27-28
D	HTS (General)- IV (220 kV)	13005	13265.1	13530.402			
	HTS (General)- V (400 kV)	-	-	-			
9	HT-Industrial Services	16,696	17,029	17,371	144,845	147,741	150,696
A	HTIS (Industrial) – I (11 kV)	2,021	2,061	2,103			
B	HTIS (Industrial)– II (33 kV)	4,697	4,791	4,887			
C	HTIS (Industrial) – III (132 kV)	-	-	-			
D	HTIS (Industries)-IV (220 kV)	-	-	-			
	HTIS (Industries)- V (400 kV)						
E	HTIS (Oxygen Manufacturers)- 11 KV	198	202	206	7,003	7,143	7,286
	HTIS (Oxygen Manufacturers)- 33 KV						
	HTSS – (33 kV/11 kV)	9,780	9,975	10,175	137,842	140,598	143,410
10	Railway Traction Services	63,654	65,564	67,531	106,620	109,819	113,114
11	Nepal						
12	DF						
13	HT Electric Vehicle Charging Stations.	-	-	-			
	Total	14587619	15,368799	16,164613	14400328	15308545	16311177

The Commission observed that the norms prescribed for estimation of un-metered category of consumers in FY 2017-18 Tariff order needs to be revisited in order to capture the technological advancement. The Commission therefore directs the petitioners to conduct a study of un-metered sales in their supply area as provided in Regulation 17 of the BERC (Multi Year Distribution Tariff) Regulations, 2024 and submit the report suggesting methodology and norms for assessment of sale to un-metered category of consumers before next tariff filing.

6.4 AT&C Losses

Petitioner's Submission

The Government of India, through Ministry of Power has introduced “Revamped Distribution Sector. The Petitioners participated in the said scheme and submitted the action plan, DPR of the total project outlay & roadmap for AT&C Loss to the State Government for its approval in the month of March 2022. The Monitoring Committee for RDSS constituted under Chairmanship of Secretary (Power), Govt of India, in its 9th meeting held on 28.04.2022, has approved the Action Plan and Loss Reduction DPR of North Bihar Power Distribution Company Limited (NBPDL) and South Bihar Power Distribution Company Limited (SBPDCL) under

Revamped Distribution Sector Scheme. Accordingly, the Monitoring Committee approved the following trajectory for AT&C loss for the Petitioners.

Particulars (NBDCL)	FY 2021-22 (NBDCL)	FY 2022-23 (NBDCL)	FY 2023-24 (NBDCL)	FY 2024-25 (NBDCL)
AT&C Loss	25%	22%	19%	16%

Particulars	FY 2021-22 (SBPDCL)	FY 2022-23 (SBPDCL)	FY 2023-24 (SBPDCL)	FY 2024-25 (SBPDCL)
AT&C Loss	35%	31%	25%	20%

The petitioners submitted that the sunset time for RDSS scheme as specified by Ministry of Power is 31st March 2025. And, therefore, AT&C loss trajectory for DISCOMs including for the Petitioner for FY 2025-26 and subsequent years is not known.

The petitioner projected the Billing efficiency, collection efficiency, Distribution loss and AT&C loss trajectories for the control period and request the Commission to adopt the same.

Table 6.9: Distribution and AT&C Losses for 2025-26 to FY 2027-28 (NBDCL & SBPDCL)

	FY 2025-26 (Projection) (NBDCL)	FY 2026-27 (Projection) (NBDCL)	FY 2027-28 (Projection) (NBDCL)	FY 2025-26 (Projection) (SBPDCL)	FY 2026-27 (Projection) (SBPDCL)	FY 2027-28 (Projection) (SBPDCL)
Billing Efficiency	85.53%	85.61%	85.69%	82.60%	82.68%	82.77%
Collection Efficiency	98.50%	98.70%	98.90%	97.16%	97.36%	97.56%
Distribution Loss	14.47%	14.39%	14.31%	17.40%	17.32%	17.23%
AT&C Loss	15.75%	15.50%	15.25%	19.75%	19.50%	19.25%

Commission's Analysis

The Commission observes that, as per RDSS target, the approved distribution loss for FY 2024-25 is 14.55% for NBDCL and 17.49% for SBPDCL. The Commission notes that the distribution loss reduction trajectory proposed by the petitioner over the control period is moderate showing little reduction in the present loss level. Considering the significant investment made into the transmission & distribution infrastructure under RDSS & other schemes, , the Petitioners should achieve a lower level of distribution loss. Hence, the Commission does not accept the proposal of DISCOMs .

The Commission observes that approved distribution loss for FY 2024-25 is 2.94% lower from actual distribution loss for FY 2023-24 for NBDCL. Considering the same loss reduction trajectory to be followed during the control period (i.e. 2.94% reduction over previous year

level), the Commission approved the distribution loss trajectory for FY 2025-26 to 2027-28. The Commission observed that approved distribution loss of SBPDCL for FY 2024-25 is 9.24% lower from actual distribution loss for FY 2023-24. It is to be noted that such steep reduction may not be achievable for every year. Hence, the Commission decides to consider, 4.62% reduction per year (i.e. 50% of 9.24%) in distribution loss for SBPDCL. Considering the above, the Commission approves the distribution loss for FY 2025-26 to 2027-28 of SBPDCL as shown in table 6.13. Further, the Commission has considered 100% collection efficiency for FY 2025-26 to 2027-28. Based on the above discussion, the approved Distribution Loss, Collection Efficiency and AT&C Loss considered for the control period FY 2025-26 to FY 2028-29 is shown in the table below.

Table 6.10: Distribution Loss, Collection Efficiency and AT&C Loss approved for FY 2025-26 to FY 2027-28

Particulars	NBPDCCL			SBPDCL		
	FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
Distribution Loss	14.12%	13.71%	13.30%	16.68%	15.91%	15.18%
Collection Efficiency	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
AT&C Loss	14.12%	13.71%	13.30%	16.68%	15.91%	15.18%

The Commission has considered the Distribution loss as shown above for FY 2025-26 to 2027-28 for NBPDCCL and SBPDCL respectively for Energy balance calculations.

6.5 Power Purchase Quantum Projection FY 2025-26 to FY 2027-28:

Petitioner's Submission

The Petitioners submitted that DISCOMs rely on allocation from central generating stations and state projects for procuring power for sale in the state. This power has been proposed to be allocated between NBPDCCL and SBPDCL in the proportion as determined by the Board Resolution.

The following capacity addition plant-wise, has been considered by the Petitioner for the period from FY 2025-26 to FY 2027-28:

Table 6.11: Upcoming Capacity Addition Plant-wise during the Control Period in MW (NBPDCCL & SBPDCL)

Particulars	Source	CoD	BSPHCL Share (MW)
NTPC NORTH KARANPUR UNIT #3	Thermal	Mar-25	297.00
BUXAR TPP UNIT #1	Thermal	Jan-25	561.00
BUXAR TPP UNIT #2	Thermal	Jan-26	561.00

Particulars	Source	CoD	BSPHCL Share (MW)
ACME DEOGHAR/ACME DHAULPUR	Solar	Mar-25	150.00
SBE RENEWABLES SIXTEEN PVT LTD	Solar	Jan-25	180.00
ADANI GREEN ENERGY	Solar	Mar-26	600.00
GREENKO ENERGY HYBRID	Hybrid	Mar-25	210.00
FLOATING SOLAR	Solar	Mar-25	10.00
CANAL BANK SOLAR	Solar	Nov-24	2.00
ACME SOLAR JAISELMER	Solar	Mar-25	500.00

Further, following plant/ PPAs are expected to retired/ expired recently.

Table 6.12: Plants PPA expiring/ retiring in near year (NBPDC & SBPDCL)

Particulars	Source	Date of Expiring PPA	BSPHCL Share (MW)
NTPC (BARAUNI-I)	Thermal	2024	220
HARINAGAR SUGAR MILL	Bagasse	10.08.2024	14.5
BHARAT SUGAR MILL	Bagasse	22.08.2024	18
HPCL BIOFUELS LIMITED, SUGAULI	Bagasse	21.10.2023	20
HPCL BIOFUELS LIMITED, LAURIYA	Bagasse	21.10.2023	20
HASANPUR SUGAR MILL	Bagasse	25.02.2027	10
RIGA SUGAR COMPANY LIMITED	Bagasse	31.08.2027	3
SIDDHASHRAM RICE MILL CLUSTER PVT. LTD	Biomass	30.04.2027	2

The Petitioners have considered the actual power purchase for FY 2023-24, based on which the projections for FY 2025-26 to FY 2027-28 have been made on the basis the following methodology.

Capacity allocation has been considered as per Eastern Regional Power Committee. The Petitioners have implemented the methodology of Merit Order Despatch (MoD) for projecting its power purchase to meet its projected power demand. While implementing the MoD, the Petitioners have firstly estimated utilization of its allocated capacity of must-run plants i.e. the Solar and Non-solar Renewable Energy generating stations and its Hydro stations based on the minimum offtake requirements or their normative PLFs, whichever is maximum. For the purpose of projection, the Petitioners have considered the Medium Term PPAs to be must run due to the fact that the Petitioner has a minimum off-take liability in its Medium Term PPAs. Further, the remaining demand of the Petitioners has been tried to be

fulfilled through its conventional power purchase tie-ups. It submitted that petitioners has firstly allocated the minimum technical limit to all its conventional plants i.e. up till 55% PLF of the plants based on their variable charge per unit (ECR). Further, the remaining demand of the system has then been tried to be fulfilled through bucket-filling up to a maximum PLF of 85% for the conventional generating stations based on their ECR. In case of any energy demand remaining unfilled after the process, the same is expected to be procured through Open market purchase. The petitioners have considered the Normative auxiliary consumption provided by Central Electricity Regulatory Commission (CERC) for the thermal and hydro plants and the auxiliary consumptions specified for plants. Considering the methodology as mentioned above and using the power purchase allocation data, total units to be purchased have been calculated from every source/ plant for every month separately.

Total Power purchase projections data for FY 2025-26 to FY 2027-28(MU) is provided in the below table.

Table 6.13: Power Allocation for FY 2025-26, FY 2026-27 and FY 2027-28 (NBPDCCL)

Sr No	Particulars	FY 2025-26		FY 2026-27		FY 2027-28	
		Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)
I	Stations with injection at CTU	3,313.66	14,899.50	3,313.66	15,299.82	3,313.66	17,160.16
1	NTPC(BARH-I)	530.28	1,541.79	530.28	1,570.94	530.28	2,856.25
2	NTPC(BARH-II)	368.71	1,070.25	368.71	1,072.68	368.71	1,309.29
3	NTPC (DARLIPALLI)	148.77	957.60	148.77	957.60	148.77	957.60
4	NTPC (FARAKKA - I & II)	188.65	551.31	188.65	557.55	188.65	560.74
5	NTPC (FARAKKA - III)	44.73	130.71	44.73	132.19	44.73	241.72
6	NTPC (KAHALGAUN - I)	23.70	75.63	23.70	77.75	23.70	140.99
7	NTPC (KAHALGAUN - II)	29.29	93.47	29.29	159.56	29.29	174.23
8	NTPC (NORTH KARANPURA)	273.07	1,794.41	273.07	1,794.41	273.07	1,794.41
9	NTPC (TALCHAR)	185.79	1,220.01	185.79	1,224.66	185.79	1,227.77
10	NTPC (KBUNL-II)	132.97	433.85	132.97	733.08	132.97	760.95
11	NTPC NORTH KARANPUR UNIT #3	136.62	897.76	136.62	897.76	136.62	897.76
16	NABINAGAR POWER GENERATION COMPANY LIMITED	754.20	4,717.72	754.20	4,706.33	754.20	4,703.62
17	BHARTIYA RAIL BIJLEE COMPANY LIMITED	46.00	146.40	46.00	150.29	46.00	272.80
18	NHPC (RANGIT)	10.59	54.27	10.59	55.19	10.59	54.62
19	NHPC (TEESTA)	49.22	243.67	49.22	239.19	49.22	236.78
20	PTC (TALA)	119.65	139.77	119.65	139.77	119.65	139.77
21	PTC (CHUKHA)	42.83	147.94	42.83	147.94	42.83	147.94

Sr No	Particulars	FY 2025-26		FY 2026-27		FY 2027-28	
		Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)
22	PTC (MANGDECHHU)	130.88	423.36	130.88	423.36	130.88	423.36
23	PTC(KURUCHU)	1.57	0.66	1.57	0.66	1.57	0.66
23	PTC(NEPAL)	96.14	258.92	96.14	258.92	96.14	258.92
II	Stations with injection at STU	771.24	2,093.74	771.24	2,965.17	771.24	2,965.17
1	NTPC (BARAUNI-I)	-	-	-	-	-	-
2	NTPC (BARAUNI-II)	230.00	856.53	230.00	1,002.70	230.00	1,002.70
3	BUXAR TPP UNIT #1	258.06	967.00	258.06	967.00	258.06	967.00
4	BUXAR TPP UNIT #2	258.06	241.75	258.06	967.00	258.06	967.00
5	EAST GANDAK H.E.PROJECT, VALMIKINAGAR	6.90	7.82	6.90	7.82	6.90	7.82
6	TRIVENI S.H. PROJECT, TRIVENI (VALMIKINAGAR)	1.38	1.56	1.38	1.56	1.38	1.56
7	SONE EASTERN H.E. PROJECT, BARUN	1.52	1.72	1.52	1.72	1.52	1.72
8	SONE WESTERN H.E. PROJECT, DEHRI-ON-SONE	3.04	3.44	3.04	3.44	3.04	3.44
9	SONE WESTERN H.E. PROJECT, KOSI	8.97	10.16	8.97	10.16	8.97	10.16
10	AGNOOR S.H. PROJECT, AGNOOR	0.46	0.52	0.46	0.52	0.46	0.52
11	DHELABAGH S.H.PROJECT, DHELABAGH	0.46	0.52	0.46	0.52	0.46	0.52
12	NASHRIGANJ S H.PROJECT, NASHRIGANJ	0.46	0.52	0.46	0.52	0.46	0.52
13	JAINAGRAH S.H.PROJECT, JAINAGRAH	0.46	0.52	0.46	0.52	0.46	0.52
14	SRIKHINDA S.H. PROJECT, SRIKHINDA	0.32	0.36	0.32	0.36	0.32	0.36
15	SEBARI S.H.PROJECT, SEBARI	0.46	0.52	0.46	0.52	0.46	0.52
16	ARWAL S.H.PROJECT, ARWAL	0.23	0.26	0.23	0.26	0.23	0.26
17	BELSAR S.H.PROJECT, BELSAR	0.46	0.52	0.46	0.52	0.46	0.52
III	IPPs	224.47	1,475.05	224.47	1,475.05	224.47	1,475.05
1	GMR KAMALANGA ENERGY LIMITED	119.59	785.86	119.59	785.86	119.59	785.86
2	JINDAL INDIA THARMAL POWER LIMITED	104.88	689.19	104.88	689.19	104.88	689.19
IV	Renewables	1,660.88	2,922.85	1,660.88	3,274.43	1,655.36	3,257.42
1	TIRUPATI SUGAR LIMITED	2.76	12.08	2.76	12.08	2.76	12.08
2	HARINAGAR SUGAR MILL	-	-	-	-	-	-
3	HASANPUR SUGAR MILL	4.60	18.56	4.60	17.01	-	-
4	BHARAT SUGAR MILL	-	-	-	-	-	-
5	HPCL BIOFUELS LIMITED, SUGAULI	-	-	-	-	-	-

Sr No	Particulars	FY 2025-26		FY 2026-27		FY 2027-28	
		Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)
6	HPCL BIOFUELS LIMITED, LAURIYA	-	-	-	-	-	-
7	NEW SWADESHI SUGAR MILL	-	-	-	-	-	-
8	RIGA SUGAR COMPANY LIMITED	1.38	-	1.38	-	1.38	-
9	BIHAR DISTILLERS AND BOTTLERS PRIVATE LIMITED	4.32	7.58	4.32	7.58	4.32	7.58
10	SIDHASHRAM RICE MILL CLUSTER PVT. LTD	0.92	-	0.92	-	-	-
11	GLATT SOLUTION PRIVATE LIMITED	1.38	2.28	1.38	2.28	1.38	2.28
12	SECI (FOCAL)	4.60	8.49	4.60	8.49	4.60	8.49
13	SECI (VIVID SOLAIRE ENERGY PVT. LTD.)	23.09	61.97	23.09	61.97	23.09	61.97
14	SECI (GREEN INFRA WIND ENERGY PVT. LTD.)	46.00	123.44	46.00	123.44	46.00	123.44
15	SECI (Morjar Windfarms Pvt. Ltd.)	23.00	42.44	23.00	42.44	23.00	42.44
16	SECI (GREENKO SIRONJ WIND POWER PVT. LTD.)	46.00	123.44	46.00	123.44	46.00	123.44
17	PTC (OSTRO KUTCH WIND PRIVATE LIMITED)	23.00	61.72	23.00	61.72	23.00	61.72
18	PTC (GREEN INFRA RENEWABLE ENERGY LIMITED)	23.00	61.72	23.00	61.72	23.00	61.72
19	PTC (MYTRAH VAYU SABARMATI PRIVATE LIMITED)	23.00	61.72	23.00	61.72	23.00	61.72
20	SECI (ALFANAR ENERGY PVT. LTD.)	23.00	61.72	23.00	61.72	23.00	61.72
21	SECI (OSTRO KANNADA POWERPRIVATE LIMITED)	138.00	347.22	138.00	347.22	138.00	347.22
22	SB ENERGY SIX PRIVATE LIMITED (NTPC)	138.00	337.55	138.00	337.55	138.00	337.55
23	RESPONCE RENEWABLE ENERGY PRIVATE LIMITED	4.60	7.33	4.60	7.33	4.60	7.33
24	ALFA INFRA PROP PVT. LTD.	4.60	7.60	4.60	7.60	4.60	7.60
25	SECI (RENEW SUNWAVES PRIVATE LIMITED)	138.00	326.12	138.00	326.12	138.00	326.12
26	SECI (GRT Jewellers)	69.00	109.95	69.00	109.95	69.00	109.95
27	AVANTIKA CONTRACTOR (I) PVT. LTD.	2.30	3.80	2.30	3.80	2.30	3.80
28	WELSPUN I	4.60	7.60	4.60	7.60	4.60	7.60
29	WELSPUN II	6.90	11.40	6.90	11.40	6.90	11.40
30	WELSPUN III	6.90	11.40	6.90	11.40	6.90	11.40
31	UDIPTA ENERGY AND EQUIPMENT PRIVATE LIMITED	2.30	3.80	2.30	3.80	2.30	3.80

Sr No	Particulars	FY 2025-26		FY 2026-27		FY 2027-28	
		Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)
32	SUNMARK ENERGY PROJECT LIMITED	4.60	7.60	4.60	7.60	4.60	7.60
33	ACME (MAGADH)	4.60	7.60	4.60	7.60	4.60	7.60
34	ACME (NALANDA)	6.90	11.40	6.90	11.40	6.90	11.40
35	AZURE POWER ERIS PVT. LTD.	4.60	7.60	4.60	7.60	4.60	7.60
36	AVADA POWER ERIS PVT LTD	23.00	38.00	23.00	38.00	23.00	38.00
37	ADANI SOLAR	69.00	127.32	69.00	127.32	69.00	127.32
38	AVADA CLEAN	23.00	38.00	23.00	38.00	23.00	38.00
39	ACME DEOGHAR/ACME DHAULPUR	69.00	127.32	69.00	127.32	69.00	127.32
40	SBE RENEWABLES SIXTEEN PVT LTD	82.80	152.79	82.80	152.79	82.80	152.79
41	ADANI GREEN ENERGY	276.00	32.10	276.00	385.23	276.00	385.23
42	GREENKO ENERGY HYBRID	96.60	118.67	96.60	118.67	96.60	118.67
43	FLOATING SOLAR	4.60	7.60	4.60	7.60	4.60	7.60
44	CANAL BANK SOLAR	0.92	1.52	0.92	1.52	0.92	1.52
45	ACME SOLAR JAISELMER	230.00	424.41	230.00	424.41	230.00	424.41
	Total	5,970.24	21,391.14	5,970.24	23,014.47	5,964.72	24,857.80

Table 6.14: Power Allocation for FY 2025-26, FY 2026-27 and FY 2027-28 (SBPDCL)

Sr No	Particulars	FY 2025-26		FY 2026-27		FY 2027-28	
		Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)
I	Stations with injection at CTU	3,889.95	17,490.72	3,889.95	17,960.66	3,889.95	20,144.54
1	NTPC(BARH-I)	622.50	1,809.93	622.50	1,844.14	622.50	3,352.98
2	NTPC(BARH-II)	432.83	1,256.38	432.83	1,259.24	432.83	1,536.99
3	NTPC (DARLIPALLI)	174.64	1,124.14	174.64	1,124.14	174.64	1,124.14
4	NTPC (FARAKKA - I & II)	221.46	647.19	221.46	654.52	221.46	658.26
5	NTPC (FARAKKA - III)	52.51	153.44	52.51	155.18	52.51	283.75
6	NTPC (KAHALGAUN - I)	27.82	88.79	27.82	91.27	27.82	165.51
7	NTPC (KAHALGAUN - II)	34.38	109.72	34.38	187.31	34.38	204.54
8	NTPC (NORTH KARANPURA)	320.56	2,106.48	320.56	2,106.48	320.56	2,106.48
9	NTPC (TALCHAR)	218.11	1,432.19	218.11	1,437.65	218.11	1,441.30
10	NTPC (KBUNL-II)	156.10	509.30	156.10	860.57	156.10	893.29
11	NTPC NORTH KARANPUR UNIT #3	160.38	1,053.89	160.38	1,053.89	160.38	1,053.89
16	NABINAGAR POWER GENERATION COMPANY LIMITED	885.37	5,538.20	885.37	5,524.82	885.37	5,521.64

Sr No	Particulars	FY 2025-26		FY 2026-27		FY 2027-28	
		Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)
17	BHARTIYA RAIL BIJLEE COMPANY LIMITED	54.00	171.86	54.00	176.42	54.00	320.24
18	NHPC (RANGIT)	12.43	63.71	12.43	64.79	12.43	64.11
19	NHPC (TEESTA)	57.78	286.05	57.78	280.79	57.78	277.96
20	PTC (TALA)	140.45	164.08	140.45	164.08	140.45	164.08
21	PTC (CHUKHA)	50.28	173.67	50.28	173.67	50.28	173.67
22	PTC (MANGDECHHU)	153.64	496.99	153.64	496.99	153.64	496.99
23	PTC(KURUCHU)	1.84	0.77	1.84	0.77	1.84	0.77
23	PTC(NEPAL)	112.86	303.95	112.86	303.95	112.86	303.95
II	Stations with injection at STU	905.36	2,457.87	905.36	3,480.85	905.36	3,480.85
1	NTPC (BARAUNI-I)	-	-	-	-	-	-
2	NTPC (BARAUNI-II)	270.00	1,005.49	270.00	1,177.09	270.00	1,177.09
3	BUXAR TPP UNIT #1	302.94	1,135.18	302.94	1,135.18	302.94	1,135.18
4	BUXAR TPP UNIT #2	302.94	283.79	302.94	1,135.18	302.94	1,135.18
5	EAST GANDAK H.E.PROJECT, VALMIKINAGAR	8.10	9.18	8.10	9.18	8.10	9.18
6	TRIVENI S.H. PROJECT, TRIVENI (VALMIKINAGAR)	1.62	1.84	1.62	1.84	1.62	1.84
7	SONE EASTERN H.E. PROJECT, BARUN	1.78	2.02	1.78	2.02	1.78	2.02
8	SONE WESTERN H.E. PROJECT, DEHRI-ON-SONE	3.56	4.04	3.56	4.04	3.56	4.04
9	SONE WESTERN H.E. PROJECT, KOSI	10.53	11.93	10.53	11.93	10.53	11.93
10	AGNOOR S.H. PROJECT, AGNOOR	0.54	0.61	0.54	0.61	0.54	0.61
11	DHELABAGH S.H.PROJECT, DHELABAGH	0.54	0.61	0.54	0.61	0.54	0.61
12	NASHRIGANJ S H.PROJECT, NASHRIGANJ	0.54	0.61	0.54	0.61	0.54	0.61
13	JAINAGRAH S.H.PROJECT, JAINAGRAH	0.54	0.61	0.54	0.61	0.54	0.61
14	SRIKHINDA S.H. PROJECT, SRIKHINDA	0.38	0.43	0.38	0.43	0.38	0.43
15	SEBARI S.H.PROJECT, SEBARI	0.54	0.61	0.54	0.61	0.54	0.61

Sr No	Particulars	FY 2025-26		FY 2026-27		FY 2027-28	
		Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)
16	ARWAL S.H.PROJECT, ARWAL	0.27	0.31	0.27	0.31	0.27	0.31
17	BELSAR S.H.PROJECT, BELSAR	0.54	0.61	0.54	0.61	0.54	0.61
III	IPPs	263.51	1,731.58	263.51	1,731.58	263.51	1,731.58
1	GMR KAMALANGA ENERGY LIMITED	140.39	922.53	140.39	922.53	140.39	922.53
2	JINDAL INDIA THERMAL POWER LIMITED	123.12	809.05	123.12	809.05	123.12	809.05
IV	Renewables	1,949.72	3,431.17	1,949.72	3,843.90	1,943.24	3,823.93
1	TIRUPATI SUGAR LIMITED	3.24	14.18	3.24	14.18	3.24	14.18
2	HARINAGAR SUGAR MILL	-	-	-	-	-	-
3	HASANPUR SUGAR MILL	5.40	21.78	5.40	19.97	-	-
4	BHARAT SUGAR MILL	-	-	-	-	-	-
5	HPCL BIOFUELS LIMITED, SUGAULI	-	-	-	-	-	-
6	HPCL BIOFUELS LIMITED, LAURIYA	-	-	-	-	-	-
7	NEW SWADESHI SUGAR MILL	-	-	-	-	-	-
8	RIGA SUGAR COMPANY LIMITED	1.62	-	1.62	-	1.62	-
9	BIHAR DISTILLERS AND BOTTLERS PRIVATE LIMITED	5.08	8.90	5.08	8.90	5.08	8.90
10	SIDHASHRAM RICE MILL CLUSTER PVT. LTD	1.08	-	1.08	-	-	-
11	GLATT SOLUTION PRIVATE LIMITED	1.62	2.68	1.62	2.68	1.62	2.68
12	SECI (FOCAL)	5.40	9.96	5.40	9.96	5.40	9.96
13	SECI (VIVID SOLAIRE ENERGY PVT. LTD.)	27.11	72.74	27.11	72.74	27.11	72.74
14	SECI (GREEN INFRA WIND ENERGY PVT. LTD.)	54.00	144.90	54.00	144.90	54.00	144.90
15	SECI (Morjar Windfarms Pvt. Ltd.)	27.00	49.82	27.00	49.82	27.00	49.82
16	SECI (GREENKO SIRONJ WIND POWER PVT. LTD.)	54.00	144.90	54.00	144.90	54.00	144.90

Sr No	Particulars	FY 2025-26		FY 2026-27		FY 2027-28	
		Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)
17	PTC (OSTRO KUTCH WIND PRIVATE LIMITED)	27.00	72.45	27.00	72.45	27.00	72.45
18	PTC (GREEN INFRA RENEWABLE ENERGY LIMITED)	27.00	72.45	27.00	72.45	27.00	72.45
19	PTC (MYTRAH VAYU SABARMATI PRIVATE LIMITED)	27.00	72.45	27.00	72.45	27.00	72.45
20	SECI (ALFANAR ENERGY PVT. LTD.)	27.00	72.45	27.00	72.45	27.00	72.45
21	SECI (OSTRO KANNADA POWERPRIVATE LIMITED)	162.00	407.61	162.00	407.61	162.00	407.61
22	SB ENERGY SIX PRIVATE LIMITED (NTPC)	162.00	396.25	162.00	396.25	162.00	396.25
23	RESPONCE RENEWABLE ENERGY PRIVATE LIMITED	5.40	8.60	5.40	8.60	5.40	8.60
24	ALFA INFRA PROP PVT. LTD.	5.40	8.92	5.40	8.92	5.40	8.92
25	SECI (RENEW SUNWAVES PRIVATE LIMITED)	162.00	382.84	162.00	382.84	162.00	382.84
26	SECI (GRT Jewellers)	81.00	129.07	81.00	129.07	81.00	129.07
27	AVANTIKA CONTRACTOR (I) PVT. LTD.	2.70	4.46	2.70	4.46	2.70	4.46
28	WELSPUN I	5.40	8.92	5.40	8.92	5.40	8.92
29	WELSPUN II	8.10	13.38	8.10	13.38	8.10	13.38
30	WELSPUN III	8.10	13.38	8.10	13.38	8.10	13.38
31	UDIPTA ENERGY AND EQUIPMENT PRIVATE LIMITED	2.70	4.46	2.70	4.46	2.70	4.46
32	SUNMARK ENERGY PROJECT LIMITED	5.40	8.92	5.40	8.92	5.40	8.92
33	ACME (MAGADH)	5.40	8.92	5.40	8.92	5.40	8.92
34	ACME (NALANDA)	8.10	13.38	8.10	13.38	8.10	13.38
35	AZURE POWER ERIS PVT. LTD.	5.40	8.92	5.40	8.92	5.40	8.92
36	AVADA POWER ERIS PVT LTD	27.00	44.61	27.00	44.61	27.00	44.61
37	ADANI SOLAR	81.00	149.47	81.00	149.47	81.00	149.47
38	AVADA CLEAN	27.00	44.61	27.00	44.61	27.00	44.61
39	ACME DEOGHAR/ACME DHAULPUR	81.00	149.47	81.00	149.47	81.00	149.47
40	SBE RENEWABLES SIXTEEN PVT LTD	97.20	179.36	97.20	179.36	97.20	179.36
41	ADANI GREEN ENERGY	324.00	37.69	324.00	452.23	324.00	452.23

Sr No	Particulars	FY 2025-26		FY 2026-27		FY 2027-28	
		Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)
42	GREENKO ENERGY HYBRID	113.40	139.31	113.40	139.31	113.40	139.31
43	FLOATING SOLAR	5.40	8.92	5.40	8.92	5.40	8.92
44	CANAL BANK SOLAR	1.08	1.78	1.08	1.78	1.08	1.78
45	ACME SOLAR JAISELMER	270.00	498.22	270.00	498.22	270.00	498.22
	Total	7,008.55	25,111.34	7,008.55	27,016.99	7,002.07	29,180.90

Commission's Analysis

The Commission notes that as per Regulation 19 of the Bihar Electricity Regulatory Commission (Multi Year Distribution Tariff) Regulations, 2024, based on demand estimates, grossed up with distribution losses and transmission losses, the power purchase quantum shall be calculated in accordance with BERC (Power Purchase & Procurement Process of Licensee) Regulations, 2018.

The Commission has reviewed the projected power purchase quantum and observes that based on power availability from various sources (based on proposed PLF), there will be surplus availability in FY 2025-26 to FY 2027-28 period. The Petitioners have projected the power purchase quantum considering power availability from the new projects and considering expiry of few PPAS. The Commission has considered the projected availability and regulated the power purchase in FY 2025-26 to FY 2027-28 duly observing Merit Order Dispatch (MoD) principle based on energy charge rate or variable cost.

As per MoD principle, the plants which are not "Must Run" are stacked in ascending order of their variable cost (Rs/kWh). The demand is then met through stations in ascending order of their variable cost subject to "Technical Minimum" procurement.

The following table shows the details of Merit Order Dispatch considered for FY 2023-24 for estimating the power purchase requirement for FY 2025-26 to FY 2027-28.

Table 6.15: Merit Order Dispatch Considered by the Commission

Sl No	Particulars	Source	Mode of operation	Energy cost (Rs. /kWh)		
				FY 2025-26	FY 2026-27	FY 2027-28
A	Hydel					
	NHPC (TEESTA)	Hydel	Must Run	1.30	1.37	1.44
	NHPC (RANGIT)	Hydel	Must Run	2.23	2.35	2.49
	BSHPC	Hydel	Must Run	2.49	2.49	2.49

SI N o	Particulars	Source	Mode of operation	Energy cost (Rs. /kWh)		
				FY 2025- 26	FY 2026- 27	FY 2027- 28
	PTC (TALA)	Hydel	Must Run	2.53	2.67	2.82
	PTC(KURUCHU)	Hydel	Must Run	3.30	3.49	3.68
	PTC (CHUKHA)	Hydel	Must Run	3.39	3.58	3.78
	PTC (MANGDECHHU)	Hydel	Must Run	4.67	4.93	5.20
	PTC(NEPAL)	Hydel	Must Run	5.50	5.50	5.50
B	Renewables					
	SECI (OSTRO KANNADA POWERPRIVATE LIMITED)	WIND	Must Run	2.18	2.18	2.18
	SECI (Morjar Windfarms Pvt. Ltd.)	WIND	Must Run	2.19	2.19	2.19
	ACME DEOGHAR/ACME DHAULPUR	SOLAR	Must Run	2.51	2.51	2.51
	ACME SOLAR JAISELMER	SOLAR	Must Run	2.51	2.51	2.51
	SECI (GREEN INFRA WIND ENERGY PVT. LTD.)	WIND	Must Run	2.51	2.51	2.51
	SECI (VIVID SOLAIRE ENERGY PVT. LTD.)	WIND	Must Run	2.52	2.52	2.52
	ADANI GREEN ENERGY	SOLAR	Must Run	2.52	2.52	2.52
	SECI (ALFANAR ENERGY PVT. LTD.)	WIND	Must Run	2.52	2.52	2.52
	SECI (GRT Jewellers)	SOLAR	Must Run	2.60	2.60	2.60
	SECI (RENEW SUNWAVES PRIVATE LIMITED)	SOLAR	Must Run	2.62	2.62	2.62
	SB ENERGY SIX PRIVATE LIMITED (NTPC)	SOLAR	Must Run	2.67	2.67	2.67
	SECI (GREENKO SIRONJ WIND POWER PVT. LTD.)	WIND	Must Run	2.71	2.71	2.71
	Adani Solar	SOLAR	Must Run	2.72	2.72	2.72
	SBE RENEWABLES SIXTEEN PVT LTD	SOLAR	Must Run	2.72	2.72	2.72
	CANAL BANK SOLAR	SOLAR	Must Run	3.10	3.10	3.10
	Avada Clean	SOLAR	Must Run	3.11	3.11	3.11
	PTC (GREEN INFRA RENEWABLE ENERGY LIMITED)	WIND	Must Run	3.53	3.53	3.53
	PTC (OSTRO KUTCH WIND PRIVATE LIMITED)	WIND	Must Run	3.53	3.53	3.53
	PTC (MYTRAH VAYU SABARMATI PRIVATE LIMITED)	WIND	Must Run	3.53	3.53	3.53
	FLOATING SOLAR	SOLAR	Must Run	3.87	3.87	3.87
	Avada power eris pvt ltd	SOLAR	Must Run	4.16	4.16	4.16
	GREENKO ENERGY HYBRID	SOLAR	Must Run	4.57	4.57	4.57
	SECI (FOCAL)	SOLAR	Must Run	5.91	5.91	5.91
	RESPONCE RENEWABLE ENERGY PRIVATE LIMITED	SOLAR	Must Run	7.02	7.02	7.02
	GLATT SOLUTION PRIVATE LIMITED	SOLAR	Must Run	7.02	7.02	7.02
	SUNMARK ENERGY PROJECT LIMITED	SOLAR	Must Run	7.02	7.02	7.02
	TIRUPATI SUGAR LIMITED	SUGAR	Must Run	7.52	7.52	7.52
	HARINAGAR SUGAR MILL	SUGAR	Must Run	7.52	7.52	7.52
	HASANPUR SUGAR MILL	SUGAR	Must Run	7.52	7.52	7.52
	BHARAT SUGAR MILL	SUGAR	Must Run	7.52	7.52	7.52
	NEW SWADESHI SUGAR MILL	SUGAR	Must Run	7.52	7.52	7.52

SI N o	Particulars	Source	Mode of operation	Energy cost (Rs. /kWh)		
				FY 2025- 26	FY 2026- 27	FY 2027- 28
	AVANTIKA CONTRACTOR (I) PVT. LTD.	SOLAR	Must Run	7.69	7.69	7.69
	ALFA INFRA PROP PVT. LTD.	SOLAR	Must Run	7.96	7.96	7.96
	UDIPTA ENERGY AND EQUIPMENT PRIVATE LIMITED	SOLAR	Must Run	7.98	7.98	7.98
	BIHAR DISTILLERS AND BOTTLERS PRIVATE LIMITED	BIO MASS	Must Run	8.21	8.21	8.21
	SIDDHASHRAM RICE MILL CLUSTER PVT. LTD	BIO MASS	Must Run	8.21	8.21	8.21
	AZURE POWER ERIS PVT. LTD.	SOLAR	Must Run	8.39	8.39	8.39
	Welspun III	SOLAR	Must Run	8.56	8.56	8.56
	Welspun II	SOLAR	Must Run	8.64	8.64	8.64
	Welspun I	SOLAR	Must Run	8.69	8.69	8.69
	ACME (MAGADH)	SOLAR	Must Run	8.73	8.73	8.73
	ACME (NALANDA)	SOLAR	Must Run	8.73	8.73	8.73
C	Thermal					
	Jindal India Thermal Power Limited	THERM AL	Merit	1.20	1.24	1.28
	NTPC (Darlipalli)	THERM AL	Merit	1.27	1.30	1.34
	GMR Kamalanga Energy Limited	THERM AL	Merit	1.30	1.34	1.38
	NTPC (North Karanpura)	THERM AL	Merit	1.62	1.67	1.72
	NTPC North Karanpur Unit #3	THERM AL	Merit	1.62	1.67	1.72
	NTPC (Talchar)	THERM AL	Merit	1.89	1.94	2.00
	NTPC (Barauni-II)	THERM AL	Merit	2.52	2.60	2.68
	NTPC (Kahalgaun - II)	THERM AL	Merit	2.64	2.72	2.80
	NTPC (Kbunl-II)	THERM AL	Merit	2.70	2.78	2.86
	NTPC (Kahalgaun - I)	THERM AL	Merit	2.83	2.91	3.00
	Nabinagar Power Generation Company Limited	THERM AL	Merit	2.95	3.04	3.13
	NTPC(Barh-II)	THERM AL	Merit	3.10	3.20	3.29
	Bhartiya Rail Bijlee Company Limited	THERM AL	Merit	3.13	3.22	3.32
	NTPC(Barh-I)	THERM AL	Merit	3.16	3.26	3.35
	NTPC (Farakka - III)	THERM AL	Merit	3.39	3.49	3.60
	NTPC (Farakka - I & II)	THERM AL	Merit	3.44	3.54	3.64
	Buxar TPP Unit #1	THERM AL	Merit	3.48	3.59	3.69
	Buxar TPP Unit #2	THERM	Merit	3.48	3.59	3.69

S N o	Particulars	Source	Mode of operation	Energy cost (Rs. /kWh)		
				FY 2025-26	FY 2026-27	FY 2027-28
		AL				

The power availability and power purchase quantum from various sources for FY 2025-26 to 2027-28 has been worked out by the Commission, based on the PLF as well as by following MoD principle, as shown in the Table below.

Table 6.16: Power Purchase (MU) for NBPDC & SBPDCL FY 2025-26 as computed by Commission considering Merit Order

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	NBPDC share allocation (MW)	Avg PLF %	Power availability (MU)	SBPDCL (54%)	NBPDC (46%)	Energy cost (Rs./kWh)	SBPDCL		NBPDC	
										Percentage	MU	Percentage	MU
	Hydel	1,036.00	562.00	474.00		2,819.68	1,522.63	1,297.05			1,522.63		1,297.05
1	NHPC (Teesta)	107	58	49	59.50%	529.72	286.05	243.67	1.30	100.00%	286.05	100.00%	243.67
2	NHPC (Rangit)	23	12	11	61.90%	117.98	63.71	54.27	2.23	100.00%	63.71	100.00%	54.27
3	BSHPC	55.00	33	22	7.11%	61.87	33.41	28.46	2.49	100.00%	33.41	100.00%	28.46
4	PTC (Tala)	260	140	120	13.83%	303.85	164.08	139.77	2.53	100.00%	164.08	100.00%	139.77
5	PTC (Kuruchu)	4	2	2	4.96%	1.43	0.77	0.66	3.30	100.00%	0.77	100.00%	0.66
6	PTC (Chukha)	93	50	43	40.88%	321.61	173.67	147.94	3.39	100.00%	173.67	100.00%	147.94
7	PTC (Mangdechhu)	285	154	131	38.29%	920.35	496.99	423.36	4.67	100.00%	496.99	100.00%	423.36
8	PTC(Nepal)	209	113	96	85.00%	562.87	303.95	258.92	5.50	100.00%	303.95	100.00%	258.92
B	Renewables	3,605.00	1,943	1,662		6,354.02	3,431.17	2,922.85			3431.17		2922.85
1	Seci (Ostro Kannada Powerprivate Limited)	300.00	162	138	29.78%	754.84	407.61	347.22	2.18	100.00%	407.61	100.00%	347.22
2	Seci (Morjar Windfarms Pvt. Ltd.)	50.00	27	23	21.84%	92.26	49.82	42.44	2.19	100.00%	49.82	100.00%	42.44
3	Acme Deoghar/Acme Dhaulpur	150.00	81	69	21.84%	276.79	149.47	127.32	2.51	100.00%	149.47	100.00%	127.32
4	Acme Solar Jaiselmer	500.00	270	230	21.84%	922.63	498.22	424.41	2.51	100.00%	498.22	100.00%	424.41
5	Seci (Green Infra Wind Energy Pvt. Ltd.)	100.00	54	46	31.76%	268.34	144.90	123.44	2.51	100.00%	144.90	100.00%	123.44
6	Seci (Vivid Solaire Energy Pvt. Ltd.)	50.00	27	23	31.76%	134.71	72.74	61.97	2.52	100.00%	72.74	100.00%	61.97
7	Adani Green Energy	600.00	324	276	16.52%	69.79	37.69	32.10	2.52	100.00%	37.69	100.00%	32.10
8	Seci (Alfanar Energy Pvt. Ltd.)	50.00	27	23	31.76%	134.17	72.45	61.72	2.52	100.00%	72.45	100.00%	61.72
9	Seci (GRT Jewellers)	150.00	81	69	18.86%	239.02	129.07	109.95	2.60	100.00%	129.07	100.00%	109.95
10	Seci (Renew Sunwaves Private Limited)	300.00	162	138	27.97%	708.96	382.84	326.12	2.62	100.00%	382.84	100.00%	326.12
11	SB Energy Six Private Limited (Ntpc)	300.00	162	138	28.95%	733.80	396.25	337.55	2.67	100.00%	396.25	100.00%	337.55
12	Seci (Greenko Sironj Wind Power Pvt. Ltd.)	100.00	54	46	31.76%	268.34	144.90	123.44	2.71	100.00%	144.90	100.00%	123.44
13	Adani Solar	150.00	81	69	21.84%	276.79	149.47	127.32	2.72	100.00%	149.47	100.00%	127.32
14	Sbe Renewables Sixteen Pvt Ltd	180.00	97	83	21.84%	332.15	179.36	152.79	2.72	100.00%	179.36	100.00%	152.79
15	Canal Bank Solar	2.00	1	1	18.86%	3.30	1.78	1.52	3.10	100.00%	1.78	100.00%	1.52
16	Avada Clean	50.00	27	23	18.86%	82.61	44.61	38.00	3.11	100.00%	44.61	100.00%	38.00
17	Ptc (Green Infra Renewable Energy Limited)	50.00	27	23	31.76%	134.17	72.45	61.72	3.53	100.00%	72.45	100.00%	61.72

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	NBPDC share allocation (MW)	Avg PLF %	Power availailibity (MU)	SBPDCL (54%)	NBPDC (46%)	Energy cost (Rs./kWh)	SBPDCL		NBPDC	
										Percentage	MU	Percentage	MU
18	Ptc (Ostro Kutch Wind Private Limited)	50.00	27	23	31.76%	134.17	72.45	61.72	3.53	100.00%	72.45	100.00%	61.72
19	Ptc (Mytrah Vayu Sabarmati Private Limited)	50.00	27	23	31.76%	134.17	72.45	61.72	3.53	100.00%	72.45	100.00%	61.72
20	Floating Solar	10.00	5	5	18.86%	16.52	8.92	7.60	3.87	100.00%	8.92	100.00%	7.60
21	Avada Power Eris Pvt Ltd	50.00	27	23	18.86%	82.61	44.61	38.00	4.16	100.00%	44.61	100.00%	38.00
22	Greenko Energy Hybrid	210.00	113	97	14.54%	257.98	139.31	118.67	4.57	100.00%	139.31	100.00%	118.67
23	Seci (Focal)	10.00	5	5	21.84%	18.45	9.96	8.49	5.91	100.00%	9.96	100.00%	8.49
24	Responce Renewable Energy Private Limited	10.00	5	5	18.86%	15.93	8.60	7.33	7.02	100.00%	8.60	100.00%	7.33
25	Glatt Solution Private Limited	3.00	2	1	18.86%	4.96	2.68	2.28	7.02	100.00%	2.68	100.00%	2.28
26	Sunmark Energy Project Limited	10.00	5	5	18.86%	16.52	8.92	7.60	7.02	100.00%	8.92	100.00%	7.60
27	Tirupati Sugar Limited	6.00	3	3	54.59%	26.25	14.18	12.08	7.52	100.00%	14.18	100.00%	12.08
28	Hasanpur Sugar Mill	10.00	5	5	50.33%	40.34	21.78	18.56	7.52	100.00%	21.78	100.00%	18.56
29	Avantika Contractor (I) Pvt. Ltd.	5.00	3	2	18.86%	8.26	4.46	3.80	7.69	100.00%	4.46	100.00%	3.80
30	Alfa Infra Prop Pvt. Ltd.	10.00	5	5	18.86%	16.52	8.92	7.60	7.96	100.00%	8.92	100.00%	7.60
31	Udipta Energy And Equipment Private Limited	5.00	3	2	18.86%	8.26	4.46	3.80	7.98	100.00%	4.46	100.00%	3.80
32	Bihar Distillers And Bottlers Private Limited	9.00	5	4	21.88%	16.49	8.90	7.58	8.21	100.00%	8.90	100.00%	7.58
33	Azure Power Eris Pvt. Ltd.	10.00	5	5	18.86%	16.52	8.92	7.60	8.39	100.00%	8.92	100.00%	7.60
34	Welspun III	15.00	8	7	18.86%	24.78	13.38	11.40	8.56	100.00%	13.38	100.00%	11.40
35	Welspun II	15.00	8	7	18.86%	24.78	13.38	11.40	8.64	100.00%	13.38	100.00%	11.40
36	Welspun I	10.00	5	5	18.86%	16.52	8.92	7.60	8.69	100.00%	8.92	100.00%	7.60
37	Acme (Magadh)	10.00	5	5	18.86%	16.52	8.92	7.60	8.73	100.00%	8.92	100.00%	7.60
38	Acme (Nalanda)	15.00	8	7	18.86%	24.78	13.38	11.40	8.73	100.00%	13.38	100.00%	11.40
C	Thermal	8,335.00	4,500.00	3,835.00		52,199.59	28,187.78	24,011.81			19,588.71		16,686.68
1	Jindal India Tharmal Power Limited	228.00	123	105	85.22%	1,702.00	919.08	782.92	1.20	100.00%	919.08	100.00%	782.92
2	NTPC (Darlipalli)	324	175	149	80.72%	2,286.96	1,234.96	1,052.00	1.27	100.00%	1234.96	100.00%	1052.00
3	GMR Kamalanga Energy Limited	260.00	140	120	87.03%	1,982.03	1,070.30	911.73	1.30	100.00%	1070.30	100.00%	911.73
4	NTPC (North Karanpura)	594	321	273	77.78%	4,044.47	2,184.01	1,860.46	1.62	100.00%	2184.01	100.00%	1860.46
5	NTPC North Karanpur Unit #3	297	160	137	77.77%	2,023.48	1,092.68	930.80	1.62	100.00%	1092.68	100.00%	930.80
6	NTPC (Talchar)	404	218	186	80.97%	2,865.00	1,547.10	1,317.90	1.89	100.00%	1547.10	100.00%	1317.90
7	NTPC (Barauni-II)	500.00	270	230	63.52%	2,782.35	1,502.47	1,279.88	2.52	85.91%	1290.13	85.91%	1099.00
8	NTPC (Kahalgaun - II)	63	34	29	76.92%	429.00	231.66	197.34	2.64	55.00%	127.41	55.00%	108.54
9	NTPC (Kbunl-II)	289	156	133	76.94%	1,948.43	1,052.15	896.28	2.70	55.00%	578.68	55.00%	492.95

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	NBPDC share allocation (MW)	Avg PLF %	Power availability (MU)	SBPDCL (54%)	NBPDC (46%)	Energy cost (Rs./kWh)	SBPDCL		NBPDC	
										Percentage	MU	Percentage	MU
10	NTPC (Kahalgau - I)	52	28	24	68.68%	309.95	167.37	142.58	2.83	55.00%	92.06	55.00%	78.42
11	Nabinagar Power Generation Company Limited	1,639	885	754	76.00%	10,915.00	5,894.10	5,020.90	2.95	55.00%	3241.76	55.00%	2761.50
12	NTPC(Barh-II)	802	433	369	91.43%	6,420.00	3,466.80	2,953.20	3.10	55.00%	1906.74	55.00%	1624.26
13	Bhartiya Rail Bijlee Company Limited	100	54	46	68.49%	599.95	323.97	275.98	3.13	55.00%	178.18	55.00%	151.79
14	NTPC(Barh-I)	1,153	623	530	62.57%	6,318.34	3,411.90	2,906.44	3.16	55.00%	1876.55	55.00%	1598.54
15	NTPC (Farakka - III)	98	53	45	62.89%	535.65	289.25	246.40	3.39	55.00%	159.09	55.00%	135.52
16	NTPC (Farakka - I & II)	410	221	189	62.89%	2,259.29	1,220.02	1,039.28	3.44	55.00%	671.01	55.00%	571.60
17	Buxar TPP Unit #1	561.00	303	258	77.77%	3,822.14	2,063.96	1,758.18	3.48	55.00%	1135.18	55.00%	967.00
18	Buxar TPP Unit #2	561.00	303	258	78.86%	955.54	515.99	439.55	3.48	55.00%	283.80	55.00%	241.75
	Total	12,976.00	7,005.00	5,971.00		61,373.28	33,141.58	28,231.71			24,542.51		20,906.57

Table 6.17: Power Purchase (MU) for NBPDC & SBPDCL FY 2026-27 as computed by Commission considering Merit Order

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	NBPDC share allocation (MW)	Avg PLF %	Power Procured (MU)	SBPDCL (54%)	NBPDC (46%)	ECR (Rs./kWh)	SBPDCL		NBPDC	
										Percentage	MU	Percentage	MU
	Hydel	1,036.00	562.00	474.00		2,811.92	1,518.44	1,293.48			1,518.44		1,293.48
1	NHPC (Teesta)	107	58	49	59.50%	519.97	280.79	239.19	1.37	100.00%	280.79	100.00%	239.19
2	NHPC (Rangit)	23	12	11	61.90%	119.98	64.79	55.19	2.35	100.00%	64.79	100.00%	55.19
3	BSHPC	55.00	33	22	7.11%	61.87	33.41	28.46	2.49	100.00%	33.41	100.00%	28.46
4	PTC (Tala)	260	140	120	13.83%	303.85	164.08	139.77	2.67	100.00%	164.08	100.00%	139.77
5	PTC (Kuruchu)	4	2	2	4.96%	1.43	0.77	0.66	3.49	100.00%	0.77	100.00%	0.66
6	PTC (Chukha)	93	50	43	40.88%	321.61	173.67	147.94	3.58	100.00%	173.67	100.00%	147.94
7	PTC (Mangdechhu)	285	154	131	38.29%	920.35	496.99	423.36	4.93	100.00%	496.99	100.00%	423.36
8	PTC (Nepal)	209	113	96	85.00%	562.86	303.95	258.92	5.50	100.00%	303.95	100.00%	258.92
B	Renewables	3,605.00	1,943	1,662		7,118.34	3,843.90	3,274.43			3843.90		3274.43

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	NBPDCCL share allocation (MW)	Avg PLF %	Power Procured (MU)	SBPDCL (54%)	NBPDCCL (46%)	ECR (Rs./kWh)	SBPDCL		NBPDCCL	
										Percentage	MU	Percentage	MU
1	Seci (Ostro Kannada Powerprivate Limited)	300.00	162	138	29.78%	754.84	407.61	347.22	2.18	100.00%	407.61	100.00%	347.22
2	Seci (Morjar Windfarms Pvt. Ltd.)	50.00	27	23	21.84%	92.26	49.82	42.44	2.19	100.00%	49.82	100.00%	42.44
3	Acme Deoghar/Acme Dhaulpur	150.00	81	69	21.84%	276.79	149.47	127.32	2.51	100.00%	149.47	100.00%	127.32
4	Acme Solar Jaiselmer	500.00	270	230	21.84%	922.63	498.22	424.41	2.51	100.00%	498.22	100.00%	424.41
5	Seci (Green Infra Wind Energy Pvt. Ltd.)	100.00	54	46	31.76%	268.34	144.90	123.44	2.51	100.00%	144.90	100.00%	123.44
6	Seci (Vivid Solaire Energy Pvt. Ltd.)	50.00	27	23	31.76%	134.71	72.74	61.97	2.52	100.00%	72.74	100.00%	61.97
7	Adani Green Energy	600.00	324	276	16.52%	837.47	452.23	385.23	2.52	100.00%	452.23	100.00%	385.23
8	Seci (Alfanar Energy Pvt. Ltd.)	50.00	27	23	31.76%	134.17	72.45	61.72	2.52	100.00%	72.45	100.00%	61.72
9	Seci (GRT Jewellers)	150.00	81	69	18.86%	239.02	129.07	109.95	2.60	100.00%	129.07	100.00%	109.95
10	Seci (Renew Sunwaves Private Limited)	300.00	162	138	27.97%	708.96	382.84	326.12	2.62	100.00%	382.84	100.00%	326.12
11	SB Energy Six Private Limited (Ntpc)	300.00	162	138	28.95%	733.80	396.25	337.55	2.67	100.00%	396.25	100.00%	337.55
12	Seci (Greenko Sironj Wind Power Pvt. Ltd.)	100.00	54	46	31.76%	268.34	144.90	123.44	2.71	100.00%	144.90	100.00%	123.44
13	Adani Solar	150.00	81	69	21.84%	276.79	149.47	127.32	2.72	100.00%	149.47	100.00%	127.32
14	Sbe Renewables Sixteen Pvt Ltd	180.00	97	83	21.84%	332.15	179.36	152.79	2.72	100.00%	179.36	100.00%	152.79
15	Canal Bank Solar	2.00	1	1	18.86%	3.30	1.78	1.52	3.10	100.00%	1.78	100.00%	1.52
16	Avada Clean	50.00	27	23	18.86%	82.61	44.61	38.00	3.11	100.00%	44.61	100.00%	38.00
17	Ptc (Green Infra Renewable Energy Limited)	50.00	27	23	31.76%	134.17	72.45	61.72	3.53	100.00%	72.45	100.00%	61.72
18	Ptc (Ostro Kutch Wind Private Limited)	50.00	27	23	31.76%	134.17	72.45	61.72	3.53	100.00%	72.45	100.00%	61.72
19	Ptc (Mytrah Vayu Sabarmati Private Limited)	50.00	27	23	31.76%	134.17	72.45	61.72	3.53	100.00%	72.45	100.00%	61.72
20	Floating Solar	10.00	5	5	18.86%	16.52	8.92	7.60	3.87	100.00%	8.92	100.00%	7.60
21	Avada Power Eris Pvt Ltd	50.00	27	23	18.86%	82.61	44.61	38.00	4.16	100.00%	44.61	100.00%	38.00
22	Greenko Energy Hybrid	210.00	113	97	14.54%	257.98	139.31	118.67	4.57	100.00%	139.31	100.00%	118.67
23	Seci (Focal)	10.00	5	5	21.84%	18.45	9.96	8.49	5.91	100.00%	9.96	100.00%	8.49
24	Responce Renewable Energy Private Limited	10.00	5	5	18.86%	15.93	8.60	7.33	7.02	100.00%	8.60	100.00%	7.33
25	Glatt Solution Private Limited	3.00	2	1	18.86%	4.96	2.68	2.28	7.02	100.00%	2.68	100.00%	2.28
26	Sunmark Energy Project Limited	10.00	5	5	18.86%	16.52	8.92	7.60	7.02	100.00%	8.92	100.00%	7.60
27	Tirupati Sugar Limited	6.00	3	3	54.59%	26.25	14.18	12.08	7.52	100.00%	14.18	100.00%	12.08
28	Hasanpur Sugar Mill	10.00	5	5	50.33%	36.98	19.97	17.01	7.52	100.00%	19.97	100.00%	17.01
29	Avantika Contractor (I) Pvt. Ltd.	5.00	3	2	18.86%	8.26	4.46	3.80	7.69	100.00%	4.46	100.00%	3.80
30	Alfa Infra Prop Pvt. Ltd.	10.00	5	5	18.86%	16.52	8.92	7.60	7.96	100.00%	8.92	100.00%	7.60
31	Udipta Energy And Equipment Private Limited	5.00	3	2	18.86%	8.26	4.46	3.80	7.98	100.00%	4.46	100.00%	3.80

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	NBPDCCL share allocation (MW)	Avg PLF %	Power Procured (MU)	SBPDCL (54%)	NBPDCCL (46%)	ECR (Rs./kWh)	SBPDCL		NBPDCCL	
										Percentage	MU	Percentage	MU
32	Bihar Distillers And Bottlers Private Limited	9.00	5	4	21.88%	16.49	8.90	7.58	8.21	100.00%	8.90	100.00%	7.58
33	Azure Power Eris Pvt. Ltd.	10.00	5	5	18.86%	16.52	8.92	7.60	8.39	100.00%	8.92	100.00%	7.60
34	Welspun III	15.00	8	7	18.86%	24.78	13.38	11.40	8.56	100.00%	13.38	100.00%	11.40
35	Welspun II	15.00	8	7	18.86%	24.78	13.38	11.40	8.64	100.00%	13.38	100.00%	11.40
36	Welspun I	10.00	5	5	18.86%	16.52	8.92	7.60	8.69	100.00%	8.92	100.00%	7.60
37	Acme (Magadh)	10.00	5	5	18.86%	16.52	8.92	7.60	8.73	100.00%	8.92	100.00%	7.60
38	Acme (Nalanda)	15.00	8	7	18.86%	24.78	13.38	11.40	8.73	100.00%	13.38	100.00%	11.40
C	Thermal	8,335.00	4,500.00	3,835.00		52,199.59	28,187.78	24,011.81	47.08		20873.57		17781.19
1	Jindal India Thermal Power Limited	228.00	123	105	85.22%	1,702.00	919.08	782.92	1.24	100.00%	919.08	100.00%	782.92
2	NTPC (Darlipalli)	324	175	149	80.72%	2,286.96	1,234.96	1,052.00	1.30	100.00%	1234.96	100.00%	1052.00
3	GMR Kamalanga Energy Limited	260.00	140	120	87.03%	1,982.03	1,070.30	911.73	1.34	100.00%	1070.30	100.00%	911.73
4	NTPC (North Karanpura)	594	321	273	77.78%	4,044.47	2,184.01	1,860.46	1.67	100.00%	2184.01	100.00%	1860.46
5	NTPC North Karanpur Unit #3	297	160	137	77.77%	2,023.48	1,092.68	930.80	1.67	100.00%	1092.68	100.00%	930.80
6	NTPC (Talchar)	404	218	186	80.97%	2,865.00	1,547.10	1,317.90	1.94	100.00%	1547.10	100.00%	1317.90
7	NTPC (Barauni-II)	500.00	270	230	63.52%	2,782.35	1,502.47	1,279.88	2.60	100.00%	1502.47	100.00%	1279.88
8	NTPC (Kahalgaun - II)	63	34	29	76.92%	429.00	231.66	197.34	2.72	100.00%	231.66	100.00%	197.34
9	NTPC (Kbunl-II)	289	156	133	76.94%	1,948.43	1,052.15	896.28	2.78	100.00%	1052.15	100.00%	896.28
10	NTPC (Kahalgaun - I)	52	28	24	68.68%	309.95	167.37	142.58	2.91	100.00%	167.37	100.00%	142.58
11	Nabinagar Power Generation Company Limited	1,639	885	754	76.00%	10,915.00	5,894.10	5,020.90	3.04	62.13%	3661.24	62.13%	3118.84
12	NTPC(Barh-II)	802	433	369	91.43%	6,420.00	3,466.80	2,953.20	3.20	55.00%	1906.74	55.00%	1624.26
13	Bhartiya Rail Bijlee Company Limited	100	54	46	68.49%	599.95	323.97	275.98	3.22	55.00%	178.18	55.00%	151.79
14	NTPC(Barh-I)	1,153	623	530	62.57%	6,318.34	3,411.90	2,906.44	3.26	55.00%	1876.55	55.00%	1598.54
15	NTPC (Farakka - III)	98	53	45	62.89%	535.65	289.25	246.40	3.49	55.00%	159.09	55.00%	135.52
16	NTPC (Farakka - I & II)	410	221	189	62.89%	2,259.29	1,220.02	1,039.28	3.54	55.00%	671.01	55.00%	571.60
17	Buxar TPP Unit #1	561.00	303	258	77.77%	3,822.14	2,063.96	1,758.18	3.59	55.00%	1135.18	55.00%	967.00
18	Buxar TPP Unit #2	561.00	303	258	78.86%	955.54	515.99	439.55	3.59	55.00%	283.80	55.00%	241.75
	Total	12,976.00	7,005.00	5,971.00		62,129.84	33,550.11	28,579.73			26235.91		22,349.10

Table 6.18: Power Purchase (MU) for NBPDC & SBPDCL FY 2027-28 as computed by Commission considering Merit Order

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	NBPDC share allocation (MW)	Avg PLF %	Power Procured (MU)	SBPDCL (54%)	NBPDC (46%)	ECR (Rs./kWh)	SBPDCL		NBPDC	
										Percentage	MU	Percentage	MU
	Hydel	1,036.00	562.00	474.00		2,804.30	1,514.93	1,290.50	27.40		1,514.93		1,290.50
1	NHPC (Teesta)	107	58	49	59.50%	514.73	277.96	236.78	1.44	100.00%	277.96	100.00%	236.78
2	NHPC (Rangit)	23	12	11	61.90%	118.73	64.11	54.62	2.49	100.00%	64.11	100.00%	54.62
3	BSHPC	55.00	33	22	7.11%	60.73	33.41	28.46	2.49	100.00%	33.41	100.00%	28.46
4	PTC (Tala)	260	140	120	13.83%	303.85	164.08	139.77	2.82	100.00%	164.08	100.00%	139.77
5	PTC (Kuruchu)	4	2	2	4.96%	1.43	0.77	0.66	3.68	100.00%	0.77	100.00%	0.66
6	PTC (Chukha)	93	50	43	40.88%	321.61	173.67	147.94	3.78	100.00%	173.67	100.00%	147.94
7	PTC (Mangdechhu)	285	154	131	38.29%	920.35	496.99	423.36	5.20	100.00%	496.99	100.00%	423.36
8	PTC(Nepal)	209	113	96	85.00%	562.86	303.95	258.92	5.50	100.00%	303.95	100.00%	258.92
B	Renewables	3,595.00	1,937	1,658		7,081.36	3,823.93	3,257.42			3823.93		3257.42
1	Seci (Ostro Kannada Powerprivate Limited)	300.00	162	138	29.78%	754.84	407.61	347.22	2.18	100.00%	407.61	100.00%	347.22
2	Seci (Morjar Windfarms Pvt. Ltd.)	50.00	27	23	21.84%	92.26	49.82	42.44	2.19	100.00%	49.82	100.00%	42.44
3	Acme Deoghar/Acme Dhaulpur	150.00	81	69	21.84%	276.79	149.47	127.32	2.51	100.00%	149.47	100.00%	127.32
4	Acme Solar Jaiselmer	500.00	270	230	21.84%	922.63	498.22	424.41	2.51	100.00%	498.22	100.00%	424.41
5	Seci (Green Infra Wind Energy Pvt. Ltd.)	100.00	54	46	31.76%	268.34	144.90	123.44	2.51	100.00%	144.90	100.00%	123.44
6	Seci (Vivid Solaire Energy Pvt. Ltd.)	50.00	27	23	31.76%	134.71	72.74	61.97	2.52	100.00%	72.74	100.00%	61.97
7	Adani Green Energy	600.00	324	276	16.52%	837.47	452.23	385.23	2.52	100.00%	452.23	100.00%	385.23
8	Seci (Alfanar Energy Pvt. Ltd.)	50.00	27	23	31.76%	134.17	72.45	61.72	2.52	100.00%	72.45	100.00%	61.72
9	Seci (GRT Jewellers)	150.00	81	69	18.86%	239.02	129.07	109.95	2.60	100.00%	129.07	100.00%	109.95
10	Seci (Renew Sunwaves Private Limited)	300.00	162	138	27.97%	708.96	382.84	326.12	2.62	100.00%	382.84	100.00%	326.12
11	SB Energy Six Private Limited (Ntpc)	300.00	162	138	28.95%	733.80	396.25	337.55	2.67	100.00%	396.25	100.00%	337.55
12	Seci (Greenko Sironj Wind Power Pvt. Ltd.)	100.00	54	46	31.76%	268.34	144.90	123.44	2.71	100.00%	144.90	100.00%	123.44
13	Adani Solar	150.00	81	69	21.84%	276.79	149.47	127.32	2.72	100.00%	149.47	100.00%	127.32
14	Sbe Renewables Sixteen Pvt Ltd	180.00	97	83	21.84%	332.15	179.36	152.79	2.72	100.00%	179.36	100.00%	152.79
15	Canal Bank Solar	2.00	1	1	18.86%	3.30	1.78	1.52	3.10	100.00%	1.78	100.00%	1.52
16	Avada Clean	50.00	27	23	18.86%	82.61	44.61	38.00	3.11	100.00%	44.61	100.00%	38.00
17	Ptc (Green Infra Renewable Energy Limited)	50.00	27	23	31.76%	134.17	72.45	61.72	3.53	100.00%	72.45	100.00%	61.72

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	NBPDC share allocation (MW)	Avg PLF %	Power Procured (MU)	SBPDCL (54%)	NBPDC (46%)	ECR (Rs./kWh)	SBPDCL		NBPDC	
										Percentage	MU	Percentage	MU
18	Ptc (Ostro Kutch Wind Private Limited)	50.00	27	23	31.76%	134.17	72.45	61.72	3.53	100.00%	72.45	100.00%	61.72
19	Ptc (Mytrah Vayu Sabarmati Private Limited)	50.00	27	23	31.76%	134.17	72.45	61.72	3.53	100.00%	72.45	100.00%	61.72
20	Floating Solar	10.00	5	5	18.86%	16.52	8.92	7.60	3.87	100.00%	8.92	100.00%	7.60
21	Avada Power Eris Pvt Ltd	50.00	27	23	18.86%	82.61	44.61	38.00	4.16	100.00%	44.61	100.00%	38.00
22	Greenko Energy Hybrid	210.00	113	97	14.54%	257.98	139.31	118.67	4.57	100.00%	139.31	100.00%	118.67
23	Seci (Focal)	10.00	5	5	21.84%	18.45	9.96	8.49	5.91	100.00%	9.96	100.00%	8.49
24	Responce Renewable Energy Private Limited	10.00	5	5	18.86%	15.93	8.60	7.33	7.02	100.00%	8.60	100.00%	7.33
25	Glatt Solution Private Limited	3.00	2	1	18.86%	4.96	2.68	2.28	7.02	100.00%	2.68	100.00%	2.28
26	Sunmark Energy Project Limited	10.00	5	5	18.86%	16.52	8.92	7.60	7.02	100.00%	8.92	100.00%	7.60
27	Tirupati Sugar Limited	6.00	3	3	54.59%	26.25	14.18	12.08	7.52	100.00%	14.18	100.00%	12.08
29	Avantika Contractor (I) Pvt. Ltd.	5.00	3	2	18.86%	8.26	4.46	3.80	7.69	100.00%	4.46	100.00%	3.80
30	Alfa Infra Prop Pvt. Ltd.	10.00	5	5	18.86%	16.52	8.92	7.60	7.96	100.00%	8.92	100.00%	7.60
31	Udipta Energy And Equipment Private Limited	5.00	3	2	18.86%	8.26	4.46	3.80	7.98	100.00%	4.46	100.00%	3.80
32	Bihar Distillers And Bottlers Private Limited	9.00	5	4	21.88%	16.49	8.90	7.58	8.21	100.00%	8.90	100.00%	7.58
33	Azure Power Eris Pvt. Ltd.	10.00	5	5	18.86%	16.52	8.92	7.60	8.39	100.00%	8.92	100.00%	7.60
34	Welspun III	15.00	8	7	18.86%	24.78	13.38	11.40	8.56	100.00%	13.38	100.00%	11.40
35	Welspun II	15.00	8	7	18.86%	24.78	13.38	11.40	8.64	100.00%	13.38	100.00%	11.40
36	Welspun I	10.00	5	5	18.86%	16.52	8.92	7.60	8.69	100.00%	8.92	100.00%	7.60
37	Acme (Magadh)	10.00	5	5	18.86%	16.52	8.92	7.60	8.73	100.00%	8.92	100.00%	7.60
38	Acme (Nalanda)	15.00	8	7	18.86%	24.78	13.38	11.40	8.73	100.00%	13.38	100.00%	11.40
C	Thermal	8,335.00	4,500.00	3,835.00		52,199.59	28,187.78	24,011.81			22854.23		19468.42
1	Jindal India Thermal Power Limited	228.00	123	105	85.22%	1,702.00	919.08	782.92	1.28	100.00%	919.08	100.00%	782.92
2	NTPC (Darlipalli)	324	175	149	80.72%	2,286.96	1,234.96	1,052.00	1.34	100.00%	1234.96	100.00%	1052.00
3	GMR Kamalanga Energy Limited	260.00	140	120	87.03%	1,982.03	1,070.30	911.73	1.38	100.00%	1070.30	100.00%	911.73
4	NTPC (North Karanpura)	594	321	273	77.78%	4,044.47	2,184.01	1,860.46	1.72	100.00%	2184.01	100.00%	1860.46
5	NTPC North Karanpur Unit #3	297	160	137	77.77%	2,023.48	1,092.68	930.80	1.72	100.00%	1092.68	100.00%	930.80
6	NTPC (Talchar)	404	218	186	80.97%	2,865.00	1,547.10	1,317.90	2.00	100.00%	1547.10	100.00%	1317.90
7	NTPC (Barauni-II)	500.00	270	230	63.52%	2,782.35	1,502.47	1,279.88	2.68	100.00%	1502.47	100.00%	1279.88
8	NTPC (Kahalgau - II)	63	34	29	76.92%	429.00	231.66	197.34	2.80	100.00%	231.66	100.00%	197.34
9	NTPC (Kbunl-II)	289	156	133	76.94%	1,948.43	1,052.15	896.28	2.86	100.00%	1052.15	100.00%	896.28
10	NTPC (Kahalgau - I)	52	28	24	68.68%	309.95	167.37	142.58	3.00	100.00%	167.37	100.00%	142.58

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	NBPDC share allocation (MW)	Avg PLF %	Power Procured (MU)	SBPDCL (54%)	NBPDC (46%)	ECR (Rs./kWh)	SBPDCL		NBPDC	
										Percentage	MU	Percentage	MU
11	Nabinagar Power Generation Company Limited	1,639	885	754	76.00%	10,915.00	5,894.10	5,020.90	3.13	95.73%	5641.91	95.73%	4806.07
12	NTPC(Barh-II)	802	433	369	91.43%	6,420.00	3,466.80	2,953.20	3.29	55.00%	1906.74	55.00%	1624.26
13	Bhartiya Rail Bijlee Company Limited	100	54	46	68.49%	599.95	323.97	275.98	3.32	55.00%	178.18	55.00%	151.79
14	NTPC(Barh-I)	1,153	623	530	62.57%	6,318.34	3,411.90	2,906.44	3.35	55.00%	1876.55	55.00%	1598.54
15	NTPC (Farakka - III)	98	53	45	62.89%	535.65	289.25	246.40	3.60	55.00%	159.09	55.00%	135.52
16	NTPC (Farakka - I & II)	410	221	189	62.89%	2,259.29	1,220.02	1,039.28	3.64	55.00%	671.01	55.00%	571.60
17	Buxar TPP Unit #1	561.00	303	258	77.77%	3,822.14	2,063.96	1,758.18	3.69	55.00%	1135.18	55.00%	967.00
18	Buxar TPP Unit #2	561.00	303	258	78.86%	955.54	515.99	439.55	3.69	55.00%	283.80	55.00%	241.75
	Total	12,966.00	6,999.00	5,967.00		62,086.37	33,526.64	28,559.73			28193.10		24016.34

Note 1: The above MOD List is based on the projected average energy cost (Rs/kWh). However, in case of any variation in energy cost the revised merit list may be prepared and be followed while scheduling power from these sources.

2: While analyzing the power purchase requirement of the petitioner vis-a vis expected availability from different sources, the Commission has taken the estimated availability of power from different sources on the basis of certain assumptions as per available data. In this connection it is clarified that in case the availability of power drops due to any reason at any time, then for matching the requirement of providing 24X7 power to all, the Petitioners may exercise the possibility of short-term procurement from available options including purchase from exchanges by following the least cost method approach. Here it is also clarified that for any such procurement other than that from power exchange(s) prior approval of the Commission shall be necessary.

3: The details of energy balance is provided in the next Chapter, which deals with ARR.

4. The Commission directs the Petitioners to submit the Power Procurement Plan for FY 2026-27, well in advance before next tariff filing, in accordance with the BERCL (Power Purchase & Procurement Process of Licensee) Regulations, 2018.

6.6 Power Purchase Cost Projection:

Petitioner's Submission

The power purchase cost comprises of fixed charges and energy charges for two-part tariff based stations i.e., NTPC, NHPC & PTC. The Petitioner has considered an escalation of 6.67% and 5.57% escalation on the previous year i.e. on the FY 2024-25 fixed charges and energy charges respectively for these power stations. The Petitioner observed that the fixed and energy charges have increased at a CAGR of 6.67% and 5.57% respectively over the last three years (i.e. FY 2023-24, FY 2023-22 & FY 2022-21), and therefore the Petitioners have accordingly projected the power purchase cost for the control period FY 2025-26 to FY 2027-28.

For Renewable Energy projects, the energy cost for the control period is considered as per approved the levelized tariff approved by the Commission. For BSHPCCL the tariff considered is INR 2.49/unit as per the last tariff order approved by the Commission For Sugar and Biomass based projects, the tariff has been kept as per the levelized tariff approved the Commission for FY 2024-25. Transmission charges have been escalated at a rate of 10% on year on year basis.

Table 6.19: Detailed projected power purchase costs for FY 2025-26 (in INR Crore) (NBPDC)

Sr No	Particulars	FY 2025-26					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost	Variable Cost	Total cost	Avg. Cost (Rs./Unit)
I	Stations with injection at CTU	3,313.66	14,899.50	3,316.89	4,224.67	7,541.56	5.06
1	NTPC(BARH-I)	530.28	1,541.79	496.29	549.94	1,046.22	6.79
2	NTPC(BARH-II)	368.71	1,070.25	277.69	402.47	680.16	6.36
3	NTPC (DARLIPALLI)	148.77	957.60	178.67	124.75	303.42	3.17
4	NTPC (FARAKKA - I & II)	188.65	551.31	68.48	208.66	277.13	5.03
5	NTPC (FARAKKA - III)	44.73	130.71	28.39	46.52	74.91	5.73
6	NTPC (KAHALGAUN - I)	23.70	75.63	10.18	26.42	36.60	4.84
7	NTPC (KAHALGAUN - II)	29.29	93.47	9.12	30.41	39.53	4.23
8	NTPC (NORTH KARANPURA)	273.07	1,794.41	459.37	297.25	756.62	4.22
9	NTPC (TALCHAR)	185.79	1,220.01	129.72	245.11	374.83	3.07
10	NTPC (KBUNL-II)	132.97	433.85	125.48	138.50	263.98	6.08
11	NTPC NORTH KARANPUR UNIT #3	136.62	897.76	229.83	148.72	378.54	4.22
16	NABINAGAR POWER GENERATION COMPANY LIMITED	754.20	4,717.72	1,223.16	1,487.90	2,711.06	5.75
17	BHARTIYA RAIL BIJLEE COMPANY LIMITED	46.00	146.40	40.32	48.57	88.89	6.07
18	NHPC (RANGIT)	10.59	54.27	13.27	12.10	25.38	4.68
19	NHPC (TEESTA)	49.22	243.67	26.93	31.56	58.49	2.40
20	PTC (TALA)	119.65	139.77	-	35.36	35.36	2.53
21	PTC (CHUKHA)	42.83	147.94	-	50.12	50.12	3.39
22	PTC (MANGDECHHU)	130.88	423.36	-	197.70	197.70	4.67
23	PTC(KURUCHU)	1.57	0.66	-	0.22	0.22	3.30
23	PTC(NEPAL)	96.14	258.92	-	142.40	142.40	5.50
II	Stations with injection at STU	771.24	2,093.74	599.56	702.95	1,302.50	6.22
1	NTPC (BARAUNI-I)	-	-	-	-	-	-
2	NTPC (BARAUNI-II)	230.00	856.53	210.47	264.71	475.19	5.55

Sr No	Particulars	FY 2025-26					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost	Variable Cost	Total cost	Avg. Cost (Rs./Unit)
12	BUXAR TPP UNIT #1	258.06	967.00	311.27	344.92	656.19	6.79
13	BUXAR TPP UNIT #2	258.06	241.75	77.82	86.23	164.05	6.79
3	EAST GANDAK H.E.PROJECT, VALMIKINAGAR	6.90	7.82	-	1.95	1.95	2.49
4	TRIVENI S.H. PROJECT, TRIVENI (VALMIKINAGAR)	1.38	1.56	-	0.39	0.39	2.49
5	SONE EASTERN H.E. PROJECT, BARUN	1.52	1.72	-	0.43	0.43	2.49
6	SONE WESTERN H.E. PROJECT, DEHRI-ON-SONE	3.04	3.44	-	0.86	0.86	2.49
7	SONE WESTERN H.E. PROJECT, KOSI	8.97	10.16	-	2.53	2.53	2.49
8	AGNOOR S.H. PROJECT, AGNOOR	0.46	0.52	-	0.13	0.13	2.49
9	DHELABAGH S.H.PROJECT, DHELABAGH	0.46	0.52	-	0.13	0.13	2.49
10	NASHRIGANJ S H.PROJECT, NASHRIGANJ	0.46	0.52	-	0.13	0.13	2.49
11	JAINAGRAH S.H.PROJECT, JAINAGRAH	0.46	0.52	-	0.13	0.13	2.49
12	SRIKHINDA S.H. PROJECT, SRIKHINDA	0.32	0.36	-	0.09	0.09	2.49
13	SEBARI S.H.PROJECT, SEBARI	0.46	0.52	-	0.13	0.13	2.49
14	ARWAL S.H.PROJECT, ARWAL	0.23	0.26	-	0.06	0.06	2.49
15	BELSAR S.H.PROJECT, BELSAR	0.46	0.52	-	0.13	0.13	2.49
III	IPPs	224.47	1,475.05	388.27	191.02	579.29	3.93
1	GMR KAMALANGA ENERGY LIMITED	119.59	785.86	155.31	104.86	260.17	3.31
2	JINDAL INDIA THARMAL POWER LIMITED	104.88	689.19	232.96	86.16	319.12	4.63
IV	Renewables	1,660.88	2,922.85	-	865.85	865.85	2.96
1	TIRUPATI SUGAR LIMITED	2.76	12.08	-	9.08	9.08	7.52
2	HARINAGAR SUGAR MILL	-	-	-	-	-	-
3	HASANPUR SUGAR MILL	4.60	18.56	-	13.95	13.95	7.52
4	BHARAT SUGAR MILL	-	-	-	-	-	-
5	HPCL BIOFUELS LIMITED, SUGAULI	-	-	-	-	-	-

Sr No	Particulars	FY 2025-26					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost	Variable Cost	Total cost	Avg. Cost (Rs./Unit)
6	HPCL BIOFUELS LIMITED, LAURIYA	-	-	-	-	-	-
7	NEW SWADESHI SUGAR MILL	-	-	-	-	-	-
8	RIGA SUGAR COMPANY LIMITED	1.38	-	-	-	-	-
9	BIHAR DISTILLERS AND BOTTLERS PRIVATE LIMITED	4.32	7.58	-	6.23	6.23	8.21
10	SIDDHASHRAM RICE MILL CLUSTER PVT. LTD	0.92	-	-	-	-	-
11	GLATT SOLUTION PRIVATE LIMITED	1.38	2.28	-	1.60	1.60	7.02
12	SECI (FOCAL)	4.60	8.49	-	5.02	5.02	5.91
13	SECI (VIVID SOLAIRE ENERGY PVT. LTD.)	23.09	61.97	-	15.61	15.61	2.52
14	SECI (GREEN INFRA WIND ENERGY PVT. LTD.)	46.00	123.44	-	30.98	30.98	2.51
15	SECI (Morjar Windfarms Pvt. Ltd.)	23.00	42.44	-	9.27	9.27	2.19
16	SECI (GREENKO SIRONJ WIND POWER PVT. LTD.)	46.00	123.44	-	33.45	33.45	2.71
17	PTC (OSTRO KUTCH WIND PRIVATE LIMITED)	23.00	61.72	-	21.79	21.79	3.53
18	PTC (GREEN INFRA RENEWABLE ENERGY LIMITED)	23.00	61.72	-	21.79	21.79	3.53
19	PTC (MYTRAH VAYU SABARMATI PRIVATE LIMITED)	23.00	61.72	-	21.79	21.79	3.53
20	SECI (ALFANAR ENERGY PVT. LTD.)	23.00	61.72	-	15.55	15.55	2.52
21	SECI (OSTRO KANNADA POWERPRIVATE LIMITED)	138.00	347.22	-	75.87	75.87	2.18
22	SB ENERGY SIX PRIVATE LIMITED (NTPC)	138.00	337.55	-	90.12	90.12	2.67
23	RESPONCE RENEWABLE ENERGY PRIVATE LIMITED	4.60	7.33	-	5.15	5.15	7.02
24	ALFA INFRA PROP PVT. LTD.	4.60	7.60	-	6.05	6.05	7.96
25	SECI (RENEW SUNWAVES PRIVATE LIMITED)	138.00	326.12	-	85.44	85.44	2.62
26	SECI (GRT Jewellers)	69.00	109.95	-	28.59	28.59	2.60
27	AVANTIKA CONTRACTOR (I) PVT. LTD.	2.30	3.80	-	2.92	2.92	7.69
28	WELSPUN I	4.60	7.60	-	6.61	6.61	8.69
29	WELSPUN II	6.90	11.40	-	9.85	9.85	8.64
30	WELSPUN III	6.90	11.40	-	9.76	9.76	8.56
31	UDIPTA ENERGY AND EQUIPMENT PRIVATE LIMITED	2.30	3.80	-	3.03	3.03	7.98

Sr No	Particulars	FY 2025-26					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost	Variable Cost	Total cost	Avg. Cost (Rs./Unit)
32	SUNMARK ENERGY PROJECT LIMITED	4.60	7.60	-	5.34	5.34	7.02
33	ACME (MAGADH)	4.60	7.60	-	6.63	6.63	8.73
34	ACME (NALANDA)	6.90	11.40	-	9.95	9.95	8.73
35	AZURE POWER ERIS PVT. LTD.	4.60	7.60	-	6.38	6.38	8.39
36	AVADA POWER ERIS PVT LTD	23.00	38.00	-	15.81	15.81	4.16
37	ADANI SOLAR	69.00	127.32	-	34.63	34.63	2.72
38	AVADA CLEAN	23.00	38.00	-	11.82	11.82	3.11
39	ACME DEOGHAR/ACME DHAULPUR	69.00	127.32	-	31.96	31.96	2.51
40	SBE RENEWABLES SIXTEEN PVT LTD	82.80	152.79	-	41.56	41.56	2.72
41	ADANI GREEN ENERGY	276.00	32.10	-	8.09	8.09	2.52
42	GREENKO ENERGY HYBRID	96.60	118.67	-	54.23	54.23	4.57
43	FLOATING SOLAR	4.60	7.60	-	2.94	2.94	3.87
44	CANAL BANK SOLAR	0.92	1.52	-	0.47	0.47	3.10
45	ACME SOLAR JAISELMER	230.00	424.41	-	106.53	106.53	2.51
	Transmission Charges			1,915.02		1,915.02	
1	PGCIL			1,140.13		1,140.13	
2	BSPTCL (including SLDC)			651.06		651.06	
3	BGCL			118.02		118.02	
4	ERLDC (POSOCO)			5.80		5.80	
	Total	5,970.24	21,391.14	6,219.74	5,984.49	12,204.23	5.71

Table 6.20: Detailed projected power purchase costs for FY 2026-27 (in INR Crore) (NBPDC)

S. No.	Particulars	FY 2026-27					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost	Variable Cost	Total cost	Avg. Cost (Rs./Unit)
I	Stations with injection at CTU	3,313.66	15,299.82	3,649.08	4,589.53	8,238.61	5.38
1	NTPC(BARH-I)	530.28	1,570.94	539.60	591.54	1,131.14	7.20
2	NTPC(BARH-II)	368.71	1,072.68	297.00	425.86	722.85	6.74
3	NTPC (DARLIPALLI)	148.77	957.60	190.65	131.70	322.36	3.37
4	NTPC (FARAKKA - I & II)	188.65	557.55	73.90	222.77	296.67	5.32
5	NTPC (FARAKKA - III)	44.73	132.19	30.63	49.67	80.30	6.08
6	NTPC (KAHALGAUN - I)	23.70	77.75	11.17	28.67	39.84	5.12
7	NTPC (KAHALGAUN - II)	29.29	159.56	16.62	54.81	71.43	4.48
8	NTPC (NORTH KARANPURA)	273.07	1,794.41	490.19	313.80	804.00	4.48
9	NTPC (TALCHAR)	185.79	1,224.66	138.95	259.75	398.70	3.26
10	NTPC (KBUNL-II)	132.97	733.08	226.25	247.05	473.30	6.46
11	NTPC NORTH KARANPUR UNIT #3	136.62	897.76	245.25	157.00	402.25	4.48
16	NABINAGAR POWER GENERATION COMPANY LIMITED	754.20	4,706.33	1,302.09	1,566.98	2,869.06	6.10
17	BHARTIYA RAIL BIJLEE COMPANY LIMITED	46.00	150.29	44.17	52.64	96.81	6.44
18	NHPC (RANGIT)	10.59	55.19	14.41	13.00	27.40	4.96
19	NHPC (TEESTA)	49.22	239.19	28.21	32.70	60.91	2.55
20	PTC (TALA)	119.65	139.77	-	37.33	37.33	2.67
21	PTC (CHUKHA)	42.83	147.94	-	52.92	52.92	3.58
22	PTC (MANGDECHHU)	130.88	423.36	-	208.71	208.71	4.93
23	PTC(KURUCHU)	1.57	0.66	-	0.23	0.23	3.49
23	PTC (NEPAL)	96.14	258.92	-	142.40	142.40	5.50
II	Stations with injection at STU	771.24	2,965.17	927.23	1,062.49	1,989.73	6.71
1	NTPC (BARAUNI-I)	-	-	-	-	-	-
2	NTPC (BARAUNI-II)	230.00	1,002.70	262.93	327.15	590.08	5.88

S. No.	Particulars	FY 2026-27					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost	Variable Cost	Total cost	Avg. Cost (Rs./Unit)
12	BUXAR TPP UNIT #1	258.06	967.00	332.15	364.13	696.28	7.20
13	BUXAR TPP UNIT #2	258.06	967.00	332.15	364.13	696.28	7.20
3	EAST GANDAK H.E. PROJECT, VALMIKINAGAR	6.90	7.82	-	1.95	1.95	2.49
4	TRIVENI S.H. PROJECT, TRIVENI (VALMIKINAGAR)	1.38	1.56	-	0.39	0.39	2.49
5	SONE EASTERN H.E. PROJECT, BARUN	1.52	1.72	-	0.43	0.43	2.49
6	SONE WESTERN H.E. PROJECT, DEHRI-ON-SONE	3.04	3.44	-	0.86	0.86	2.49
7	SONE WESTERN H.E. PROJECT, KOSI	8.97	10.16	-	2.53	2.53	2.49
8	AGNOOR S.H. PROJECT, AGNOOR	0.46	0.52	-	0.13	0.13	2.49
9	DHELABAGH S.H. PROJECT, DHELABAGH	0.46	0.52	-	0.13	0.13	2.49
10	NASHRIGANJ S.H. PROJECT, NASHRIGANJ	0.46	0.52	-	0.13	0.13	2.49
11	JAINAGRAH S.H. PROJECT, JAINAGRAH	0.46	0.52	-	0.13	0.13	2.49
12	SRIKHINDA S.H. PROJECT, SRIKHINDA	0.32	0.36	-	0.09	0.09	2.49
13	SEBARI S.H. PROJECT, SEBARI	0.46	0.52	-	0.13	0.13	2.49
14	ARWAL S.H. PROJECT, ARWAL	0.23	0.26	-	0.06	0.06	2.49
15	BELSAR S.H. PROJECT, BELSAR	0.46	0.52	-	0.13	0.13	2.49
III	IPPs	224.47	1,475.05	414.32	201.66	615.99	4.18
1	GMR KAMALANGA ENERGY LIMITED	119.59	785.86	165.73	110.70	276.43	3.52
2	JINDAL INDIA THERMAL POWER LIMITED	104.88	689.19	248.59	90.96	339.55	4.93
IV	Renewables	1,660.88	3,274.43	-	953.67	953.67	2.91
1	TIRUPATI SUGAR LIMITED	2.76	12.08	-	9.08	9.08	7.52
2	HARINAGAR SUGAR MILL	-	-	-	-	-	-
3	HASANPUR SUGAR MILL	4.60	17.01	-	12.79	12.79	7.52
4	BHARAT SUGAR MILL	-	-	-	-	-	-
5	HPCL BIOFUELS LIMITED, SUGAULI	-	-	-	-	-	-

S. No.	Particulars	FY 2026-27					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost	Variable Cost	Total cost	Avg. Cost (Rs./Unit)
6	HPCL BIOFUELS LIMITED, LAURIYA	-	-	-	-	-	-
7	NEW SWADESHI SUGAR MILL	-	-	-	-	-	-
8	RIGA SUGAR COMPANY LIMITED	1.38	-	-	-	-	-
9	BIHAR DISTILLERS AND BOTTLERS PRIVATE LIMITED	4.32	7.58	-	6.23	6.23	8.21
10	SIDHASHRAM RICE MILL CLUSTER PVT. LTD	0.92	-	-	-	-	-
11	GLATT SOLUTION PRIVATE LIMITED	1.38	2.28	-	1.60	1.60	7.02
12	SECI (FOCAL)	4.60	8.49	-	5.02	5.02	5.91
13	SECI (VIVID SOLAIRE ENERGY PVT. LTD.)	23.09	61.97	-	15.61	15.61	2.52
14	SECI (GREEN INFRA WIND ENERGY PVT. LTD.)	46.00	123.44	-	30.98	30.98	2.51
15	SECI (Morjar Windfarms Pvt. Ltd.)	23.00	42.44	-	9.27	9.27	2.19
16	SECI (GREENKO SIRONJ WIND POWER PVT. LTD.)	46.00	123.44	-	33.45	33.45	2.71
17	PTC (OSTRO KUTCH WIND PRIVATE LIMITED)	23.00	61.72	-	21.79	21.79	3.53
18	PTC (GREEN INFRA RENEWABLE ENERGY LIMITED)	23.00	61.72	-	21.79	21.79	3.53
19	PTC (MYTRAH VAYU SABARMATI PRIVATE LIMITED)	23.00	61.72	-	21.79	21.79	3.53
20	SECI (ALFANAR ENERGY PVT. LTD.)	23.00	61.72	-	15.55	15.55	2.52
21	SECI (OSTRO KANNADA POWERPRIVATE LIMITED)	138.00	347.22	-	75.87	75.87	2.18
22	SB ENERGY SIX PRIVATE LIMITED (NTPC)	138.00	337.55	-	90.12	90.12	2.67
23	RESPONCE RENEWABLE ENERGY PRIVATE LIMITED	4.60	7.33	-	5.15	5.15	7.02
24	ALFA INFRA PROP PVT. LTD.	4.60	7.60	-	6.05	6.05	7.96
25	SECI (RENEW SUNWAVES PRIVATE LIMITED)	138.00	326.12	-	85.44	85.44	2.62
26	SECI (GRT Jewelers)	69.00	109.95	-	28.59	28.59	2.60
27	AVANTIKA CONTRACTOR (I) PVT. LTD.	2.30	3.80	-	2.92	2.92	7.69
28	WELSPUN I	4.60	7.60	-	6.61	6.61	8.69
29	WELSPUN II	6.90	11.40	-	9.85	9.85	8.64
30	WELSPUN III	6.90	11.40	-	9.76	9.76	8.56
31	UDIPTA ENERGY AND EQUIPMENT PRIVATE LIMITED	2.30	3.80	-	3.03	3.03	7.98

S. No.	Particulars	FY 2026-27					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost	Variable Cost	Total cost	Avg. Cost (Rs./Unit)
32	SUNMARK ENERGY PROJECT LIMITED	4.60	7.60	-	5.34	5.34	7.02
33	ACME (MAGADH)	4.60	7.60	-	6.63	6.63	8.73
34	ACME (NALANDA)	6.90	11.40	-	9.95	9.95	8.73
35	AZURE POWER ERIS PVT. LTD.	4.60	7.60	-	6.38	6.38	8.39
36	AVADA POWER ERIS PVT LTD	23.00	38.00	-	15.81	15.81	4.16
37	ADANI SOLAR	69.00	127.32	-	34.63	34.63	2.72
38	AVADA CLEAN	23.00	38.00	-	11.82	11.82	3.11
39	ACME DEOGHAR/ACME DHAULPUR	69.00	127.32	-	31.96	31.96	2.51
40	SBE RENEWABLES SIXTEEN PVT LTD	82.80	152.79	-	41.56	41.56	2.72
41	ADANI GREEN ENERGY	276.00	385.23	-	97.08	97.08	2.52
42	GREENKO ENERGY HYBRID	96.60	118.67	-	54.23	54.23	4.57
43	FLOATING SOLAR	4.60	7.60	-	2.94	2.94	3.87
44	CANAL BANK SOLAR	0.92	1.52	-	0.47	0.47	3.10
45	ACME SOLAR JAISELMER	230.00	424.41	-	106.53	106.53	2.51
	Transmission Charges			2,106.52		2,106.52	
1	PGCIL			1,254.15		1,254.15	
2	BSPTCL (including SLDC)			716.16		716.16	
3	BGCL			129.82		129.82	
4	ERLDC (POSOCO)			6.38		6.38	
	Total	5,970.24	23,014.47	7,097.15	6,807.36	13,904.51	6.04

Table 6.21: Detailed projected power purchase costs for FY 2027-28 (in INR Crore) (NBPDC)

S. No.	Particulars	FY 2027-28					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost	Variable Cost	Total cost	Avg. Cost (Rs./Unit)
I	Stations with injection at CTU	3,313.66	17,160.16	4,520.52	5,576.55	10,097.07	5.88
1	NTPC(BARH-I)	530.28	2,856.25	1,046.92	1,135.44	2,182.36	7.64
2	NTPC(BARH-II)	368.71	1,309.29	386.83	548.74	935.57	7.15
3	NTPC (DARLIPALLI)	148.77	957.60	203.45	139.04	342.48	3.58
4	NTPC (FARAKKA - I & II)	188.65	560.74	79.31	236.53	315.84	5.63
5	NTPC (FARAKKA - III)	44.73	241.72	59.78	95.88	155.66	6.44
6	NTPC (KAHALGAUN - I)	23.70	140.99	21.61	54.89	76.49	5.43
7	NTPC (KAHALGAUN - II)	29.29	174.23	19.36	63.18	82.55	4.74
8	NTPC (NORTH KARANPURA)	273.07	1,794.41	523.08	331.28	854.37	4.76
9	NTPC (TALCHAR)	185.79	1,227.77	148.65	274.91	423.56	3.45
10	NTPC (KBUNL-II)	132.97	760.95	250.61	270.73	521.34	6.85
11	NTPC NORTH KARANPUR UNIT #3	136.62	897.76	261.70	165.74	427.45	4.76
16	NABINAGAR POWER GENERATION COMPANY LIMITED	754.20	4,703.62	1,388.66	1,653.30	3,041.96	6.47
17	BHARTIYA RAIL BIJLEE COMPANY LIMITED	46.00	272.80	85.56	100.88	186.43	6.83
18	NHPC (RANGIT)	10.59	54.62	15.21	13.58	28.79	5.27
19	NHPC (TEESTA)	49.22	236.78	29.80	34.18	63.97	2.70
20	PTC (TALA)	119.65	139.77	-	39.41	39.41	2.82
21	PTC (CHUKHA)	42.83	147.94	-	55.86	55.86	3.78
22	PTC (MANGDECHHU)	130.88	423.36	-	220.34	220.34	5.20
23	PTC (KURUCHU)	1.57	0.66	-	0.24	0.24	3.68
23	PTC (NEPAL)	96.14	258.92	-	142.40	142.40	5.50
II	Stations with injection at STU	771.24	2,965.17	989.45	1,121.28	2,110.73	7.12
1	NTPC (BARAUNI-I)	-	-	-	-	-	-
2	NTPC (BARAUNI-II)	230.00	1,002.70	280.57	345.37	625.94	6.24

S. No.	Particulars	FY 2027-28					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost	Variable Cost	Total cost	Avg. Cost (Rs./Unit)
12	BUXAR TPP UNIT #1	258.06	967.00	354.44	384.41	738.85	7.64
13	BUXAR TPP UNIT #2	258.06	967.00	354.44	384.41	738.85	7.64
3	EAST GANDAK H.E. PROJECT, VALMIKINAGAR	6.90	7.82	-	1.95	1.95	2.49
4	TRIVENI S.H. PROJECT, TRIVENI (VALMIKINAGAR)	1.38	1.56	-	0.39	0.39	2.49
5	SONE EASTERN H.E. PROJECT, BARUN	1.52	1.72	-	0.43	0.43	2.49
6	SONE WESTERN H.E. PROJECT, DEHRI-ON-SONE	3.04	3.44	-	0.86	0.86	2.49
7	SONE WESTERN H.E. PROJECT, KOSI	8.97	10.16	-	2.53	2.53	2.49
8	AGNOOR S.H. PROJECT, AGNOOR	0.46	0.52	-	0.13	0.13	2.49
9	DHELABAGH S.H. PROJECT, DHELABAGH	0.46	0.52	-	0.13	0.13	2.49
10	NASHRIGANJ S H. PROJECT, NASHRIGANJ	0.46	0.52	-	0.13	0.13	2.49
11	JAINAGRAH S.H. PROJECT, JAINAGRAH	0.46	0.52	-	0.13	0.13	2.49
12	SRIKHINDA S.H. PROJECT, SRIKHINDA	0.32	0.36	-	0.09	0.09	2.49
13	SEBARI S.H. PROJECT, SEBARI	0.46	0.52	-	0.13	0.13	2.49
14	ARWAL S.H. PROJECT, ARWAL	0.23	0.26	-	0.06	0.06	2.49
15	BELSAR S.H. PROJECT, BELSAR	0.46	0.52	-	0.13	0.13	2.49
III	IPPs	224.47	1,475.05	442.12	212.90	655.02	4.44
1	GMR KAMALANGA ENERGY LIMITED	119.59	785.86	176.85	116.87	293.72	3.74
2	JINDAL INDIA THARMAL POWER LIMITED	104.88	689.19	265.27	96.03	361.30	5.24
IV	Renewables	1,655.36	3,257.42	-	940.88	940.88	2.89
1	TIRUPATI SUGAR LIMITED	2.76	12.08	-	9.08	9.08	7.52
2	HARINAGAR SUGAR MILL	-	-	-	-	-	-
3	HASANPUR SUGAR MILL	-	-	-	-	-	-
4	BHARAT SUGAR MILL	-	-	-	-	-	-
5	HPCL BIOFUELS LIMITED, SUGAULI	-	-	-	-	-	-
6	HPCL BIOFUELS LIMITED, LAURIYA	-	-	-	-	-	-

S. No.	Particulars	FY 2027-28					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost	Variable Cost	Total cost	Avg. Cost (Rs./Unit)
7	NEW SWADESHI SUGAR MILL	-	-	-	-	-	-
8	RIGA SUGAR COMPANY LIMITED	1.38	-	-	-	-	-
9	BIHAR DISTILLERS AND BOTTLERS PRIVATE LIMITED	4.32	7.58	-	6.23	6.23	8.21
10	SIDDHASHRAM RICE MILL CLUSTER PVT. LTD	-	-	-	-	-	-
11	GLATT SOLUTION PRIVATE LIMITED	1.38	2.28	-	1.60	1.60	7.02
12	SECI (FOCAL)	4.60	8.49	-	5.02	5.02	5.91
13	SECI (VIVID SOLAIRE ENERGY PVT. LTD.)	23.09	61.97	-	15.61	15.61	2.52
14	SECI (GREEN INFRA WIND ENERGY PVT. LTD.)	46.00	123.44	-	30.98	30.98	2.51
15	SECI (Morjar Windfarms Pvt. Ltd.)	23.00	42.44	-	9.27	9.27	2.19
16	SECI (GREENKO SIRONJ WIND POWER PVT. LTD.)	46.00	123.44	-	33.45	33.45	2.71
17	PTC (OSTRO KUTCH WIND PRIVATE LIMITED)	23.00	61.72	-	21.79	21.79	3.53
18	PTC (GREEN INFRA RENEWABLE ENERGY LIMITED)	23.00	61.72	-	21.79	21.79	3.53
19	PTC (MYTRAH VAYU SABARMATI PRIVATE LIMITED)	23.00	61.72	-	21.79	21.79	3.53
20	SECI (ALFANAR ENERGY PVT. LTD.)	23.00	61.72	-	15.55	15.55	2.52
21	SECI (OSTRO KANNADA POWERPRIVATE LIMITED)	138.00	347.22	-	75.87	75.87	2.18
22	SB ENERGY SIX PRIVATE LIMITED (NTPC)	138.00	337.55	-	90.12	90.12	2.67
23	RESPONCE RENEWABLE ENERGY PRIVATE LIMITED	4.60	7.33	-	5.15	5.15	7.02
24	ALFA INFRA PROP PVT. LTD.	4.60	7.60	-	6.05	6.05	7.96
25	SECI (RENEW SUNWAVES PRIVATE LIMITED)	138.00	326.12	-	85.44	85.44	2.62
26	SECI (GRT Jewellers)	69.00	109.95	-	28.59	28.59	2.60
27	AVANTIKA CONTRACTOR (I) PVT. LTD.	2.30	3.80	-	2.92	2.92	7.69
28	WELSPUN I	4.60	7.60	-	6.61	6.61	8.69
29	WELSPUN II	6.90	11.40	-	9.85	9.85	8.64
30	WELSPUN III	6.90	11.40	-	9.76	9.76	8.56
31	UDIPTA ENERGY AND EQUIPMENT PRIVATE LIMITED	2.30	3.80	-	3.03	3.03	7.98
32	SUNMARK ENERGY PROJECT LIMITED	4.60	7.60	-	5.34	5.34	7.02
33	ACME (MAGADH)	4.60	7.60	-	6.63	6.63	8.73

S. No.	Particulars	FY 2027-28					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost	Variable Cost	Total cost	Avg. Cost (Rs./Unit)
34	ACME (NALANDA)	6.90	11.40	-	9.95	9.95	8.73
35	AZURE POWER ERIS PVT. LTD.	4.60	7.60	-	6.38	6.38	8.39
36	AVADA POWER ERIS PVT LTD	23.00	38.00	-	15.81	15.81	4.16
37	ADANI SOLAR	69.00	127.32	-	34.63	34.63	2.72
38	AVADA CLEAN	23.00	38.00	-	11.82	11.82	3.11
39	ACME DEOGHAR/ACME DHAULPUR	69.00	127.32	-	31.96	31.96	2.51
40	SBE RENEWABLES SIXTEEN PVT LTD	82.80	152.79	-	41.56	41.56	2.72
41	ADANI GREEN ENERGY	276.00	385.23	-	97.08	97.08	2.52
42	GREENKO ENERGY HYBRID	96.60	118.67	-	54.23	54.23	4.57
43	FLOATING SOLAR	4.60	7.60	-	2.94	2.94	3.87
44	CANAL BANK SOLAR	0.92	1.52	-	0.47	0.47	3.10
45	ACME SOLAR JAISELMER	230.00	424.41	-	106.53	106.53	2.51
	Transmission Charges			2,317.17		2,317.17	
1	PGCIL			1,379.56		1,379.56	
2	BSPTCL (including SLDC)			787.78		787.78	
3	BGCL			142.81		142.81	
4	ERLDC (POSOCO)			7.02		7.02	
	Total	5,964.72	24,857.80	8,269.27	7,851.61	16,120.88	6.49

Table 6.22: Detailed Projected power purchase costs for FY 2025-26 (in INR Cr.) (SBPDCL)

Sr. No	Particulars	FY 2025-26					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
I	Stations with injection at CTU	3,889.95	17,490.72	3,893.74	4,959.40	8,853.14	5.06
1	NTPC(BARH-I)	622.50	1,809.93	582.60	645.58	1,228.18	6.79
2	NTPC(BARH-II)	432.83	1,256.38	325.98	472.47	798.45	6.36
3	NTPC (DARLIPALLI)	174.64	1,124.14	209.74	146.45	356.19	3.17
4	NTPC (FARAKKA - I & II)	221.46	647.19	80.39	244.94	325.33	5.03
5	NTPC (FARAKKA - III)	52.51	153.44	33.32	54.61	87.94	5.73
6	NTPC (KAHALGAUN - I)	27.82	88.79	11.95	31.01	42.96	4.84
7	NTPC (KAHALGAUN - II)	34.38	109.72	10.71	35.70	46.41	4.23
8	NTPC (NORTH KARANPURA)	320.56	2,106.48	539.26	348.94	888.20	4.22
9	NTPC (TALCHAR)	218.11	1,432.19	152.28	287.74	440.01	3.07
10	NTPC (KBUNL-II)	156.10	509.30	147.30	162.58	309.89	6.08
11	NTPC NORTH KARANPUR UNIT #3	160.38	1,053.89	269.80	174.58	444.38	4.22
16	NABINAGAR POWER GENERATION COMPANY LIMITED	885.37	5,538.20	1,435.89	1,746.66	3,182.55	5.75
17	BHARTIYA RAIL BIJLEE COMPANY LIMITED	54.00	171.86	47.33	57.02	104.35	6.07
18	NHPC (RANGIT)	12.43	63.71	15.58	14.21	29.79	4.68
19	NHPC (TEESTA)	57.78	286.05	31.61	37.05	68.66	2.40
20	PTC (TALA)	140.45	164.08	-	41.51	41.51	2.53
21	PTC (CHUKHA)	50.28	173.67	-	58.84	58.84	3.39
22	PTC (MANGDECHHU)	153.64	496.99	-	232.08	232.08	4.67
23	PTC(KURUCHU)	1.84	0.77	-	0.25	0.25	3.30
23	PTC(NEPAL)	112.86	303.95	-	167.17	167.17	5.50
II	Stations with injection at STU	905.36	2,457.87	703.83	825.20	1,529.03	6.22

Sr. No	Particulars	FY 2025-26					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
1	NTPC (BARAUNI-I)	-	-	-	-	-	-
2	NTPC (BARAUNI-II)	270.00	1,005.49	247.08	310.75	557.83	5.55
3	BUXAR TPP UNIT #1	302.94	1,135.18	365.40	404.90	770.30	6.79
4	BUXAR TPP UNIT #2	302.94	283.79	91.35	101.23	192.58	6.79
5	EAST GANDAK H.E.PROJECT, VALMIKINAGAR	8.10	9.18	-	2.29	2.29	2.49
6	TRIVENI S.H. PROJECT, TRIVENI (VALMIKINAGAR)	1.62	1.84	-	0.46	0.46	2.49
7	SONE EASTERN H.E. PROJECT, BARUN	1.78	2.02	-	0.50	0.50	2.49
8	SONE WESTERN H.E. PROJECT, DEHRI-ON-SONE	3.56	4.04	-	1.01	1.01	2.49
9	SONE WESTERN H.E. PROJECT, KOSI	10.53	11.93	-	2.97	2.97	2.49
10	AGNOOR S.H. PROJECT, AGNOOR	0.54	0.61	-	0.15	0.15	2.49
11	DHELABAGH S.H.PROJECT, DHELABAGH	0.54	0.61	-	0.15	0.15	2.49
12	NASHRIGANJ S H.PROJECT, NASHRIGANJ	0.54	0.61	-	0.15	0.15	2.49
13	JAINAGRAH S.H.PROJECT, JAINAGRAH	0.54	0.61	-	0.15	0.15	2.49
14	SRIKHINDA S.H. PROJECT, SRIKHINDA	0.38	0.43	-	0.11	0.11	2.49
15	SEBARI S.H.PROJECT, SEBARI	0.54	0.61	-	0.15	0.15	2.49
16	ARWAL S.H.PROJECT, ARWAL	0.27	0.31	-	0.08	0.08	2.49
17	BELSAR S.H.PROJECT, BELSAR	0.54	0.61	-	0.15	0.15	2.49
III	IPPs	263.51	1,731.58	455.79	224.25	680.04	3.93
1	GMR KAMALANGA ENERGY LIMITED	140.39	922.53	182.32	123.10	305.42	3.31
2	JINDAL INDIA TARMAL POWER LIMITED	123.12	809.05	273.48	101.14	374.62	4.63
IV	Renewables	1,949.72	3,431.17	-	1,016.43	1,016.43	2.96
1	TIRUPATI SUGAR LIMITED	3.24	14.18	-	10.66	10.66	7.52

Sr. No	Particulars	FY 2025-26					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
2	HARINAGAR SUGAR MILL	-	-	-	-	-	-
3	HASANPUR SUGAR MILL	5.40	21.78	-	16.38	16.38	7.52
4	BHARAT SUGAR MILL	-	-	-	-	-	-
5	HPCL BIOFUELS LIMITED, SUGAULI	-	-	-	-	-	-
6	HPCL BIOFUELS LIMITED, LAURIYA	-	-	-	-	-	-
7	NEW SWADESHI SUGAR MILL	-	-	-	-	-	-
8	RIGA SUGAR COMPANY LIMITED	1.62	-	-	-	-	-
9	BIHAR DISTILLERS AND BOTTLERS PRIVATE LIMITED	5.08	8.90	-	7.31	7.31	8.21
10	SIDHASHRAM RICE MILL CLUSTER PVT. LTD	1.08	-	-	-	-	-
11	GLATT SOLUTION PRIVATE LIMITED	1.62	2.68	-	1.88	1.88	7.02
12	SECI (FOCAL)	5.40	9.96	-	5.89	5.89	5.91
13	SECI (VIVID SOLAIRE ENERGY PVT. LTD.)	27.11	72.74	-	18.33	18.33	2.52
14	SECI (GREEN INFRA WIND ENERGY PVT. LTD.)	54.00	144.90	-	36.37	36.37	2.51
15	SECI (Morjar Windfarms Pvt. Ltd.)	27.00	49.82	-	10.89	10.89	2.19
16	SECI (GREENKO SIRONJ WIND POWER PVT. LTD.)	54.00	144.90	-	39.27	39.27	2.71
17	PTC (OSTRO KUTCH WIND PRIVATE LIMITED)	27.00	72.45	-	25.58	25.58	3.53
18	PTC (GREEN INFRA RENEWABLE ENERGY LIMITED)	27.00	72.45	-	25.58	25.58	3.53
19	PTC (MYTRAH VAYU SABARMATI PRIVATE LIMITED)	27.00	72.45	-	25.58	25.58	3.53
20	SECI (ALFANAR ENERGY PVT. LTD.)	27.00	72.45	-	18.26	18.26	2.52
21	SECI (OSTRO KANNADA POWERPRIVATE LIMITED)	162.00	407.61	-	89.06	89.06	2.18
22	SB ENERGY SIX PRIVATE LIMITED (NTPC)	162.00	396.25	-	105.80	105.80	2.67
23	RESPONCE RENEWABLE ENERGY PRIVATE LIMITED	5.40	8.60	-	6.04	6.04	7.02
24	ALFA INFRA PROP PVT. LTD.	5.40	8.92	-	7.11	7.11	7.96
25	SECI (RENEW SUNWAVES PRIVATE LIMITED)	162.00	382.84	-	100.30	100.30	2.62

Sr. No	Particulars	FY 2025-26					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
26	SECI (GRT Jewellers)	81.00	129.07	-	33.56	33.56	2.60
27	AVANTIKA CONTRACTOR (I) PVT. LTD.	2.70	4.46	-	3.43	3.43	7.69
28	WELSPUN I	5.40	8.92	-	7.75	7.75	8.69
29	WELSPUN II	8.10	13.38	-	11.56	11.56	8.64
30	WELSPUN III	8.10	13.38	-	11.46	11.46	8.56
31	UDIPTA ENERGY AND EQUIPMENT PRIVATE LIMITED	2.70	4.46	-	3.56	3.56	7.98
32	SUNMARK ENERGY PROJECT LIMITED	5.40	8.92	-	6.26	6.26	7.02
33	ACME (MAGADH)	5.40	8.92	-	7.79	7.79	8.73
34	ACME (NALANDA)	8.10	13.38	-	11.68	11.68	8.73
35	AZURE POWER ERIS PVT. LTD.	5.40	8.92	-	7.49	7.49	8.39
36	AVADA POWER ERIS PVT LTD	27.00	44.61	-	18.57	18.57	4.16
37	ADANI SOLAR	81.00	149.47	-	40.65	40.65	2.72
38	AVADA CLEAN	27.00	44.61	-	13.87	13.87	3.11
39	ACME DEOGHAR/ACME DHAULPUR	81.00	149.47	-	37.52	37.52	2.51
40	SBE RENEWABLES SIXTEEN PVT LTD	97.20	179.36	-	48.79	48.79	2.72
41	ADANI GREEN ENERGY	324.00	37.69	-	9.50	9.50	2.52
42	GREENKO ENERGY HYBRID	113.40	139.31	-	63.66	63.66	4.57
43	FLOATING SOLAR	5.40	8.92	-	3.45	3.45	3.87
44	CANAL BANK SOLAR	1.08	1.78	-	0.55	0.55	3.10
45	ACME SOLAR JAISELMER	270.00	498.22	-	125.05	125.05	2.51
	Transmission Charges			2,248.06		2,248.06	
1	PGCIL			1,338.42		1,338.42	
2	BSPTCL (including SLDC)			764.29		764.29	

Sr. No	Particulars	FY 2025-26					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
3	BGCL			138.55		138.55	
4	ERLDC (POSOCO)			6.81		6.81	
	Total	7,008.55	25,111.34	7,301.43	7,025.27	14,326.70	5.71

Table 6.23: Detailed Projected power purchase costs for FY 2026-27 (in INR Cr.) (SBPDCL)

Sr. No	Particulars	FY 2026-27					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
I	Stations with injection at CTU	3,889.95	17,960.66	4,283.70	5,387.71	9,671.41	5.38
1	NTPC(BARH-I)	622.50	1,844.14	633.44	694.42	1,327.86	7.20
2	NTPC(BARH-II)	432.83	1,259.24	348.65	499.92	848.57	6.74
3	NTPC (DARLIPALLI)	174.64	1,124.14	223.81	154.61	378.42	3.37
4	NTPC (FARAKKA - I & II)	221.46	654.52	86.75	261.52	348.27	5.32
5	NTPC (FARAKKA - III)	52.51	155.18	35.96	58.31	94.27	6.08
6	NTPC (KAHALGAUN - I)	27.82	91.27	13.11	33.66	46.77	5.12
7	NTPC (KAHALGAUN - II)	34.38	187.31	19.51	64.34	83.85	4.48
8	NTPC (NORTH KARANPURA)	320.56	2,106.48	575.44	368.38	943.82	4.48
9	NTPC (TALCHAR)	218.11	1,437.65	163.11	304.92	468.03	3.26
10	NTPC (KBUNL-II)	156.10	860.57	265.60	290.02	555.62	6.46
11	NTPC NORTH KARANPUR UNIT #3	160.38	1,053.89	287.90	184.30	472.20	4.48
12	NABINAGAR POWER GENERATION COMPANY LIMITED	885.37	5,524.82	1,528.54	1,839.50	3,368.03	6.10

Sr. No	Particulars	FY 2026-27					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
13	BHARTIYA RAIL BIJLEE COMPANY LIMITED	54.00	176.42	51.85	61.80	113.65	6.44
14	NHPC (RANGIT)	12.43	64.79	16.91	15.26	32.17	4.96
15	NHPC (TEESTA)	57.78	280.79	33.11	38.39	71.50	2.55
16	PTC (TALA)	140.45	164.08	-	43.82	43.82	2.67
17	PTC (CHUKHA)	50.28	173.67	-	62.12	62.12	3.58
18	PTC (MANGDECHHU)	153.64	496.99	-	245.01	245.01	4.93
19	PTC(KURUCHU)	1.84	0.77	-	0.27	0.27	3.49
20	PTC(NEPAL)	112.86	303.95	-	167.17	167.17	5.50
II	Stations with injection at STU	905.36	3,480.85	1,088.49	1,247.28	2,335.77	6.71
1	NTPC (BARAUNI-I)	-	-	-	-	-	-
2	NTPC (BARAUNI-II)	270.00	1,177.09	308.65	384.05	692.70	5.88
12	BUXAR TPP UNIT #1	302.94	1,135.18	389.92	427.46	817.38	7.20
13	BUXAR TPP UNIT #2	302.94	1,135.18	389.92	427.46	817.38	7.20
3	EAST GANDAK H.E.PROJECT, VALMIKINAGAR	8.10	9.18	-	2.29	2.29	2.49
4	TRIVENI S.H. PROJECT, TRIVENI (VALMIKINAGAR)	1.62	1.84	-	0.46	0.46	2.49
5	SONE EASTERN H.E. PROJECT, BARUN	1.78	2.02	-	0.50	0.50	2.49
6	SONE WESTERN H.E. PROJECT, DEHRI-ON-SONE	3.56	4.04	-	1.01	1.01	2.49
7	SONE WESTERN H.E. PROJECT, KOSI	10.53	11.93	-	2.97	2.97	2.49
8	AGNOOR S.H. PROJECT, AGNOOR	0.54	0.61	-	0.15	0.15	2.49
9	DHELABAGH S.H.PROJECT, DHELABAGH	0.54	0.61	-	0.15	0.15	2.49
10	NASHRIGANJ S H.PROJECT, NASHRIGANJ	0.54	0.61	-	0.15	0.15	2.49
11	JAINAGRAH S.H.PROJECT, JAINAGRAH	0.54	0.61	-	0.15	0.15	2.49
12	SRIKHINDA S.H. PROJECT, SRIKHINDA	0.38	0.43	-	0.11	0.11	2.49

Sr. No	Particulars	FY 2026-27					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
13	SEBARI S.H.PROJECT, SEBARI	0.54	0.61	-	0.15	0.15	2.49
14	ARWAL S.H.PROJECT, ARWAL	0.27	0.31	-	0.08	0.08	2.49
15	BELSAR S.H.PROJECT, BELSAR	0.54	0.61	-	0.15	0.15	2.49
III	IPPs	263.51	1,731.58	486.38	236.74	723.11	4.18
1	GMR KAMALANGA ENERGY LIMITED	140.39	922.53	194.55	129.96	324.51	3.52
2	JINDAL INDIA THERMAL POWER LIMITED	123.12	809.05	291.83	106.78	398.61	4.93
IV	Renewables	1,949.72	3,843.90	-	1,119.53	1,119.53	2.91
1	TIRUPATI SUGAR LIMITED	3.24	14.18	-	10.66	10.66	7.52
2	HARINAGAR SUGAR MILL	-	-	-	-	-	-
3	HASANPUR SUGAR MILL	5.40	19.97	-	15.02	15.02	7.52
4	BHARAT SUGAR MILL	-	-	-	-	-	-
5	HPCL BIOFUELS LIMITED, SUGAULI	-	-	-	-	-	-
6	HPCL BIOFUELS LIMITED, LAURIYA	-	-	-	-	-	-
7	NEW SWADESHI SUGAR MILL	-	-	-	-	-	-
8	RIGA SUGAR COMPANY LIMITED	1.62	-	-	-	-	-
9	BIHAR DISTILLERS AND BOTTLERS PRIVATE LIMITED	5.08	8.90	-	7.31	7.31	8.21
10	SIDDHASHRAM RICE MILL CLUSTER PVT. LTD	1.08	-	-	-	-	-
11	GLATT SOLUTION PRIVATE LIMITED	1.62	2.68	-	1.88	1.88	7.02
12	SECI (FOCAL)	5.40	9.96	-	5.89	5.89	5.91
13	SECI (VIVID SOLAIRE ENERGY PVT. LTD.)	27.11	72.74	-	18.33	18.33	2.52
14	SECI (GREEN INFRA WIND ENERGY PVT. LTD.)	54.00	144.90	-	36.37	36.37	2.51
15	SECI (Morjar Windfarms Pvt. Ltd.)	27.00	49.82	-	10.89	10.89	2.19

Sr. No	Particulars	FY 2026-27					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
16	SECI (GREENKO SIRONJ WIND POWER PVT. LTD.)	54.00	144.90	-	39.27	39.27	2.71
17	PTC (OSTRO KUTCH WIND PRIVATE LIMITED)	27.00	72.45	-	25.58	25.58	3.53
18	PTC (GREEN INFRA RENEWABLE ENERGY LIMITED)	27.00	72.45	-	25.58	25.58	3.53
19	PTC (MYTRAH VAYU SABARMATI PRIVATE LIMITED)	27.00	72.45	-	25.58	25.58	3.53
20	SECI (ALFANAR ENERGY PVT. LTD.)	27.00	72.45	-	18.26	18.26	2.52
21	SECI (OSTRO KANNADA POWERPRIVATE LIMITED)	162.00	407.61	-	89.06	89.06	2.18
22	SB ENERGY SIX PRIVATE LIMITED (NTPC)	162.00	396.25	-	105.80	105.80	2.67
23	RESPONCE RENEWABLE ENERGY PRIVATE LIMITED	5.40	8.60	-	6.04	6.04	7.02
24	ALFA INFRA PROP PVT. LTD.	5.40	8.92	-	7.11	7.11	7.96
25	SECI (RENEW SUNWAVES PRIVATE LIMITED)	162.00	382.84	-	100.30	100.30	2.62
26	SECI (GRT Jewellers)	81.00	129.07	-	33.56	33.56	2.60
27	AVANTIKA CONTRACTOR (I) PVT. LTD.	2.70	4.46	-	3.43	3.43	7.69
28	WELSPUN I	5.40	8.92	-	7.75	7.75	8.69
29	WELSPUN II	8.10	13.38	-	11.56	11.56	8.64
30	WELSPUN III	8.10	13.38	-	11.46	11.46	8.56
31	UDIPTA ENERGY AND EQUIPMENT PRIVATE LIMITED	2.70	4.46	-	3.56	3.56	7.98
32	SUNMARK ENERGY PROJECT LIMITED	5.40	8.92	-	6.26	6.26	7.02
33	ACME (MAGADH)	5.40	8.92	-	7.79	7.79	8.73
34	ACME (NALANDA)	8.10	13.38	-	11.68	11.68	8.73
35	AZURE POWER ERIS PVT. LTD.	5.40	8.92	-	7.49	7.49	8.39
36	AVADA POWER ERIS PVT LTD	27.00	44.61	-	18.57	18.57	4.16
37	ADANI SOLAR	81.00	149.47	-	40.65	40.65	2.72
38	AVADA CLEAN	27.00	44.61	-	13.87	13.87	3.11
39	ACME DEOGHAR/ACME DHAULPUR	81.00	149.47	-	37.52	37.52	2.51

Sr. No	Particulars	FY 2026-27					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
40	SBE RENEWABLES SIXTEEN PVT LTD	97.20	179.36	-	48.79	48.79	2.72
41	ADANI GREEN ENERGY	324.00	452.23	-	113.96	113.96	2.52
42	GREENKO ENERGY HYBRID	113.40	139.31	-	63.66	63.66	4.57
43	FLOATING SOLAR	5.40	8.92	-	3.45	3.45	3.87
44	CANAL BANK SOLAR	1.08	1.78	-	0.55	0.55	3.10
45	ACME SOLAR JAISELMER	270.00	498.22	-	125.05	125.05	2.51
	Transmission Charges			2,472.87		2,472.87	
1	PGCIL			1,472.26		1,472.26	
2	BSPTCL (including SLDC)			840.71		840.71	
3	BGCL			152.40		152.40	
4	ERLDC (POSOCO)			7.49		7.49	
	Total	7,008.55	27,016.99	8,331.44	7,991.25	16,322.69	6.04

Table 6.24 Detailed projected power purchase costs for FY 2027-28 (in INR Crore) (SBPDCL)

Sr. No	Particulars	FY 2027-28					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
I	Stations with injection at CTU	3,889.95	20,144.54	5,306.70	6,546.38	11,853.09	5.88
1	NTPC(BARH-I)	622.50	3,352.98	1,228.99	1,332.91	2,561.90	7.64
2	NTPC(BARH-II)	432.83	1,536.99	454.11	644.17	1,098.28	7.15
3	NTPC (DARLIPALLI)	174.64	1,124.14	238.83	163.22	402.05	3.58

Sr. No	Particulars	FY 2027-28					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
4	NTPC (FARAKKA - I & II)	221.46	658.26	93.10	277.66	370.76	5.63
5	NTPC (FARAKKA - III)	52.51	283.75	70.17	112.56	182.73	6.44
6	NTPC (KAHALGAUN - I)	27.82	165.51	25.36	64.43	89.79	5.43
7	NTPC (KAHALGAUN - II)	34.38	204.54	22.73	74.17	96.90	4.74
8	NTPC (NORTH KARANPURA)	320.56	2,106.48	614.06	388.90	1,002.95	4.76
9	NTPC (TALCHAR)	218.11	1,441.30	174.50	322.72	497.22	3.45
10	NTPC (KBUNL-II)	156.10	893.29	294.20	317.81	612.01	6.85
11	NTPC NORTH KARANPUR UNIT #3	160.38	1,053.89	307.22	194.57	501.79	4.76
16	NABINAGAR POWER GENERATION COMPANY LIMITED	885.37	5,521.64	1,630.16	1,940.84	3,571.00	6.47
17	BHARTIYA RAIL BIJLEE COMPANY LIMITED	54.00	320.24	100.44	118.42	218.85	6.83
18	NHPC (RANGIT)	12.43	64.11	17.86	15.94	33.80	5.27
19	NHPC (TEESTA)	57.78	277.96	34.98	40.12	75.10	2.70
20	PTC (TALA)	140.45	164.08	-	46.26	46.26	2.82
21	PTC (CHUKHA)	50.28	173.67	-	65.58	65.58	3.78
22	PTC (MANGDECHHU)	153.64	496.99	-	258.66	258.66	5.20
23	PTC(KURUCHU)	1.84	0.77	-	0.28	0.28	3.68
23	PTC(NEPAL)	112.86	303.95	-	167.17	167.17	5.50
II	Stations with injection at STU	905.36	3,480.85	1,161.53	1,316.29	2,477.82	7.12
1	NTPC (BARAUNI-I)	-	-	-	-	-	-
2	NTPC (BARAUNI-II)	270.00	1,177.09	329.36	405.44	734.80	6.24
3	BUXAR TPP UNIT #1	302.94	1,135.18	416.08	451.27	867.35	7.64
4	BUXAR TPP UNIT #2	302.94	1,135.18	416.08	451.27	867.35	7.64
5	EAST GANDAK H.E.PROJECT, VALMIKINAGAR	8.10	9.18	-	2.29	2.29	2.49
6	TRIVENI S.H. PROJECT, TRIVENI (VALMIKINAGAR)	1.62	1.84	-	0.46	0.46	2.49

Sr. No	Particulars	FY 2027-28					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
7	SONE EASTERN H.E. PROJECT, BARUN	1.78	2.02	-	0.50	0.50	2.49
8	SONE WESTERN H.E. PROJECT, DEHRI-ON-SONE	3.56	4.04	-	1.01	1.01	2.49
9	SONE WESTERN H.E. PROJECT, KOSI	10.53	11.93	-	2.97	2.97	2.49
10	AGNOOR S.H. PROJECT, AGNOOR	0.54	0.61	-	0.15	0.15	2.49
11	DHELABAGH S.H.PROJECT, DHELABAGH	0.54	0.61	-	0.15	0.15	2.49
12	NASHRIGANJ S H.PROJECT, NASHRIGANJ	0.54	0.61	-	0.15	0.15	2.49
13	JAINAGRAH S.H.PROJECT, JAINAGRAH	0.54	0.61	-	0.15	0.15	2.49
14	SRIKHINDA S.H. PROJECT, SRIKHINDA	0.38	0.43	-	0.11	0.11	2.49
15	SEBARI S.H.PROJECT, SEBARI	0.54	0.61	-	0.15	0.15	2.49
16	ARWAL S.H.PROJECT, ARWAL	0.27	0.31	-	0.08	0.08	2.49
17	BELSAR S.H.PROJECT, BELSAR	0.54	0.61	-	0.15	0.15	2.49
III	IPPs	263.51	1,731.58	519.01	249.92	768.94	4.44
1	GMR KAMALANGA ENERGY LIMITED	140.39	922.53	207.61	137.20	344.80	3.74
2	JINDAL INDIA THARMAL POWER LIMITED	123.12	809.05	311.41	112.73	424.14	5.24
IV	Renewables	1,943.24	3,823.93	-	1,104.51	1,104.51	2.89
1	TIRUPATI SUGAR LIMITED	3.24	14.18	-	10.66	10.66	7.52
2	HARINAGAR SUGAR MILL	-	-	-	-	-	-
3	HASANPUR SUGAR MILL	-	-	-	-	-	-
4	BHARAT SUGAR MILL	-	-	-	-	-	-
5	HPCL BIOFUELS LIMITED, SUGAULI	-	-	-	-	-	-
6	HPCL BIOFUELS LIMITED, LAURIYA	-	-	-	-	-	-
7	NEW SWADESHI SUGAR MILL	-	-	-	-	-	-
8	RIGA SUGAR COMPANY LIMITED	1.62	-	-	-	-	-

Sr. No	Particulars	FY 2027-28					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
9	BIHAR DISTILLERS AND BOTTLERS PRIVATE LIMITED	5.08	8.90	-	7.31	7.31	8.21
10	SIDHASHRAM RICE MILL CLUSTER PVT. LTD	-	-	-	-	-	-
11	GLATT SOLUTION PRIVATE LIMITED	1.62	2.68	-	1.88	1.88	7.02
12	SECI (FOCAL)	5.40	9.96	-	5.89	5.89	5.91
13	SECI (VIVID SOLAIRE ENERGY PVT. LTD.)	27.11	72.74	-	18.33	18.33	2.52
14	SECI (GREEN INFRA WIND ENERGY PVT. LTD.)	54.00	144.90	-	36.37	36.37	2.51
15	SECI (Morjar Windfarms Pvt. Ltd.)	27.00	49.82	-	10.89	10.89	2.19
16	SECI (GREENKO SIRONJ WIND POWER PVT. LTD.)	54.00	144.90	-	39.27	39.27	2.71
17	PTC (OSTRO KUTCH WIND PRIVATE LIMITED)	27.00	72.45	-	25.58	25.58	3.53
18	PTC (GREEN INFRA RENEWABLE ENERGY LIMITED)	27.00	72.45	-	25.58	25.58	3.53
19	PTC (MYTRAH VAYU SABARMATI PRIVATE LIMITED)	27.00	72.45	-	25.58	25.58	3.53
20	SECI (ALFANAR ENERGY PVT. LTD.)	27.00	72.45	-	18.26	18.26	2.52
21	SECI (OSTRO KANNADA POWERPRIVATE LIMITED)	162.00	407.61	-	89.06	89.06	2.18
22	SB ENERGY SIX PRIVATE LIMITED (NTPC)	162.00	396.25	-	105.80	105.80	2.67
23	RESPONCE RENEWABLE ENERGY PRIVATE LIMITED	5.40	8.60	-	6.04	6.04	7.02
24	ALFA INFRA PROP PVT. LTD.	5.40	8.92	-	7.11	7.11	7.96
25	SECI (RENEW SUNWAVES PRIVATE LIMITED)	162.00	382.84	-	100.30	100.30	2.62
26	SECI (GRT Jewellers)	81.00	129.07	-	33.56	33.56	2.60
27	AVANTIKA CONTRACTOR (I) PVT. LTD.	2.70	4.46	-	3.43	3.43	7.69
28	WELSPUN I	5.40	8.92	-	7.75	7.75	8.69
29	WELSPUN II	8.10	13.38	-	11.56	11.56	8.64
30	WELSPUN III	8.10	13.38	-	11.46	11.46	8.56
31	UDIPTA ENERGY AND EQUIPMENT PRIVATE LIMITED	2.70	4.46	-	3.56	3.56	7.98
32	SUNMARK ENERGY PROJECT LIMITED	5.40	8.92	-	6.26	6.26	7.02
33	ACME (MAGADH)	5.40	8.92	-	7.79	7.79	8.73

Sr. No	Particulars	FY 2027-28					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
34	ACME (NALANDA)	8.10	13.38	-	11.68	11.68	8.73
35	AZURE POWER ERIS PVT. LTD.	5.40	8.92	-	7.49	7.49	8.39
36	AVADA POWER ERIS PVT LTD	27.00	44.61	-	18.57	18.57	4.16
37	ADANI SOLAR	81.00	149.47	-	40.65	40.65	2.72
38	AVADA CLEAN	27.00	44.61	-	13.87	13.87	3.11
39	ACME DEOGHAR/ACME DHAULPUR	81.00	149.47	-	37.52	37.52	2.51
40	SBE RENEWABLES SIXTEEN PVT LTD	97.20	179.36	-	48.79	48.79	2.72
41	ADANI GREEN ENERGY	324.00	452.23	-	113.96	113.96	2.52
42	GREENKO ENERGY HYBRID	113.40	139.31	-	63.66	63.66	4.57
43	FLOATING SOLAR	5.40	8.92	-	3.45	3.45	3.87
44	CANAL BANK SOLAR	1.08	1.78	-	0.55	0.55	3.10
45	ACME SOLAR JAISELMER	270.00	498.22	-	125.05	125.05	2.51
	Transmission Charges			2,720.16		2,720.16	
1	PGCIL			1,619.49		1,619.49	
2	BSPTCL (inclduing SLDC)			924.79		924.79	
3	BGCL			167.64		167.64	
4	ERLDC (POSOCO)			8.24		8.24	
	Total	7,002.07	29,180.90	9,707.40	9,217.11	18,924.51	6.49

The Petitioner has entered into PPAs with new plants to enable them to provide 24X7 Power for All, as per MoU approved by the Commission. The expected COD from the plants have been considered as per actual scenario. The average cost of power calculated above is subject to change on actual basis since power may be required to be procured from open market, as per demand and availability to the DISCOMs in a particular block.

Commission's Analysis

The Commission has noted the submissions of Petitioners regarding power purchase costs and increased proposed for fixed charges and energy charge. The Commission has reviewed the actual fixed charges paid during FY 2023-24, under true-up. For Central Sector Projects, the Commission has observed that the tariff is based on prevailing CERC tariff orders, as the tariff for FY 24-25 to FY 28-29 period is yet to be determined by the CERC . The increase in fixed charges for thermal projects proposed by the Petitioner seems to be on higher level and hence, not considered for projecting the power procurement cost over the control period as proposed by the petitioners. The Commission has considered a normative 3% increase in fixed cost over FY 2023-24 level for all central sector thermal projects. For variable cost of thermal projects, the Commission has taken the energy cost for FY 2024-25 (APR) as base and 3% increase per year is considered. For central hydro projects, the costs proposed by the Petitioner are considered. For renewable projects, the cost as per PPA is considered for the control period. The transmission cost of PGCIL is proposed to be increased by 3%. For BSPTCL and BGCL, as per approved transmission ARR, the transmission costs are considered.

The power purchase cost approved by the Commission for the control period is as shown in Tables below:

Table 6.25: Power Purchase Cost for FY 2025-26 as computed by Commission for NBPDC

Sl. No	Particulars	Bihar share allocation (MW)	NBPDC share allocation (MW)	Avg PLF %	Units considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
I	Stations with injection at CTU	7,206.00	3,316.00		13,952.86		3,601.17	3,450.41	7,051.58	5.05
1	NTPC(Barh-I)	1,153	530	62.57%	1,598.54	3.16	505.38	388.54	893.92	5.59
2	NTPC(Barh-II)	802	369	91.43%	1,624.26	3.10	504.14	690.40	1,194.55	7.35
3	NTPC (Darlipalli)	324	149	80.72%	1,052.00	1.27	133.28	176.82	310.10	2.95
4	NTPC (Farakka - I & II)	410	189	62.89%	571.60	3.44	196.35	86.85	283.19	4.95
5	NTPC (Farakka - III)	98	45	62.89%	135.52	3.39	45.93	44.93	90.86	6.70
6	NTPC (Kahalgaun - I)	52	24	68.68%	78.42	2.83	22.19	67.31	89.50	11.41
7	NTPC (Kahalgaun - II)	63	29	76.92%	108.54	2.64	28.68	17.37	46.04	4.24
8	NTPC (North Karanpura)	594	273	77.78%	1,860.46	1.62	300.85	239.57	540.43	2.90
9	NTPC (Talchar)	404	186	80.97%	1,317.90	1.89	248.57	126.28	374.85	2.84
10	NTPC (Kbunl-II)	289	133	76.94%	492.95	2.70	132.86	233.54	366.40	7.43
11	NTPC North Karanpur Unit #3	297	137	77.77%	930.80	1.62	150.52	111.24	261.76	2.81
12	Nabinagar Power Generation Company Limited	1,639	754	76.00%	2,761.50	2.95	815.35	1,172.75	1,988.10	7.20
13	Bhartiya Rail Bijlee Company Limited	100	46	68.49%	151.79	3.13	47.45	65.10	112.55	7.41
14	NHPC (Rangit)	23	11	61.90%	54.27	2.23	12.10	11.09	23.19	4.27
15	NHPC (Teesta)	107	49	59.50%	243.67	1.30	31.68	18.63	50.31	2.06
16	PTC (Tala)	260	120	13.83%	139.77	2.53	35.36	-	35.36	2.53
17	PTC (Chukha)	93	43	40.88%	147.94	3.39	50.15	-	50.15	3.39
18	PTC (Mangdechhu)	285	131	38.29%	423.36	4.67	197.71	-	197.71	4.67
19	PTC (Kuruchu)	4	2	4.96%	0.66	3.30	0.22	-	0.22	3.30
20	PTC(Nepal)	209	96	85.00%	258.92	5.50	142.41	-	142.41	5.50
II	Stations with injection at STU	1,732.00	790.00		2,336.21		705.14	672.42	1,377.56	5.90
1	NTPC (Barauni-II)	500.00	230	63.52%	1,099.00	2.52	277.24	283.33	560.57	5.10
2	Buxar TPP Unit #1	561.00	258	77.77%	967.00	3.48	336.65	311.27	647.92	6.70
3	Buxar TPP Unit #2	561.00	258	78.86%	241.75	3.48	84.16	77.82	161.98	6.70
4	BSHPC	55.00	22	7.11%	28.46	2.49	7.09	-	7.09	2.49

Sl. No	Particulars	Bihar share allocation (MW)	NBPDCCL share allocation (MW)	Avg PLF %	Units considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
III	IPPs	488.00	225.00		1,694.65		212.58	400.81	613.39	3.62
1	GMR Kamalanga Energy Limited	260.00	120	87.03%	911.73	1.30	118.32	162.33	280.65	3.08
2	Jindal India Thermal Power Limited	228.00	105	85.22%	782.92	1.20	94.26	238.48	332.74	4.25
IV	Renewables	3,605.00	1,662.00		2,922.85		865.85	-	865.85	2.96
1	Tirupati Sugar Limited	6.00	3	54.59%	12.08	7.52	9.08	-	9.08	7.52
2	Hasanpur Sugar Mill	10.00	5	50.33%	18.56	7.52	13.95	-	13.95	7.52
3	Bihar Distillers And Bottlers Private Limited	9.00	4	21.88%	7.58	8.21	6.23	-	6.23	8.21
4	Glatt Solution Private Limited	3.00	1	18.86%	2.28	7.02	1.60	-	1.60	7.02
5	Seci (Focal)	10.00	5	21.84%	8.49	5.91	5.02	-	5.02	5.91
6	SB Energy Six Private Limited (Ntpc)	300.00	138	28.95%	337.55	2.67	90.12	-	90.12	2.67
7	Responce Renewable Energy Private Limited	10.00	5	18.86%	7.33	7.02	5.15	-	5.15	7.02
8	Seci (Renew Sunwaves Private Limited)	300.00	138	27.97%	326.12	2.62	85.44	-	85.44	2.62
9	Seci (GRT Jewellers)	150.00	69	18.86%	109.95	2.60	28.59	-	28.59	2.60
10	Avantika Contractor (I) Pvt. Ltd.	5.00	2	18.86%	3.80	7.69	2.92	-	2.92	7.69
11	Welspun I	10.00	5	18.86%	7.60	8.69	6.61	-	6.61	8.69
12	Welspun II	15.00	7	18.86%	11.40	8.64	9.85	-	9.85	8.64
13	Welspun III	15.00	7	18.86%	11.40	8.56	9.76	-	9.76	8.56
14	Udipta Energy And Equipment Private Limited	5.00	2	18.86%	3.80	7.98	3.03	-	3.03	7.98
15	Sunmark Energy Project Limited	10.00	5	18.86%	7.60	7.02	5.34	-	5.34	7.02
16	Acme (Magadh)	10.00	5	18.86%	7.60	8.73	6.63	-	6.63	8.73
17	Acme (Nalanda)	15.00	7	18.86%	11.40	8.73	9.95	-	9.95	8.73
18	Azure Power Eris Pvt. Ltd.	10.00	5	18.86%	7.60	8.39	6.38	-	6.38	8.39
19	Avada Power Eris Pvt Ltd	50.00	23	18.86%	38.00	4.16	15.81	-	15.81	4.16
20	Alfa Infra Prop Pvt. Ltd.	10.00	5	18.86%	7.60	7.96	6.05	-	6.05	7.96
21	Seci (Vivid Solaire Energy Pvt. Ltd.)	50.00	23	31.76%	61.97	2.52	15.61	-	15.61	2.52
22	Seci (Green Infra Wind Energy Pvt. Ltd.)	100.00	46	31.76%	123.44	2.51	30.98	-	30.98	2.51
23	Seci (Morjar Windfarms Pvt. Ltd.)	50.00	23	21.84%	42.44	2.19	9.27	-	9.27	2.19
24	Seci (Greenko Sironj Wind Power Pvt. Ltd.)	100.00	46	31.76%	123.44	2.71	33.45	-	33.45	2.71
25	Ptc (Ostro Kutch Wind Private Limited)	50.00	23	31.76%	61.72	3.53	21.79	-	21.79	3.53
26	Ptc (Green Infra Renewable Energy Limited)	50.00	23	31.76%	61.72	3.53	21.79	-	21.79	3.53
27	Ptc (Mytrah Vayu Sabarmati Private Limited)	50.00	23	31.76%	61.72	3.53	21.79	-	21.79	3.53

Sl. No	Particulars	Bihar share allocation (MW)	NBPDC share allocation (MW)	Avg PLF %	Units considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
28	Seci (Alfanar Energy Pvt. Ltd.)	50.00	23	31.76%	61.72	2.52	15.55	-	15.55	2.52
29	Seci (Ostro Kannada Powerprivate Limited)	300.00	138	29.78%	347.22	2.18	75.87	-	75.87	2.18
30	Adani Solar	150.00	69	21.84%	127.32	2.72	34.63	-	34.63	2.72
31	Avada Clean	50.00	23	18.86%	38.00	3.11	11.82	-	11.82	3.11
32	Acme Deoghar/Acme Dhaulpur	150.00	69	21.84%	127.32	2.51	31.96	-	31.96	2.51
33	Sbe Renewables Sixteen Pvt Ltd	180.00	83	21.84%	152.79	2.72	41.56	-	41.56	2.72
34	Adani Green Energy	600.00	276	16.52%	32.10	2.52	8.09	-	8.09	2.52
35	Greenko Energy Hybrid	210.00	97	14.54%	118.67	4.57	54.23	-	54.23	4.57
36	Floating Solar	10.00	5	18.86%	7.60	3.87	2.94	-	2.94	3.87
37	Canal Bank Solar	2.00	1	18.86%	1.52	3.10	0.47	-	0.47	3.10
38	Acme Solar Jaiselmer	500.00	230	21.84%	424.41	2.51	106.53	-	106.53	2.51
	Grand Total	12,976.00	5,971.00		20,906.57		5,384.74	4,523.64	9,908.39	4.74

Table 6.26: Power Purchase Cost for FY 2025-26 as computed by Commission for SBPDCL

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	Avg PLF %	Units considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
I	Stations with injection at CTU	7,206.00	3,890.00		16,379.45		4,227.46	4,299.13	8,526.59	5.21
1	NTPC(Barh-I)	1,153	623	62.57%	1,876.55	3.16	593.27	484.98	1,078.25	5.75
2	NTPC(Barh-II)	802	433	91.43%	1,906.74	3.10	591.82	861.77	1,453.59	7.62
3	NTPC (Darlipalli)	324	175	80.72%	1,234.96	1.27	156.46	220.71	377.17	3.05
4	NTPC (Farakka - I & II)	410	221	62.89%	671.01	3.44	230.49	109.16	339.65	5.06
5	NTPC (Farakka - III)	98	53	62.89%	159.09	3.39	53.92	56.27	110.19	6.93
6	NTPC (Kahalgaun - I)	52	28	68.68%	92.06	2.83	26.05	84.02	110.07	11.96
7	NTPC (Kahalgaun - II)	63	34	76.92%	127.41	2.64	33.66	21.68	55.35	4.34
8	NTPC (North Karanpura)	594	321	77.78%	2,184.01	1.62	353.18	299.04	652.21	2.99
9	NTPC (Talchar)	404	218	80.97%	1,547.10	1.89	291.80	157.62	449.42	2.90
10	NTPC (Kbunl-II)	289	156	76.94%	578.68	2.70	155.97	291.50	447.47	7.73
11	NTPC North Karanpur Unit #3	297	160	77.77%	1,092.68	1.62	176.70	130.21	306.91	2.81
12	Nabinagar Power Generation Company Limited	1,639	885	76.00%	3,241.76	2.95	957.15	1,463.83	2,420.98	7.47
13	Bhartiya Rail Bijlee Company Limited	100	54	68.49%	178.18	3.13	55.70	81.24	136.95	7.69
14	NHPC (Rangit)	23	12	61.90%	63.71	2.23	14.21	13.83	28.04	4.40
15	NHPC (Teesta)	107	58	59.50%	286.05	1.30	37.19	23.25	60.44	2.11
16	PTC (Tala)	260	140	13.83%	164.08	2.53	41.51	-	41.51	2.53
17	PTC (Chukha)	93	50	40.88%	173.67	3.39	58.87	-	58.87	3.39
18	PTC (Mangdechhu)	285	154	38.29%	496.99	4.67	232.09	-	232.09	4.67
19	PTC (Kuruchu)	4	2	4.96%	0.77	3.30	0.25	-	0.25	3.30
20	PTC(Nepal)	209	113	85.00%	303.95	5.50	167.17	-	167.17	5.50
II	Stations with injection at STU	1,732.00	942.00		2,742.51		827.77	810.41	1,638.19	5.97
1	NTPC (Barauni-II)	500.00	270	63.52%	1,290.13	2.52	325.45	353.66	679.12	5.26
2	Buxar TPP Unit #1	561.00	303	77.77%	1,135.18	3.48	395.20	365.40	760.60	6.70
3	Buxar TPP Unit #2	561.00	303	78.86%	283.80	3.48	98.80	91.35	190.15	6.70
4	BSHPC	55.00	33	7.11%	33.41	2.49	8.32	-	8.32	2.49
III	IPPs	488.00	263.00		1,989.38		249.56	500.28	749.84	3.77
1	GMR Kamalanga Energy Limited	260.00	140	87.03%	1,070.30	1.30	138.90	202.62	341.52	3.19

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	Avg PLF %	Units considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
2	Jindal India Thermal Power Limited	228.00	123	85.22%	919.08	1.20	110.65	297.67	408.32	4.44
IV	Renewables	3,605.00	1,943.00		3,431.17		1,016.43	-	1,016.43	2.96
1	Tirupati Sugar Limited	6.00	3	54.59%	14.18	7.52	10.66	-	10.66	7.52
2	Hasanpur Sugar Mill	10.00	5	50.33%	21.78	7.52	16.38	-	16.38	7.52
3	Bihar Distillers And Bottlers Private Limited	9.00	5	21.88%	8.90	8.21	7.31	-	7.31	8.21
4	Glatt Solution Private Limited	3.00	2	18.86%	2.68	7.02	1.88	-	1.88	7.02
5	Seci (Focal)	10.00	5	21.84%	9.96	5.91	5.89	-	5.89	5.91
6	SB Energy Six Private Limited (Ntpc)	300.00	162	28.95%	396.25	2.67	105.80	-	105.80	2.67
7	Responce Renewable Energy Private Limited	10.00	5	18.86%	8.60	7.02	6.04	-	6.04	7.02
8	Seci (Renew Sunwaves Private Limited)	300.00	162	27.97%	382.84	2.62	100.30	-	100.30	2.62
9	Seci (GRT Jewellers)	150.00	81	18.86%	129.07	2.60	33.56	-	33.56	2.60
10	Avantika Contractor (I) Pvt. Ltd.	5.00	3	18.86%	4.46	7.69	3.43	-	3.43	7.69
11	Welspun I	10.00	5	18.86%	8.92	8.69	7.75	-	7.75	8.69
12	Welspun II	15.00	8	18.86%	13.38	8.64	11.56	-	11.56	8.64
13	Welspun III	15.00	8	18.86%	13.38	8.56	11.46	-	11.46	8.56
14	Udipta Energy And Equipment Private Limited	5.00	3	18.86%	4.46	7.98	3.56	-	3.56	7.98
15	Sunmark Energy Project Limited	10.00	5	18.86%	8.92	7.02	6.26	-	6.26	7.02
16	Acme (Magadh)	10.00	5	18.86%	8.92	8.73	7.79	-	7.79	8.73
17	Acme (Nalanda)	15.00	8	18.86%	13.38	8.73	11.68	-	11.68	8.73
18	Azure Power Eris Pvt. Ltd.	10.00	5	18.86%	8.92	8.39	7.49	-	7.49	8.39
19	Avada Power Eris Pvt Ltd	50.00	27	18.86%	44.61	4.16	18.57	-	18.57	4.16
20	Alfa Infra Prop Pvt. Ltd.	10.00	5	18.86%	8.92	7.96	7.11	-	7.11	7.96
21	Seci (Vivid Solaire Energy Pvt. Ltd.)	50.00	27	31.76%	72.74	2.52	18.33	-	18.33	2.52
22	Seci (Green Infra Wind Energy Pvt. Ltd.)	100.00	54	31.76%	144.90	2.51	36.37	-	36.37	2.51
23	Seci (Morjar Windfarms Pvt. Ltd.)	50.00	27	21.84%	49.82	2.19	10.89	-	10.89	2.19
24	Seci (Greenko Sironj Wind Power Pvt. Ltd.)	100.00	54	31.76%	144.90	2.71	39.27	-	39.27	2.71
25	Ptc (Ostro Kutch Wind Private Limited)	50.00	27	31.76%	72.45	3.53	25.58	-	25.58	3.53
26	Ptc (Green Infra Renewable Energy Limited)	50.00	27	31.76%	72.45	3.53	25.58	-	25.58	3.53
27	Ptc (Mytrah Vayu Sabarmati Private Limited)	50.00	27	31.76%	72.45	3.53	25.58	-	25.58	3.53
28	Seci (Alfanar Energy Pvt. Ltd.)	50.00	27	31.76%	72.45	2.52	18.26	-	18.26	2.52
29	Seci (Ostro Kannada Powerprivate Limited)	300.00	162	29.78%	407.61	2.18	89.06	-	89.06	2.18

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	Avg PLF %	Units considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
30	Adani Solar	150.00	81	21.84%	149.47	2.72	40.65	-	40.65	2.72
31	Avada Clean	50.00	27	18.86%	44.61	3.11	13.87	-	13.87	3.11
32	Acme Deoghar/Acme Dhaulpur	150.00	81	21.84%	149.47	2.51	37.52	-	37.52	2.51
33	Sbe Renewables Sixteen Pvt Ltd	180.00	97	21.84%	179.36	2.72	48.79	-	48.79	2.72
34	Adani Green Energy	600.00	324	16.52%	37.69	2.52	9.50	-	9.50	2.52
35	Greenko Energy Hybrid	210.00	113	14.54%	139.31	4.57	63.66	-	63.66	4.57
36	Floating Solar	10.00	5	18.86%	8.92	3.87	3.45	-	3.45	3.87
37	Canal Bank Solar	2.00	1	18.86%	1.78	3.10	0.55	-	0.55	3.10
38	Acme Solar Jaiselmer	500.00	270	21.84%	498.22	2.51	125.05	-	125.05	2.51
	Grand Total	12,976.00	7,005.00		24,542.51		6,321.22	5,609.82	11,931.04	4.86

Table 6.27: Power Purchase Cost for FY 2026-27 as computed by Commission for NBPDC

Sl. No	Particulars	Bihar share allocation (MW)	NBPDC share allocation (MW)	Avg PLF %	Units considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
I	Stations with injection at CTU	7,206.00	3,316.00		14862.92		3976.28	3,553.92	7530.21	5.07
1	NTPC(Barh-I)	1,153	530	62.57%	1,598.54	3.26	520.54	400.20	920.74	5.76
2	NTPC(Barh-II)	802	369	91.43%	1,624.26	3.20	519.27	711.11	1,230.38	7.58
3	NTPC (Darlipalli)	324	149	80.72%	1,052.00	1.30	137.28	182.12	319.40	3.04
4	NTPC (Farakka - I & II)	410	189	62.89%	571.60	3.54	202.24	89.45	291.69	5.10
5	NTPC (Farakka - III)	98	45	62.89%	135.52	3.49	47.31	46.28	93.59	6.91
6	NTPC (Kahalgaun - I)	52	24	68.68%	142.58	2.91	41.55	69.33	110.89	7.78
7	NTPC (Kahalgaun - II)	63	29	76.92%	197.34	2.72	53.70	17.89	71.59	3.63
8	NTPC (North Karanpura)	594	273	77.78%	1,860.46	1.67	309.88	246.76	556.64	2.99
9	NTPC (Talchar)	404	186	80.97%	1,317.90	1.94	256.03	130.07	386.09	2.93
10	NTPC (Kbuni-II)	289	133	76.94%	896.28	2.78	248.81	240.54	489.36	5.46
11	NTPC North Karanpur Unit #3	297	137	77.77%	930.80	1.67	155.04	114.58	269.61	2.90
12	Nabinagar Power Generation Company Limited	1,639	754	76.00%	3118.84	3.04	948.48	1,207.93	2156.41	6.91
13	Bhartiya Rail Bijlee Company Limited	100	46	68.49%	151.79	3.22	48.87	67.05	115.92	7.64
14	NHPC (Rangit)	23	11	61.90%	55.19	2.35	13.00	11.42	24.42	4.42
15	NHPC (Teesta)	107	49	59.50%	239.19	1.37	32.70	19.19	51.89	2.17
16	PTC (Tala)	260	120	13.83%	139.77	2.67	37.33	-	37.33	2.67
17	PTC (Chukha)	93	43	40.88%	147.94	3.58	52.92	-	52.92	3.58
18	PTC (Mangdechhu)	285	131	38.29%	423.36	4.93	208.71	-	208.71	4.93
19	PTC (Kuruchu)	4	2	4.96%	0.66	3.49	0.23	-	0.23	3.49
20	PTC(Nepal)	209	96	85.00%	258.92	5.50	142.40	-	142.40	5.50
II	Stations with injection at STU	1,677.00	768.00		2,517.09		773.08	692.60	1,465.68	5.82
1	NTPC (Barauni-II)	500.00	230	63.52%	1,279.88	2.60	332.55	291.83	624.39	4.88
2	Buxar TPP Unit #1	561.00	258	77.77%	967.00	3.59	346.75	320.61	667.36	6.90
3	Buxar TPP Unit #2	561.00	258	78.86%	241.75	3.59	86.69	80.15	166.84	6.90
4	BSHPC	55.00	22	7.11%	28.46	2.49	7.09		7.09	2.49
III	IPPs	488.00	225.00		1,694.65		218.96	412.83	631.79	3.73
1	GMR Kamalanga Energy Limited	260.00	120	87.03%	911.73	1.34	121.87	167.20	289.07	3.17

Sl. No	Particulars	Bihar share allocation (MW)	NBPDC share allocation (MW)	Avg PLF %	Units considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
2	Jindal India Thermal Power Limited	228.00	105	85.22%	782.92	1.24	97.09	245.63	342.72	4.38
IV	Renewables	3,605.00	1,662.00		3,274.43		953.67	-	953.67	2.91
1	Tirupati Sugar Limited	6.00	3	54.59%	12.08	7.52	9.08	-	9.08	7.52
2	Hasanpur Sugar Mill	10.00	5	50.33%	17.01	7.52	12.79	-	12.79	7.52
3	Bihar Distillers And Bottlers Private Limited	9.00	4	21.88%	7.58	8.21	6.23	-	6.23	8.21
4	Glatt Solution Private Limited	3.00	1	18.86%	2.28	7.02	1.60	-	1.60	7.02
5	Seci (Focal)	10.00	5	21.84%	8.49	5.91	5.02	-	5.02	5.91
6	SB Energy Six Private Limited (Ntpc)	300.00	138	28.95%	337.55	2.67	90.12	-	90.12	2.67
7	Responce Renewable Energy Private Limited	10.00	5	18.86%	7.33	7.02	5.15	-	5.15	7.02
8	Seci (Renew Sunwaves Private Limited)	300.00	138	27.97%	326.12	2.62	85.44	-	85.44	2.62
9	Seci (GRT Jewellers)	150.00	69	18.86%	109.95	2.60	28.59	-	28.59	2.60
10	Avantika Contractor (I) Pvt. Ltd.	5.00	2	18.86%	3.80	7.69	2.92	-	2.92	7.69
11	Welspun I	10.00	5	18.86%	7.60	8.69	6.61	-	6.61	8.69
12	Welspun II	15.00	7	18.86%	11.40	8.64	9.85	-	9.85	8.64
13	Welspun III	15.00	7	18.86%	11.40	8.56	9.76	-	9.76	8.56
14	Udipta Energy And Equipment Private Limited	5.00	2	18.86%	3.80	7.98	3.03	-	3.03	7.98
15	Sunmark Energy Project Limited	10.00	5	18.86%	7.60	7.02	5.34	-	5.34	7.02
16	Acme (Magadh)	10.00	5	18.86%	7.60	8.73	6.63	-	6.63	8.73
17	Acme (Nalanda)	15.00	7	18.86%	11.40	8.73	9.95	-	9.95	8.73
18	Azure Power Eris Pvt. Ltd.	10.00	5	18.86%	7.60	8.39	6.38	-	6.38	8.39
19	Avada Power Eris Pvt Ltd	50.00	23	18.86%	38.00	4.16	15.81	-	15.81	4.16
20	Alfa Infra Prop Pvt. Ltd.	10.00	5	18.86%	7.60	7.96	6.05	-	6.05	7.96
21	Seci (Vivid Solaire Energy Pvt. Ltd.)	50.00	23	31.76%	61.97	2.52	15.61	-	15.61	2.52
22	Seci (Green Infra Wind Energy Pvt. Ltd.)	100.00	46	31.76%	123.44	2.51	30.98	-	30.98	2.51
23	Seci (Morjar Windfarms Pvt. Ltd.)	50.00	23	21.84%	42.44	2.19	9.27	-	9.27	2.19
24	Seci (Greenko Sironj Wind Power Pvt. Ltd.)	100.00	46	31.76%	123.44	2.71	33.45	-	33.45	2.71
25	Ptc (Ostro Kutch Wind Private Limited)	50.00	23	31.76%	61.72	3.53	21.79	-	21.79	3.53
26	Ptc (Green Infra Renewable Energy Limited)	50.00	23	31.76%	61.72	3.53	21.79	-	21.79	3.53
27	Ptc (Mytrah Vayu Sabarmati Private Limited)	50.00	23	31.76%	61.72	3.53	21.79	-	21.79	3.53
28	Seci (Alfanar Energy Pvt. Ltd.)	50.00	23	31.76%	61.72	2.52	15.55	-	15.55	2.52
29	Seci (Ostro Kannada Powerprivate Limited)	300.00	138	29.78%	347.22	2.18	75.87	-	75.87	2.18

Sl. No	Particulars	Bihar share allocation (MW)	NBPDC share allocation (MW)	Avg PLF %	Units considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
30	Adani Solar	150.00	69	21.84%	127.32	2.72	34.63	-	34.63	2.72
31	Avada Clean	50.00	23	18.86%	38.00	3.11	11.82	-	11.82	3.11
32	Acme Deoghar/Acme Dhaulpur	150.00	69	21.84%	127.32	2.51	31.96	-	31.96	2.51
33	Sbe Renewables Sixteen Pvt Ltd	180.00	83	21.84%	152.79	2.72	41.56	-	41.56	2.72
34	Adani Green Energy	600.00	276	16.52%	385.23	2.52	97.08	-	97.08	2.52
35	Greenko Energy Hybrid	210.00	97	14.54%	118.67	4.57	54.23	-	54.23	4.57
36	Floating Solar	10.00	5	18.86%	7.60	3.87	2.94	-	2.94	3.87
37	Canal Bank Solar	2.00	1	18.86%	1.52	3.10	0.47	-	0.47	3.10
38	Acme Solar Jaiselmer	500.00	230	21.84%	424.41	2.51	106.53	-	106.53	2.51
	Grand Total	12,976.00	5,971.00		22349.10		5922.00	4,659.35	10581.35	4.73

Table 6.28: Power Purchase Cost for FY 2026-27 as computed by Commission for SBPDCL

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	Avg PLF %	Units considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
I	Stations with injection at CTU	7,206.00	3,890.00		17447.78		4667.81	4,428.10	9095.91	5.21
1	NTPC(Barh-I)	1,153	623	62.57%	1,876.55	3.26	611.07	499.53	1,110.59	5.92
2	NTPC(Barh-II)	802	433	91.43%	1,906.74	3.20	609.58	887.62	1,497.20	7.85
3	NTPC (Darlipalli)	324	175	80.72%	1,234.96	1.30	161.15	227.33	388.48	3.15
4	NTPC (Farakka - I & II)	410	221	62.89%	671.01	3.54	237.41	112.43	349.84	5.21
5	NTPC (Farakka - III)	98	53	62.89%	159.09	3.49	55.54	57.96	113.50	7.13
6	NTPC (Kahalgaun - I)	52	28	68.68%	167.37	2.91	48.78	86.54	135.33	8.09
7	NTPC (Kahalgaun - II)	63	34	76.92%	231.66	2.72	63.04	22.34	85.38	3.69
8	NTPC (North Karanpura)	594	321	77.78%	2,184.01	1.67	363.77	308.01	671.78	3.08
9	NTPC (Talchar)	404	218	80.97%	1,547.10	1.94	300.55	162.35	462.90	2.99
10	NTPC (Kbunl-II)	289	156	76.94%	1,052.15	2.78	292.09	300.25	592.33	5.63
11	NTPC North Karanpur Unit #3	297	160	77.77%	1,092.68	1.67	182.00	134.12	316.12	2.89
12	Nabinagar Power Generation Company Limited	1,639	885	76.00%	3661.24	3.04	1113.43	1,507.74	2621.18	7.16
13	Bhartiya Rail Bijlee Company Limited	100	54	68.49%	178.18	3.22	57.37	83.68	141.05	7.92
14	NHPC (Rangit)	23	12	61.90%	64.79	2.35	15.26	14.25	29.51	4.55
15	NHPC (Teesta)	107	58	59.50%	280.79	1.37	38.39	23.95	62.34	2.22
16	PTC (Tala)	260	140	13.83%	164.08	2.67	43.82	-	43.82	2.67
17	PTC (Chukha)	93	50	40.88%	173.67	3.58	62.12	-	62.12	3.58
18	PTC (Mangdechhu)	285	154	38.29%	496.99	4.93	245.01	-	245.01	4.93
19	PTC (Kuruchu)	4	2	4.96%	0.77	3.49	0.27	-	0.27	3.49
20	PTC(Nepal)	209	113	85.00%	303.95	5.50	167.17	-	167.17	5.50
II	Stations with injection at STU	1,677.00	909.00		2,954.85		907.53	834.72	1,742.25	5.90
1	NTPC (Barauni-II)	500.00	270	63.52%	1,502.47	2.60	390.39	364.27	754.66	5.02
2	Buxar TPP Unit #1	561.00	303	77.77%	1,135.18	3.59	407.06	376.36	783.42	6.90
3	Buxar TPP Unit #2	561.00	303	78.86%	283.80	3.59	101.76	94.09	195.86	6.90
4	BSHPC	55.00	33	7.11%	33.41	2.49	8.32	-	8.32	2.49
III	IPPs	488.00	263.00		1,989.38		257.04	515.29	772.34	3.88

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	Avg PLF %	Units considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
1	GMR Kamalanga Energy Limited	260.00	140	87.03%	1,070.30	1.34	143.07	208.69	351.76	3.29
2	Jindal India Thermal Power Limited	228.00	123	85.22%	919.08	1.24	113.97	306.60	420.57	4.58
IV	Renewables	3,605.00	1,943.00		3,843.90		1,119.53	-	1,119.53	2.91
1	Tirupati Sugar Limited	6.00	3	54.59%	14.18	7.52	10.66	-	10.66	7.52
2	Hasanpur Sugar Mill	10.00	5	50.33%	19.97	7.52	15.02	-	15.02	7.52
3	Bihar Distillers And Bottlers Private Limited	9.00	5	21.88%	8.90	8.21	7.31	-	7.31	8.21
4	Glatt Solution Private Limited	3.00	2	18.86%	2.68	7.02	1.88	-	1.88	7.02
5	Seci (Focal)	10.00	5	21.84%	9.96	5.91	5.89	-	5.89	5.91
6	SB Energy Six Private Limited (Ntpc)	300.00	162	28.95%	396.25	2.67	105.80	-	105.80	2.67
7	Responce Renewable Energy Private Limited	10.00	5	18.86%	8.60	7.02	6.04	-	6.04	7.02
8	Seci (Renew Sunwaves Private Limited)	300.00	162	27.97%	382.84	2.62	100.30	-	100.30	2.62
9	Seci (GRT Jewellers)	150.00	81	18.86%	129.07	2.60	33.56	-	33.56	2.60
10	Avantika Contractor (I) Pvt. Ltd.	5.00	3	18.86%	4.46	7.69	3.43	-	3.43	7.69
11	Welspun I	10.00	5	18.86%	8.92	8.69	7.75	-	7.75	8.69
12	Welspun II	15.00	8	18.86%	13.38	8.64	11.56	-	11.56	8.64
13	Welspun III	15.00	8	18.86%	13.38	8.56	11.46	-	11.46	8.56
14	Udipta Energy And Equipment Private Limited	5.00	3	18.86%	4.46	7.98	3.56	-	3.56	7.98
15	Sunmark Energy Project Limited	10.00	5	18.86%	8.92	7.02	6.26	-	6.26	7.02
16	Acme (Magadh)	10.00	5	18.86%	8.92	8.73	7.79	-	7.79	8.73
17	Acme (Nalanda)	15.00	8	18.86%	13.38	8.73	11.68	-	11.68	8.73
18	Azure Power Eris Pvt. Ltd.	10.00	5	18.86%	8.92	8.39	7.49	-	7.49	8.39
19	Avada Power Eris Pvt Ltd	50.00	27	18.86%	44.61	4.16	18.57	-	18.57	4.16
20	Alfa Infra Prop Pvt. Ltd.	10.00	5	18.86%	8.92	7.96	7.11	-	7.11	7.96
21	Seci (Vivid Solaire Energy Pvt. Ltd.)	50.00	27	31.76%	72.74	2.52	18.33	-	18.33	2.52
22	Seci (Green Infra Wind Energy Pvt. Ltd.)	100.00	54	31.76%	144.90	2.51	36.37	-	36.37	2.51
23	Seci (Morjar Windfarms Pvt. Ltd.)	50.00	27	21.84%	49.82	2.19	10.89	-	10.89	2.19
24	Seci (Greenko Sironj Wind Power Pvt. Ltd.)	100.00	54	31.76%	144.90	2.71	39.27	-	39.27	2.71
25	Ptc (Ostro Kutch Wind Private Limited)	50.00	27	31.76%	72.45	3.53	25.58	-	25.58	3.53
26	Ptc (Green Infra Renewable Energy Limited)	50.00	27	31.76%	72.45	3.53	25.58	-	25.58	3.53
27	Ptc (Mytrah Vayu Sabarmati Private Limited)	50.00	27	31.76%	72.45	3.53	25.58	-	25.58	3.53
28	Seci (Alfanar Energy Pvt. Ltd.)	50.00	27	31.76%	72.45	2.52	18.26	-	18.26	2.52

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	Avg PLF %	Units considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
29	Seci (Ostro Kannada Powerprivate Limited)	300.00	162	29.78%	407.61	2.18	89.06	-	89.06	2.18
30	Adani Solar	150.00	81	21.84%	149.47	2.72	40.65	-	40.65	2.72
31	Avada Clean	50.00	27	18.86%	44.61	3.11	13.87	-	13.87	3.11
32	Acme Deoghar/Acme Dhaulpur	150.00	81	21.84%	149.47	2.51	37.52	-	37.52	2.51
33	Sbe Renewables Sixteen Pvt Ltd	180.00	97	21.84%	179.36	2.72	48.79	-	48.79	2.72
34	Adani Green Energy	600.00	324	16.52%	452.23	2.52	113.96	-	113.96	2.52
35	Greenko Energy Hybrid	210.00	113	14.54%	139.31	4.57	63.66	-	63.66	4.57
36	Floating Solar	10.00	5	18.86%	8.92	3.87	3.45	-	3.45	3.87
37	Canal Bank Solar	2.00	1	18.86%	1.78	3.10	0.55	-	0.55	3.10
38	Acme Solar Jaiselmer	500.00	270	21.84%	498.22	2.51	125.05	-	125.05	2.51
	Grand Total	12,976.00	7,005.00		26235.91		6951.91	5,778.12	12730.03	4.85

Table 6.29: Power Purchase Cost for FY 2027-28 as computed by Commission for NBPDC

Sl. No	Particulars	Bihar share allocation (MW)	NBPDC share allocation (MW)	Avg PLF %	Units Considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
I	Stations with injection at CTU	7,206.00	3,316.00		16547.17		4628.18	3,660.54	8288.72	5.01
1	NTPC(Barh-I)	1,153	530	62.57%	1,598.54	3.35	536.15	412.21	948.36	5.93
2	NTPC(Barh-II)	802	369	91.43%	1,624.26	3.29	534.85	732.45	1,267.29	7.80
3	NTPC (Darlipalli)	324	149	80.72%	1,052.00	1.34	141.39	187.59	328.98	3.13
4	NTPC (Farakka - I & II)	410	189	62.89%	571.60	3.64	208.30	92.13	300.44	5.26
5	NTPC (Farakka - III)	98	45	62.89%	135.52	3.60	48.73	47.67	96.40	7.11
6	NTPC (Kahalgaun - I)	52	24	68.68%	142.58	3.00	42.80	71.41	114.21	8.01
7	NTPC (Kahalgaun - II)	63	29	76.92%	197.34	2.80	55.31	18.42	73.74	3.74
8	NTPC (North Karanpura)	594	273	77.78%	1,860.46	1.72	319.18	254.16	573.34	3.08
9	NTPC (Talchar)	404	186	80.97%	1,317.90	2.00	263.71	133.97	397.68	3.02
10	NTPC (Kbunl-II)	289	133	76.94%	896.28	2.86	256.28	247.76	504.04	5.62
11	NTPC North Karanpur Unit #3	297	137	77.77%	930.80	1.72	159.69	118.01	277.70	2.98
12	Nabinagar Power Generation Company Limited	1,639	754	76.00%	4806.07	3.13	1505.44	1,244.17	2749.61	5.72

Sl. No	Particulars	Bihar share allocation (MW)	NBPDC share allocation (MW)	Avg PLF %	Units Considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
13	Bhartiya Rail Bijlee Company Limited	100	46	68.49%	151.79	3.32	50.34	69.06	119.40	7.87
14	NHPC (Rangit)	23	11	61.90%	54.62	2.49	13.58	11.76	25.34	4.64
15	NHPC (Teesta)	107	49	59.50%	236.78	1.44	34.18	19.76	53.94	2.28
16	PTC (Tala)	260	120	13.83%	139.77	2.82	39.41	-	39.41	2.82
17	PTC (Chukha)	93	43	40.88%	147.94	3.78	55.86	-	55.86	3.78
18	PTC (Mangdechhu)	285	131	38.29%	423.36	5.20	220.34	-	220.34	5.20
19	PTC (Kuruchu)	4	2	4.96%	0.66	3.68	0.24	-	0.24	3.68
20	PTC(Nepal)	209	96	85.00%	258.92	5.50	142.40	-	142.40	5.50
II	Stations with injection at STU	1,677.00	768.00		2,517.09		796.06	713.38	1,509.44	6.00
1	NTPC (Barauni-II)	500.00	230	63.52%	1,279.88	2.68	342.53	300.59	643.12	5.02
2	Buxar TPP Unit #1	561.00	258	77.77%	967.00	3.69	357.15	330.23	687.38	7.11
3	Buxar TPP Unit #2	561.00	258	78.86%	241.75	3.69	89.29	82.56	171.85	7.11
4	BSHPC	55.00	22	7.11%	28.46	2.49	7.09	-	7.09	2.49
III	IPPs	488.00	225.00		1,694.65		225.53	425.22	650.75	3.84
1	GMR Kamalanga Energy Limited	260.00	120	87.03%	911.73	1.38	125.53	172.21	297.74	3.27
2	Jindal India Thermal Power Limited	228.00	105	85.22%	782.92	1.28	100.00	253.00	353.00	4.51
IV	Renewables	3,595.00	1,657.00		3,257.42		940.88	-	940.88	2.89
	Tirupati Sugar Limited	6.00	3	54.59%	12.08	7.52	9.08	-	9.08	7.52
	Bihar Distillers And Bottlers Private Limited	9.00	4	21.88%	7.58	8.21	6.23	-	6.23	8.21
	Glatt Solution Private Limited	3.00	1	18.86%	2.28	7.02	1.60	-	1.60	7.02
	Seci (Focal)	10.00	5	21.84%	8.49	5.91	5.02	-	5.02	5.91
	SB Energy Six Private Limited (Ntpc)	300.00	138	28.95%	337.55	2.67	90.12	-	90.12	2.67
	Responce Renewable Energy Private Limited	10.00	5	18.86%	7.33	7.02	5.15	-	5.15	7.02
	Seci (Renew Sunwaves Private Limited)	300.00	138	27.97%	326.12	2.62	85.44	-	85.44	2.62
	Seci (GRT Jewellers)	150.00	69	18.86%	109.95	2.60	28.59	-	28.59	2.60
	Avantika Contractor (I) Pvt. Ltd.	5.00	2	18.86%	3.80	7.69	2.92	-	2.92	7.69
	Welspun I	10.00	5	18.86%	7.60	8.69	6.61	-	6.61	8.69
	Welspun II	15.00	7	18.86%	11.40	8.64	9.85	-	9.85	8.64
	Welspun III	15.00	7	18.86%	11.40	8.56	9.76	-	9.76	8.56

Sl. No	Particulars	Bihar share allocation (MW)	NBPDCCL share allocation (MW)	Avg PLF %	Units Considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
	Udipta Energy And Equipment Private Limited	5.00	2	18.86%	3.80	7.98	3.03	-	3.03	7.98
	Sunmark Energy Project Limited	10.00	5	18.86%	7.60	7.02	5.34	-	5.34	7.02
	Acme (Magadh)	10.00	5	18.86%	7.60	8.73	6.63	-	6.63	8.73
	Acme (Nalanda)	15.00	7	18.86%	11.40	8.73	9.95	-	9.95	8.73
	Azure Power Eris Pvt. Ltd.	10.00	5	18.86%	7.60	8.39	6.38	-	6.38	8.39
	Avada Power Eris Pvt Ltd	50.00	23	18.86%	38.00	4.16	15.81	-	15.81	4.16
	Alfa Infra Prop Pvt. Ltd.	10.00	5	18.86%	7.60	7.96	6.05	-	6.05	7.96
	Seci (Vivid Solaire Energy Pvt. Ltd.)	50.00	23	31.76%	61.97	2.52	15.61	-	15.61	2.52
	Seci (Green Infra Wind Energy Pvt. Ltd.)	100.00	46	31.76%	123.44	2.51	30.98	-	30.98	2.51
	Seci (Morjar Windfarms Pvt. Ltd.)	50.00	23	21.84%	42.44	2.19	9.27	-	9.27	2.19
	Seci (Greenko Sironj Wind Power Pvt. Ltd.)	100.00	46	31.76%	123.44	2.71	33.45	-	33.45	2.71
	Ptc (Ostro Kutch Wind Private Limited)	50.00	23	31.76%	61.72	3.53	21.79	-	21.79	3.53
	Ptc (Green Infra Renewable Energy Limited)	50.00	23	31.76%	61.72	3.53	21.79	-	21.79	3.53
	Ptc (Mytrah Vayu Sabarmati Private Limited)	50.00	23	31.76%	61.72	3.53	21.79	-	21.79	3.53
	Seci (Alfanar Energy Pvt. Ltd.)	50.00	23	31.76%	61.72	2.52	15.55	-	15.55	2.52
	Seci (Ostro Kannada Powerprivate Limited)	300.00	138	29.78%	347.22	2.18	75.87	-	75.87	2.18
	Adani Solar	150.00	69	21.84%	127.32	2.72	34.63	-	34.63	2.72
	Avada Clean	50.00	23	18.86%	38.00	3.11	11.82	-	11.82	3.11
	Acme Deoghar/Acme Dhaulpur	150.00	69	21.84%	127.32	2.51	31.96	-	31.96	2.51
	Sbe Renewables Sixteen Pvt Ltd	180.00	83	21.84%	152.79	2.72	41.56	-	41.56	2.72
	Adani Green Energy	600.00	276	16.52%	385.23	2.52	97.08	-	97.08	2.52
	Greenko Energy Hybrid	210.00	97	14.54%	118.67	4.57	54.23	-	54.23	4.57
	Floating Solar	10.00	5	18.86%	7.60	3.87	2.94	-	2.94	3.87
	Canal Bank Solar	2.00	1	18.86%	1.52	3.10	0.47	-	0.47	3.10
	Acme Solar Jaiselmer	500.00	230	21.84%	424.41	2.51	106.53	-	106.53	2.51
	Grand Total	12,966.00	5,966.00		24016.34		6590.65	4,799.13	11389.78	4.74

Table 6.30: Power Purchase Cost for FY 2027-28 as computed by Commission for SBPDCL

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	Avg PLF %	Unit Considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
I	Stations with injection at CTU	7,206.00	3,890.00		19424.94		5433.08	4,560.94	9994.02	5.14
1	NTPC(Barh-I)	1,153	623	62.57%	1,876.55	3.35	629.40	514.52	1,143.91	6.10
2	NTPC(Barh-II)	802	433	91.43%	1,906.74	3.29	627.86	914.25	1,542.11	8.09
3	NTPC (Darlipalli)	324	175	80.72%	1,234.96	1.34	165.99	234.15	400.14	3.24
4	NTPC (Farakka - I & II)	410	221	62.89%	671.01	3.64	244.53	115.80	360.33	5.37
5	NTPC (Farakka - III)	98	53	62.89%	159.09	3.60	57.20	59.70	116.90	7.35
6	NTPC (Kahalgaun - I)	52	28	68.68%	167.37	3.00	50.24	89.14	139.38	8.33
7	NTPC (Kahalgaun - II)	63	34	76.92%	231.66	2.80	64.93	23.01	87.94	3.80
8	NTPC (North Karanpura)	594	321	77.78%	2,184.01	1.72	374.69	317.25	691.93	3.17
9	NTPC (Talchar)	404	218	80.97%	1,547.10	2.00	309.57	167.22	476.79	3.08
10	NTPC (Kbunl-II)	289	156	76.94%	1,052.15	2.86	300.85	309.26	610.10	5.80
11	NTPC North Karanpur Unit #3	297	160	77.77%	1,092.68	1.72	187.46	138.14	325.60	2.98
12	Nabinagar Power Generation Company Limited	1,639	885	76.00%	5641.91	3.13	1767.25	1,552.98	3320.23	5.88
13	Bhartiya Rail Bijlee Company Limited	100	54	68.49%	178.18	3.32	59.09	86.19	145.29	8.15
14	NHPC (Rangit)	23	12	61.90%	64.11	2.49	15.94	14.68	30.61	4.77
15	NHPC (Teesta)	107	58	59.50%	277.96	1.44	40.12	24.67	64.79	2.33
16	PTC (Tala)	260	140	13.83%	164.08	2.82	46.26	-	46.26	2.82
17	PTC (Chukha)	93	50	40.88%	173.67	3.78	65.58	-	65.58	3.78
18	PTC (Mangdechhu)	285	154	38.29%	496.99	5.20	258.66	-	258.66	5.20
19	PTC (Kuruchu)	4	2	4.96%	0.77	3.68	0.28	-	0.28	3.68
20	PTC(Nepal)	209	113	85.00%	303.95	5.50	167.17	-	167.17	5.50
II	Stations with injection at STU	1,677.00	909.00		2,954.85		934.51	859.77	1,794.27	6.07
1	NTPC (Barauni-II)	500.00	270	63.52%	1,502.47	2.68	402.10	375.20	777.30	5.17
2	Buxar TPP Unit #1	561.00	303	77.77%	1,135.18	3.69	419.27	387.65	806.92	7.11
3	Buxar TPP Unit #2	561.00	303	78.86%	283.80	3.69	104.82	96.91	201.73	7.11
4	BSHPC	55.00	33	7.11%	33.41	2.49	8.32	-	8.32	2.49
III	IPPs	488.00	263.00		1,989.38		264.75	530.75	795.51	4.00
1	GMR Kamalanga Energy Limited	260.00	140	87.03%	1,070.30	1.38	147.36	214.95	362.32	3.39

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	Avg PLF %	Unit Considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
2	Jindal India Thermal Power Limited	228.00	123	85.22%	919.08	1.28	117.39	315.80	433.19	4.71
IV	Renewables	3,595.00	1,938.00		3,823.93		1,104.51	-	1,104.51	2.89
	Tirupati Sugar Limited	6.00	3	54.59%	14.18	7.52	10.66	-	10.66	7.52
	Bihar Distillers And Bottlers Private Limited	9.00	5	21.88%	8.90	8.21	7.31	-	7.31	8.21
	Glatt Solution Private Limited	3.00	2	18.86%	2.68	7.02	1.88	-	1.88	7.02
	Seci (Focal)	10.00	5	21.84%	9.96	5.91	5.89	-	5.89	5.91
	SB Energy Six Private Limited (Ntpc)	300.00	162	28.95%	396.25	2.67	105.80	-	105.80	2.67
	Responce Renewable Energy Private Limited	10.00	5	18.86%	8.60	7.02	6.04	-	6.04	7.02
	Seci (Renew Sunwaves Private Limited)	300.00	162	27.97%	382.84	2.62	100.30	-	100.30	2.62
	Seci (GRT Jewellers)	150.00	81	18.86%	129.07	2.60	33.56	-	33.56	2.60
	Avantika Contractor (I) Pvt. Ltd.	5.00	3	18.86%	4.46	7.69	3.43	-	3.43	7.69
	Welspun I	10.00	5	18.86%	8.92	8.69	7.75	-	7.75	8.69
	Welspun II	15.00	8	18.86%	13.38	8.64	11.56	-	11.56	8.64
	Welspun III	15.00	8	18.86%	13.38	8.56	11.46	-	11.46	8.56
	Udipta Energy And Equipment Private Limited	5.00	3	18.86%	4.46	7.98	3.56	-	3.56	7.98
	Sunmark Energy Project Limited	10.00	5	18.86%	8.92	7.02	6.26	-	6.26	7.02
	Acme (Magadh)	10.00	5	18.86%	8.92	8.73	7.79	-	7.79	8.73
	Acme (Nalanda)	15.00	8	18.86%	13.38	8.73	11.68	-	11.68	8.73
	Azure Power Eris Pvt. Ltd.	10.00	5	18.86%	8.92	8.39	7.49	-	7.49	8.39
	Avada Power Eris Pvt Ltd	50.00	27	18.86%	44.61	4.16	18.57	-	18.57	4.16
	Alfa Infra Prop Pvt. Ltd.	10.00	5	18.86%	8.92	7.96	7.11	-	7.11	7.96
	Seci (Vivid Solaire Energy Pvt. Ltd.)	50.00	27	31.76%	72.74	2.52	18.33	-	18.33	2.52
	Seci (Green Infra Wind Energy Pvt. Ltd.)	100.00	54	31.76%	144.90	2.51	36.37	-	36.37	2.51
	Seci (Morjar Windfarms Pvt. Ltd.)	50.00	27	21.84%	49.82	2.19	10.89	-	10.89	2.19
	Seci (Greenko Sironj Wind Power Pvt. Ltd.)	100.00	54	31.76%	144.90	2.71	39.27	-	39.27	2.71
	Ptc (Ostro Kutch Wind Private Limited)	50.00	27	31.76%	72.45	3.53	25.58	-	25.58	3.53
	Ptc (Green Infra Renewable Energy Limited)	50.00	27	31.76%	72.45	3.53	25.58	-	25.58	3.53
	Ptc (Mytrah Vayu Sabarmati Private Limited)	50.00	27	31.76%	72.45	3.53	25.58	-	25.58	3.53
	Seci (Alfanar Energy Pvt. Ltd.)	50.00	27	31.76%	72.45	2.52	18.26	-	18.26	2.52
	Seci (Ostro Kannada Powerprivate Limited)	300.00	162	29.78%	407.61	2.18	89.06	-	89.06	2.18
	Adani Solar	150.00	81	21.84%	149.47	2.72	40.65	-	40.65	2.72

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	Avg PLF %	Unit Considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
	Avada Clean	50.00	27	18.86%	44.61	3.11	13.87	-	13.87	3.11
	Acme Deoghar/Acme Dhaulpur	150.00	81	21.84%	149.47	2.51	37.52	-	37.52	2.51
	Sbe Renewables Sixteen Pvt Ltd	180.00	97	21.84%	179.36	2.72	48.79	-	48.79	2.72
	Adani Green Energy	600.00	324	16.52%	452.23	2.52	113.96	-	113.96	2.52
	Greenko Energy Hybrid	210.00	113	14.54%	139.31	4.57	63.66	-	63.66	4.57
	Floating Solar	10.00	5	18.86%	8.92	3.87	3.45	-	3.45	3.87
	Canal Bank Solar	2.00	1	18.86%	1.78	3.10	0.55	-	0.55	3.10
	Acme Solar Jaiselmer	500.00	270	21.84%	498.22	2.51	125.05	-	125.05	2.51
	Grand Total	12,966.00	7,000.00		28193.10		7736.85	5,951.46	13688.31	4.86

It is observed that Petitioners have estimated the PGCIL and POSCO transmission charges with an escalation of 10.00% over that of actuals of FY 2023-24, without any valid explanation. The Commission has reviewed the PGCIL charges paid in past and decides to considers a 3% growth on the actual amount paid in FY 2023-24 for FY 2025-26 to 2027-28 of PGCIL, under review. Whereas Commission consider POSCO charges as projected by the Petitioner. Therefore, the Commission approves the PGCIL and POSCO charges as shown in below for FY 2025-26 to 2027-28.

Table 6.31: PGCIL and POSOCO Charges approved for FY 2025-26 to 2027-28 (Rs.Crore)

Sl. No	Particulars	FY 2025-26	FY 2026-27	FY 2027-28
	SBPDCL			
1	PGCIL Charges	1,224.14	1,260.86	1,298.69
2	Grid India (POSOCO) Charges	6.81	7.49	8.24
3	Total	1,230.95	1,268.35	1,306.93
	NBPDC			
1	PGCIL Charges	949.00	977.47	1,006.79
2	Grid India (POSOCO) Charges	5.80	6.38	7.02
3	Total	954.80	983.85	1,013.81

BSPTCL Transmission Charges

The Commission has approved the transmission charges of BSPTCL for FY 2025-26 to 2027-28 in BSPTCL Tariff Order dated 28th March 2025 as given in the Table below. The Commission has allocated the same among SBPDCL and NBPDC in their power purchase sharing ratio of 54:46 respectively. Accordingly, the Commission has considered the BSPTCL Transmission charges for FY 2025-26 to 2027-28 and included the same in the power purchase cost of Discoms.

Table 6.32: BSPTCL Charges approved for Discoms for FY 2025-26 to 2027-28 (Rs. Crore)

Sl. No	Particulars	FY 2025-26	FY 2026-27	FY 2027-28
	BSPTCL Charges approved in its Tariff Order for FY 2025-26	1,562.40	1,891.66	2,038.26
1	SBPDCL (54%)	843.70	1,021.50	1,100.66
2	NBPDC (46%)	718.70	870.16	937.60

Bihar Grid Company Limited (BGCL) Transmission Charges

The Commission has approved the transmission charges of for FY 2025-26 to FY 2027-28 in BGCL Tariff Order dated 28th March 2025 as given in the Table below.

The Commission has allocated the same to SBPDCL and NBPDC in their power purchase sharing ratio of 54:46 respectively. Accordingly, the Commission has considered the BGCL

transmission charges for FY 2025-26 to FY 2027-28 and included the same in the Power purchase cost of Discoms.

Table 6.33: BGCL Charges approved for Discoms for FY 2025-26 to 2027-28 (Rs. Crore)

Sl. No	Particulars	FY 2025-26	FY 2026-27	FY 2027-28
	BGCL Charges approved in its Tariff Order for FY 2025-26	319.88	470.02	455.76
1	SBPDCL (54%)	172.74	253.81	246.11
2	NBPDC (46%)	147.14	216.21	209.65

SLDC Charges

The Commission has approved the SLDC charges for FY 2025-26 to FY 2027-28 in SLDC Tariff Order dated 28th March 2025 as given in Table below. The Commission has allocated to SBPDCL and NBPDC in their power purchase sharing ratio of 54 : 46 respectively. Accordingly, the Commission has considered SLDC charges for FY 2025-26 to FY 2027-28 and included in the power purchase cost of the DISCOMs.

Table 6.34: SLDC Charges approved for Discoms for FY 2025-26 to 2027-28 (Rs. Crore)

Sl. No	Particulars	FY 2025-26	FY 2026-27	FY 2027-28
	SLDC Charges approved in its Tariff Order for FY 2025-26	28.06	27.52	29.44
1	SBPDCL (54%)	15.15	14.86	15.90
2	NBPDC (46%)	12.91	12.66	13.54

Total Power Purchase Cost

The total power purchase cost approved for the Discoms for the FY 2025-26 to 2027-28 are given in the Table below:

Table 6.35: Total Power Purchase Cost approved for FY 2025-26 to 2027-28 (Rs. Crore)

Sl. No.	Particulars	FY 2025-26			FY 2026-27			FY 2027-28		
		NB	SB	Total	NB	SB	Total	NB	SB	Total
1	Power Purchase Cost	9,908.39	11,931.04	21,839.43	10581.35	12730.03	23311.38	11389.78	13688.31	25078.09
2	POSOCO Charges	5.80	6.81	12.61	6.38	7.49	13.88	7.02	8.24	15.26
3	PGCIL Charges	949.00	1,224.14	2,173.13	977.47	1,260.86	2,238.33	1,006.79	1,298.69	2,305.48
4	BSPTCL Charges	718.70	843.70	1,562.40	870.16	1,021.50	1,891.66	937.60	1,100.66	2,038.26
5	SLDC Charges	12.91	15.15	28.06	12.66	14.86	27.52	13.54	15.90	29.44
6	BGCL Charges	147.14	172.74	319.99	216.21	253.81	470.02	209.65	246.11	455.76
7	Total	11,741.13	14,193.58	25,935.63	12664.23	15288.55	27952.78	13654.38	16357.91	29922.29

The Commission approves total power purchase cost of for both companies put together for

FY 2025-26 to FY 2027-28 as shown in the table above.

6.7 Renewable Power Purchase Obligation

Petitioner's Submission

The Commission has notified the BERC (Renewable Purchase Obligation, its Compliance and REC Framework Implementation) Regulations, 2010 and BERC (Terms and Conditions for Tariff Determination from Solar Energy Sources) Regulations, 2010 and its amendment. Further the Commission initiated a Suo-Motu proceedings no. 42/2016 dated 24.11.2016 to bring in 2nd amendment in the BERC (Renewable Purchase Obligation, its Compliance and REC Framework Implementation) Regulations, 2010 dated 29.03.2017 to incorporate the various new/amended provisions specified in the revised Tariff Policy, 2016 notified by the Ministry of Power Govt. of India vide gazette notification dated 28.01.2016. The Commission has also published its 3rd amendment. Further, Ministry of Power, Govt. of India, through its order no. 09/13/2021-RCM dated 22.07.2022 specified separate Wind RPO, HPO and other RPO within the overall RPO target for the FY 2022-23 to FY 2029-30. Subsequently, BERC has adopted the RPO target as specified by the MoP for the year FY 2022-23 to FY 2029-30. Further the Commission through a Suo-Motu proceedings brought in 4th amendment in the BERC (Renewable Purchase Obligation, its Compliance and REC Framework Implementation) Regulations, 2010.

As per the BERC 4th Amendment of RPO Regulations, the targets were determined for wind, HPO and other RPO. The Regulation 4.1 (Amended) specify:

“(a) Wind RPO Shall be met only by energy produced from Wind Power Projects (WPPs) commissioned after 31st March 2022 and the wind energy consumed over and above 7% from WPPs commissioned till 31st March 2022.

HPO shall be met only by energy produced from LHPs (including PSPs and small hydro projects (SHPs)), commissioned after 8th March 2019.

Other RPO may be met by energy produced from any RE based / green energy-based power project not mentioned in (a) and (b) above.

Provided that, HPO obligation of the state/DISCOM may be met out of the free power being provided to the state of Bihar from Large Hydro Plants(LHPs) (including Pump Storage Plants (PSPs)), commissioned after 8th March, 2019 as per agreement at that point of time excluding the contribution towards Local Area Development

Fund (LADF), if consumed within the state/DISCOM.

In case, the free power mentioned above is insufficient to meet the HPO obligations, then the obligated entity would have to buy the additional hydro power to meet its HPO obligation or may have to buy corresponding amount of Renewable Energy Certificate corresponding to Hydro Power.

Provided that Hydro power imported from outside India shall not be considered for meeting HPO.....”

Minimum quantum of electricity to be procured from Renewable Sources by Obligated Entity as percentage of total consumption is provided in table below

Table 6.36: Renewable Purchase Obligation (%) (NBPDCCL & SBPDCL)

FY	Wind RPO	HPO	Other RPO	Total RPO
2022-23	0.81%	0.35%	23.44%	24.60%
2023-24	1.60%	0.66%	24.81%	27.08%
2024-25	2.46%	1.08%	26.37%	29.91%
2025-26	3.36%	1.48%	28.17%	33.01%
2026-27	4.29%	1.80%	29.86%	35.95%
2027-28	5.23%	2.15%	31.43%	38.81%
2028-29	6.16%	2.51%	32.69%	41.36%
2029-30	6.94%	2.82%	33.57%	43.33%

The Licensees are already taking steps to ensure that they enhance their Renewable Energy mix and accordingly anticipate addition in Solar and Non-Solar power as provided in the following Table.

The details of RPO to be met by the Petitioner for the FY 2025-26 to FY 2027-28 are given in the table below.

Table 6.37: Renewable Purchase Obligation Target and Achievement Trajectory for FY 2025-26 to FY 2027-28 (NBPDCCL & SBPDCL)

	Particulars	Units	FY 2025-26 (NBPDCCL)	FY 2026-27 (NBPDCCL)	FY 2027-28 (NBPDCCL)	FY 2025-26 (SBPDCL)	FY 2026-27 (SBPDCL)	FY 2027-28 (SBPDCL)
1	Energy Sale (excluding inter-state sales)	MU	16,240.19	17,114.37	18,049.18	20,253.51	22,173.40	24,413.22
2	RPO Targets (%)	%	33.01%	35.95%	38.81%	33.01%	35.95%	38.81%
3	Wind RPO (%)	%	3.36%	4.29%	5.23%	3.36%	4.29%	5.23%
4	HPO (%)	%	1.48%	1.80%	2.15%	1.48%	1.80%	2.15%
5	Other RPO (%)	%	28.17%	29.86%	31.43%	28.17%	29.86%	31.43%
6	RPO Targets (MU)	MU	5,360.89	6,152.62	7,004.89	6,685.68	7,971.34	9,474.77

	Particulars	Units	FY 2025-26 (NBPDC)	FY 2026-27 (NBPDC)	FY 2027-28 (NBPDC)	FY 2025-26 (SBPDCL)	FY 2026-27 (SBPDCL)	FY 2027-28 (SBPDCL)
7	Wind RPO	MU	545.67	734.21	943.97	680.52	951.24	1,276.81
8	HPO RPO	MU	240.35	308.06	388.06	299.75	399.12	524.88
9	Other RPO	MU	4,574.86	5,110.35	5,672.86	5,705.41	6,620.98	7,673.07
10	Renewable Power Purchased							
11	Wind RE purchased from the plants commissioned till 31-03-2022	MU	844.84	844.84	844.84	991.76	991.76	991.76
12	a)93% of 11		785.70	785.70	785.70	922.34	922.34	922.34
13	b)7% of 11		59.14	59.14	59.14	69.42	69.42	69.42
14	Wind RE purchased from the plants commissioned after 31-03-2022	MU	100.54	100.54	100.54	118.03	118.03	118.03
15	Other RE Power (16+17+18+19+20+21+22)		3,274.51	3,622.54	3,602.54	3,843.99	4,252.55	4,229.07
16	a) Solar		1,939.25	2,292.38	2,292.38	2,276.51	2,691.06	2,691.06
17	b) Sugar Mill & Biomass		38.22	36.67	19.66	44.86	43.05	23.08
18	c)BSHPC & Hydro		1,297.04	1,293.48	1,290.50	1,522.62	1,518.44	1,514.93
19	d) Green Power from Exchange		-	-	-			
20	e) Captive Consumption Solar	MU	-	-	-			
21	f) Net Meter /Solar Generation from Consumers		-	-	-			
22	g) GCRT/solar Data from BRED		-	-	-			
23	h) Captive Consumption Non-Solar BERDA	MU	-	-	-			
	RPO Compliance							
24	HPO RPO Compliance (from 12 above)	MU	240.35	152.03	-	299.75	89.13	-
25	Left over Wind RE purchased from the 93% of plants commissioned till 31-03-2022 after adjusting HPO targets (12-24)	MU	545.34	633.67	785.70	622.59	833.21	922.34
26	Wind RPO Compliance (25+14)	MU	645.89	734.21	886.24	740.62	951.24	1,040.37
27	Other RPO Compliance: (13+15)	MU	3,333.65	3,681.68	3,661.68	3,913.42	4,321.97	4,298.49
28	RPO Shortfall (MU)	MU						
29	Wind RPO shortfall/ (surplus) (7-26)	MU	(100.22)	(0.00)	57.73	(60.10)	(0.00)	236.44
30	HPO shortfall/ (surplus) (8-24)	MU	-	156.03	388.06	-	309.99	524.88
31	Other RPO shortfall/ (surplus) (9-29)	MU	1,241.21	1,428.67	2,011.18	1,792.00	2,299.01	3,374.58
37	RPO Target Achieved	MU						
38	Wind RPO	%	118%	100%	94%	109%	100%	81%
39	HPO	%	100%	49%	0%	100%	22%	0%
40	Other RPO	%	73%	72%	65%	69%	65%	56%

The Petitioner further submitted that it has entered into PPAs with SECI & NTPC for purchase

of renewable power (Solar and Non-Solar) to the tune of 1,652 MW which are expected to be in commercial operation by FY 2025-26.

Further, due to high cost of land and lesser solar intensity in the major parts of the State, the Solar power generation in the State of Bihar less lucrative. However, the DISCOMs are always eager to procure power from any renewable source within the State.

Commission's Analysis

The Petitioner were directed to furnish details of PPAs with SECI & NTPC and Other traders, if any, for purchase of renewable power (Solar and Non-Solar) to the tune of 1,652 MW which are expected to be in commercial operation by FY 2025-26.

In response, the petitioners have submitted the information as given below :

Particulars	BSPHCL Share	Expected CoD	Status of PPA
ACME DEOGHAR/ACME DHAULPUR	150.00	Mar-25	PPA signed on 13.06.2019, Procurement approved by BERC on 29.05.2020 in case no 08/2020. Bihar is off taking the power from the part commissioning of the project w.e.f. 10.12.2024
SBE RENEWABLES SIXTEEN PVT LTD	180.00	Jan-25	PPA signed on 18.02.2022, Procurement approved by BERC on 28.04.2022 in case no 26/2020. Project has been commissioned but power has not yet been scheduled to Bihar due to delay in LTA operationalization
ADANI GREEN ENERGY	600.00	Mar-26	PPA signed on 20.05.2022, Procurement approved by BERC on 28.04.2022 in case no 21/2021. Project has not yet been commissioned.
GREENKO ENERGY HYBRID	210.00	Mar-25	PPA signed on 20.05.2022, Procurement approved by BERC on 28.04.2022 in case no 21/2021. Project has not yet been commissioned.
FLOATING SOLAR	10.00	Mar-25	PPA signed on 30.07.2024, Procurement approved by BERC on 04.04.2024 in case no 05/2024. Project has not yet been commissioned.
CANAL BANK SOLAR	2.00	Mar-25	PPA signed on 12.03.2024, Procurement approved by BERC on 25.01.2024 in case no 28/2023. Project has not yet been commissioned.
ACME SOLAR JAISELMER	500.00	Mar-25	PPA signed on 29.10.2024, Procurement approved by BERC on 23.10.2024 in case no 21/2024, Bihar is off taking the power from the part commissioning of the project w.e.f. 10.12.2024

The Ministry of Power, Government of India vide Order No F.No.09/13/2021-RCM dated 22.07.2022 has specified the RPO trajectory for period from FY 2022-23 to FY 2029-30 as given below:

Year	Wind RPO	HPO	Other RPO	Total RPO
2022-23	0.81%	0.35%	23.44%	24.61%
2023-24	1.60%	0.66%	24.81%	27.08%
2024-25	2.46%	1.08%	26.37%	29.91%
2025-26	3.36%	1.48%	28.17%	33.01%
2026-27	4.29%	1.80%	29.86%	35.95%
2027-28	5.23%	2.15%	31.43%	38.81%

Year	Wind RPO	HPO	Other RPO	Total RPO
2028-29	6.16%	2.51%	32.69%	41.36%
2029-30	6.94%	2.82%	33.57%	43.33%

The Commission has notified the BERC (Renewable Purchase Obligation, its compliance and REC frame work implementation) (4th amendment) Regulations, 2022 duly aligning the targets with the MoP RPO trajectory specified vide Order No F.No.09/13/2021-RCM dated 22.07.2022.

As per the BERC 4th Amendment of RPO Regulations, the targets were determined for wind, HPO and other RPO. The Regulation 4.1 (Amended) specify the following:

“a) Wind RPO Shall be met only by energy produced from Wind Power Projects (WPPs) commissioned after 31st March 2022 and the wind energy consumed over and above 7% from WPPs commissioned till 31 st March 2022;

(b) HPO shall be met only by energy produced from LHPs (including PSPs and small hydro projects (SHPs)), commissioned after 8th March 2019;

(c) Other RPO may be met by energy produced from any RE based / green energy-based power project not mentioned in (a) and (b) above.”

The Commission accordingly has considered the RPO targets for FY 2025-26 to FY 2027-28 in this Tariff order and computed the RPO Compliance for FY 2025-26 to FY 2027-28 as shown in the Table below.

Table 6.38: RPO Approved for NBPDCCL for FY 2025-26 to 2027-28

SL.NO	Particulars	Units	FY 25-26	FY 26-27	FY 27-28
1	Energy Sale (excluding inter-state sales)	MU	16,240.19	17,114.37	18,049.18
2	RPO Targets (%)	%	33.01%	35.95%	38.81%
3	Wind RPO (%)	%	3.36%	4.29%	5.23%
4	HPO (%)	%	1.48%	1.80%	2.15%
5	Other RPO (%)	%	28.17%	29.86%	31.43%
6	RPO Targets (MU)	MU	5360.89	6152.62	7004.89
7	Wind RPO	MU	545.67	734.21	943.97
8	HPO RPO	MU	240.35	308.06	388.06
9	Other RPO	MU	4574.86	5110.35	5672.86
10	Renewable Power Purchased				
11	Wind RE purchased from the plants commissioned till 31-03-2022	MU	844.84	844.84	844.84
12	a)93% of 11	MU	785.70	785.70	785.70
13	b)7% of 11	MU	59.14	59.14	59.14
14	Wind RE purchased from the plants commissioned after 31-03-2022	MU	100.54	100.54	100.54

SL.NO	Particulars	Units	FY 25-26	FY 26-27	FY 27-28
15	Other RE Power (16+17+18+19+20+21+24)	MU	3274.51	3622.53	3602.54
16	a) Solar	MU	1939.25	2292.38	2292.38
17	b) Sugar Mill & Biomass	MU	38.22	36.67	19.66
18	c)BSHPC	MU	1297.04	1293.48	1290.50
19	d) Hydro	MU			
20	e) Green Power from Exchange	MU			
21	f) Captive Consumption Solar	MU			
22	i) Net Meter /Solar Generation from Consumers	MU			
23	ii) GCRT/solar Data from BREDA	MU			
24	Captive Consumption Non-Solar BERDA	MU			
25	RPO Compliance	MU			
26	HPO RPO Compliance (from 12 above)	MU	240.35	152.03	0.00
27	Left over Wind RE purchased from the 93% of plants commissioned till 31-03-2022 after adjusting HPO targets (12-8)	MU	545.35	785.70	785.70
28	Wind Power Purchased (76+14)	MU	645.89	734.21	886.24
29	Other RPO Compliance: (15+13)	MU	3333.65	3681.67	3661.68
30	RPO Shortfall (MU)	MU			
31	Wind RPO shortfall/ (surplus) (7-28)	MU	(100.22)	(0.00)	57.73
32	HPO shortfall/ (surplus) (Compensated from surplus wind RPO)	MU	0.00	156.03	388.06
33	Other RPO shortfall/ (surplus) (9-29)	MU	1140.67	1328.14	1910.64
34	REC Purchase*	MU			
35	RPO Shortfall considering REC (MU)	MU			
36	Wind RPO shortfall/ (surplus) (31)	MU	(100.22)	(0.00)	57.73
37	HPO shortfall/ (surplus)	MU	0.00	156.03	388.06
38	Other RPO shortfall/ (surplus) (33-34)	MU	1140.67	1328.14	1910.64
39	RPO Target Achieved considering REC (%)	MU			
40	Wind RPO	%	100%	100%	94%
41	HPO	%	100%	49%	0%
42	Other RPO	%	73%	72%	65%

It is observed from the Table above that the NBPDCCL has planned to fulfill the wind RPO for FY 2025-26 to FY 2026-27. However, Discoms will still be in shortage towards the wind RPO for FY 2027-28. The RPO target in respect others RPO also may not be fully complied for FY 2025-26 to FY 2027-28. Also HPO will not be fully complied for FY 2026-27 to FY 2027-28. The Commission directs the NBPDCCL to take advance action for meeting the expected shortfall as mentioned above in view of regulation 7.1 of 4th amendment of the abovementioned Regulations.

Table 6.39: RPO Approved for SBPDCL for FY 2025-26 to 2027-28:

SL.NO	Particulars	Units	FY 25-26	FY 26-27	FY 27-28
1	Energy Sale (excluding inter-state sales)	MU	20,253.51	22,173.40	24,413.22
2	RPO Targets (%)	%	33.01%	35.95%	38.81%
3	Wind RPO (%)	%	3.36%	4.29%	5.23%
4	HPO (%)	%	1.48%	1.80%	2.15%
5	Other RPO (%)	%	28.17%	29.86%	31.43%
6	RPO Targets (MU)	MU	6685.68	7971.34	9474.77
7	Wind RPO	MU	680.52	951.24	1276.81
8	HPO RPO	MU	299.75	399.12	524.88
9	Other RPO	MU	5705.41	6620.98	7673.08
10	Renewable Power Purchased				
11	Wind RE purchased from the plants commissioned till 31-03-2022	MU	991.76	991.76	991.76
12	a)93% of 11	MU	922.34	922.34	922.34
13	b)7% of 11	MU	69.42	69.42	69.42
14	Wind RE purchased from the plants commissioned after 31-03-2022	MU	118.03	118.03	118.03
15	Other RE Power (16+17+18+19+20+21+24)	MU	3843.99	4252.55	4229.07
16	a) Solar	MU	2276.51	2691.06	2691.06
17	b) Sugar Mill & Biomass	MU	44.86	43.05	23.08
18	c)BSHPC	MU	1522.62	1518.44	1514.93
19	d) Hydro	MU			
20	e) Green Power from Exchange	MU			
21	f) Captive Consumption Solar	MU			
22	I) Net Meter /Solar Generation from Consumers	MU			
23	II) GCRT/solar Data from BREDA	MU			
24	Captive Consumption Non-Solar BERDA	MU			
25	RPO Compliance	MU			
26	HPO RPO Compliance (from 12 above)	MU	299.75	89.13	0.00
27	Left over Wind RE purchased from the 93% of plants commissioned till 31-03-2022 after adjusting HPO targets (12-8)	MU	622.58	922.34	922.34
28	Wind Power Purchased (76+14)	MU	740.61	951.24	1040.37
29	Other RPO Compliance: (15+13)	MU	3913.41	4321.97	4298.49
30	RPO Shortfall (MU)	MU			
31	Wind RPO shortfall/ (surplus) (7-28)	MU	(60.10)	0.00	236.44
32	HPO shortfall/ (surplus) (Compensated from surplus wind RPO)	MU	0.00	309.99	524.88
33	Other RPO shortfall/ (surplus) (9-29)	MU	1673.97	2180.97	3256.55
34	REC Purchase*	MU			
35	RPO Shortfall considering REC (MU)	MU			

SL.NO	Particulars	Units	FY 25-26	FY 26-27	FY 27-28
36	Wind RPO shortfall/ (surplus) (31)	MU	(60.10)	0.00	236.44
37	HPO shortfall/ (surplus)	MU	0.00	309.99	524.88
38	Other RPO shortfall/ (surplus) (33-34)	MU	1673.97	2180.97	3256.55
39	RPO Target Achieved considering REC (%)	MU			
40	Wind RPO	%	100%	100%	81%
41	HPO	%	100%	22%	0%
42	Other RPO	%	69%	65%	56%

It is observed from the Table above that the SBPDCL has planned to fulfill the wind RPO for FY 2025-26 to FY 2026-27. However, Discoms will still be in shortage towards the wind RPO for FY 2027-28. The RPO target in respect others RPO also may not be fully complied for FY 2025-26 to FY 2027-28. Also HPO will not be fully complied for FY 2026-27 to FY 2027-28. The Commission directs the SBPDCL to take advance action for meeting the expected shortfall as mentioned above in view of regulation 7.1 of 4th amendment of the abovementioned Regulations.

6.8 Capital Expenditure and Capitalization

Petitioner's Submission

As per Clause 5 of the Bihar Electricity Regulatory Commission (Multi Year Distribution Tariff) Regulations, 2024, the Petitioners need to file business plan for the control period of FY 2025-26 to FY 2027-28 which may include but limited to detailed category /sub- category-wise sales and demand projections, power procurement plan, capital Investment plan, financing plan and physical targets. The Highlights of the Capital investment Plan as submitted under the Business Plan is as follows.

MKVYS-II:

In Mukhya Mantri Krishi Vidyut Sambandh Yojana-II scheme, more than 2,74,000 agriculture connections were released to willing farmers. Furthermore, the Government of Bihar in its Fourth Krishi Road map for 2023-28, has targeted to provide free electricity connections to 4,80,000 pump-sets. Construction of Large scale electrical infrastructure (11 kV dedicated feeder for agriculture, transformer and LT line with AB Cable) will be undertaken for providing electric connections to agricultural pump sets under RDSS and Mukhya Mantri Krishi Vidyut Sambandh Yojana (MKVSY Phase II) to provide free electricity connection to the remaining agricultural pump sets as well as new pump sets being installed by the farmers during the period of execution of this project, totaling 4.80 lakh targeted to be installed in NBPDCCL &

SBPDCL.

Table 6.40: Details of Infrastructure and Agriculture Connection Target under MKVYS-II (NBPDCCL)

Component	Unit	NBPDCCL	SBPDCL	Total	Cost
Agriculture connection (A)	Nos.	2,90,426	1,89,272	4,79,698	143.91
Infrastructure (B)					
11 kV Line (Rabbit Conductor)	CKM	1,515	971	2,486	119.59
11 kV Line (Bisel conductor)	CKM	6,060	3,885	9,945	406.74
Distribution Transformer (25 kVA)	Nos.	17,043	10,927	27,970	724.42
Distribution Transformer (63 kVA)	Nos.	1,894	1,214	3,108	87.33
LT Line 8 meter PSC poll 2x16+1x25 SQ MM AB Cable	CKM	5,537	3,550	9,087	172.65
LT Line 8 meter PSC poll 2x25+1x25 SQ MM AB Cable	CKM	4,153	2,663	6,815	309.41
LT Line 8 meter PSC poll 3x16+1x25 SQ MM AB Cable	CKM	4,153	2,663	6,815	162.89
Total (B)					1983.03
Total (A+B)					2126.94
Contingency & PMA Charge					63.81
Total Fund required					2190.75

Table 6.41: Details of Infrastructure and Agriculture Connection Target under MKVYS-II (SBPDCL)

Component	Unit	NBPDCCL	SBPDCL	Total	Cost
Agriculture connection (A)	Nos.	2,90,426	1,89,272	4,79,698	143.91
Infrastructure (B)					
11 kV Line (Rabbit Conductor)	CKM	1,515	971	2,486	119.59
11 kV Line (Bisel conductor)	CKM	6,060	3,885	9,945	406.74
Distribution Transformer (25 kVA)	Nos.	17,043	10,927	27,970	724.42
Distribution Transformer (63 kVA)	Nos.	1,894	1,214	3,108	87.33
LT Line 8 meter PSC poll 2x16+1x25 SQ MM AB Cable	CKM	5,537	3,550	9,087	172.65
LT Line 8 meter PSC poll 2x25+1x25 SQ MM AB Cable	CKM	4,153	2,663	6,815	309.41
LT Line 8 meter PSC poll 3x16+1x25 SQ MM AB Cable	CKM	4,153	2,663	6,815	162.89
Total (B)					1983.03
Total (A+B)					2126.94
Contingency & PMA Charge					63.81
Total Fund required					2190.75

The Petitioners submitted that in the control period for FY 2025-26 to FY 2027-28, it is estimated that an investment of approximately INR 1,034.29 crore (NBPDCCL) & INR 721.46 crore (SBPDCL) would be needed. Further, the total capitalization projected during the entire control period is INR 1154.29 Crores (NBPDCCL) & INR 856.46 Crores (SBPDCL). The year wise capex and capitalization plan for the upcoming control period, is provided in the table below.

Table 6.42: CAPEX and Capitalization Scheme for MKVYS-II (NBPDC & SBPDCL)

Particulars	Capex (Rs Crore) (NBPDC)	Capitalization (Rs. Crore) (NBPDC)	Capex (INR Crore) (SBPDCL)	Capitalization (INR Crore) (SBPDCL)
FY 2025-26	360.73	351.44	800	600
FY 2026-27	360.73	360.73	234.29	460.57
FY 2027-28	-	144.29	-	93.72

RDSS

Discoms have submitted that the scheme-wise year-wise capital investment and capitalisation for the control period of FY 2025-26 to FY 2027-28 as given in the table below:

Further, Monitoring Committee for RDSS in its 10th meeting held on 10.06.2022 has approved IT/OT works under Loss Reduction DPR of the Petitioner, amounting of Rs 200 Crore (NBPDC) with GBS of INR 120 Crore under Loss Reduction DPRs and PMA charges of INR 3.00 Crore with GBS of INR 1.8 crore.

Table 6.43: RDSS Funding Scheme (NBPDC & SBPDCL)

Sr. No	Particulars	Total project Cost (INR Crore) (NBPDC)	GBS (INR Crore) (NBPDC)	PMA charges (INR Crore) (NBPDC)	CBS for PMA (INR Crore) (NBPDC)	Total project Cost (Rs. Crore) (SBPDCL)	GBS (Rs. Crore) (SBPDCL)	PMA charges (Rs. Crore) (SBPDCL)	CBS for PMA (Rs. Crore) (SBPDCL)
1	Smart Metering	964.46	144.67	3.62	2.17	1,049.21	157.58	3.93	2.35
2.	Infrastructure Work Loss reduction	3050.89	1830.53	52.88	31.73	3525.52	2115.31	52.88	31.73
3.	IT/OT Cost	200	120	3.0	1.8	200	120	3.0	1.8

Infrastructure works under Loss reduction: The total infrastructure works proposed to be undertaken under HVDS is INR 576.93 crores which comprises of activities under:

Feeder Segregation:

- Erection of 11 kV line at a proposed cost of INR 214.36 Crore (NBPDC), INR 495.49 Crore (SBPDCL)
- Installation of Distribution transformers at a proposed cost of INR 219.85 Crore (NBPDC), INR 496.64 Crore (SBPDCL).
- Erection of LT Line at a proposed cost of INR 141.73 Crore (NBPDC), INR 205.04 Crore (SBPDCL).
- Conversion of LT line to 11 KV Line at a proposed cost of INR 0.97 Crores (NBPDC), INR 6.82 crores (SBPDCL)

Bifurcation of long feeders:

- Under feeder segregation, the total proposed cost is INR 1233.71 Crore (NBPDC)
- Erection of 11 kV line at a proposed cost of INR 593.03 crores (NBPDC) , INR 108.12 crores (SBPDCL).
- Installation of Distribution transformers at a proposed cost of INR 489.10 crores (NBPDC), INR 31.44 crores (SBPDCL)
- Erection of LT Line at a proposed cost of INR 151.57 Crores (NBPDC) ,INR 28.29 crores (SBPDCL)
- Feeder bifurcation cabling work at a proposed cost of INR 150.95 crores (NBPDC).
- Proposed cabling work at a proposed cost of INR 1089.28 crores (NBPDC)
- Conversion of LT line to 11 KV Line at a proposed cost of INR 6.23 crores (SBPDCL)

Under HVDS

- Erection of new 11 kV line at a proposed cost of INR 248.48 crores (SBPDCL)
- Installation of Distribution transformers at a proposed cost of INR 286.53 crores (SBPDCL)
- Conversion of bare conductor with AB cable at a proposed cost of INR 182.69 crores (SBPDCL)

- Proposed cabling work at a proposed cost of INR 1089.28 Crores (NBPDC), INR 1429.68 crores (SBPDCL)

Funding pattern: The funding Pattern for the State of Bihar is given below:

Smart metering solution including at consumer, DT and feeder level including integration of existing infrastructure	15% of the approved cost of metering including the operational cost, provided that it is not more than Rs 900 per meter for consumer metering only
Distribution Infrastructure works	60% the approved cost of Distribution infrastructure works
PMA Charges for Metering and Infrastructure works	60% other approved cost of PMA

The project cost approved by the RDSS Monitoring Committee or actual cost incurred whichever is less, shall be the eligible cost for determining the grant under the scheme for Infrastructure works and PMA Components. Any cost overrun after approval of the project (by Monitoring Committee) due to any reason whatsoever shall not be eligible for any grant and shall be borne by the DISCOM/respective State Government. The release of CBS by Government of India will be subject to prescribed scheme guidelines and would be contingent to award of prepaid smart metering works & its satisfactory progress.

Target for the control period FY 2025-26 to 2027-28:

The Petitioner would like to submit that, the Scheme is ongoing scheme and was proposed to be completed by FY 2025-26. In the Control Period FY 2025-26 to FY 2027-28, it has been estimated that an investment of approximately INR 1,202.53 crores (NBPDC) , INR 1,506.42 crores (SBPDCL) would be required. Further, the total capitalization projected during the control period is INR 1,462.41 crores (NBPDC), INR 2,212.11 crores (SBPDCL). The year wise capex and capitalization estimated for the upcoming control period is provided in the table below:

Table 6.44: Capex and Capitalization projected in RDSS Scheme for FY 2025-26 to FY 2027-28

Particulars	Capex (INR Crore) (NBPDC)	Capitalization (INR Crore) (NBPDC)	Capex (INR Crore) (SBPDCL)	Capitalization (INR Crore) (SBPDCL)
FY 2025-26	1202.53	981.40	1506.42	1,157.59
FY 2026-27	-	481.01	-	1,054.52
FY 2027-28	-	-	-	

Smart Meter Implementation (NBPDCCL):

Bihar Discoms are currently serving a consumer base of more than 1.70 crores spread across vast geographical area. A significant percentage of the consumer base is heavily inclined towards domestic category accounting for approximately 85% of the total consumer base. Till date, the discoms have been using the feature of spot billing for bill reading and bill preparation. Currently, the collection activities are being carried out through collection counters, vendor direct digital payment from consumers. In recent times, The power utilities throughout the country are moving towards smart metering/ Advanced Metering Infrastructure (AMI) to stay competitive, extend quality service to their consumers especially rural households and facilitate renewable integration. The central and state government has been continuously supporting the utilities for appropriate implementation of AMI through several schemes such as Revamped Distribution Sector Scheme (RDSS) and other schemes. Accordingly, the Govt. of Bihar on 21-10-2021 accorded approval for implementation of Smart Prepaid metering across Rural areas of Bihar by both the DISCOM's under HYBRID model. Estimated cost of the project – INR 11,100 Crore for 1.48 Crore consumers of both DISCOMs. The implementation for 1.48 crore smart meters will be done in two phases:

Phase II: Under phase-II, 36 lakhs of smart prepaid meters are scheduled to be installed across the Bihar. In Phase-II smart prepaid meters are scheduled to be installed under hybrid mode i.e., CAPEX + OPEX mode in the ratio of 70:30. smart prepaid meters are scheduled to be installed in South Bihar. Below table shows the expected expenditure under the CAPEX mode for installation of smart prepaid meters:

Table 6.45: Installation of Smart Meter phase II Scheme in NBPDCCL

Smart Prepaid Meters under Capex	Month	2025-26			2026-27		
		Meters installed	Meter cost	Capex	Meters installed	Meter cost	Capex
Phase II: 36 lakhs North 26 Lakhs (30% Capex)-	Op. Balance	2485115			2631205		
	April	146090	10219.67	44.79	0	10219.67	-
	May	0	10219.67	-	0	10219.67	-
	June	0	10219.67	-	0	10219.67	-
	July	0	10219.67	-	0	10219.67	-
	August	0	10219.67	-	0	10219.67	-
	September	0	10219.67	-	0	10219.67	-
	October	0	10219.67	-	0	10219.67	-
	November	0	10219.67	-	0	10219.67	-
	December	0	10219.67	-	0	10219.67	-
	January	0	10219.67	-	0	10219.67	-
	February	0	10219.67	-	0	10219.67	-

Smart Prepaid Meters under Capex	Month	2025-26			2026-27		
		Meters installed	Meter cost	Capex	Meters installed	Meter cost	Capex
	March	0	10219.67	-	0	10219.67	-
Less: 7.5% to be given after 6 months		2631205		3.36	2631205		-
Total Capex				74.40			3.36

Table 6.46: Installation of Smart Meter phase II Scheme in SBPDCL

Smart Prepaid Meters under Capex	Month	FY 2025-26		
		Meters installed	Meter cost	Capex
Phase II: 36 lakhs South 10 Lakhs (30% Capex)	Op. Balance	1000000		
	April	0	9777.14	-
	May	0	9777.14	-
	June	0	9777.14	-
	July	0	9777.14	-
	August	0	9777.14	-
	September	0	9777.14	-
	October	0	9777.14	-
	November	0	9777.14	-
	December	0	9777.14	-
	January	0	9777.14	-
	February	0	9777.14	-
	March	0	9777.14	-
Less: 7.5% to be given after 6 months		1000000		-
Total Capex				13.02

Phase III: In the final phase i.e., phase-III, 1.12 Crore of smart prepaid meters are scheduled to be installed across the Bihar by the end of March-2024. In Phase-III smart prepaid meters are scheduled to be installed under hybrid mode i.e., CAPEX + OPEX mode in the ratio of 70:30. Out of 1.12 Crore, 35 lakhs smart prepaid meters are scheduled to be installed in South Bihar. Below table shows the expected expenditure under the OPEX mode for installation of smart prepaid meters:

Table 6.47 Expected expenditure under the OPEX mode for installation of smart prepaid meters for NBPDC

Smart Prepaid Meters under Capex	Month	2025-26			2026-27			2027-28		
		Meters installed	Meter cost	Capex	Meters installed	Meter cost	Capex	Meters installed	Meter cost	Capex
Phase III: 1.12 crores North 77 Lakhs (30% Capex)	Op. Balance	2556918			6490902			7802265		
	April	327832	10788.13	106.10	327832	10788.13	106.10	0	10788.13	-
	May	327832	10788.13	106.10	327832	10788.13	106.10	0	10788.13	-
	June	327832	10788.13	106.10	327832	10788.13	106.10	0	10788.13	-
	July	327832	10788.13	106.10	327867	10788.13	106.11	0	10788.13	-
	August	327832	10788.13	106.10	0	10788.13	-	0	10788.13	-
	September	327832	10788.13	106.10	0	10788.13	-	0	10788.13	-
	October	327832	10788.13	106.10	0	10788.13	-	0	10788.13	-
	November	327832	10788.13	106.10	0	10788.13	-	0	10788.13	-
	December	327832	10788.13	106.10	0	10788.13	-	0	10788.13	-
	January	327832	10788.13	106.10	0	10788.13	-	0	10788.13	-
	February	327832	10788.13	106.10	0	10788.13	-	0	10788.13	-
	March	327832	10788.13	106.10	0	10788.13	-	0	10788.13	-
Less: 7.5% to be given after 6 months		6490902		95.49	7802265		31.83	7802265		-
Total Capex				1,239.78			488.07			31.83

Table 6.48 Expected expenditure under the OPEX mode for installation of smart prepaid meters for SBPDCL

Smart Prepaid Meters under Capex	Month	2025-26			2026-27		
		Meters installed	Meter cost	Capex	Meters installed	Meter cost	Capex
Phase III: 1.12 crores South 35 Lakhs (30% Capex)	Op. Balance	1426124			3510000		
	April	165541	10537.53	52.33	0	10537.53	-
	May	165541	10537.53	52.33	0	10537.53	-
	June	194755	10537.53	61.57	0	10537.53	-
	July	194755	10537.53	61.57	0	10537.53	-
	August	194755	10537.53	61.57	0	10537.53	-
	September	194755	10537.53	61.57	0	10537.53	-
	October	194755	10537.53	61.57	0	10537.53	-
	November	194755	10537.53	61.57	0	10537.53	-
	December	194755	10537.53	61.57	0	10537.53	-
	January	194755	10537.53	61.57	0	10537.53	-
	February	194754	10537.53	61.57	0	10537.53	-
	March	0	10537.53	-	0	10537.53	-

CAPEX and Capitalization Schedule: (NBPDCCL)

NBPDCCL would like to submit that, in the Control Period FY 25-26 to FY 27-28 it has estimated an investment of approximately INR 77.76 crores in Phase II and INR 1759.59 Crore in Phase III during the entire control period. Further the total capitalization projected during the control period is INR 117.23 crores for Phase II and INR 1836.24 Crores for Phase III.

SBDPCL would like to submit that, in the Control Period FY 2025-26 to FY 2027-28 it has estimated an investment of approximately INR 13 crores in Phase II and INR 692 Crore in Phase III during the entire control period. Further the total capitalization projected during the control period is Rs 36 crores for Phase II and INR 684.47 Crores for Phase III. The year wise capex and capitalization estimated for the upcoming control period is provided in the table below:

Table 6.49: CAPEX & Capitalization Scheme for Smart Meter Project

Particulars	Capex (INR Crore)	Capitalization (INR Crore)	Capex (INR Crore)	Capitalization (INR Crore)
	Phase II		Phase III	
FY 2025-26	74.40	102.48	1,239.78	1,115.81
FY 2026-27	3.36	14.75	488.07	619.74
FY 2027-28	-	-	31.83	100.69

Augmentation of Power Transformer: (SBPDCL)

To enhance the capacity of power transformer to overcome the constraints in distribution network of the Petitioner, an additional 10 MVA Power Transformer and Augmentation of 5 MVA Power Transformer to 10 MVA Power Transformer has been proposed under different locations of the Discom. It will ensure to maintain uninterrupted 24 x 7 power supply to all beneficiaries / consumers in the concerned locations of the Discom.

CAPEX & Capitalization: The Petitioner would like to submit that, out of the total proposed cost of INR 108.28 Crore in the Control Period FY 2025-26 to FY 2027-28, it has estimated an investment of approximately INR 108.28 Crore during the entire control period is required. Further the total capitalization projected during the control period is INR 108.28 crores. The year wise capex and capitalization estimated for the upcoming control period is provided in the table below:

Particulars	Capex (Rs Crore) (SBPDCL)	Capitalization (Rs. Crore) (SBPDCL)
FY 2025-26	54.14	32.48

FY 2026-27	54.14	54.14
FY 2027-28		21.66

Reconductoring

SBPDCL has submitted that to replace the dilapidated 33 kV ACSR Dog Conductor to ACSR Wolf Conductor and 33 kV XLPE UG Cable to reduce the accident and to ensure uninterrupted 24x7 quality power supply to consumer. AT&C losses will also be reduced.

Accordingly, the Petitioner has projected the details capitalisation for both DISCOM are as given below:

Table 6.50 Financing Required for SBPDCL

Sl. No.	Particulars	Unit Price (in lacs)	Quantity (in Nos.)	Total Cost (In Crore)
1	Reconductoring of 33 kV line from ACSR Dog to ACSR Wolf conductor	11.87	835.9	99.2213
2	33 kV XLPE UG cable	100	6.65	6.650
	Total:		842.55	105.87

Table 6.51: Details of CAPEX and capitalization Projected by NBPDC for FY 2025-26 to FY 2027-28

Particulars	FY 2025-26		FY 2026-27		FY 2027-28	
	CAPEX	Capitalization	CAPEX	Capitalization	CAPEX	Capitalization
Ongoing Scheme						
State Plan -Others	-	101.25	-	101.25	-	33.75
State Plan -RDSS	1,202.53	981.40	-	481.01		
Smart Prepaid Meter (Phase 2) 36 Lakhs- 30% Capex	74.40	102.48	3.36	14.75		
Smart Prepaid Meter (Phase 3) 1.12 crores- 30% Capex	1,239.78	1,115.81	488.07	619.74	31.83	100.69
Sub Total	2,516.71	2,199.69	491.43	1,115.50	31.83	100.69
New schemes						
Projects sanctioned						
Mukhya Mantri Vidyut Sambandh Nishchay Yojna (MKVSY)-Phase II	800.00	600.00	234.29	460.57	-	93.72
New 33 kV Lines	82.86	87.22	-	-	-	-
Construction of 15 Nos. of New 33 kV lines at different locations of NBPDC			-	-	-	-
Construction of Two no. 33 kV Line	17.67	19.63	-	-	-	-
Construction of 3 Nos. New 33 kV Line in Chapra Circle	7.23	9.04	-	-	-	-
New 33/11 KV PSS (2x10 MVA) with associated lines	71.94	79.93	-	-	-	-
New PSS Under State Plan (Construction of 2X10 MVA PSS at different Location)	193.01	214.46	-	-	-	-
Capacity enhancement of existing Power Sub Stations			-	-	-	-
Augmentation of 5 MVA Power Transformers with 10 MVA Power Transformers	-	58.55	-	-	-	-
Additional 10 MVA Power Transformers in existing PSS	-	3.73	-	-	-	-
Reconductoring of 33 KV Lines from ACSR Dog to Wolf Conductors	-	54.27	-	-	-	-
Project under sanction Process			-	-	-	-
New 33/11 KV 2X10 MVA PSS	115.96	34.79	115.96	115.96	-	81.17
33/11 kV PSS-GIS	8.00	2.40	8.00	8.00	-	5.60
33 kV New Line (Wolf Conductor on Rail Pole)	306.20	91.86	306.20	306.20	-	214.34
33 kV Reconductoring from Dog to Wolf	67.84	20.35	67.84	67.84	-	47.48
33 kV XLPE 400 Sqmm UG Cable for replacement of Existing Defective Railway Crossing	2.10	0.63	2.10	2.10	-	1.47
33 kV New Railway Crossing	0.97	0.29	0.97	0.97	-	0.68
33 kV Bay extension with conventional/RMU	34.98	10.49	34.98	34.98	-	24.48
11 kV Line (Rabbit Conductor on PSC 9 Mtr Pole)	26.78	8.03	26.78	26.78	-	18.74
11 kV XLPE 300 sqm UG cable	0.86	0.26	0.86	0.86	-	0.60
11 kV Bay extension with conventional/RMU	6.40	1.92	6.40	6.40	-	4.48

Particulars	FY 2025-26		FY 2026-27		FY 2027-28	
	CAPEX	Capitalization	CAPEX	Capitalization	CAPEX	Capitalization
	-	-	-	-	-	-
Augmentation & Additional Distribution Transformers	200.00	160.00		80.00	-	-
Protective Equipment i.e. VCBs, CTs & PTs, Lightning Arrestors etc.	40.00	48.00		16.00	-	-
Construction of 12 Nos Divisional and 51 Nos Sub-divisional Control room building cum Customer facilitation center at different locations under NBPDC	60.00	56.00		24.00	-	-
Construction of New Control Room, PCC & Gravel filling for old PSS, Boundary wall of different PSS, Offices, Colony and Open lands under five Civil Circles of NBPDC.	35.00	33.00		14.00	-	-
Construction of Sheds, Platforms, Approach Road and allied components at TRWs under NBPDC	45.00	33.00		18.00	-	-
Integrated Omni-Channel CRM for customer complaint handling activities			-	-	-	-
CRM tool implementation		4.37	-	-	-	-
Supply of software licensees, comprising of om etcni channel CRM, Fault management		5	-	-	-	-
Total	4,639.47	3,836.90	1,295.78	2,298.13	31.83	593.45

Table 6.52: Details of CAPEX and capitalization Projected by SBPDCL for FY 2025-26 to FY 2027-28

Particulars	FY 2025-26		FY 2026-27		FY 2027-28	
	CAPEX	Capitalization	CAPEX	Capitalization	CAPEX	Capitalization
Ongoing scheme						
BRGF	-	92.77	-	92.77	-	30.92
State Plan -Others	-	205.75	-	-	-	-
RDSS	1,506.46	1,157.59	-	1,054.52	-	-
Smart Prepaid Meter (Phase 2) 36 Lakhs- 30% Capex	13.02	35.93	-	-	-	-
Smart Prepaid Meter (Phase 3) 1.12 crores- 30% Capex	643.00	616.23	49.41	117.88	-	-
Sub Total	2,162.48	2,108.27	49.41	1,265.17	-	30.92
New schemes						
Total Nos. of 33 kV line	20.45	62.55	12.48	20.66	-	-
MKVYS-II	360.73	351.44	360.73	360.73	-	144.29
Construction of 62 nos. new 33KV line	211.90	127.14	-	84.76	-	-
Reconductoring of 78 no. of 33 kv lines	52.77	31.66	52.77	52.77	-	21.11
Augmentation of PTR (5 MVA to 10 MVA)	54.00	32.40	54.00	54.00	-	21.60

Particulars	FY 2025-26		FY 2026-27		FY 2027-28	
	CAPEX	Capitalization	CAPEX	Capitalization	CAPEX	Capitalization
Additional/ Augmentation of 5 & 10MVA PTR under State Plan)	-	-	-	-	-	-
5 MVA PTR	16.13	9.68	16.13	16.13	-	6.45
10 MVA PTR	80.83	48.50	80.83	80.83	-	32.33
Proposal prepared to overcome the constraint in distribution networks	-	-	-	-	-	-
33KV NEW Line Wolf Conductor on rail Pole	145.20	87.12	145.20	145.20	-	58.08
33KV XLPE 400 Sqmm. UG Cable for Existing Railway crossing	43.85	26.31	43.85	43.85	-	17.54
33KV Bay	9.33	5.60	9.33	9.33	-	3.73
11KV Line (on Rail/Joist Pole)	21.02	12.61	21.02	21.02	-	8.41
11KV Line (on 9mtr. PSC Pole)	24.96	14.98	24.96	24.96	-	9.99
11KV XLPE 300 Sqmm. UG Cable	13.30	7.98	13.30	13.30	-	5.32
11KV Bay	2.81	1.69	2.81	2.81	-	1.13
33KV Reconductoring Line with Wolf Conductor on rail Pole	66.99	40.19	66.99	66.99	-	26.80
R&M of 11KV Line	220.41	132.25	220.41	220.41	-	88.17
PSS NEW	50.00	69.00		20.00	-	
Grid Connectivity off grid to on grid (RDSS)	58.79	35.27	58.79	58.79	-	23.52
New Service connection (Infrastructure)	72.22	72.22	96.30	91.48	-	19.26
Smart Distribution Initiatives						
SCADA , DMS, OMS	-	-	84.87	42.44	127.31	106.09
SCADA, DMS, OMS-DR Centre	-	-	8.27	4.13	12.40	10.34
SS digitalization	-	-	8.94	4.47	13.42	11.18
NON-IT SCADA	-	-	5.86	2.93	8.79	7.32
System Augmentation and modernization	-	-	214.01	107.01	321.02	267.52
IT Hardware	3.43	3.43	-	-	-	-
Software/Antivirus	1.34	1.34	-	-	-	-
Network Analysis Software	21.09	21.09	-	-	-	-
RMS	59.00	59.00	-	-	-	-

Particulars	FY 2025-26		FY 2026-27		FY 2027-28	
	CAPEX	Capitalization	CAPEX	Capitalization	CAPEX	Capitalization
Integrated Omni-Channel CRM for customer complaint handling activities	-	-	-	-	-	-
CRM tool implementation	-	4.37	-	-	-	-
Supply of software licensees, comprising of om etcni channel CRM, Fault management	-	5.00	-	-	-	-
Total	3,773.03	3,371.08	1,651.26	2,814.17	482.93	921.08

Commission's analysis:

The Commission has noted that the Discoms has projected the capex and capitalisation of schemes under Mukya Mantri Krishi Vikas Yojana (MKVYS) and creation of new infrastructure, implementation of smart prepaid meters, IT/OT, etc. works under RDSS schemes of Government of India for the control period.

It has been observed that several schemes under RDSS is projected to be capitalized in the next control period and accordingly, capitalization has been projected by the Petitioner. It has been noted that although the RDSS schemes got the approval long back, the projects are not implemented within the timeline as originally envisaged.

It has been noted that SBPDCL has not obtained approval for revised cost estimation of reconductoring scheme and not even included the same in its Petition. SBPDCL through its reply to query presented the case before the Commission for approval, which is not accepted by the Commission as it is not as per Regulatory process. The Commission directs the Petitioner (SBPDCL) to follow the due Regulatory process and approach the Commission with a separate petition for approval of Capex and capitalization plan as per provisions under BERC (Procedure for approval of Capex and Capitalization Plan) Regulations 2018 along with cost estimation, approval of the concerned authority with approved cost, year-wise capital expenditure and capitalization details. It is directed that the Petitioner should clearly submit the year-wise amount capitalized for reconductoring against each approval cost , without clubbing the capitalization under reconductoring under different approval.

The Commission notes that various stakeholders during the public hearings as well as through written submission have submitted that Discoms projected capex and capitalization plan is never achieved in actual which results in substantially less capitalization than the projected at the time of filing ARR. The stakeholders requested the Commission to review the capitalization plan proposed by the petitioners and reduce the capitalization based on historical progress. The stakeholders requested the Commission to approve the capitalization under the control period of FY 2025-26 to FY 2027-28.

It was opined by the Commission that the RDSS scheme is aimed at to improve the quality, reliability and affordability of power supply to consumers through a financially sustainable and operationally efficient distribution sector. However, it has been noticed that several schemes are proposed under capacity enhancement of existing Power Sub Stations (NBPDCCL), and to overcome the constraint in distribution networks (SBPDCL), without any details.

Additionally, SBPDCL has submitted proposal regarding Smart Distribution Initiatives including SCADA, DMS, OMS and S/s Automation. However, without detailed project report, its cost benefits, project execution plan, the scheme cannot be approved. Hence, the Petitioner shall file appropriate Petition under Bihar Electricity Regulatory Commission (Procedure for filing Capital investment and Capitalisation plan) Regulations, 2018 for those schemes/ projects , approval of which is yet to be granted by the Commission..

The Commission has reviewed the performance of the DISCOMs in terms of actual asset capitalization amount vis-à-vis the capitalization amount proposed in its ARR Petitions. It has been observed that, in true-up of FY 2023-24, NBPDC & SBPDCL has actually achieved capitalization of only 55% and 71% in comparison to the capitalization proposed in its Petition of ARR for FY 2023-24. The Commission notes that Allowing un-realistic capex and capitalisation result in corresponding increase in retail supply tariff of consumers. Hence, considering the past trend of capitalization and observation of the Stakeholders, the Commission considers it appropriate to approve the capitalization to the tune of only 55% and 71% of the projected capitalization of NBPDC & SBPDCL respectively during the control period. The Commission will review the actual capitalization of both DISCOMs for the truing up of FY 2025-26 when the audited account will be available. However, the Commission directs the Petitioners (NBPDC & SBPDCL) to review the capitalisation for the control period and obtain the approval of Commission for the schemes before filing the next tariff Petition as per provisions given under Bihar Electricity Regulatory Commission (Procedure for filing Capital investment and Capitalisation plan) Regulations, 2018.

Accordingly, the Commission provisionally considers the capex and capitalisation during the control period as given below.

Table 6.53 Capitalisation approved for the control period

Particular	Approved for NBPDC			Approved for SBPDCL		
	FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
Capitalisation	2165.98	1319.66	344.96	2393.47	1998.06	653.97

Conclusion:

The Commission approves the capital expenditure and capitalization for the control period of FY 2025-26 to FY 2027-28 as deliberated above.

The Commission has considered all other parameters of ARR for the control period FY 2025-

26 to FY 2027-28 in the Chapter 7 based on approved capitalisation and has deliberated aptly each parameter of ARR in the relevant paragraphs thereof.

7. Aggregate Revenue Requirement for the control period of FY 2025-26 to FY 2027-28

7.1. Background

The Commission, in exercise of powers conferred by subsection (1) and (2) of section 181, read with sections 61, 62, and 86 of the Electricity Act, 2003 and all other powers enabling it in, has published Bihar Electricity Commission (Multi Year Distribution Tariff) Regulations, 2024. The aforesaid Regulations is applicable for determination of tariff from 1st April 2025 onwards and upto FY 2027-28. The Discoms submitted the Petitions for approval of Multi Year Aggregate Revenue Requirement for FY 2025-26 to FY 2027-28 and determination of Retail Supply Tariff for FY 2025-26. The Business Plan(s) for the control period has also been submitted, which has been approved by the Commission after detailed analysis, in the previous chapter.

The Commission has undertaken determination of ARR for FY 2025-26 to FY 2027-28 on the basis of audited annual accounts for FY 2023-24 (true-up), revised estimates for FY 2024-25 and projections submitted by the Petitioners for FY 2025-26 to FY 2027-28 as per the provisions of BERC (Multi Year Distribution Tariff) Regulations, 2024 and other guidelines issued in this context.

It is important to note that, under Regulation 4 of the abovementioned Regulations, the Commission shall determine the tariff of distribution business under a Multi-Year Tariff framework for each financial year subject to provisions under regulations 8,12,13 and 14 of these Regulations. Further, Regulation 4 provides elements of Multi Year framework, which is reproduced below:

“(ii) A detailed Business Plan based on the Operational Norms specified in these regulations and trajectories of performance parameters, for each year of the Control Period, shall be submitted by the applicant for the Commission's approval, subject to provisions under regulations 8,12,13, and 14 of these Regulations;

(iii) Based on the Business Plan, the applicant shall submit a petition with the forecast of Aggregate Revenue Requirement and expected revenue from existing tariff for each year of the Control Period, and the Commission shall approve the tariff for each year of the Control Period; “

Accordingly, the Commission determines the ARR for FY 2025-26 to FY 2027-28 based

on the Business Plan for the said control period, as given in previous Chapter. The component-wise scrutiny of Petitioners' submissions and the Commission's approvals are detailed in the subsequent paragraphs of this section.

7.2. Number of Consumers, Connected Load and Sales for control period

Petitioners' submission

The Petitioners mentioned that the DISCOMs have already provided electricity access to all willing BPL households in urban areas and both APL & BPL households in rural areas under Saubhagya Scheme. The Petitioners have projected the category-wise sales based on the CAGR of the previous years' data, the provisional sales along with the projected figures of FY 2024-25 as well as considering factors like available average consumption per consumer per month, new consumers to be added, population data, expected conversion of unauthorized connections, connected load factor and specific growth factors and wherever the data was incongruous such incongruity was ignored while projecting the load growth for the ensuing years.

The Petitioners projected the specific consumption level (consumption per consumer) appropriate for each customer category, which is based on expected growth relationships to income and price and effect of Demand Side Management. The specific consumption level along with the number of consumers in each category gives the sales figure for that particular sub-category.

The Petitioners mentioned that segregation of the agricultural feeders will have a positive effect on the overall system stability as well as on demand side management. Hence an appropriate CAGR is assumed in the sales of agricultural category.

The initiatives taken by the DISCOM in providing connections under the Har Ghar Nal is already reflecting in the sales and is further expected to increase.

However, with release of huge number of connections to the rural households and left-over urban households in recent years under various State and Central Govt. schemes, the scope of adding new consumers is getting minimized. Therefore, lesser number of consumers are expected to be added in FY 2025-26. Taking the same into account, the growth in number of consumers for various categories have been considered at a lower

rate as compared to previous years.

The Petitioners submitted that the general approach followed for projection of all categories include: -

- i). The consumer numbers for FY 2025-26 are projected considering the provisional figures as available for September 2024 and thereafter an appropriate growth rate across the categories have been considered by the end of FY 2024-25 over the previous year. Thereafter, the overall growth rate has been assumed to be around 4% for FY 2025-26.
- ii). Successful implementation of the Mukhyamantri Har Ghar Bijlee Yojna and/or Saubhagya scheme ensured that all the willing households are connected. Due to the rise in consumerism among consumers in the country, there will be a rise in the consumption of electricity in the coming years. Gradually the customers currently segregated under the Kutir Jyoti category move on to higher categories.
- iii). For projecting the connected load, an average connected load per consumer has been taken as per the actual data of the past few years. This has then been then multiplied by projected number of consumers to arrive at the connected Load.
- iv). The energy sales have been projected by considering the average consumption per consumer per month and then multiplying the same to the projected number of consumers.
- v). The number of years taken for estimating the CAGR however varies since the trend in certain categories is impacted by multiple other factors and taking a uniform period for calculating the CAGR skews the outcome.
- vi). In addition to the CAGR, it has also been ensured that other factors impacting demand, such as growth in the no. of consumers, enhanced power procurement, strengthening of distribution network for enhancing quality of supply, energy efficiency and DSM measures etc., have been adequately incorporated to reflect a realistic demand scenario.

The Petitioners have projected the category-wise number of consumers, connected load and energy sales for FY 2025-26 to FY 2027-28 as shown in Tables below:

Table 7.1: Category wise Number of Consumers Projected by Discoms for FY 2025-26 to FY 2027-28

Sr. No	Category of Consumers	NBPDCCL			SBPDCL			Total		
		FY 25-26	FY 26-27	FY 27-28	FY 25-26	FY 26-27	FY 27-28	FY 25-26	FY 26-27	FY 27-28
1	Domestic	11,809,188	12,060,770	12,318,726	6,614,885	6,757,083	6,903,008	1,84,24,073	1,88,17,853	1,92,21,734
A	Kutir Jyoti	4,397,735	4,441,712	4,486,129	1,579,252	1,587,306	1,595,401	59,76,987	60,29,018	60,81,530
B	DS I Rural	5,937,324	6,115,443	6,298,907	3,342,598	3,442,876	3,546,162	92,79,922	95,58,319	98,45,069
C	DS II Demand Based	1,474,032	1,503,513	1,533,583	1,692,872	1,726,730	1,761,264	31,66,904	32,30,243	32,94,847
D	DS III	97	102	107	163	171	180	260	273	287
2	Non-Domestic Service	1,062,207	1,132,129	1,206,973	740,833	795,315	853,823	18,03,040	19,27,444	20,60,796
A	NDS I - Metered Now Demand Based	636,912	687,864	742,894	280,832	303,298	327,562	9,17,744	9,91,162	10,70,456
B	NDS II - Demand Based	425,296	444,265	464,080	460,001	492,017	526,261	8,85,297	9,36,282	9,90,341
i	Contract Demand <0.5 kW	2,676	2,796	2,922	11,466	12,264	13,118	14,142	15,060	16,040
ii	Contract Demand >0.5 kW	422,620	441,469	461,158	448,534	479,752	513,143	8,71,154	9,21,221	9,74,301
3	Street Light Services	3,147	3,235	3,329	2,796	2,919	3,050	5,943	6,154	6,379
A	SS Metered	812	877	947	1,355	1,464	1,581	2,167	2,341	2,528
B	SS Unmetered	2,335	2,358	2,382	1,440	1,455	1,469	3,775	3,813	3,851
4	Irrigation & Allied Services	318,111	343,208	370,302	452,738	488,701	527,533	7,70,849	8,31,909	8,97,835
A	IAS I	311,071	335,956	362,833	447,611	483,420	522,093	7,58,682	8,19,376	8,84,926
i	Unmetered	13,792	14,895	16,086	208,329	253,808	309,214	2,22,121	2,68,703	3,25,300
ii	Metered	297,279	321,062	346,746	296,600	361,348	440,231	5,93,879	6,82,410	7,86,977
B	IAS II	7,040	7,251	7,469	5,127	5,281	5,440	12,167	12,532	12,909
i	Metered (Now Demand Based)	7,040	7,251	7,469	3,342,598	3,442,876	3,977,710	33,49,638	34,50,127	39,85,179
5	Public Service Connections	73,334	77,679	82,281	38,025	40,198	42,497	1,11,359	1,17,877	1,24,778
A	Public Water Works	2,127	2,199	2,273	3,497	3,598	3,701	5,624	5,797	5,974
B	Har Ghar Nal	71,207	75,479	80,008	34,528	36,600	38,796	1,05,735	1,12,079	1,18,804
6	Low Tension Industrial Services	105,482	113,921	123,034	105,243	113,663	122,756	2,10,725	2,27,584	2,45,790
A	LTIS I (0-19 kW)	103,239	111,498	120,418	98,392	106,263	114,764	2,01,631	2,17,761	2,35,182
B	LTIS II (>19 kW - 74 kW)	2,243	2,422	2,616	6,851	7,400	7,992	9,094	9,822	10,608
7	LT Electric Vehicle Charging Station	273	287	301	534	560	588	807	847	889
8	HT-General	1,868	1,961	2,059	3,088	3,242	3,404	4,956	5,203	5,463
A	HTS (General)- I (11 kV)	1,773	1,861	1,955	2,847	2,989	3,138	4,620	4,850	5,093

Sr. No	Category of Consumers	NBPDCCL			SBPDCL			Total		
		FY 25-26	FY 26-27	FY 27-28	FY 25-26	FY 26-27	FY 27-28	FY 25-26	FY 26-27	FY 27-28
B	HTS (General)- II (33 kV)	88	93	97	236	248	260	324	341	357
C	HTS (General)- III (132 kV)	6	6	6	5	5	5	11	11	11
D	HTS (General)- IV (220 kV)	1	1	1	-	-	-			
	HTS (General)- V (400 kV)	-	-	-	-	-	-			
9	HT-Industrial Services	11	11	11	46	46	46	57	57	57
A	HTIS (Industrial) – I (11 kV)	3	3	3	-	-	-			
B	HTIS (Industrial)– II (33 kV)	4	4	4	-	-	-			
C	HTIS (Industrial) – III (132 kV)	-	-	-	-	-	-			
D	HTIS (Industries)-IV (220 kV)	-	-	-	-	-	-			
	HTIS (Industries)-V (400 kV)	-	-	-	-	-	-			
E	HTIS (Oxygen Manufacturers)- 11 KV	1	1	1	33	33	33	34	34	34
	HTSS – (33 kV/11 kV)	3	3	3	13	13	13	16	16	16
10	Railway Traction Services	8	8	8	10	10	10	18	18	18
11	Nepal	1	1	1				1	1	1
13	HT Electric Vehicle Charging Stations.							0	0	0
10	Total	13,373,631	13,733,210	14,107,026	7,958,197	8,201,736	8,456,715	2,13,31,828	2,19,34,946	2,25,63,741

Table 7.2: Category-wise connected load projected for FY 2025-26 to FY 2027-28

Sr. No	Category of Consumers	NBPDCCL			SBPDCL			Total		
		FY 25-26	FY 26-27	FY 27-28	FY 25-26	FY 26-27	FY 27-28	FY 25-26	FY 26-27	FY 27-28
1	Domestic	9,897,640	10,259,086	10,633,969	8,611,218	8,905,319	9,209,705	1,85,08,858	1,91,64,405	1,98,43,674
A	Kutir Jyoti	1,131,793	1,165,973	1,201,185	407,641	417,914	428,446	15,39,434	15,83,887	16,29,631
B	DS I Rural	6,190,111	6,439,573	6,699,088	3,571,108	3,715,024	3,864,739	97,61,219	1,01,54,597	1,05,63,827
i	Unmetered (Now Metered)	-	-	-	-	-	-			
ii	Metered (Now Demand Based)	6,190,111	6,439,573	6,699,088	3,571,108	3,715,024	3,864,739	97,61,219	1,01,54,597	1,05,63,827
a	First 50 Units	4,577,870	4,762,358	4,954,281	1,400,082	1,456,505	1,515,202	59,77,952	62,18,863	64,69,483
b	51-100 Units	1,276,356	1,327,794	1,381,304	2,171,026	2,258,519	2,349,537	34,47,382	35,86,313	37,30,841
c	101-200 Units	335,885	349,421	363,503				3,35,885	3,49,421	3,63,503
d	Above 200 Units	-	-	-						

Sr. No	Category of Consumers	NBPDCI			SBPDCL			Total		
		FY 25-26	FY 26-27	FY 27-28	FY 25-26	FY 26-27	FY 27-28	FY 25-26	FY 26-27	FY 27-28
C	DS II Demand Based	2,575,150	2,652,919	2,733,037	4,632,087	4,771,976	4,916,089	72,07,237	74,24,895	76,49,126
i	First 100 Units	2,128,150	2,192,420	2,258,631	2,044,237	2,105,973	2,169,574	41,72,387	42,98,393	44,28,205
ii	101-200 Units	322,586	332,328	342,364	2,587,849	2,666,002	2,746,516	29,10,435	29,98,330	30,88,880
iii	201-300 Units	124,414	128,172	132,042				1,24,414	1,28,172	1,32,042
iv	Above 300 Units	-	-	-						
D	DS III (Optional- Demand Based)	586	621	659	382.38	405.52	430.05	968	1,027	1,089
2	Non-Domestic Service	2,163,579	2,340,775	2,533,182	2,106,185	2,303,072	2,518,407	42,69,764	46,43,847	50,51,589
A	NDS I - Metered Now Demand Based	983,122	1,083,007	1,193,041	494,096	544,297	599,597	14,77,218	16,27,304	17,92,638
B	NDS II - Demand Based	1,180,457	1,257,768	1,340,142	1,612,089	1,758,776	1,918,810	27,92,546	30,16,544	32,58,952
i	Contract Demand <0.5 kW	1,453	1,548	1,650	6809	7428	8104	8,262	8,976	9,754
ii	Contract Demand >0.5 kW	1,179,004	1,256,220	1,338,492	1605280	1751347	1910706	27,84,284	30,07,567	32,49,198
3	Street Light Services	32,868	34,243	35,699	40,975	43,168	45,524	73,843	77,411	81,223
A	SS Metered	5,366	5,911	6,512	13,384	14,743	16,241	18,750	20,654	22,753
B	SS Unmetered	27,501	28,332	29,187	27,591	28,424	29,283	55,092	56,756	58,470
4	Irrigation & Allied Services	672,902	737,184	807,771	1,013,892	1,235,358	1,506,853	16,86,794	19,72,542	23,14,624
A	IAS I	612,769	674,008	741,399	968,618	1,187,793	1,456,882	15,81,387	18,61,801	21,98,281
i	Unmetered	31,423	33,598	35,923	434,373	523,905	631,891	4,65,796	5,57,503	6,67,814
ii	Metered	581,346	640,411	705,476	534,245	663,888	824,991	11,15,591	13,04,299	15,30,467
B	IAS II	60,133	63,176	66,373	45,274	47,565	49,972	1,05,407	1,10,741	1,16,345
i	Metered (Now Demand Based)	60,133	63,176	66,373	45,274	47,565	49,972	1,05,407	1,10,741	1,16,345
5	Public Service Connections	199,869	215,212	231,753	139,741	149,387	159,732	3,39,610	3,64,599	3,91,485
A	Public Water Works	33,035	34,831	36,725	53,463	56,103	58,873	86,498	90,934	95,598
B	Har Ghar Nal	166,834	180,381	195,028	86,279	93,285	100,859	2,53,113	2,73,666	2,95,887
6	Low Tension Industrial Services	980,269	1,069,278	1,166,368	1,156,172	1,261,152	1,375,665	21,36,441	23,30,430	25,42,033
A	LTIS I (0-19 kW)	875,839	955,365	1,042,112	796,318	868,624	947,495	16,72,157	18,23,989	19,89,607
B	LTIS II (>19 kW - 74 kW)	104,430	113,913	124,256	359,854	392,528	428,170	4,64,284	5,06,441	5,52,426
7	LT Electric Vehicle Charging Station	1,881	2,074	2,287	3,970	4,377	4,825	5,851	6,451	7,112
8	HT-General	590,620	628,355	668,682	1,076,712	1,149,152	1,226,656	16,67,332	17,77,507	18,95,338
A	HTS (General)- I (11 kV)	388,109	415,665	445,177	650,750	696,953	746,437	10,38,859	11,12,618	11,91,614
B	HTS (General)- II (33 kV)	120,143	128,674	137,809	347,412	372,078	398,495	4,67,555	5,00,752	5,36,304

Sr. No	Category of Consumers	NBPDCI			SBPDCL			Total		
		FY 25-26	FY 26-27	FY 27-28	FY 25-26	FY 26-27	FY 27-28	FY 25-26	FY 26-27	FY 27-28
C	HTS (General)- III (132 kV)	69,363	70,751	72,166	78,550	80,121	81,724	1,47,913	1,50,872	1,53,890
D	HTS (General)- IV (220 kV)	13005	13265.1	13530.402				13,005	13,265	13,530
	HTS (General)- V (400 kV)	-	-	-						
9	HT-Industrial Services	16,696	17,029	17,371	144,845	147,741	150,696	1,61,541	1,64,770	1,68,067
A	HTIS (Industrial) – I (11 kV)	2,021	2,061	2,103				2,021	2,061	2,103
B	HTIS (Industrial)– II (33 kV)	4,697	4,791	4,887				4,697	4,791	4,887
C	HTIS (Industrial) – III (132 kV)	-	-	-						
D	HTIS (Industries)-IV (220 kV)	-	-	-						
	HTIS (Industries)- V (400 kV)							0	0	0
E	HTIS (Oxygen Manufacturers)- 11 KV	198	202	206	7,003	7,143	7,286	7,201	7,345	7,492
	HTIS (Oxygen Manufacturers)- 33 KV							0	0	0
	HTSS – (33 kV/11 kV)	9,780	9,975	10,175	137,842	140,598	143,410	1,47,622	1,50,573	1,53,585
10	Railway Traction Services	63,654	65,564	67,531	106,620	109,819	113,114	1,70,274	1,75,383	1,80,645
11	Nepal							0	0	0
12	DF							0	0	0
13	HT Electric Vehicle Charging Stations.	-	-	-						
	Total	14,619,978	15,368,799	16,164,613	14,400,329	15,308,545	16,311,177	2,90,20,307	3,06,77,344	3,24,75,790

Table 7.3: Category-wise sales projected for FY 2025-26 to FY 2027-28

Category of Consumers	NBPDCI			SBPDCL			Total		
	FY 25-26	FY 26-27	FY 27-28	FY 25-26	FY 26-27	FY 27-28	FY 25-26	FY 26-27	FY 27-28
Domestic	9,468.00	9,793.09	10,130.14	8,381.56	8,680.76	8,991.45	17,849.56	18,473.85	19,121.59
Kutir Jyoti	2,806.26	2,862.67	2,920.21	1,547	1,571	1,595	4,353.26	4,433.67	4,515.21
DS I Rural	4,682.62	4,871.33	5,067.64	3,481	3,621	3,767	8,163.62	8,492.33	8,834.64
Metered (Now Demand Based)	4,959.36	5,309.50	5,684.35	3,481	3,621	3,767	8,440.36	8,930.50	9,451.35
DS II Demand Based	1,978.71	2,058.65	2,141.82	3,353	3,489	3,630	5,331.71	5,547.65	5,771.82
DS III	0.41	0.44	0.47	0.28	0.30	0.32	0.69	0.74	0.79
Non-Domestic Service	2,130.74	2,302.69	2,489.18	1,952	2,135	2,335	4,082.74	4,437.69	4,824.18
NDS I - Metered Now Demand Based	897.16	988.31	1,088.72	495	546	601	1,392.16	1,534.31	1,689.72

Category of Consumers	NBPDCCL			SBPDCL			Total		
	FY 25-26	FY 26-27	FY 27-28	FY 25-26	FY 26-27	FY 27-28	FY 25-26	FY 26-27	FY 27-28
NDS II - Demand Based	1,233.59	1,314.38	1,400.46	1,457	1,589	1,734	2,690.59	2,903.38	3,134.46
Contract Demand <0.5 kW	1.81	1.93	2.06	6.73	7.35	8.01	8.54	9.28	10.07
Contract Demand >0.5 kW	1,231.77	1,312.45	1,398.41	1,450	1,582	1,726	2,681.77	2,894.45	3,124.41
Street Light Services	213.20	215.70	218.39	281	290	300	494.20	505.70	518.39
SS Metered	19.91	21.93	24.16	82	90	99	101.91	111.93	123.16
SS Unmetered	193.30	193.77	194.24	200	200	201	393.30	393.77	395.24
Irrigation & Allied Services	2,013.30	2,209.35	2,424.87	5,311	6,482	7,925	7,324.30	8,691.35	10,349.87
IAS I	1,859.27	2,047.53	2,254.86	4,924	6,076	7,498	6,783.27	8,123.53	9,752.86
Unmetered	19.97	21.35	22.83	1,179	1,422	1,715	1,198.97	1,443.35	1,737.83
Metered	1,839.30	2,026.17	2,232.03	3,745	4,654	5,783	5,584.30	6,680.17	8,015.03
IAS II	154.03	161.82	170.01	387	406	427	541.03	567.82	597.01
Metered (Now Demand Based)	154.03	161.82	170.01	387	406	427	541.03	567.82	597.01
Public Service Connections	594.51	641.69	692.63	551.21	590.85	633.45	1,145.72	1,232.54	1,326.08
Public Water Works	41.03	43.27	45.62	161	169	177	202.03	212.27	222.62
Har Ghar Nal	553.48	598.42	647.01	390	422	456	943.48	1,020.42	1,103.01
Low Tension Industrial Services	527.80	581.43	640.50	603.60	664.92	732.48	1,131.40	1,246.35	1,372.98
LTIS I (0-19 kW)	479.34	528.05	581.70	373	411	453	852.34	939.05	1,034.70
LTIS II (>19 kW - 74 kW)	48.46	53.38	58.81	230	253	279	278.46	306.38	337.81
LT Electric Vehicle Charging Station	16.09	17.40	18.82	7.05	7.62	8.24	23.14	25.02	27.06
HT-General	1090.63	1162.13	1238.58	2044	2175	2314	3,134.63	3,337.13	3,552.58
HTS (General)- I (11 kV)	684.60	733.21	785.27	1,010	1,082	1,159	1,694.60	1,815.21	1,944.27
HTS (General)- II (33 kV)	289.47	310.03	332.04	749	802	859	1,038.47	1,112.03	1,191.04
HTS (General)- III (132 kV)	116.56	118.89	121.27	285	291	296	401.56	409.89	417.27
HTS (General)- IV (220 kV)	-	-	-						
HTS (General)- V (400 kV)	-	-	-						
HT-Industrial Services	56.33	57.46	58.6	811.61	827.74	844.88	867.94	885.20	903.48
HTIS (Industrial) – I (11 kV)	6.94	7.08	7.22				6.94	7.08	7.22
HTIS (Industrial)– II (33 kV)	11.85	12.09	12.33				11.85	12.09	12.33
HTIS (Industrial) – III (132 kV)	-	-	-						
HTIS (Industries)-IV (220 kV)	-	-	-						
HTIS (Industries)-V (400 kV)	-	-	-						

Category of Consumers	NBPDCI			SBPDCL			Total		
	FY 25-26	FY 26-27	FY 27-28	FY 25-26	FY 26-27	FY 27-28	FY 25-26	FY 26-27	FY 27-28
HTIS (Oxygen Manufacturers)- 11 KV	0.21	0.21	0.21	6.61	6.74	6.88	6.82	6.95	7.09
HTIS (Oxygen Manufacturers)- 33 KV	-	-	-						
HTSS – (33 kV/11 kV)	37.33	38.08	38.84	805	821	838	842.33	859.08	876.84
Railway Traction Services	129.58	133.46	137.47	310.19	319.49	329.08	439.77	452.95	466.55
Nepal	256.55	256.55	256.55				256.55	256.55	256.55
HT Electric Vehicle Charging Stations.	0	0	0				0.00	0.00	0.00
Total	16,240.19	17,114.37	18,049.18	20253.51	22173.40	24413.22	36,493.70	39,287.77	42,462.40

Commission's analysis**Analysis of Category wise number of Consumers, Energy Sales and Connected Load**

The Commission notes that the Petitioners have submitted that electricity access has been already provided to all willing BPL households both in Urban and Rural areas under Mukhyamantri Har Ghar Bijlee Yojna and/or Saubhagya Scheme. With release of huge number of connections to the rural households and left-over urban households in recent years under various State and Central Government schemes, further scope of adding new consumers is getting minimized. Therefore, lesser number of consumers are expected to be added over next financial year in comparison to the previous years. Taking the same into account the growth in number of consumers for various categories have been considered at a lower rate as compared to previous year.

The Petitioners have submitted that for projecting connected load, the average connected load per consumer has been taken as per the actual data of the past few years and this has been then multiplied by projected number of consumers to arrive at the connected load for that category of consumers.

Further, the Petitioners have projected the category-wise sales for the control period based on the CAGR of the previous years' data, considering factors like available average consumption per consumer per month, new consumers to be added, population data, expected conversion of unauthorized connections, connected load factor and specific growth factors and wherever the data was incongruous such incongruity was ignored while projecting the load growth for the ensuing years.

The Petitioners also submitted that the specific consumption level along with the number of consumers in each category gives the sales figure for that particular subcategory.

It is noted the segregation of the agricultural feeders will have a positive effect on the overall system stability as well as on demand side management. Hence an appropriate CAGR is assumed by Petitioners in the sales of agricultural category.

Considering that the Discoms might have taken adequate care of all possible options such as electrification of new areas and new households, both in urban and rural areas, improved number of supply hours in rural areas, disposal of pending applications on hand for new connections etc., the Commission has approved the Category- wise

number of Consumers, Connected Load and Energy Sales for the control period as projected by NBPDCCL and SBPDCL.

The Commission has already elaborated its approach to approve the Category wise number of Consumers, Energy Sales and Connected Load, under the previous chapter of Business Plan and hence the Commission has not repeated the detailed approach in this section.

As mentioned in previous chapter, the Commission has noted that the average consumption per consumer per month for Kutir Jyoti is projected considering more than the stipulated norm of 50 units per consumer per month; hence, the Commission considers it appropriate to allow specific consumption for Kutir Jyoti category at 50 units per month per consumer only.

The applicability of Kutir Jyoti category is to those dwelling houses of rural and urban families which are Below Poverty Line (BPL) as per the list notified and published by Rural Development Department of the State Government of Bihar and also fulfilling the norm of connected load not exceeding 250 watts and consumption per month not exceeding 50 units. Therefore, wherever the applicability, is violated, the Kutir Jyoti category has to be converted in to DS-I. This will also improve the revenue to Discoms. Regarding un-metered supply to IAS-I and Street Light category, in the Tariff Order dated 01.03.2024, the Commission opined the following:

“Nonetheless, in view of the difficulties expressed by Discoms in the earlier petitions, the Commission has considered to further allow one more year i.e. upto 31.03.2024 to install meters to the unmetered IAS-I consumers and street light unmetered categories.”

Discoms were allowed to install meters in the two unmetered categories viz. IAS-I and street light till 31st March, 2024. However, it is observed that the Petitioners have neither submitted reason for not fulfilling this target including any roadmap to complete installing of meters to the unmetered connections to these two unmetered categories i.e. IAS-I and Street Light nor requested to allow further time to continue the unmetered IAS-I and street light categories. Further, Discoms have projected unmetered consumer numbers in those categories even till FY 2027-28, i.e. last year of the present control period.

The Commission once again directs the Licensees to comply with the directions given

by the Commission to put its sincere efforts for converting the unmetered consumers to metered consumers thereby ensuring that 100% metering is achieved, failing which the Commission may take a strict view for appropriate action. The progress of work regarding providing meter to un-metered consumers must be submitted in the quarterly report without fail.

The Commission has analysed the submissions made by Discoms for projecting the category wise number of consumers, connected load and energy sales and approval for the same for the control period is given below.

The historical data on Category-wise number of consumers and the year-on-year growth rates in the past years and the category-wise number of consumers approved for the control period is as shown in the Tables below:

Table 7.4: Category-wise Number of consumers for the past 5 years and growth rates for NBPDCCL

Sr. No	Category of Consumers	FY 20	FY 21	FY 22	FY 23	FY 24	CAGR			
							4 Year	3 Year	2 Year	YoY
1	Domestic	94,65,335	99,84,126	1,04,15,432	1,07,85,533	1,13,24,461	5%	4.29%	4.27%	5.00%
A	Kutir Jyoti	40,15,781	41,62,883	42,37,872	42,17,514	43,11,082	1.79%	1.17%	0.86%	2.22%
B	DS I Rural	42,58,986	46,01,721	48,41,296	51,77,639	55,96,497	7.07%	6.74%	7.52%	8.09%
C	DS II Demand Based	11,90,527	12,19,455	13,36,193	13,90,297	14,16,794	4%	5.13%	2.97%	1.91%
D	DS III	41	67	71	83	88	21%	9.51%	11.33%	6.02%
2	Non-Domestic Service	4,87,545	6,09,912	7,15,048	8,34,977	9,35,802	18%	15%	14%	12%
A	NDS I - Metered Now Demand Based	1,95,954	2,74,524	3,61,635	4,57,453	5,46,049	29%	25.76%	22.88%	19.37%
B	NDS II - Demand Based	2,91,591	3,35,388	3,53,413	3,77,524	3,89,753	8%	5.13%	5.02%	3.24%
3	Street Light Services	1,044	1,255	1,884	2,239	2,985	30%	33%	26%	33%
A	SS Metered	301	339	420	522	696	23.31%	27.10%	28.73%	33.33%
B	SS Unmetered	743	916	1,464	1,717	2,289	32.48%	35.70%	25.04%	33.31%
4	Irrigation & Allied Services	79,818	1,08,224	1,32,548	1,90,341	2,73,329	36%	36%	44%	44%
A	IAS I	74,706	1,01,996	1,26,217	1,83,992	2,66,693	37%	38%	45%	45%
B	IAS II	5,112	6,228	6,331	6,349	6,636	6.74%	2.14%	2.38%	4.52%
5	Public Service Connections	11,453	36,322	51,049	56,269	65,365	55%	22%	13%	16%
A	Public Water Works	1,586	1,669	1,799	2,014	1,991	6%	6.06%	5.20%	-1.14%
B	Har Ghar Nal	9,867	34,653	49,250	54,255	63,374	59%	22.29%	13.44%	16.81%
6	Low Tension Industrial Services	41,216	53,891	65,642	79,005	90,434	22%	19%	17%	14%
A	LTIS I (0-19 kW)	40,314	52,823	64,577	77,807	88,511	22%	18.77%	17.07%	13.76%
B	LTIS II (>19 kW - 74 kW)	902	1,068	1,065	1,198	1,923	20.84%	21.66%	34.37%	60.52%
7	LT Electric Vehicle Charging Station				104	100	0	0	0	-4%
8	HT-General	1,111	1,156	1,339	1,447	1,698	11%	14%	13%	17%
A	HTS (General)- I (11 kV)	1,058	1,103	1,276	1,378	1,608	11%	13%	12%	17%
B	HTS (General)- II (33 kV)	46	46	57	62	80	15%	20%	18%	29%
C	HTS (General)- III (132 kV)	3	3	3	4	6	19%	26%	41%	50%
E	HTSS – (33 kV/11 kV)	4	4	3	3	3	-7%	-9%	0%	0%
10	Railway Traction Services	4	6	5	8	8	19%	10%	26%	0%

Table 7.5: Category-wise Number of consumers for the past 5 years and growth rates for SBPDCL

Sr. No	Category of Consumers	FY 20	FY 21	FY 22	FY 23	FY 24	CAGR (%)			
							4 Year	3 Year	2 Year	YoY
1	Domestic	50,75,789	53,42,375	56,33,681	59,88,814	63,41,269	6%	6%	6%	6%
A	Kutir Jyoti	14,83,858	15,34,746	15,47,844	15,56,541	15,63,266	1.31%	0.62%	0.50%	0.43%
B	DS I Rural	22,74,063	24,71,230	26,38,966	29,04,828	31,50,719	8%	8.43%	9.27%	8.46%
C	DS II Demand Based	13,17,764	13,36,217	14,46,871	15,27,445	16,27,136	5%	6.79%	6.05%	6.53%
D	DS III	104	182	-	-	148	9%	-7%	#NUM!	#DIV/0!
2	Non_Domestic Service	4,06,025	4,62,059	5,28,126	5,90,371	6,42,851	12%	12%	10%	9%
A	NDS I - Metered Now Demand Based	94,531	1,41,120	1,75,532	2,12,100	2,40,768	26%	19.49%	17.12%	13.52%
B	NDS II - Demand Based	3,11,494	3,20,939	3,52,594	3,78,271	4,02,083	7%	7.80%	6.79%	6.29%
3	Street Light Services	1,376	1,483	2,119	2,265	2,574	17%	20%	10%	14%
A	SS Metered	752	776	947	1,000	1,162	11%	14.41%	10.77%	16.20%
B	SS Unmetered	624	707	1,172	1,265	1,412	23%	25.93%	9.76%	11.62%
4	Irrigation & Allied Services	2,34,788	2,51,071	2,63,242	3,05,007	3,88,587	13%	16%	21%	27%
A	IAS I	2,31,154	2,46,590	2,58,659	3,00,283	3,83,754	13.51%	15.88%	21.80%	27.80%
B	IAS II	3,634	4,481	4,583	4,724	4,833	7%	2.55%	2.69%	2.31%
5	Public Service Connections	5,849	18,962	29,224	31,859	34,034	55%	22%	8%	7%
A	Public Water Works	2,626	2,916	3,136	3,247	3,304	6%	4.25%	2.64%	1.76%
B	Har Ghar Nal	3,223	16,046	26,088	28,612	30,730	76%	24.18%	8.53%	7.40%
6	Low Tension Industrial Services	64,026	71,717	77,756	84,698	90,229	9%	8%	8%	7%
A	LTIS I (0-19 kW)	59,574	66,822	72,512	79,149	84,355	9%	8.08%	7.86%	6.58%
B	LTIS II (>19 kW - 74 kW)	4,452	4,895	5,244	5,549	5,874	7%	6.27%	5.84%	5.86%
8	HT-General	1,929	2,064	2,305	2,497	2,814	10%	11%	10%	13%
10	Railway Traction Services	1	6	3	6	10	78%	19%	83%	67%

Table 7.6: Category-wise number of consumers approved for NBPDC & SBPDCL for the control period

Sr. No	Category of Consumers	NBPDC			SBPDCL		
		FY 25-26	FY 26-27	FY 27-28	FY 25-26	FY 26-27	FY 27-28
1	Domestic	11,809,188	12,060,770	12,318,726	6,614,885	6,757,083	6,903,008
A	Kutir Jyoti	4,397,735	4,441,712	4,486,129	1,579,252	1,587,306	1,595,401
B	DS I Rural	5,937,324	6,115,443	6,298,907	3,342,598	3,442,876	3,546,162
C	DS II Demand Based	1,474,032	1,503,513	1,533,583	1,692,872	1,726,730	1,761,264
D	DS III	97	102	107	163	171	180
2	Non-Domestic Service	1,062,207	1,132,129	1,206,973	740,833	795,315	853,823
A	NDS I - Metered Now Demand Based	636,912	687,864	742,894	280,832	303,298	327,562
B	NDS II - Demand Based	425,296	444,265	464,080	460,001	492,017	526,261
I	Contract Demand <0.5 kW	2,676	2,796	2,922	11,466	12,264	13,118
Ii	Contract Demand >0.5 kW	422,620	441,469	461,158	448,534	479,752	513,143
3	Street Light Services	3,147	3,235	3,329	2,796	2,919	3,050
A	SS Metered	812	877	947	1,355	1,464	1,581
B	SS Unmetered	2,335	2,358	2,382	1,440	1,455	1,469
4	Irrigation & Allied Services	318,111	343,208	370,302	510056	620437	754885
A	IAS I	311,071	335,956	362,833	504929	615156	749445
I	Unmetered	13,792	14,895	16,086	208,329	253,808	309,214
Ii	Metered	297,279	321,062	346,746	296,600	361,348	440,231
B	IAS II	7,040	7,251	7,469	5,127	5,281	5,440
5	Public Service Connections	73,334	77,679	82,281	38,025	40,198	42,497
A	Public Water Works	2,127	2,199	2,273	3,497	3,598	3,701
B	Har Ghar Nal	71,207	75,479	80,008	34,528	36,600	38,796
6	Low Tension Industrial Services	105,482	113,921	123,034	105,243	113,663	122,756
A	LTIS I (0-19 kW)	103,239	111,498	120,418	98,392	106,263	114,764
B	LTIS II (>19 kW - 74 kW)	2,243	2,422	2,616	6,851	7,400	7,992
7	LT Electric Vehicle Charging Station	110	116	122	534	560	588
8	HT-General	1,868	1,961	2,059	3,088	3,242	3,404
A	HTS (General)- I (11 kV)	1,773	1,861	1,955	2,847	2,989	3,138
B	HTS (General)- II (33 kV)	88	93	97	236	248	260

Sr. No	Category of Consumers	NBPDCCL			SBPDCL		
		FY 25-26	FY 26-27	FY 27-28	FY 25-26	FY 26-27	FY 27-28
C	HTS (General)- III (132 kV)	6	6	6	5	5	5
D	HTS (General)- IV (220 kV)	1	1	1	-	-	-
	HTS (General)- V (400 kV)	-	-	-	-	-	-
9	HT-Industrial Services	11	11	11	46	46	46
A	HTIS (Industrial) – I (11 kV)	3	3	3	-	-	-
B	HTIS (Industrial)– II (33 kV)	4	4	4	-	-	-
C	HTIS (Industrial) – III (132 kV)	-	-	-	-	-	-
D	HTIS (Industries)-IV (220 kV)	-	-	-	-	-	-
	HTIS (Industries)-V (400 kV)	-	-	-	-	-	-
E	HTIS (Oxygen Manufacturers)- 11 KV	1	1	1	33	33	33
	HTSS – (33 kV/11 kV)	3	3	3	13	13	13
10	Railway Traction Services	8	8	8	10	10	10
11	Nepal	1	1	1			
13	HT Electric Vehicle Charging Stations.						
10	Total	13,373,467	13,733,038	14,106846	8015514	8333472	8684065

Further, the historical Category-wise connected load per consumer and the year-on-year growth rates in past seven years are as shown in the Tables below.

NBPDCCL:

Category of Consumers	Average connected load per consumer (in KW)								Increase in Avg. Load (kW) per Consumer over previous year						
	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24
Domestic	0.66	0.72	0.74	0.73	0.79	0.79	0.80	0.81	10%	2%	-1%	8%	0%	2%	1%
Kutir Jyoti	0.14	0.11	0.14	0.15	0.2503	0.2493	0.2480	0.2474	-23%	33%	2%	69%	0%	-1%	0%
DS I Rural	1.00	1.01	1.02	1.01	1.02	1.0130	1.0153	1.0220	0%	1%	0%	0%	0%	0%	0.66%
DS II Demand Based	1.17	1.66	1.72	1.69	1.75	1.6938	1.6949	1.7126	41%	4%	-2%	4%	-3%	0%	1%
DS III	0	0	0	2.15	2.82	3.75	5.88	5.92	0	0	0	31%	33%	57%	1%
Non_Domestic Service	2.14	2.08	1.94	1.76	2.12	2.04	2.01	1.98	-3%	-7%	-9%	20%	-4%	-1%	-2%
NDS I - Metered Now Demand Based	1.06	1.06	1.11	1.13	1.21	1.30	1.3798	1.4836	0%	4%	1%	8%	7.02%	6.21%	7.52%

Category of Consumers	Average connected load per consumer (in KW)								Increase in Avg. Load (kW) per Consumer over previous year						
	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24
NDS II connected load <= 0.5 KW															
NDS II connected load > 0.5 KW															
Street Light Services															
SS Metered	6.80	14.33	11.99	9.43	8.21	8.31	7.85	6.35	111%	-16%	-21%	-13%	1%	-6%	-19%
SS Unmetered	20.68	16.77	11.64	13.63	13.79	11.45	12.44	11.32	-19%	-31%	17%	1%	-17%	9%	-9%
Irrigation & Allied Services	5.87	5.58	3.49	2.92	2.61	2.45	2.22	2.05	-5%	-37%	-16%	-11%	-6%	-9%	-7%
IAS I	3.24	3.02	2.28	2.42	2.25	2.14	2.00	1.90	-7%	-24%	6%	-7%	-5%	-6%	-5%
IAS II	10.66	10.68	10.94	10.17	8.55	8.51	8.34	8.21	0%	2%	-7%	-16%	0%	-2%	-2%
Public Service Connections	22.43	18.58	15.93	3.82	2.78	2.65	2.71	2.64	-17%	-14%	-76%	-27%	-5%	2%	-3%
Public Water Works	22.43	18.58	15.93	13.49	14.36	13.96	14.60	14.92	-17%	-14%	-15%	6%	-3%	5%	2%
Har Ghar Nal				2.26	2.22	2.24	2.26	2.25				-2%	1%	1%	-1%
Low Tension Industrial Services	4.60	10.00	9.67	9.34	9.37	9.23	9.16	9.11	118%	-3%	-3%	0%	-1%	-1%	-1%
LTIS I (0-19 kW)	1.97	8.47	8.42	8.26	8.42	8.46	8.47	8.32	329%	-1%	-2%	2%	0%	0%	-2%
LTIS II (>19 kW - 74 kW)	51.14	66.15	62.69	57.57	55.91	56.38	54.08	45.64	29%	-5%	-8%	-3%	1%	-4%	-16%
LT Electric Vehicle Charging Station	0.00	0.00	0.00	0.00	0.00	0.00	2.88	6.25							117%
HT-General	331.54	326.09	301.50	279.47	280.30	290.66	295.25	313.11	-2%	-8%	-7%	0%	4%	2%	6%
HTSS – (33 kV/11 kV)	2147.40	2147.40	2737.40	2950.00	2950.00	3133.33	3133.33	3133.33	0%	27%	8%	0%	6%	0%	0%
Railway Traction Services	7842.86	8737.50	8737.50	9150.00	8050.00	7500.00	7500.00	7500.00	11%	0%	5%	-12%	-7%	0%	0%

SBPDCL:

Category of Consumers	Average connected load per consumer (in KW)								Increase in Avg. Load (kW) per Consumer over previous year						
	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24
Domestic	1.11	1.35	1.21	1.23	1.2572	1.2600	1.2638	1.2699	21%	-10%	2%	2.27%	0.22%	0.31%	0.48%
Kutir Jyoti	0.08	0.08	0.12	0.13	0.25	0.2498	0.2488	0.2481	2%	40%	8%	97%	-0.15%	-0.38%	-0.30%
DS I Rural	1.03	1.01	1.02	1.03	1.0294	1.0336	1.04019	1.04731	-2%	0%	1%	0.2288%	0.4140%	0.6347%	0.6845%
DS II Demand Based	2.01	2.85	2.71	2.82	2.8352	2.7532	2.7234	2.6823	0.4204	- 0.0504	0.0410	0.5668%	-2.8893%	-1.0847%	-1.5076%
DS III	0	0	0	1.57	1.64	0	0	2.30	0	0	0	5%	0	0	0

Category of Consumers	Average connected load per consumer (in KW)								Increase in Avg. Load (kW) per Consumer over previous year						
	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24
Non_Domestic Service	3.35	3.25	2.91	2.79	2.99	2.85	2.79	2.74	-3%	-10%	-4%	7%	-5%	-2%	-2%
NDS I - Metered Now Demand Based	1.12	1.09	1.12	1.23	1.49	1.5229	1.5647	1.6911	-3%	3%	10%	21.5752%	2.0392%	2.7412%	8.0780%
NDS II - Demand Based															
Contract Demand <0.5 kW	0.66	0.65	0.58	0.57	0.7012	0.6163	0.5883	0.5708	-2%	-10%	-1%	22%	-12.108%	-4.548%	-2.979%
Contract Demand >0.5 kW	3.83	3.75	3.37	3.33	3.72	3.5822	3.5456	3.4400	-2%	-10%	-1%	12%	-3.8263%	-1.0210%	-2.9791%
Street Light Services															
SS Metered	5.42	12.11	7.49	7.11	7.20	10.3830	9.6720	9.4911	123%	-38%	-5%	1%	44%	-7%	-2%
SS Unmetered	6.95	10.77	11.92	21.88	20.98	15.5697	16.6931	18.4116	55%	11%	83%	-4%	-26%	7%	10%
Irrigation & Allied Services	2.47	2.36	2.20	2.14	2.10	2.07	2.03	1.98	-4%	-7%	-3%	-1%	-2%	-2%	-3%
IAS I	2.25	2.15	2.04	2.02	1.99	1.96	1.93	1.89	-4%	-5%	-1%	-2%	-2%	-1%	-2%
IAS II	10.92	10.80	10.73	9.67	8.58	8.54	8.53	8.49	-1%	-1%	-10%	-11%	0%	0%	0%
Public Service Connections	14.05	18.72	14.88	8.20	4.27	3.65	3.64	3.60	33%	-21%	-45%	-48%	-15%	0%	-1%
Public Water Works	14.05	18.72	14.88	14.81	14.63	14.3678	14.7006	14.6943	33%	-21%	0%	-1%	-2%	2%	0%
Har Ghar Nal	0	0	0	2.81	2.39	2.36	2.3838	2.4018	0	0	0	-15%	-1%	1%	1%
Low Tension Industrial Services	14.18	12.36	11.60	11.28	11.20	11.09	10.90	10.77	-13%	-6%	-3%	-1%	-1%	-2%	-1%
LTIS I (0-19 kW)	10.37	8.88	8.35	8.20	8.17	8.11	8.03	7.93	-14%	-6%	-2%	0%	-1%	-1%	-1%
LTIS II (>19 kW - 74 kW)	51.87	55.45	53.69	52.39	52.53	52.23	51.93	51.49	7%	-3%	-2%	0%	-1%	-1%	-1%
LT Electric Vehicle Charging Station	-	-	-	-	-	-	-	6.75							
HT-General	394.87	406.64	372.12	363.46	360.99	353.07	347.89	383.15	3%	-8%	-2%	-1%	-2%	-1%	10%
Railway Traction Services	10,212.00	10,344.00	9,240.00	9,000.00	4,125.00	8,550.00	9,150.00	10,050.00	1%	-11%	-3%	-54%	107%	7%	10%

The Category-wise consumption per consumer and the year-on-year growth rates in past seven years are as shown in the Tables below.

NBPDCCL:

Category of Consumers	Consumption per month per consumer								Growth in average consumption per month per consumer over previous year					
	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24
Domestic														
Kutir Jyoti	28.11	44.49	31.26	52.68	47.41	52.37	53.45	52.13	-30%	69%	-10.01%	10.5%	2.1%	-2.5%
DS I Rural (kWh)	64.48	85.74	46.72	66.93	69.82	62.75	61.61	64.43	-46%	43%	4%	-10%	-2%	5%
DS II Demand Based (kWh)	84.69	74.96	138.38	108.93	117.83	117.37	120.58	107.52	85%	-21%	8%	0%	3%	-11%
DS III					82.70	309.27	341.75	339.22				274%	11%	-1%
Non_Domestic Service														
NDS I - Metered Now Demand Based	70.42	98.86	85.83	63.52	71.14	78.69	109.10	112.83	-13%	-26%	12%	11%	39%	3%
NDS II - Demand Based	248.00	217.50	284.61	253.65	230.43	275.26	275.02	232.33	31%	-11%	-9%	19%	0%	-16%
Street Light Services														
SS Metered	3661.79	2216.78	1319.73	1600.22	1347.06	2151.80	1566.72	1964.01	-40%	21%	-16%	60%	-27%	25%
SS Unmetered	6659.25	2946.08	1934.94	3240.24	2344.91	5069.01	4334.91	7003.21	-34%	67%	-28%	116%	-14%	62%
Irrigation & Allied Services														
IAS I	67.44	115.53	86.18	88.78	225.49	240.16	414.81	479.06	-25%	3%	154%	7%	73%	15%
IAS II	2541.02	2364.06	2317.51	631.85	492.67	1365.42	1179.54	1752.39	-2%	-73%	-22%	177%	-14%	49%
Public Service Connections														
Public Water Works	12082.75	2033.23	1795.00	1113.39	1789.52	2755.93	1546.05	1544.90	-12%	-38%	61%	54%	-44%	0%
Har Ghar Nai				257.00	178.42	305.87	612.50	622.58	0	0	-31%	71%	100%	2%
Low Tension Industrial Services														
LTIS I (0-19 kW)	1045.17	606.44	466.41	415.32	488.35	436.92	431.07	371.90	-23%	-11%	18%	-11%	-1%	-14%
LTIS II (>19 kW - 74 kW)	2290.71	2546.58	4161.34	2414.08	2450.67	2645.51	2558.27	1730.48	63%	-42%	2%	8%	-3%	-32%
LT Electric Vehicle Charging Station	0	0	0	0	0	0	40.87	4628.62						11226%
HT-General														
Railway Traction Services														
RTS	746098.86	1104574.38	2326106.16	3047916.67	444109.09	1125775.57	1034828.30	1272279.30	111%	31%	-85%	153%	-8%	23%
Nepal														

Category of Consumers	Consumption per month per consumer								Growth in average consumption per month per consumer over previous year					
	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24
Nepal	99074504.50	113572500.00	112930225.33	59001666.67	52625000.00	52570423.83	26184805.00	21379166.67	-1%	-48%	-11%	0%	-50%	-18%

SBPDCL:

Category of Consumers	Consumption per month per consumer								Growth in average consumption per month per consumer over previous year						
	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24
Domestic															
Kutir Jyoti	32.56	38.53	67.73	65.13	67.04	75.58	71.49	80.04	18.33%	75.80 %	-3.84%	2.93%	12.73 %	-5.41%	11.97 %
DS I Rural	64.12	78.54	92.43	108.96	139.46	137.85	94.27	85.07	22.50%	17.68 %	17.89 %	27.99 %	-1.16%	-31.61%	-9.76%
DS II Demand Based	173.97	154.79	163.39	190.25	195.55	154.15	158.52	158.65	- 11.02%	5.56%	16.43 %	2.79%	- 21.17 %	2.83%	0.09%
DS III					94.27	0	0	135.76					0	0	0
Non_Domestic Service															
NDS I - Metered Now Demand Based	62.30	74.62	91.72	214.44	224.01	242.95	163.31	141.24	19.77%	22.92 %	133.80 %	4.46%	8.46%	-32.78%	- 13.51 %
NDS II - Demand Based	330.27	329.81	261.00	226.42	222.39	232.43	247.10	253.65	-0.14%	- 20.86 %	- 13.25 %	- 1.78%	4.51%	6.31%	2.65%
Street Light Services															
SS Metered	1,272.05	1,291.13	1,129.68	1,370.43	762.46	4,019.54	4,831.28	4,829.48	1.50%	- 12.50 %	21.31 %	- 44.36 %	427.18 %	20.19%	-0.04%
SS Unmetered	2,606.11	5,701.06	4,068.63	7,904.04	6,333.10	5,947.61	8,814.64	11,729.66	118.76 %	- 28.63 %	94.27 %	- 19.88 %	-6.09%	48.20%	33.07 %
Irrigation & Allied Services															

Category of Consumers	Consumption per month per consumer								Growth in average consumption per month per consumer over previous year						
	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24
IAS I	99.31	114.92	200.05	265.26	275.86	343.30	678.03	792.59	15.72%	74.07 %	32.60 %	4.00%	24.45 %	97.50%	16.90 %
IAS II	1,486.41	2,198.04	2,589.14	1,806.66	2,131.59	2,005.13	5,835.83	6,042.26	47.88%	17.79 %	- 30.22 %	17.99 %	-5.93%	191.05%	3.54%
Public Service Connections															
Public Water Works	2,973.28	3,859.82	2,643.91	2,518.56	2,874.17	2,930.92	3,649.43	3,686.38	29.82%	- 31.50 %	-4.74%	14.12 %	1.97%	24.51%	1.01%
Har Ghar Nal	0	0	0	389.13	211.78	708.77	953.53	905.32	0	0	0	- 45.58 %	234.67 %	34.53%	-5.06%
Low Tension Industrial Services															
LTIS I (0-19 kW)	574.98	348.49	323.73	413.80	275.65	269.71	294.90	304.05	- 39.39%	-7.10%	27.82 %	- 33.39 %	-2.15%	9.34%	3.10%
LTIS II (>19 kW - 74 kW)	4,342.20	3,396.18	2,579.62	2,456.20	2,457.91	2,675.24	2,785.49	2,690.01	- 21.79%	- 24.04 %	-4.78%	0.07%	8.84%	4.12%	-3.43%
LT Electric Vehicle Charging Station	-	-	-	-	-	0	153.41	1,037.09							576.00 %
HT-General															
HTS (General)- I (11 kV)	33,818.67	32,018.64	31,125.30	31,608.85	24,320.08	25,249.92	37,327.63	28,420.41	-5.32%	-2.79%	1.55%	- 23.06 %	3.82%	47.83%	- 23.86 %
HTS (General)- II (33 kV)	2,53,315.60	2,79,094.55	3,13,489.58	2,98,113.52	2,63,218.78	2,36,460.79	2,66,750.07	2,54,295.40	10.18%	12.32 %	-4.90%	- 11.71 %	- 10.17 %	12.81%	-4.67%
HTS (General)- III (132 kV)	35,89,722.22	21,63,166.67	34,01,666.67	35,77,592.08	31,96,251.40	44,44,611.80	43,47,129.18	45,64,288.95	- 39.74%	57.25 %	5.17%	- 10.66 %	39.06 %	-2.19%	5.00%
HTSS – (33 kV/11 kV)	42,20,769.23	46,00,961.54	49,57,179.49	48,14,348.44	36,01,723.73	42,14,195.49	45,94,303.21	49,61,164.28	9.01%	7.74%	-2.88%	- 25.19 %	17.00 %	9.02%	7.99%
Railway Traction Services															

Category of Consumers	Consumption per month per consumer								Growth in average consumption per month per consumer over previous year						
	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24
RTS	31,31,166.67	32,14,722.22	85,35,833.33	85,02,646.83	4,71,658.18	16,82,106.18	22,83,203.60	24,36,496.05	2.67%	165.52%	-0.39%	94.45%	256.64%	35.73%	6.71%

The approved connected load and energy sales are provided in the following tables.

Table 7.7: Category-wise connected load approved for NBPDC & SBPDCL for the control period (in KW)

Sr. No	Category of Consumers	NBPDC			SBPDCL		
		FY 25-26	FY 26-27	FY 27-28	FY 25-26	FY 26-27	FY 27-28
1	Domestic	9897640	10259087	10633969	8611217	8884232	9209704
A	Kutir Jyoti	1099434	1110428	1121532	394813	396827	398850
B	DS I Rural	6222470	6495118	6778741	3583936	3,715,024	3,894,335
C	DS II Demand Based	2,575,150	2,652,919	2,733,037	4,632,087	4,771,976	4,916,089
D	DS III (Optional- Demand Based)	586	621	659	382.38	405.52	430.05
2	Non-Domestic Service	2,163,579	2,340,775	2,533,182	2,106,185	2,303,072	2,518,407
A	NDS I - Metered Now Demand Based	983,122	1,083,007	1,193,041	494,096	544,297	599,597
B	NDS II - Demand Based	1,180,457	1,257,768	1,340,142	1,612,089	1,758,776	1,918,810
i	Contract Demand <0.5 kW	1,453	1,548	1,650	6809	7428	8104
ii	Contract Demand >0.5 kW	1,179,004	1,256,220	1,338,492	1605280	1751347	1910706
3	Street Light Services	32,868	34,243	35,699	40,975	43,167	45,524
A	SS Metered	5,366	5,911	6,512	13,384	14,743	16,241
B	SS Unmetered	27,501	28,332	29,187	27,591	28,424	29,283
4	Irrigation & Allied Services	672,902	737,184	807,771	1,013,892	1,235,358	1,506,853
A	IAS I	612,769	674,008	741,399	968,618	1,187,793	1,456,882
i	Unmetered	31,423	33,598	35,923	434,373	523,905	631,891
ii	Metered	581,346	640,411	705,476	534,245	663,888	824,991
B	IAS II	60,133	63,176	66,373	45,274	47,565	49,972
i	Metered (Now Demand Based)	60,133	63,176	66,373	45,274	47,565	49,972
5	Public Service Connections	199,869	215,212	231,753	139,741	149,387	159,732

Sr. No	Category of Consumers	NBPDC			SBPDCL		
		FY 25-26	FY 26-27	FY 27-28	FY 25-26	FY 26-27	FY 27-28
A	Public Water Works	33,035	34,831	36,725	53,463	56,103	58,873
B	Har Ghar Nal	166,834	180,381	195,028	86,279	93,285	100,859
6	Low Tension Industrial Services	980,269	1,069,278	1,166,368	1,156,172	1,261,152	1,375,665
A	LTIS I (0-19 kW)	875,839	955,365	1,042,112	796,318	868,624	947,495
B	LTIS II (>19 kW - 74 kW)	104,430	113,913	124,256	359,854	392,528	428,170
7	LT Electric Vehicle Charging Station	1,881	2,074	2,287	3,970	4,377	4,825
8	HT-General	590,620	628,355	668,682	1,076,712	1,149,152	1,226,656
A	HTS (General)- I (11 kV)	388,109	415,665	445,177	650,750	696,953	746,437
B	HTS (General)- II (33 kV)	120,143	128,674	137,809	347,412	372,078	398,495
C	HTS (General)- III (132 kV)	69,363	70,751	72,166	78,550	80,121	81,724
D	HTS (General)- IV (220 kV)	13005	13265.1	13530.402			
	HTS (General)- V (400 kV)	-	-	-			
9	HT-Industrial Services	16,696	17,029	17,371	144,845	147,741	150,696
A	HTIS (Industrial) – I (11 kV)	2,021	2,061	2,103			
B	HTIS (Industrial)– II (33 kV)	4,697	4,791	4,887			
C	HTIS (Industrial) – III (132 kV)	-	-	-			
D	HTIS (Industries)-IV (220 kV)	-	-	-			
	HTIS (Industries)- V (400 kV)						
E	HTIS (Oxygen Manufacturers)- 11 KV	198	202	206	7,003	7,143	7,286
	HTIS (Oxygen Manufacturers)- 33 KV						
	HTSS – (33 kV/11 kV)	9,780	9,975	10,175	137,842	140,598	143,410
10	Railway Traction Services	63,654	65,564	67,531	106,620	109,819	113,114
11	Nepal						
12	DF						
13	HT Electric Vehicle Charging Stations.	-	-	-			
	Total	14619978	15,368799	16,164613	14400328	15308545	16311177

Table 7.8: Category-wise sales approved for NBPDC & SBPDCL for the control period (in MU)

Category of Consumers	NBPDC			SBPDCL		
	FY 25-26	FY 26-27	FY 27-28	FY 25-26	FY 26-27	FY 27-28
Domestic	9468.00	9793.09	10130.14	8,381.56	8680.76	8991.45
Kutir Jyoti	2638.64	2665.03	2691.68	947.55	952.38	957.24
DS I Rural	4850.24	5068.97	5296.17	4080.55	4107.44	4267.30
DS II Demand Based	1,978.71	2,058.65	2,141.82	3,353.18	3621	3767
DS III	0.41	0.44	0.47	0.28	0.30	0.32
Non-Domestic Service	2,130.74	2,302.69	2,489.18	1,95.92	2,135	2,335
NDS I - Metered Now Demand Based	897.16	988.31	1,088.72	495.21	546	601
NDS II - Demand Based	1,233.59	1,314.38	1,400.46	1,456.71	1,589	1,734
Contract Demand <0.5 kW	1.81	1.93	2.06	6.73	7.35	8.01
Contract Demand >0.5 kW	1,231.77	1,312.45	1,398.41	1,449.98	1,582	1,726
Street Light Services	102.41	106.91	111.72	164.47	174.86	186.50
SS Metered	19.91	21.93	24.15	81.72	89.58	98.67
SS Unmetered	82.50	84.98	87.57	82.75	85.29	87.83
Irrigation & Allied Services	2,013.30	2,209.35	2,424.87	5,310.71	6,482	7,925
IAS I	1,859.27	2,047.53	2,254.86	4,923.92	6,076	7,498
Unmetered	19.97	21.35	22.83	1,178.83	1,422	1,715
Metered	1,839.30	2,026.17	2,232.03	3,745.09	4,654	5,783
IAS II	154.03	161.82	170.01	386.79	406	427
Metered (Now Demand Based)	154.03	161.82	170.01	386.79	406	427
Public Service Connections	594.51	641.69	692.63	551.21	590.85	633.45
Public Water Works	41.03	43.27	45.62	160.95	169	177
Har Ghar Nal	553.48	598.42	647.01	390.27	422	456
Low Tension Industrial Services	527.80	581.43	640.50	603.60	664.92	732.48
LTIS I (0-19 kW)	479.34	528.05	581.70	373.50	411	453
LTIS II (>19 kW - 74 kW)	48.46	53.38	58.81	230.10	253	279
LT Electric Vehicle Charging Station	16.09	17.40	18.82	7.05	7.62	8.24
HT-General	1090.63	1162.13	1238.58	2044.03	2175	2314
HTS (General)- I (11 kV)	684.60	733.21	785.27	1,010.06	1,082	1,159
HTS (General)- II (33 kV)	289.47	310.03	332.04	749.05	802	859

Category of Consumers	NBPDC			SBPDCL		
	FY 25-26	FY 26-27	FY 27-28	FY 25-26	FY 26-27	FY 27-28
HTS (General)- III (132 kV)	116.56	118.89	121.27	28.92	291	296
HTS (General)- IV (220 kV)	-	-	-			
HTS (General)- V (400 kV)	-	-	-			
HT-Industrial Services	56.33	57.46	58.6	811.61	827.74	844.88
HTIS (Industrial) – I (11 kV)	6.94	7.08	7.22	-	-	-
HTIS (Industrial)– II (33 kV)	11.85	12.09	12.33	-	-	-
HTIS (Industrial) – III (132 kV)	-	-	-	-	-	-
HTIS (Industries)-IV (220 kV)	-	-	-	-	-	-
HTIS (Industries)-V (400 kV)	-	-	-	-	-	-
HTIS (Oxygen Manufacturers)- 11 KV	0.21	0.21	0.21	6.61	6.74	6.88
HTIS (Oxygen Manufacturers)- 33 KV	-	-	-	-	-	-
HTSS – (33 kV/11 kV)	37.33	38.08	38.84	805.21	821	838
Railway Traction Services	129.58	133.46	137.47	310.19	319.49	329.08
Nepal	160	160	160	0	0	0
Total	16289.40	17165.63	18102.53	20136.55	22056.93	24299.13

7.3. Distribution Loss

Petitioners' submission

The Petitioners have submitted that the Government of India, through Ministry of Power has introduced “Revamped Distribution Sector Scheme – A Reform based, and Results linked scheme” in July 2021. The scheme is applicable for all the State/UTs Utilities or Power Departments to avail such financial assistance under the revamped scheme. The scheme has a total outlay of Rs 3,03,758 Crores with an estimated gross budgetary support of Rs 97,631 Crores (~32% of total outlay) from the Government of India.

The Petitioners submitted that DISCOMs have participated in the said scheme and submitted the action plan, DPR of the total project outlay & roadmap for AT&C Loss to the State Government for its approval in the month of March 2022. The Monitoring Committee for RDSS constituted under Chairmanship of Secretary (Power), Govt of India, in its 9th meeting held on 28.04.2022, has approved the Action Plan and Loss Reduction DPR under Revamped Distribution Sector Scheme. Accordingly, the Monitoring Committee approved the following trajectory for AT&C loss for the Petitioners.

Particulars	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
NBPDCCL	25%	22%	19%	16%
SBPDCL	35%	31%	25%	20%

The DISCOMs mentioned that sunset time for RDSS scheme as specified by Ministry of Power is 31st March 2025; therefore, AT&C loss trajectory for DISCOMs including for the Petitioners for FY 2025-26 and subsequent years is not known. The Petitioners are making the best possible efforts to reduce the losses with the introduction of feeder separation schemes, spot billing etc. and various other IT initiatives. This is reflected in the table below with improving billing and collection efficiency in the subsequent years.

Table 7.9: Distribution and AT&C Losses projected for 2025-26 to FY 2027-28

	NBPDCCL			SBPDCL		
	FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
Billing Efficiency	85.53%	85.61%	85.69%	82.60%	82.68%	82.77%
Collection Efficiency	98.50%	98.70%	98.90%	97.16%	97.36%	97.56%
Distribution Loss	14.47%	14.39%	14.31%	17.40%	17.32%	17.23%

AT&C Loss	15.75%	15.50%	15.25%	19.75%	19.50%	19.25%
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The Petitioners submitted that Regulation 18 of BERC (Multi Year Distribution Tariff) Regulation, 2024 also suggests that the Commission has the authority to revise the Distribution loss baseline in the state based on actual situation in the state.

Accordingly, it has been prayed to the Commission to allow the distribution losses and AT&C loss for the MYT control period from FY 2025-26 to FY 2027-28 as projected above.

Commission's analysis

The Commission has computed actual distribution loss of NBPDCCL for FY 2023-24 as 14.99 % and as per RDSS target, the approved distribution loss for FY 2024-25 is 14.55%. Similarly, the Commission has computed actual distribution loss of SBPDCL for FY 2023-24 as 19.27 % and for FY 2024-25 the same is 17.49%, as per RDSS target approved. The Commission has already decided the loss level in previous chapter (Business Plan), and the same is considered for the control period.

Further, the Commission has considered 100% collection efficiency for FY 2025-26 to 2027-28. Based on the above discussion, the approved Distribution Loss, Collection Efficiency and AT&C Loss for the control period is shown in the table below.

Table 7.10: Distribution Loss, Collection Efficiency and AT&C Loss approved for FY 2025-26 to FY 2027-28

Particulars	NBDCL			SBPDCL		
	FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
Distribution Loss	14.12%	13.71%	13.30%	16.68%	15.91%	15.18%
Collection Efficiency	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
AT&C Loss	14.12%	13.71%	13.30%	16.68%	15.91%	15.18%

The Commission has considered the Distribution loss as shown above for FY 2025-26 to 2027-28 for NBDCL and SBPDCL respectively for computation of Energy Requirement.

7.4. Transmission Loss

Petitioners' submission

The Petitioners have considered intra-state transmission loss at 3.00% for MYT control period from FY 2025-26 to FY 2027-28.

Commission's analysis

The Commission notes the Petitioners' claim of Transmission Loss of 3%. Based on the approval given in previous chapter (Business Plan), the Commission has considered the State Transmission loss at 2.56% for FY 2025-26 to FY 2027-28, subject to True-up based on actuals.

7.5. Central Transmission Loss (CTU)

Petitioners' submission

The Petitioner has submitted CTU loss of 3.55% as per latest 52 weeks moving average and accordingly requests the Commission to consider the same

Commission's analysis

The Commission considers the Central Transmission Loss at 3.55% for FY 2025-26 to 2027-28 at the same level as approved for FY 2024-25 in APR, subject to True-up based on actuals.

However, while truing up for the relevant year, the CTU losses will be considered based on the actual energy billed and scheduled from those sources which have injected power into CTU grid.

7.6. Power Purchase

Petitioners' Submission

The Petitioners have submitted that they rely on allocation from central generating stations and state projects for procuring power for sale in the state. This power has been proposed to be allocated between north and south Bihar in the proportion as determined by the board resolution as detailed below:

“RESOLVED THAT Power Purchase & Transmission charges bills are to be admitted and payment by both DISCOMs i.e., NBPDCCL and SBPDCL in the ratio 46:54 respectively w.e.f.1-4-2017subjected to the final reconciliation of actual consumption”

RESOLVED FURTHER THAT Chairman cum Managing Director, BSHPCCL are here by authorized for deciding the power consumption ratio subsequently as per the actual consumption of both the DISCOMS based on the average consumption of the last 6 months of power drawal of both the DISCOMs i.e., NBPDCCL and SBPDCL”

The Petitioner has considered the projected power purchase computed for 2024-25 and projections for FY 2025-26 to FY 2027-28 is based on the following methodology.

- a. Share allocation has been considered as per Eastern Regional Power Committee.
- b. The Petitioner has implemented the methodology of Merit Order Despatch (MoD) for projecting its power purchase in order to meet its projected demand. While implementing the MoD, the Petitioner has firstly estimated utilization of its allocated capacity of must run plants i.e. the Solar and Non-solar Renewable generating stations and its hydro stations based on the minimum offtakes or their normative PLF, whichever is maximum. For the purpose of projection, the Petitioner has considered the Medium Term PPAs of the petitioner to be must run due to the fact that the Petitioner has a minimum off-take liability in its Medium Term PPAs. Further, the remaining demand of the Petitioner has been tried to be fulfilled through its conventional power purchase tie-ups. The methodology followed by the Petitioner here is that it has firstly allocated the minimum technical limit to all its conventional plants i.e. up till 55% PLF of the plants based on their variable charge per unit (ECR). Further, the remaining demand of the system has then been tried to be

fulfilled through bucket-filling up to a maximum PLF of 85% for the conventional generating stations based on their ECR. If any more demand is remaining unfilled after the process, the same has been tried to be purchased through Open market purchase.

- c. Normative auxiliary consumption provided by Central Electricity Regulatory Commission (CERC) for the thermal and hydro plants and the auxiliary consumptions specified for plants.
- d. Considering the methodology as mentioned above and using the power purchase allocation data mentioned in the above table total number of units purchased were calculated from every source/ plant for every month separately.

Total Power purchase projections data for FY 2025-26 to FY 2027-28(MU) is provided in the below table.

Table 7.11 Power Allocation projection By NBPDC for FY 2025-25 to FY 2027-28

Sr. No	Particulars	FY 2025-26		FY 2026-27		FY 2027-28	
		Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)
I	Stations with injection at CTU	3,314	14,900	3,314	15,300	3,314	17,160
1	NTPC(BARH-I)	530	1,542	530	1,571	530	2,856
2	NTPC(BARH-II)	369	1,070	369	1,073	369	1,309
3	NTPC (DARLIPALLI)	149	958	149	958	149	958
4	NTPC (FARAKKA - I & II)	189	551	189	558	189	561
5	NTPC (FARAKKA - III)	45	131	45	132	45	242
6	NTPC (KAHALGAUN - I)	24	76	24	78	24	141
7	NTPC (KAHALGAUN - II)	29	93	29	160	29	174
8	NTPC (NORTH KARANPURA)	273	1,794	273	1,794	273	1,794
9	NTPC (TALCHAR)	186	1,220	186	1,225	186	1,228
10	NTPC (KBUNL-II)	133	434	133	733	133	761
11	NTPC NORTH KARANPUR UNIT #3	137	898	137	898	137	898
12	NABINAGAR POWER GENERATION COMPANY LIMITED	754	4,718	754	4,706	754	4,704
13	BHARTIYA RAIL BIJLEE COMPANY LIMITED	46	146	46	150	46	273
14	NHPC (RANGIT)	11	54	11	55	11	55
15	NHPC (TEESTA)	49	244	49	239	49	237
16	PTC (TALA)	120	140	120	140	120	140
17	PTC (CHUKHA)	43	148	43	148	43	148
18	PTC (MANGDECHHU)	131	423	131	423	131	423
19	PTC(KURUCHU)	2	1	2	1	2	1
20	PTC(NEPAL)	96	259	96	259	96	259
II	Stations with injection at STU	771	2,094	771	2,965	771	2,965
1	NTPC (BARAUNI-I)	-	-	-	-	-	-
2	NTPC (BARAUNI-II)	230	857	230	1,003	230	1,003
3	BUXAR TPP UNIT #1	258	967	258	967	258	967
4	BUXAR TPP UNIT #2	258	242	258	967	258	967
5	EAST GANDAK H.E.PROJECT, VALMIKINAGAR	7	8	7	8	7	8

Sr. No	Particulars	FY 2025-26		FY 2026-27		FY 2027-28	
		Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)
6	TRIVENI S.H. PROJECT, TRIVENI (VALMIKINAGAR)	1	2	1	2	1	2
7	SONE EASTERN H.E. PROJECT, BARUN	2	2	2	2	2	2
8	SONE WESTERN H.E. PROJECT, DEHRI-ON-SONE	3	3	3	3	3	3
9	SONE WESTERN H.E. PROJECT, KOSI	9	10	9	10	9	10
10	AGNOOR S.H. PROJECT, AGNOOR	0	1	0	1	0	1
11	DHELABAGH S.H.PROJECT, DHELABAGH	0	1	0	1	0	1
12	NASHRIGANJ S H.PROJECT, NASHRIGANJ	0	1	0	1	0	1
13	JAINAGRAH S.H.PROJECT, JAINAGRAH	0	1	0	1	0	1
14	SRIKHINDA S.H. PROJECT, SRIKHINDA	0	0	0	0	0	0
15	SEBARI S.H.PROJECT, SEBARI	0	1	0	1	0	1
16	ARWAL S.H.PROJECT, ARWAL	0	0	0	0	0	0
17	BELSAR S.H.PROJECT, BELSAR	0	1	0	1	0	1
III	IPPs	224	1,475	224	1,475	224	1,475
1	GMR KAMALANGA ENERGY LIMITED	120	786	120	786	120	786
2	JINDAL INDIA THERMAL POWER LIMITED	105	689	105	689	105	689
IV	Renewables	1,661	2,923	1,661	3,274	1,655	3,257
1	TIRUPATI SUGAR LIMITED	3	12	3	12	3	12
2	HARINAGAR SUGAR MILL	-	-	-	-	-	-
3	HASANPUR SUGAR MILL	5	19	5	17	-	-
4	BHARAT SUGAR MILL	-	-	-	-	-	-
5	HPCL BIOFUELS LIMITED, SUGAULI	-	-	-	-	-	-
6	HPCL BIOFUELS LIMITED, LAURIYA	-	-	-	-	-	-
7	NEW SWADESHI SUGAR MILL	-	-	-	-	-	-
8	RIGA SUGAR COMPANY LIMITED	1	-	1	-	1	-
9	BIHAR DISTILLERS AND BOTTLERS PRIVATE LIMITED	4	8	4	8	4	8
10	SIDDHASHRAM RICE MILL CLUSTER PVT. LTD	1	-	1	-	-	-
11	GLATT SOLUTION PRIVATE LIMITED	1	2	1	2	1	2

Sr. No	Particulars	FY 2025-26		FY 2026-27		FY 2027-28	
		Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)
12	SECI (FOCAL)	5	8	5	8	5	8
13	SECI (VIVID SOLAIRE ENERGY PVT. LTD.)	23	62	23	62	23	62
14	SECI (GREEN INFRA WIND ENERGY PVT. LTD.)	46	123	46	123	46	123
15	SECI (Morjar Windfarms Pvt. Ltd.)	23	42	23	42	23	42
16	SECI (GREENKO SIRONJ WIND POWER PVT. LTD.)	46	123	46	123	46	123
17	PTC (OSTRO KUTCH WIND PRIVATE LIMITED)	23	62	23	62	23	62
18	PTC (GREEN INFRA RENEWABLE ENERGY LIMITED)	23	62	23	62	23	62
19	PTC (MYTRAH VAYU SABARMATI PRIVATE LIMITED)	23	62	23	62	23	62
20	SECI (ALFANAR ENERGY PVT. LTD.)	23	62	23	62	23	62
21	SECI (OSTRO KANNADA POWERPRIVATE LIMITED)	138	347	138	347	138	347
22	SB ENERGY SIX PRIVATE LIMITED (NTPC)	138	338	138	338	138	338
23	RESPONCE RENEWABLE ENERGY PRIVATE LIMITED	5	7	5	7	5	7
24	ALFA INFRA PROP PVT. LTD.	5	8	5	8	5	8
25	SECI (RENEW SUNWAVES PRIVATE LIMITED)	138	326	138	326	138	326
26	SECI (GRT Jewellers)	69	110	69	110	69	110
27	AVANTIKA CONTRACTOR (I) PVT. LTD.	2	4	2	4	2	4
28	WELSPUN I	5	8	5	8	5	8
29	WELSPUN II	7	11	7	11	7	11
30	WELSPUN III	7	11	7	11	7	11
31	UDIPTA ENERGY AND EQUIPMENT PRIVATE LIMITED	2	4	2	4	2	4
32	SUNMARK ENERGY PROJECT LIMITED	5	8	5	8	5	8
33	ACME (MAGADH)	5	8	5	8	5	8
34	ACME (NALANDA)	7	11	7	11	7	11
35	AZURE POWER ERIS PVT. LTD.	5	8	5	8	5	8
36	AVADA POWER ERIS PVT LTD	23	38	23	38	23	38
37	ADANI SOLAR	69	127	69	127	69	127
38	AVADA CLEAN	23	38	23	38	23	38
39	ACME DEOGHAR/ACME DHAULPUR	69	127	69	127	69	127
40	SBE RENEWABLES SIXTEEN PVT LTD	83	153	83	153	83	153

Sr. No	Particulars	FY 2025-26		FY 2026-27		FY 2027-28	
		Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)
41	ADANI GREEN ENERGY	276	32	276	385	276	385
42	GREENKO ENERGY HYBRID	97	119	97	119	97	119
43	FLOATING SOLAR	5	8	5	8	5	8
44	CANAL BANK SOLAR	1	2	1	2	1	2
45	ACME SOLAR JAISELMER	230	424	230	424	230	424
V	Total	5,970	21,391	5,970	23,014	5,965	24,858

Table 7.12 Power Allocation projection By SBPDCL for FY 2025-25 to FY 2027-28

Sr. No	Particulars	FY 2025-26		FY 2026-27		FY 2027-28	
		Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)
I	Stations with injection at CTU	3,889.95	17,490.72	3,889.95	17,960.66	3,889.95	20,144.54
1	NTPC (BARH-I)	622.50	1,809.93	622.50	1,844.14	622.50	3,352.98
2	NTPC (BARH-II)	432.83	1,256.38	432.83	1,259.24	432.83	1,536.99
3	NTPC (DARLIPALLI)	174.64	1,124.14	174.64	1,124.14	174.64	1,124.14
4	NTPC (FARAKKA - I & II)	221.46	647.19	221.46	654.52	221.46	658.26
5	NTPC (FARAKKA - III)	52.51	153.44	52.51	155.18	52.51	283.75
6	NTPC (KAHALGAUN - I)	27.82	88.79	27.82	91.27	27.82	165.51
7	NTPC (KAHALGAUN - II)	34.38	109.72	34.38	187.31	34.38	204.54
8	NTPC (NORTH KARANPURA)	320.56	2,106.48	320.56	2,106.48	320.56	2,106.48
9	NTPC (TALCHAR)	218.11	1,432.19	218.11	1,437.65	218.11	1,441.30
10	NTPC (KBUNL-II)	156.10	509.30	156.10	860.57	156.10	893.29
11	NTPC NORTH KARANPUR UNIT #3	160.38	1,053.89	160.38	1,053.89	160.38	1,053.89
12	NABINAGAR POWER GENERATION COMPANY LIMITED	885.37	5,538.20	885.37	5,524.82	885.37	5,521.64
13	BHARTIYA RAIL BIJLEE COMPANY LIMITED	54.00	171.86	54.00	176.42	54.00	320.24
14	NHPC (RANGIT)	12.43	63.71	12.43	64.79	12.43	64.11
15	NHPC (TEESTA)	57.78	286.05	57.78	280.79	57.78	277.96

Sr. No	Particulars	FY 2025-26		FY 2026-27		FY 2027-28	
		Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)
16	PTC (TALA)	140.45	164.08	140.45	164.08	140.45	164.08
17	PTC (CHUKHA)	50.28	173.67	50.28	173.67	50.28	173.67
18	PTC (MANGDECHHU)	153.64	496.99	153.64	496.99	153.64	496.99
19	PTC(KURUCHU)	1.84	0.77	1.84	0.77	1.84	0.77
20	PTC(NEPAL)	112.86	303.95	112.86	303.95	112.86	303.95
II	Stations with injection at STU	905.36	2,457.87	905.36	3,480.85	905.36	3,480.85
1	NTPC (BARAUNI-I)	-	-	-	-	-	-
2	NTPC (BARAUNI-II)	270.00	1,005.49	270.00	1,177.09	270.00	1,177.09
3	BUXAR TPP UNIT #1	302.94	1,135.18	302.94	1,135.18	302.94	1,135.18
4	BUXAR TPP UNIT #2	302.94	283.79	302.94	1,135.18	302.94	1,135.18
5	EAST GANDAK H.E.PROJECT, VALMIKINAGAR	8.10	9.18	8.10	9.18	8.10	9.18
6	TRIVENI S.H. PROJECT, TRIVENI (VALMIKINAGAR)	1.62	1.84	1.62	1.84	1.62	1.84
7	SONE EASTERN H.E. PROJECT, BARUN	1.78	2.02	1.78	2.02	1.78	2.02
8	SONE WESTERN H.E. PROJECT, DEHRI-ON-SONE	3.56	4.04	3.56	4.04	3.56	4.04
9	SONE WESTERN H.E. PROJECT, KOSI	10.53	11.93	10.53	11.93	10.53	11.93
10	AGNOOR S.H. PROJECT, AGNOOR	0.54	0.61	0.54	0.61	0.54	0.61
11	DHELABAGH S.H.PROJECT, DHELABAGH	0.54	0.61	0.54	0.61	0.54	0.61
12	NASHRIGANJ S H.PROJECT, NASHRIGANJ	0.54	0.61	0.54	0.61	0.54	0.61
13	JAINAGRAH S.H.PROJECT, JAINAGRAH	0.54	0.61	0.54	0.61	0.54	0.61
14	SRIKHINDA S.H. PROJECT, SRIKHINDA	0.38	0.43	0.38	0.43	0.38	0.43
15	SEBARI S.H.PROJECT, SEBARI	0.54	0.61	0.54	0.61	0.54	0.61
16	ARWAL S.H.PROJECT, ARWAL	0.27	0.31	0.27	0.31	0.27	0.31
17	BELSAR S.H.PROJECT, BELSAR	0.54	0.61	0.54	0.61	0.54	0.61
III	IPPs	263.51	1,731.58	263.51	1,731.58	263.51	1,731.58
1	GMR KAMALANGA ENERGY LIMITED	140.39	922.53	140.39	922.53	140.39	922.53
2	JINDAL INDIA THARMAL POWER LIMITED	123.12	809.05	123.12	809.05	123.12	809.05
IV	Renewables	1,949.72	3,431.17	1,949.72	3,843.90	1,943.24	3,823.93

Sr. No	Particulars	FY 2025-26		FY 2026-27		FY 2027-28	
		Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)
1	TIRUPATI SUGAR LIMITED	3.24	14.18	3.24	14.18	3.24	14.18
2	HARINAGAR SUGAR MILL	-	-	-	-	-	-
3	HASANPUR SUGAR MILL	5.40	21.78	5.40	19.97	-	-
4	BHARAT SUGAR MILL	-	-	-	-	-	-
5	HPCL BIOFUELS LIMITED, SUGAULI	-	-	-	-	-	-
6	HPCL BIOFUELS LIMITED, LAURIYA	-	-	-	-	-	-
7	NEW SWADESHI SUGAR MILL	-	-	-	-	-	-
8	RIGA SUGAR COMPANY LIMITED	1.62	-	1.62	-	1.62	-
9	BIHAR DISTILLERS AND BOTTLERS PRIVATE LIMITED	5.08	8.90	5.08	8.90	5.08	8.90
10	SIDDHASHRAM RICE MILL CLUSTER PVT. LTD	1.08	-	1.08	-	-	-
11	GLATT SOLUTION PRIVATE LIMITED	1.62	2.68	1.62	2.68	1.62	2.68
12	SECI (FOCAL)	5.40	9.96	5.40	9.96	5.40	9.96
13	SECI (VIVID SOLAIRE ENERGY PVT. LTD.)	27.11	72.74	27.11	72.74	27.11	72.74
14	SECI (GREEN INFRA WIND ENERGY PVT. LTD.)	54.00	144.90	54.00	144.90	54.00	144.90
15	SECI (Morjar Windfarms Pvt. Ltd.)	27.00	49.82	27.00	49.82	27.00	49.82
16	SECI (GREENKO SIRONJ WIND POWER PVT. LTD.)	54.00	144.90	54.00	144.90	54.00	144.90
17	PTC (OSTRO KUTCH WIND PRIVATE LIMITED)	27.00	72.45	27.00	72.45	27.00	72.45
18	PTC (GREEN INFRA RENEWABLE ENERGY LIMITED)	27.00	72.45	27.00	72.45	27.00	72.45
19	PTC (MYTRAH VAYU SABARMATI PRIVATE LIMITED)	27.00	72.45	27.00	72.45	27.00	72.45
20	SECI (ALFANAR ENERGY PVT. LTD.)	27.00	72.45	27.00	72.45	27.00	72.45
21	SECI (OSTRO KANNADA POWERPRIVATE LIMITED)	162.00	407.61	162.00	407.61	162.00	407.61
22	SB ENERGY SIX PRIVATE LIMITED (NTPC)	162.00	396.25	162.00	396.25	162.00	396.25
23	RESPONCE RENEWABLE ENERGY PRIVATE LIMITED	5.40	8.60	5.40	8.60	5.40	8.60
24	ALFA INFRA PROP PVT. LTD.	5.40	8.92	5.40	8.92	5.40	8.92
25	SECI (RENEW SUNWAVES PRIVATE LIMITED)	162.00	382.84	162.00	382.84	162.00	382.84
26	SECI (GRT Jewellers)	81.00	129.07	81.00	129.07	81.00	129.07
27	AVANTIKA CONTRACTOR (I) PVT. LTD.	2.70	4.46	2.70	4.46	2.70	4.46
28	WELSPUN I	5.40	8.92	5.40	8.92	5.40	8.92
29	WELSPUN II	8.10	13.38	8.10	13.38	8.10	13.38
30	WELSPUN III	8.10	13.38	8.10	13.38	8.10	13.38

Sr. No	Particulars	FY 2025-26		FY 2026-27		FY 2027-28	
		Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)	Share Allocation (MW)	Unit Purchased (MU)
31	UDIPTA ENERGY AND EQUIPMENT PRIVATE LIMITED	2.70	4.46	2.70	4.46	2.70	4.46
32	SUNMARK ENERGY PROJECT LIMITED	5.40	8.92	5.40	8.92	5.40	8.92
33	ACME (MAGADH)	5.40	8.92	5.40	8.92	5.40	8.92
34	ACME (NALANDA)	8.10	13.38	8.10	13.38	8.10	13.38
35	AZURE POWER ERIS PVT. LTD.	5.40	8.92	5.40	8.92	5.40	8.92
36	AVADA POWER ERIS PVT LTD	27.00	44.61	27.00	44.61	27.00	44.61
37	ADANI SOLAR	81.00	149.47	81.00	149.47	81.00	149.47
38	AVADA CLEAN	27.00	44.61	27.00	44.61	27.00	44.61
39	ACME DEOGHAR/ACME DHAULPUR	81.00	149.47	81.00	149.47	81.00	149.47
40	SBE RENEWABLES SIXTEEN PVT LTD	97.20	179.36	97.20	179.36	97.20	179.36
41	ADANI GREEN ENERGY	324.00	37.69	324.00	452.23	324.00	452.23
42	GREENKO ENERGY HYBRID	113.40	139.31	113.40	139.31	113.40	139.31
43	FLOATING SOLAR	5.40	8.92	5.40	8.92	5.40	8.92
44	CANAL BANK SOLAR	1.08	1.78	1.08	1.78	1.08	1.78
45	ACME SOLAR JAISELMER	270.00	498.22	270.00	498.22	270.00	498.22
V	Total	7,008.55	25,111.34	7,008.55	27,016.99	7,002.07	29,180.90

Commissions' analysis

The Commission has considered the present allocation from various central sector projects and availability from other projects as per their respective PPAs. The Commission has also noted that Discoms have made arrangement to procure power from the new stations for FY 2025-26 to 2027-28.

The Commission has reviewed the energy availability projected from various sources, and approved the same in previous chapter (Business Plan) for the control period. The Commission has considered the energy availability to Bihar and has considered the allocation between NBPDC & SBPDCL in the 46:54 ratio for FY 2025-26 to 2027-28 as shown in the Table below:

Table 7.13: Power Availability for FY 2025-26 computed by the Commission

Sl. No	Particulars	Bihar share allocation (MW)	Avg PLF %	Energy (MU)	SBPDCL (54%)	NBPDC (46%)
I	Stations with injection at CTU	7,206.00		43,713.34	23,605.20	20,108.13
1	NTPC(Barh-I)	1,153	62.57%	6,318.34	3,411.90	2,906.44
2	NTPC(Barh-II)	802	91.43%	6,420.00	3,466.80	2,953.20
3	NTPC (Darlipalli)	324	80.72%	2,286.96	1,234.96	1,052.00
4	NTPC (Farakka - I & II)	410	62.89%	2,259.29	1,220.02	1,039.28
5	NTPC (Farakka - III)	98	62.89%	535.65	289.25	246.40
6	NTPC (Kahalgaun - I)	52	68.68%	309.95	167.37	142.58
7	NTPC (Kahalgaun - II)	63	76.92%	429.00	231.66	197.34
8	NTPC (North Karanpura)	594	77.78%	4,044.47	2,184.01	1,860.46
9	NTPC (Talchar)	404	80.97%	2,865.00	1,547.10	1,317.90
10	NTPC (Kbunl-II)	289	76.94%	1,948.43	1,052.15	896.28
11	NTPC North Karanpur Unit #3	297	77.77%	2,023.48	1,092.68	930.80
12	Nabinagar Power Generation Company Limited	1,639	76.00%	10,915.00	5,894.10	5,020.90
13	Bhartiya Rail Bijlee Company Limited	100	68.49%	599.95	323.97	275.98
14	NHPC (Rangit)	23	61.90%	117.98	63.71	54.27
15	NHPC (Teesta)	107	59.50%	529.72	286.05	243.67
16	PTC (Tala)	260	13.83%	303.85	164.08	139.77
17	PTC (Chukha)	93	40.88%	321.61	173.67	147.94
18	PTC (Mangdechhu)	285	38.29%	920.35	496.99	423.36
19	PTC (Kuruchu)	4	4.96%	1.43	0.77	0.66
20	PTC(Nepal)	209	85.00%	562.87	303.95	258.92
II	Stations with injection at STU	1,677.00		7,621.90	4,115.83	3,506.07
1	NTPC (Barauni-II)	500.00	63.52%	2,782.35	1,502.47	1,279.88
2	Buxar TPP Unit #1	561.00	77.77%	3,822.14	2,063.96	1,758.18
3	Buxar TPP Unit #2	561.00	78.86%	955.54	515.99	439.55
4	BSHPC		7.11%	61.87	33.41	28.46
III	IPPs	488.00		3,684.03	1,989.38	1,694.65
1	GMR Kamalanga Energy Limited	260.00	87.03%	1,982.03	1,070.30	911.73
2	Jindal India Thermal Power Limited	228.00	85.22%	1,702.00	919.08	782.92
IV	Renewables	3,605.00		6,354.02	3,431.17	2,922.85
1	Tirupati Sugar Limited	6.00	54.59%	26.25	14.18	12.08

Sl. No	Particulars	Bihar share allocation (MW)	Avg PLF %	Energy (MU)	SBPDCL (54%)	NBPDCCL (46%)
2	Hasanpur Sugar Mill	10.00	50.33%	40.34	21.78	18.56
3	Bihar Distillers And Bottlers Private Limited	9.00	21.88%	16.49	8.90	7.58
4	Glatt Solution Private Limited	3.00	18.86%	4.96	2.68	2.28
5	Seci (Focal)	10.00	21.84%	18.45	9.96	8.49
6	SB Energy Six Private Limited (Ntpc)	300.00	28.95%	733.80	396.25	337.55
7	Responce Renewable Energy Private Limited	10.00	18.86%	15.93	8.60	7.33
8	Seci (Renew Sunwaves Private Limited)	300.00	27.97%	708.96	382.84	326.12
9	Seci (GRT Jewellers)	150.00	18.86%	239.02	129.07	109.95
10	Avantika Contractor (I) Pvt. Ltd.	5.00	18.86%	8.26	4.46	3.80
11	Welspun I	10.00	18.86%	16.52	8.92	7.60
12	Welspun II	15.00	18.86%	24.78	13.38	11.40
13	Welspun III	15.00	18.86%	24.78	13.38	11.40
14	Udipta Energy And Equipment Private Limited	5.00	18.86%	8.26	4.46	3.80
15	Sunmark Energy Project Limited	10.00	18.86%	16.52	8.92	7.60
16	Acme (Magadh)	10.00	18.86%	16.52	8.92	7.60
17	Acme (Nalanda)	15.00	18.86%	24.78	13.38	11.40
18	Azure Power Eris Pvt. Ltd.	10.00	18.86%	16.52	8.92	7.60
19	Avada Power Eris Pvt Ltd	50.00	18.86%	82.61	44.61	38.00
20	Alfa Infra Prop Pvt. Ltd.	10.00	18.86%	16.52	8.92	7.60
21	SECI (Vivid Solaire Energy Pvt. Ltd.)	50.00	31.76%	134.71	72.74	61.97
22	SECI (Green Infra Wind Energy Pvt. Ltd.)	100.00	31.76%	268.34	144.90	123.44
23	SECI (Morjar Windfarms Pvt. Ltd.)	50.00	21.84%	92.26	49.82	42.44
24	SECI (Greenko Sironj Wind Power Pvt. Ltd.)	100.00	31.76%	268.34	144.90	123.44
25	PTC (Ostro Kutch Wind Private Limited)	50.00	31.76%	134.17	72.45	61.72
26	PTC (Green Infra Renewable Energy Limited)	50.00	31.76%	134.17	72.45	61.72
27	PTC (Mytrah Vayu Sabarmati Private Limited)	50.00	31.76%	134.17	72.45	61.72
28	SECI (Alfanar Energy Pvt. Ltd.)	50.00	31.76%	134.17	72.45	61.72
29	SECI (Ostro Kannada Powerprivate Limited)	300.00	29.78%	754.84	407.61	347.22
30	Adani Solar	150.00	21.84%	276.79	149.47	127.32
31	Avada Clean	50.00	18.86%	82.61	44.61	38.00
32	Acme Deoghar/Acme Dhaulpur	150.00	21.84%	276.79	149.47	127.32
33	SBE Renewables Sixteen Pvt Ltd	180.00	21.84%	332.15	179.36	152.79
34	Adani Green Energy	600.00	16.52%	69.79	37.69	32.10

Sl. No	Particulars	Bihar share allocation (MW)	Avg PLF %	Energy (MU)	SBPDCL (54%)	NBPDC (46%)
35	Greenko Energy Hybrid	210.00	14.54%	257.98	139.31	118.67
36	Floating Solar	10.00	18.86%	16.52	8.92	7.60
37	Canal Bank Solar	2.00	18.86%	3.30	1.78	1.52
38	Acme Solar Jaiselmer	500.00	21.84%	922.63	498.22	424.41
	Grand Total	12976.00		61,373.28	33,141.58	28,231.71

Table 7.14: Power Availability for FY 2026-27 computed by the Commission

Sl. No	Particulars	Bihar share allocation (MW)	Avg PLF %	Energy (MU)	SBPDCL (54%)	NBPDC (46%)
I	Stations with injection at CTU	7,206.00		43,705.58	23,601.01	20,104.57
1	NTPC(Barh-I)	1,153	62.57%	6,318.34	3,411.90	2,906.44
2	NTPC(Barh-II)	802	91.43%	6,420.00	3,466.80	2,953.20
3	NTPC (Darlipalli)	324	80.72%	2,286.96	1,234.96	1,052.00
4	NTPC (Farakka - I & II)	410	62.89%	2,259.29	1,220.02	1,039.28
5	NTPC (Farakka - III)	98	62.89%	535.65	289.25	246.40
6	NTPC (Kahalgaun - I)	52	68.68%	309.95	167.37	142.58
7	NTPC (Kahalgaun - II)	63	76.92%	429.00	231.66	197.34
8	NTPC (North Karanpura)	594	77.78%	4,044.47	2,184.01	1,860.46
9	NTPC (Talchar)	404	80.97%	2,865.00	1,547.10	1,317.90
10	NTPC (Kbunl-II)	289	76.94%	1,948.43	1,052.15	896.28
11	NTPC North Karanpur Unit #3	297	77.77%	2,023.48	1,092.68	930.80
12	Nabinagar Power Generation Company Limited	1,639	76.00%	10,915.00	5,894.10	5,020.90
13	Bhartiya Rail Bijlee Company Limited	100	68.49%	599.95	323.97	275.98
14	NHPC (Rangit)	23	61.90%	119.98	64.79	55.19
15	NHPC (Teesta)	107	59.50%	519.97	280.79	239.19
16	PTC (Tala)	260	13.83%	303.85	164.08	139.77
17	PTC (Chukha)	93	40.88%	321.61	173.67	147.94
18	PTC (Mangdechhu)	285	38.29%	920.35	496.99	423.36
19	PTC (Kuruchu)	4	4.96%	1.43	0.77	0.66
20	PTC(Nepal)	209	85.00%	562.86	303.95	258.92
II	Stations with injection at STU	1,677.00		7,621.90	4,115.82	3,506.07
1	NTPC (Barauni-II)	500.00	63.52%	2,782.35	1,502.47	1,279.88
2	Buxar TPP Unit #1	561.00	77.77%	3,822.14	2,063.96	1,758.18
3	Buxar TPP Unit #2	561.00	78.86%	955.54	515.99	439.55
4	BSHPC		7.11%	61.87	33.41	28.46
III	IPPs	488.00		3,684.03	1,989.38	1,694.65

Sl. No	Particulars	Bihar share allocation (MW)	Avg PLF %	Energy (MU)	SBPDCL (54%)	NBPDC (46%)
1	GMR Kamalanga Energy Limited	260.00	87.03%	1,982.03	1,070.30	911.73
2	Jindal India Thermal Power Limited	228.00	85.22%	1,702.00	919.08	782.92
IV	Renewables	3,605.00		7,118.34	3,843.90	3,274.43
1	Tirupati Sugar Limited	6.00	54.59%	26.25	14.18	12.08
2	Hasanpur Sugar Mill	10.00	50.33%	36.98	19.97	17.01
3	Bihar Distillers And Bottlers Private Limited	9.00	21.88%	16.49	8.90	7.58
4	Glatt Solution Private Limited	3.00	18.86%	4.96	2.68	2.28
5	SECI (Focal)	10.00	21.84%	18.45	9.96	8.49
6	SB Energy Six Private Limited (Ntpc)	300.00	28.95%	733.80	396.25	337.55
7	Responce Renewable Energy Private Limited	10.00	18.86%	15.93	8.60	7.33
8	SECI (Renew Sunwaves Private Limited)	300.00	27.97%	708.96	382.84	326.12
9	SECI (GRT Jewellers)	150.00	18.86%	239.02	129.07	109.95
10	Avantika Contractor (I) Pvt. Ltd.	5.00	18.86%	8.26	4.46	3.80
11	Welspun I	10.00	18.86%	16.52	8.92	7.60
12	Welspun II	15.00	18.86%	24.78	13.38	11.40
13	Welspun III	15.00	18.86%	24.78	13.38	11.40
14	Udipta Energy And Equipment Private Limited	5.00	18.86%	8.26	4.46	3.80
15	Sunmark Energy Project Limited	10.00	18.86%	16.52	8.92	7.60
16	Acme (Magadh)	10.00	18.86%	16.52	8.92	7.60
17	Acme (Nalanda)	15.00	18.86%	24.78	13.38	11.40
18	Azure Power Eris Pvt. Ltd.	10.00	18.86%	16.52	8.92	7.60
19	Avada Power Eris Pvt Ltd	50.00	18.86%	82.61	44.61	38.00
20	Alfa Infra Prop Pvt. Ltd.	10.00	18.86%	16.52	8.92	7.60
21	SECI (Vivid Solaire Energy Pvt. Ltd.)	50.00	31.76%	134.71	72.74	61.97
22	SECI (Green Infra Wind Energy Pvt. Ltd.)	100.00	31.76%	268.34	144.90	123.44
23	SECI (Morjar Windfarms Pvt. Ltd.)	50.00	21.84%	92.26	49.82	42.44
24	SECI (Greenko Sironj Wind Power Pvt. Ltd.)	100.00	31.76%	268.34	144.90	123.44
25	PTC (Ostro Kutch Wind Private Limited)	50.00	31.76%	134.17	72.45	61.72
26	PTC (Green Infra Renewable Energy Limited)	50.00	31.76%	134.17	72.45	61.72
27	PTC (Mytrah Vayu Sabarmati Private Limited)	50.00	31.76%	134.17	72.45	61.72
28	SECI (Alfanar Energy Pvt. Ltd.)	50.00	31.76%	134.17	72.45	61.72

Sl. No	Particulars	Bihar share allocation (MW)	Avg PLF %	Energy (MU)	SBPDCL (54%)	NBPDCCL (46%)
29	SECI (Ostro Kannada Powerprivate Limited)	300.00	29.78%	754.84	407.61	347.22
30	Adani Solar	150.00	21.84%	276.79	149.47	127.32
31	Avada Clean	50.00	18.86%	82.61	44.61	38.00
32	Acme Deoghar/Acme Dhaulpur	150.00	21.84%	276.79	149.47	127.32
33	SBE Renewables Sixteen Pvt Ltd	180.00	21.84%	332.15	179.36	152.79
34	Adani Green Energy	600.00	16.52%	837.47	452.23	385.23
35	Greenko Energy Hybrid	210.00	14.54%	257.98	139.31	118.67
36	Floating Solar	10.00	18.86%	16.52	8.92	7.60
37	Canal Bank Solar	2.00	18.86%	3.30	1.78	1.52
38	Acme Solar Jaiselmer	500.00	21.84%	922.63	498.22	424.41
	Grand Total	12976.00		62,129.84	33,550.11	28,579.73

Table 7.15: Power Availability for FY 2027-28 computed by the Commission

Sl. No	Particulars	Bihar share allocation (MW)	Avg PLF %	Energy (MU)	SBPDCL (54%)	NBPDCCL (46%)
I	Stations with injection at CTU	7,206.00		43,699.09	23,597.51	20,101.58
1	NTPC(Barh-I)	1,153	62.57%	6,318.34	3,411.90	2,906.44
2	NTPC(Barh-II)	802	91.43%	6,420.00	3,466.80	2,953.20
3	NTPC (Darlipalli)	324	80.72%	2,286.96	1,234.96	1,052.00
4	NTPC (Farakka - I & II)	410	62.89%	2,259.29	1,220.02	1,039.28
5	NTPC (Farakka - III)	98	62.89%	535.65	289.25	246.40
6	NTPC (Kahalgau - I)	52	68.68%	309.95	167.37	142.58
7	NTPC (Kahalgau - II)	63	76.92%	429.00	231.66	197.34
8	NTPC (North Karanpura)	594	77.78%	4,044.47	2,184.01	1,860.46
9	NTPC (Talchar)	404	80.97%	2,865.00	1,547.10	1,317.90
10	NTPC (Kbunl-II)	289	76.94%	1,948.43	1,052.15	896.28
11	NTPC North Karanpur Unit #3	297	77.77%	2,023.48	1,092.68	930.80
12	Nabinagar Power Generation Company Limited	1,639	76.00%	10,915.00	5,894.10	5,020.90

Sl. No	Particulars	Bihar share allocation (MW)	Avg PLF %	Energy (MU)	SBPDCL (54%)	NBPDCCL (46%)
13	Bhartiya Rail Bijlee Company Limited	100	68.49%	599.95	323.97	275.98
14	NHPC (Rangit)	23	61.90%	118.73	64.11	54.62
15	NHPC (Teesta)	107	59.50%	514.73	277.96	236.78
16	PTC (Tala)	260	13.83%	303.85	164.08	139.77
17	PTC (Chukha)	93	40.88%	321.61	173.67	147.94
18	PTC (Mangdechhu)	285	38.29%	920.35	496.99	423.36
19	PTC (Kuruchu)	4	4.96%	1.43	0.77	0.66
20	PTC (Nepal)	209	85.00%	562.86	303.95	258.92
II	Stations with injection at STU	1,677.00		7,620.76	4,115.82	3,506.07
1	NTPC (Barauni-II)	500.00	63.52%	2,782.35	1,502.47	1,279.88
2	Buxar TPP Unit #1	561.00	77.77%	3,822.14	2,063.96	1,758.18
3	Buxar TPP Unit #2	561.00	78.86%	955.54	515.99	439.55
4	BSHPC		7.11%	60.73	33.41	28.46
III	IPPs	488.00		3,684.03	1,989.38	1,694.65
1	GMR Kamalanga Energy Limited	260.00	87.03%	1,982.03	1,070.30	911.73
2	Jindal India Thermal Power Limited	228.00	85.22%	1,702.00	919.08	782.92
IV	Renewables	3595.00		7,081.36	3,823.93	3,257.42
1	Tirupati Sugar Limited	6.00	54.59%	26.25	14.18	12.08
2	Bihar Distillers And Bottlers Private Limited	9.00	21.88%	16.49	8.90	7.58
3	Glatt Solution Private Limited	3.00	18.86%	4.96	2.68	2.28
4	SECI (Focal)	10.00	21.84%	18.45	9.96	8.49
5	SB Energy Six Private Limited (Ntpc)	300.00	28.95%	733.80	396.25	337.55
6	Responce Renewable Energy Private Limited	10.00	18.86%	15.93	8.60	7.33
7	SECI (Renew Sunwaves Private Limited)	300.00	27.97%	708.96	382.84	326.12
8	SECI (GRT Jewellers)	150.00	18.86%	239.02	129.07	109.95
9	Avantika Contractor (I) Pvt. Ltd.	5.00	18.86%	8.26	4.46	3.80
10	Welspun I	10.00	18.86%	16.52	8.92	7.60
11	Welspun II	15.00	18.86%	24.78	13.38	11.40
12	Welspun III	15.00	18.86%	24.78	13.38	11.40

Sl. No	Particulars	Bihar share allocation (MW)	Avg PLF %	Energy (MU)	SBPDCL (54%)	NBPDC (46%)
13	Udipta Energy And Equipment Private Limited	5.00	18.86%	8.26	4.46	3.80
14	Sunmark Energy Project Limited	10.00	18.86%	16.52	8.92	7.60
15	Acme (Magadh)	10.00	18.86%	16.52	8.92	7.60
16	Acme (Nalanda)	15.00	18.86%	24.78	13.38	11.40
17	Azure Power Eris Pvt. Ltd.	10.00	18.86%	16.52	8.92	7.60
18	Avada Power Eris Pvt Ltd	50.00	18.86%	82.61	44.61	38.00
19	Alfa Infra Prop Pvt. Ltd.	10.00	18.86%	16.52	8.92	7.60
20	SECI (Vivid Solaire Energy Pvt. Ltd.)	50.00	31.76%	134.71	72.74	61.97
21	SECI (Green Infra Wind Energy Pvt. Ltd.)	100.00	31.76%	268.34	144.90	123.44
22	SECI (Morjar Windfarms Pvt. Ltd.)	50.00	21.84%	92.26	49.82	42.44
23	SECI (Greenko Sironj Wind Power Pvt. Ltd.)	100.00	31.76%	268.34	144.90	123.44
24	PTC (Ostro Kutch Wind Private Limited)	50.00	31.76%	134.17	72.45	61.72
25	PTC (Green Infra Renewable Energy Limited)	50.00	31.76%	134.17	72.45	61.72
26	PTC (Mytrah Vayu Sabarmati Private Limited)	50.00	31.76%	134.17	72.45	61.72
27	SECI (Alfanar Energy Pvt. Ltd.)	50.00	31.76%	134.17	72.45	61.72
28	SECI (Ostro Kannada Powerprivate Limited)	300.00	29.78%	754.84	407.61	347.22
29	Adani Solar	150.00	21.84%	276.79	149.47	127.32
30	Avada Clean	50.00	18.86%	82.61	44.61	38.00
31	Acme Deoghar/Acme Dhaulpur	150.00	21.84%	276.79	149.47	127.32
32	SBE Renewables Sixteen Pvt Ltd	180.00	21.84%	332.15	179.36	152.79
33	Adani Green Energy	600.00	16.52%	837.47	452.23	385.23
34	Greenko Energy Hybrid	210.00	14.54%	257.98	139.31	118.67
35	Floating Solar	10.00	18.86%	16.52	8.92	7.60
36	Canal Bank Solar	2.00	18.86%	3.30	1.78	1.52
37	Acme Solar Jaiselmer	500.00	21.84%	922.63	498.22	424.41
	Grand Total	12,966.00		62,086.37	33,526.64	28,559.73

7.7. Power Purchase Requirement

The Commission observes that based on power availability from various sources, there will be surplus availability in FY 2025-26 to FY 2027-28. Therefore, the Commission has considered the power purchase in FY 2025-26 to FY 2027-28 duly observing Merit Order Dispatch (MoD) principle.

As per MoD principle, the plants which are not “Must Run” are stacked in ascending order of their variable cost (Rs/kWh). The demand is then met through stations in ascending order of their variable cost subject to “Technical Minimum” procurement.

The following table shows the details of Merit Order Dispatch considered for FY 2023-24 for estimating the power purchase requirement for FY 2025-26 to FY 2027-28.

Table 7.16: Merit Order Dispatch Considered by the Commission

Sl No	Particulars	Source	Mode of operation	Energy cost (Rs. /kWh)		
				FY 2025-26	FY 2026-27	FY 2027-28
A	Hydel					
1	NHPC (TEESTA)	Hydel	Must Run	1.30	1.37	1.44
2	NHPC (RANGIT)	Hydel	Must Run	2.23	2.35	2.49
3	BSHPC	Hydel	Must Run	2.49	2.49	2.49
4	PTC (TALA)	Hydel	Must Run	2.53	2.67	2.82
5	PTC(KURUCHU)	Hydel	Must Run	3.30	3.49	3.68
6	PTC (CHUKHA)	Hydel	Must Run	3.39	3.58	3.78
7	PTC (MANGDECHHU)	Hydel	Must Run	4.67	4.93	5.20
8	PTC(NEPAL)	Hydel	Must Run	5.50	5.50	5.50
B	Renewables					
1	SECI (OSTRO KANNADA POWERPRIVATE LIMITED)	WIND	Must Run	2.18	2.18	2.18
2	SECI (Morjar Windfarms Pvt. Ltd.)	WIND	Must Run	2.19	2.19	2.19
3	ACME DEOGHAR/ACME DHAULPUR	SOLAR	Must Run	2.51	2.51	2.51
4	ACME SOLAR JAISELMER	SOLAR	Must Run	2.51	2.51	2.51
5	SECI (GREEN INFRA WIND ENERGY PVT. LTD.)	WIND	Must Run	2.51	2.51	2.51
6	SECI (VIVID SOLAIRE ENERGY PVT. LTD.)	WIND	Must Run	2.52	2.52	2.52
7	ADANI GREEN ENERGY	SOLAR	Must Run	2.52	2.52	2.52
8	SECI (ALFANAR ENERGY PVT. LTD.)	WIND	Must Run	2.52	2.52	2.52
9	SECI (GRT Jewellers)	SOLAR	Must Run	2.60	2.60	2.60
10	SECI (RENEW SUNWAVES PRIVATE LIMITED)	SOLAR	Must Run	2.62	2.62	2.62

Sl No	Particulars	Source	Mode of operation	Energy cost (Rs. /kWh)		
				FY 2025-26	FY 2026-27	FY 2027-28
11	SB ENERGY SIX PRIVATE LIMITED (NTPC)	SOLAR	Must Run	2.67	2.67	2.67
12	SECI (GREENKO SIRONJ WIND POWER PVT. LTD.)	WIND	Must Run	2.71	2.71	2.71
13	Adani Solar	SOLAR	Must Run	2.72	2.72	2.72
14	SBE RENEWABLES SIXTEEN PVT LTD	SOLAR	Must Run	2.72	2.72	2.72
15	CANAL BANK SOLAR	SOLAR	Must Run	3.10	3.10	3.10
16	Avada Clean	SOLAR	Must Run	3.11	3.11	3.11
17	PTC (GREEN INFRA RENEWABLE ENERGY LIMITED)	WIND	Must Run	3.53	3.53	3.53
18	PTC (OSTRO KUTCH WIND PRIVATE LIMITED)	WIND	Must Run	3.53	3.53	3.53
19	PTC (MYTRAH VAYU SABARMATI PRIVATE LIMITED)	WIND	Must Run	3.53	3.53	3.53
20	FLOATING SOLAR	SOLAR	Must Run	3.87	3.87	3.87
21	Avada power eris pvt ltd	SOLAR	Must Run	4.16	4.16	4.16
22	GREENKO ENERGY HYBRID	SOLAR	Must Run	4.57	4.57	4.57
23	SECI (FOCAL)	SOLAR	Must Run	5.91	5.91	5.91
24	RESPONCE RENEWABLE ENERGY PRIVATE LIMITED	SOLAR	Must Run	7.02	7.02	7.02
25	GLATT SOLUTION PRIVATE LIMITED	SOLAR	Must Run	7.02	7.02	7.02
26	SUNMARK ENERGY PROJECT LIMITED	SOLAR	Must Run	7.02	7.02	7.02
27	TIRUPATI SUGAR LIMITED	SUGAR	Must Run	7.52	7.52	7.52
28	HARINAGAR SUGAR MILL	SUGAR	Must Run	7.52	7.52	7.52
29	HASANPUR SUGAR MILL	SUGAR	Must Run	7.52	7.52	7.52
30	BHARAT SUGAR MILL	SUGAR	Must Run	7.52	7.52	7.52
31	NEW SWADESHI SUGAR MILL	SUGAR	Must Run	7.52	7.52	7.52
32	AVANTIKA CONTRACTOR (I) PVT. LTD.	SOLAR	Must Run	7.69	7.69	7.69
33	ALFA INFRA PROP PVT. LTD.	SOLAR	Must Run	7.96	7.96	7.96
34	UDIPTA ENERGY AND EQUIPMENT PRIVATE LIMITED	SOLAR	Must Run	7.98	7.98	7.98
35	BIHAR DISTILLERS AND BOTTLERS PRIVATE LIMITED	BIO MASS	Must Run	8.21	8.21	8.21
36	SIDDHASHRAM RICE MILL CLUSTER PVT. LTD	BIO MASS	Must Run	8.21	8.21	8.21
37	AZURE POWER ERIS PVT. LTD.	SOLAR	Must Run	8.39	8.39	8.39
38	Welspun III	SOLAR	Must Run	8.56	8.56	8.56
39	Welspun II	SOLAR	Must Run	8.64	8.64	8.64
40	Welspun I	SOLAR	Must Run	8.69	8.69	8.69
41	ACME (MAGADH)	SOLAR	Must Run	8.73	8.73	8.73
42	ACME (NALANDA)	SOLAR	Must Run	8.73	8.73	8.73

SI No	Particulars	Source	Mode of operation	Energy cost (Rs. /kWh)		
				FY 2025-26	FY 2026-27	FY 2027-28
C	Thermal					
1	Jindal India Thermal Power Limited	THERMAL	Merit	1.20	1.24	1.28
2	NTPC (Darlipalli)	THERMAL	Merit	1.27	1.30	1.34
3	GMR Kamalanga Energy Limited	THERMAL	Merit	1.30	1.34	1.38
4	NTPC (North Karanpura)	THERMAL	Merit	1.62	1.67	1.72
5	NTPC North Karanpur Unit #3	THERMAL	Merit	1.62	1.67	1.72
6	NTPC (Talchar)	THERMAL	Merit	1.89	1.94	2.00
7	NTPC (Barauni-II)	THERMAL	Merit	2.52	2.60	2.68
8	NTPC (Kahalgaun - II)	THERMAL	Merit	2.64	2.72	2.80
9	NTPC (Kbunl-II)	THERMAL	Merit	2.70	2.78	2.86
10	NTPC (Kahalgaun - I)	THERMAL	Merit	2.83	2.91	3.00
11	Nabinagar Power Generation Company Limited	THERMAL	Merit	2.95	3.04	3.13
12	NTPC(Barh-II)	THERMAL	Merit	3.10	3.20	3.29
13	Bhartiya Rail Bijlee Company Limited	THERMAL	Merit	3.13	3.22	3.32
14	NTPC(Barh-I)	THERMAL	Merit	3.16	3.26	3.35
15	NTPC (Farakka - III)	THERMAL	Merit	3.39	3.49	3.60
16	NTPC (Farakka - I & II)	THERMAL	Merit	3.44	3.54	3.64
17	Buxar TPP Unit #1	THERMAL	Merit	3.48	3.59	3.69
18	Buxar TPP Unit #2	THERMAL	Merit	3.48	3.59	3.69

Note 1: The above MOD List is based on the average energy cost (Rs/kWh) for first six months of FY 2024-25. However, in case of any variation in energy cost the revised merit list may be prepared and be followed while scheduling power from these sources.

2: While analyzing the power purchase requirement of the petitioner vis-a vis expected availability from different sources, the Commission has taken the estimated availability of power from different sources on the basis of certain assumptions as per available data. In this connection it is clarified that in case the availability of power drops due to any reason at any time, then for matching the requirement of providing 24X7 power to all, the Petitioners' may exercise the possibility of short-term procurement from available options including purchase from exchanges by following the least cost method approach. Here it is also clarified that for any such procurement other than that from power exchange(s) prior approval of the Commission shall be necessary.

The power availability and power purchase quantum from various sources for FY 2025-26 to 2027-28 has been worked out by the Commission, based on the PLF and as estimated by the Petitioner as well as following MoD principle, as shown in the Table below.

Table 7.17: Power Purchase (MU) for NBPDC & SBPDCL FY 2025-26 as computed by Commission considering Merit Order

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	NBPDC share allocation (MW)	Avg PLF %	Power Procured (MU)	SBPDCL (54%)	NBPDC (46%)	Energy cost (Rs./kWh)	SBPDCL		NBPDC	
										Percentage	MU	Percentage	MU
	Hydel	1,036.00	562.00	474.00		2,819.68	1,522.63	1,297.05			1,522.63		1,297.05
1	NHPC (Teesta)	107	58	49	59.50%	529.72	286.05	243.67	1.30	100.00%	286.05	100.00%	243.67
2	NHPC (Rangit)	23	12	11	61.90%	117.98	63.71	54.27	2.23	100.00%	63.71	100.00%	54.27
3	BSHPC	55.00	33	22	7.11%	61.87	33.41	28.46	2.49	100.00%	33.41	100.00%	28.46
4	PTC (Tala)	260	140	120	13.83%	303.85	164.08	139.77	2.53	100.00%	164.08	100.00%	139.77
5	PTC (Kuruchu)	4	2	2	4.96%	1.43	0.77	0.66	3.30	100.00%	0.77	100.00%	0.66
6	PTC (Chukha)	93	50	43	40.88%	321.61	173.67	147.94	3.39	100.00%	173.67	100.00%	147.94
7	PTC (Mangdechhu)	285	154	131	38.29%	920.35	496.99	423.36	4.67	100.00%	496.99	100.00%	423.36
8	PTC (Nepal)	209	113	96	85.00%	562.87	303.95	258.92	5.50	100.00%	303.95	100.00%	258.92
B	Renewables	3,605.00	1,943	1,662		6,354.02	3,431.17	2,922.85			3431.17		2922.85
1	SECI (Ostro Kannada Powerprivate Limited)	300.00	162	138	29.78%	754.84	407.61	347.22	2.18	100.00%	407.61	100.00%	347.22
2	SECI (Morjar Windfarms Pvt. Ltd.)	50.00	27	23	21.84%	92.26	49.82	42.44	2.19	100.00%	49.82	100.00%	42.44
3	Acme Deoghar/Acme Dhaulpur	150.00	81	69	21.84%	276.79	149.47	127.32	2.51	100.00%	149.47	100.00%	127.32
4	Acme Solar Jaiselmer	500.00	270	230	21.84%	922.63	498.22	424.41	2.51	100.00%	498.22	100.00%	424.41
5	SECI (Green Infra Wind Energy Pvt. Ltd.)	100.00	54	46	31.76%	268.34	144.90	123.44	2.51	100.00%	144.90	100.00%	123.44
6	SECI (Vivid Solaire Energy Pvt. Ltd.)	50.00	27	23	31.76%	134.71	72.74	61.97	2.52	100.00%	72.74	100.00%	61.97
7	Adani Green Energy	600.00	324	276	16.52%	69.79	37.69	32.10	2.52	100.00%	37.69	100.00%	32.10
8	SECI (Alfanar Energy Pvt. Ltd.)	50.00	27	23	31.76%	134.17	72.45	61.72	2.52	100.00%	72.45	100.00%	61.72
9	SECI (GRT Jewellers)	150.00	81	69	18.86%	239.02	129.07	109.95	2.60	100.00%	129.07	100.00%	109.95
10	SECI (Renew Sunwaves Private Limited)	300.00	162	138	27.97%	708.96	382.84	326.12	2.62	100.00%	382.84	100.00%	326.12
11	SB Energy Six Private Limited (Ntpc)	300.00	162	138	28.95%	733.80	396.25	337.55	2.67	100.00%	396.25	100.00%	337.55
12	SECI (Greenko Sironj Wind Power Pvt. Ltd.)	100.00	54	46	31.76%	268.34	144.90	123.44	2.71	100.00%	144.90	100.00%	123.44
13	Adani Solar	150.00	81	69	21.84%	276.79	149.47	127.32	2.72	100.00%	149.47	100.00%	127.32
14	Sbe Renewables Sixteen Pvt Ltd	180.00	97	83	21.84%	332.15	179.36	152.79	2.72	100.00%	179.36	100.00%	152.79
15	Canal Bank Solar	2.00	1	1	18.86%	3.30	1.78	1.52	3.10	100.00%	1.78	100.00%	1.52
16	Avada Clean	50.00	27	23	18.86%	82.61	44.61	38.00	3.11	100.00%	44.61	100.00%	38.00
17	PTC (Green Infra Renewable Energy Limited)	50.00	27	23	31.76%	134.17	72.45	61.72	3.53	100.00%	72.45	100.00%	61.72

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	NBPDCCL share allocation (MW)	Avg PLF %	Power Procured (MU)	SBPDCL (54%)	NBPDCCL (46%)	Energy cost (Rs./kWh)	SBPDCL		NBPDCCL	
										Percentage	MU	Percentage	MU
18	PTC (Ostro Kutch Wind Private Limited)	50.00	27	23	31.76%	134.17	72.45	61.72	3.53	100.00%	72.45	100.00%	61.72
19	PTC (Mytrah Vayu Sabarmati Private Limited)	50.00	27	23	31.76%	134.17	72.45	61.72	3.53	100.00%	72.45	100.00%	61.72
20	Floating Solar	10.00	5	5	18.86%	16.52	8.92	7.60	3.87	100.00%	8.92	100.00%	7.60
21	Avada Power Eris Pvt Ltd	50.00	27	23	18.86%	82.61	44.61	38.00	4.16	100.00%	44.61	100.00%	38.00
22	Greenko Energy Hybrid	210.00	113	97	14.54%	257.98	139.31	118.67	4.57	100.00%	139.31	100.00%	118.67
23	SECI (Focal)	10.00	5	5	21.84%	18.45	9.96	8.49	5.91	100.00%	9.96	100.00%	8.49
24	Responce Renewable Energy Private Limited	10.00	5	5	18.86%	15.93	8.60	7.33	7.02	100.00%	8.60	100.00%	7.33
25	Glatt Solution Private Limited	3.00	2	1	18.86%	4.96	2.68	2.28	7.02	100.00%	2.68	100.00%	2.28
26	Sunmark Energy Project Limited	10.00	5	5	18.86%	16.52	8.92	7.60	7.02	100.00%	8.92	100.00%	7.60
27	Tirupati Sugar Limited	6.00	3	3	54.59%	26.25	14.18	12.08	7.52	100.00%	14.18	100.00%	12.08
28	Hasanpur Sugar Mill	10.00	5	5	50.33%	40.34	21.78	18.56	7.52	100.00%	21.78	100.00%	18.56
29	Avantika Contractor (I) Pvt. Ltd.	5.00	3	2	18.86%	8.26	4.46	3.80	7.69	100.00%	4.46	100.00%	3.80
30	Alfa Infra Prop Pvt. Ltd.	10.00	5	5	18.86%	16.52	8.92	7.60	7.96	100.00%	8.92	100.00%	7.60
31	Udipta Energy And Equipment Private Limited	5.00	3	2	18.86%	8.26	4.46	3.80	7.98	100.00%	4.46	100.00%	3.80
32	Bihar Distillers And Bottlers Private Limited	9.00	5	4	21.88%	16.49	8.90	7.58	8.21	100.00%	8.90	100.00%	7.58
33	Azure Power Eris Pvt. Ltd.	10.00	5	5	18.86%	16.52	8.92	7.60	8.39	100.00%	8.92	100.00%	7.60
34	Welspun III	15.00	8	7	18.86%	24.78	13.38	11.40	8.56	100.00%	13.38	100.00%	11.40
35	Welspun II	15.00	8	7	18.86%	24.78	13.38	11.40	8.64	100.00%	13.38	100.00%	11.40
36	Welspun I	10.00	5	5	18.86%	16.52	8.92	7.60	8.69	100.00%	8.92	100.00%	7.60
37	Acme (Magadh)	10.00	5	5	18.86%	16.52	8.92	7.60	8.73	100.00%	8.92	100.00%	7.60
38	Acme (Nalanda)	15.00	8	7	18.86%	24.78	13.38	11.40	8.73	100.00%	13.38	100.00%	11.40
C	Thermal	8,335.00	4,500.00	3,835.00		52,199.59	28,187.78	24,011.81			19,588.71		16,686.68
1	Jindal India Thermal Power Limited	228.00	123	105	85.22%	1,702.00	919.08	782.92	1.20	100.00%	919.08	100.00%	782.92
2	NTPC (Darlipalli)	324	175	149	80.72%	2,286.96	1,234.96	1,052.00	1.27	100.00%	1234.96	100.00%	1052.00
3	GMR Kamalanga Energy Limited	260.00	140	120	87.03%	1,982.03	1,070.30	911.73	1.30	100.00%	1070.30	100.00%	911.73
4	NTPC (North Karanpura)	594	321	273	77.78%	4,044.47	2,184.01	1,860.46	1.62	100.00%	2184.01	100.00%	1860.46
5	NTPC North Karanpur Unit #3	297	160	137	77.77%	2,023.48	1,092.68	930.80	1.62	100.00%	1092.68	100.00%	930.80
6	NTPC (Talchar)	404	218	186	80.97%	2,865.00	1,547.10	1,317.90	1.89	100.00%	1547.10	100.00%	1317.90
7	NTPC (Barauni-II)	500.00	270	230	63.52%	2,782.35	1,502.47	1,279.88	2.52	85.91%	1290.13	85.91%	1099.00
8	NTPC (Kahalgaun - II)	63	34	29	76.92%	429.00	231.66	197.34	2.64	55.00%	127.41	55.00%	108.54

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	NBDCL share allocation (MW)	Avg PLF %	Power Procured (MU)	SBPDCL (54%)	NBDCL (46%)	Energy cost (Rs./kWh)	SBPDCL		NBDCL	
										Percentage	MU	Percentage	MU
9	NTPC (Kbunl-II)	289	156	133	76.94%	1,948.43	1,052.15	896.28	2.70	55.00%	578.68	55.00%	492.95
10	NTPC (Kahalgaun - I)	52	28	24	68.68%	309.95	167.37	142.58	2.83	55.00%	92.06	55.00%	78.42
11	Nabinagar Power Generation Company Limited	1,639	885	754	76.00%	10,915.00	5,894.10	5,020.90	2.95	55.00%	3241.76	55.00%	2761.50
12	NTPC(Barh-II)	802	433	369	91.43%	6,420.00	3,466.80	2,953.20	3.10	55.00%	1906.74	55.00%	1624.26
13	Bhartiya Rail Bijlee Company Limited	100	54	46	68.49%	599.95	323.97	275.98	3.13	55.00%	178.18	55.00%	151.79
14	NTPC(Barh-I)	1,153	623	530	62.57%	6,318.34	3,411.90	2,906.44	3.16	55.00%	1876.55	55.00%	1598.54
15	NTPC (Farakka - III)	98	53	45	62.89%	535.65	289.25	246.40	3.39	55.00%	159.09	55.00%	135.52
16	NTPC (Farakka - I & II)	410	221	189	62.89%	2,259.29	1,220.02	1,039.28	3.44	55.00%	671.01	55.00%	571.60
17	Buxar TPP Unit #1	561.00	303	258	77.77%	3,822.14	2,063.96	1,758.18	3.48	55.00%	1135.18	55.00%	967.00
18	Buxar TPP Unit #2	561.00	303	258	78.86%	955.54	515.99	439.55	3.48	55.00%	283.80	55.00%	241.75
	Total	12,976.00	7,005.00	5,971.00		61,373.28	33,141.58	28,231.71			24,542.51		20,906.57

Table 7.18: Power Purchase (MU) for NBDCL & SBPDCL FY 2026-27 as computed by Commission considering Merit Order

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	NBDCL share allocation (MW)	Avg PLF %	Power Procured (MU)	SBPDCL (54%)	NBDCL (46%)	ECR (Rs./kWh)	SBPDCL		NBDCL	
										Percentage	MU	Percentage	MU
	Hydel	1,036.00	562.00	474.00		2,811.92	1,518.44	1,293.48			1,518.44		1,293.48
1	NHPC (Teesta)	107	58	49	59.50%	519.97	280.79	239.19	1.37	100.00%	280.79	100.00%	239.19
2	NHPC (Rangit)	23	12	11	61.90%	119.98	64.79	55.19	2.35	100.00%	64.79	100.00%	55.19
3	BSHPC	55.00	33	22	7.11%	61.87	33.41	28.46	2.49	100.00%	33.41	100.00%	28.46
4	PTC (Tala)	260	140	120	13.83%	303.85	164.08	139.77	2.67	100.00%	164.08	100.00%	139.77
5	PTC (Kuruchu)	4	2	2	4.96%	1.43	0.77	0.66	3.49	100.00%	0.77	100.00%	0.66
6	PTC (Chukha)	93	50	43	40.88%	321.61	173.67	147.94	3.58	100.00%	173.67	100.00%	147.94
7	PTC (Mangdechhu)	285	154	131	38.29%	920.35	496.99	423.36	4.93	100.00%	496.99	100.00%	423.36
8	PTC(Nepal)	209	113	96	85.00%	562.86	303.95	258.92	5.50	100.00%	303.95	100.00%	258.92
B	Renewables	3,605.00	1,943	1,662		7,118.34	3,843.90	3,274.43			3843.90		3274.43

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	NBPDCCL share allocation (MW)	Avg PLF %	Power Procured (MU)	SBPDCL (54%)	NBPDCCL (46%)	ECR (Rs./kWh)	SBPDCL		NBPDCCL	
										Percentage	MU	Percentage	MU
1	SECI (Ostro Kannada Powerprivate Limited)	300.00	162	138	29.78%	754.84	407.61	347.22	2.18	100.00%	407.61	100.00%	347.22
2	SECI (Morjar Windfarms Pvt. Ltd.)	50.00	27	23	21.84%	92.26	49.82	42.44	2.19	100.00%	49.82	100.00%	42.44
3	Acme Deoghar/Acme Dhaulpur	150.00	81	69	21.84%	276.79	149.47	127.32	2.51	100.00%	149.47	100.00%	127.32
4	Acme Solar Jaiselmer	500.00	270	230	21.84%	922.63	498.22	424.41	2.51	100.00%	498.22	100.00%	424.41
5	SECI (Green Infra Wind Energy Pvt. Ltd.)	100.00	54	46	31.76%	268.34	144.90	123.44	2.51	100.00%	144.90	100.00%	123.44
6	SECI (Vivid Solaire Energy Pvt. Ltd.)	50.00	27	23	31.76%	134.71	72.74	61.97	2.52	100.00%	72.74	100.00%	61.97
7	Adani Green Energy	600.00	324	276	16.52%	837.47	452.23	385.23	2.52	100.00%	452.23	100.00%	385.23
8	SECI (Alfanar Energy Pvt. Ltd.)	50.00	27	23	31.76%	134.17	72.45	61.72	2.52	100.00%	72.45	100.00%	61.72
9	SECI (GRT Jewellers)	150.00	81	69	18.86%	239.02	129.07	109.95	2.60	100.00%	129.07	100.00%	109.95
10	SECI (Renew Sunwaves Private Limited)	300.00	162	138	27.97%	708.96	382.84	326.12	2.62	100.00%	382.84	100.00%	326.12
11	SB Energy Six Private Limited (Ntpc)	300.00	162	138	28.95%	733.80	396.25	337.55	2.67	100.00%	396.25	100.00%	337.55
12	SECI (Greenko Sironj Wind Power Pvt. Ltd.)	100.00	54	46	31.76%	268.34	144.90	123.44	2.71	100.00%	144.90	100.00%	123.44
13	Adani Solar	150.00	81	69	21.84%	276.79	149.47	127.32	2.72	100.00%	149.47	100.00%	127.32
14	Sbe Renewables Sixteen Pvt Ltd	180.00	97	83	21.84%	332.15	179.36	152.79	2.72	100.00%	179.36	100.00%	152.79
15	Canal Bank Solar	2.00	1	1	18.86%	3.30	1.78	1.52	3.10	100.00%	1.78	100.00%	1.52
16	Avada Clean	50.00	27	23	18.86%	82.61	44.61	38.00	3.11	100.00%	44.61	100.00%	38.00
17	PTC (Green Infra Renewable Energy Limited)	50.00	27	23	31.76%	134.17	72.45	61.72	3.53	100.00%	72.45	100.00%	61.72
18	PTC (Ostro Kutch Wind Private Limited)	50.00	27	23	31.76%	134.17	72.45	61.72	3.53	100.00%	72.45	100.00%	61.72
19	PTC (Mytrah Vayu Sabarmati Private Limited)	50.00	27	23	31.76%	134.17	72.45	61.72	3.53	100.00%	72.45	100.00%	61.72
20	Floating Solar	10.00	5	5	18.86%	16.52	8.92	7.60	3.87	100.00%	8.92	100.00%	7.60
21	Avada Power Eris Pvt Ltd	50.00	27	23	18.86%	82.61	44.61	38.00	4.16	100.00%	44.61	100.00%	38.00
22	Greenko Energy Hybrid	210.00	113	97	14.54%	257.98	139.31	118.67	4.57	100.00%	139.31	100.00%	118.67
23	SECI (Focal)	10.00	5	5	21.84%	18.45	9.96	8.49	5.91	100.00%	9.96	100.00%	8.49
24	Responce Renewable Energy Private Limited	10.00	5	5	18.86%	15.93	8.60	7.33	7.02	100.00%	8.60	100.00%	7.33
25	Glatt Solution Private Limited	3.00	2	1	18.86%	4.96	2.68	2.28	7.02	100.00%	2.68	100.00%	2.28
26	Sunmark Energy Project Limited	10.00	5	5	18.86%	16.52	8.92	7.60	7.02	100.00%	8.92	100.00%	7.60
27	Tirupati Sugar Limited	6.00	3	3	54.59%	26.25	14.18	12.08	7.52	100.00%	14.18	100.00%	12.08
28	Hasanpur Sugar Mill	10.00	5	5	50.33%	36.98	19.97	17.01	7.52	100.00%	19.97	100.00%	17.01
29	Avantika Contractor (I) Pvt. Ltd.	5.00	3	2	18.86%	8.26	4.46	3.80	7.69	100.00%	4.46	100.00%	3.80
30	Alfa Infra Prop Pvt. Ltd.	10.00	5	5	18.86%	16.52	8.92	7.60	7.96	100.00%	8.92	100.00%	7.60

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	NBPDCCL share allocation (MW)	Avg PLF %	Power Procured (MU)	SBPDCL (54%)	NBPDCCL (46%)	ECR (Rs./kWh)	SBPDCL		NBPDCCL	
										Percentage	MU	Percentage	MU
31	Udipta Energy And Equipment Private Limited	5.00	3	2	18.86%	8.26	4.46	3.80	7.98	100.00%	4.46	100.00%	3.80
32	Bihar Distillers And Bottlers Private Limited	9.00	5	4	21.88%	16.49	8.90	7.58	8.21	100.00%	8.90	100.00%	7.58
33	Azure Power Eris Pvt. Ltd.	10.00	5	5	18.86%	16.52	8.92	7.60	8.39	100.00%	8.92	100.00%	7.60
34	Welspun III	15.00	8	7	18.86%	24.78	13.38	11.40	8.56	100.00%	13.38	100.00%	11.40
35	Welspun II	15.00	8	7	18.86%	24.78	13.38	11.40	8.64	100.00%	13.38	100.00%	11.40
36	Welspun I	10.00	5	5	18.86%	16.52	8.92	7.60	8.69	100.00%	8.92	100.00%	7.60
37	Acme (Magadh)	10.00	5	5	18.86%	16.52	8.92	7.60	8.73	100.00%	8.92	100.00%	7.60
38	Acme (Nalanda)	15.00	8	7	18.86%	24.78	13.38	11.40	8.73	100.00%	13.38	100.00%	11.40
C	Thermal	8,335.00	4,500.00	3,835.00		52,199.59	28,187.78	24,011.81	47.08		20873.57		17781.19
1	Jindal India Thermal Power Limited	228.00	123	105	85.22%	1,702.00	919.08	782.92	1.24	100.00%	919.08	100.00%	782.92
2	NTPC (Darlipalli)	324	175	149	80.72%	2,286.96	1,234.96	1,052.00	1.30	100.00%	1234.96	100.00%	1052.00
3	GMR Kamalanga Energy Limited	260.00	140	120	87.03%	1,982.03	1,070.30	911.73	1.34	100.00%	1070.30	100.00%	911.73
4	NTPC (North Karanpura)	594	321	273	77.78%	4,044.47	2,184.01	1,860.46	1.67	100.00%	2184.01	100.00%	1860.46
5	NTPC North Karanpur Unit #3	297	160	137	77.77%	2,023.48	1,092.68	930.80	1.67	100.00%	1092.68	100.00%	930.80
6	NTPC (Talchar)	404	218	186	80.97%	2,865.00	1,547.10	1,317.90	1.94	100.00%	1547.10	100.00%	1317.90
7	NTPC (Barauni-II)	500.00	270	230	63.52%	2,782.35	1,502.47	1,279.88	2.60	100.00%	1502.47	100.00%	1279.88
8	NTPC (Kahalgaun - II)	63	34	29	76.92%	429.00	231.66	197.34	2.72	100.00%	231.66	100.00%	197.34
9	NTPC (Kbunl-II)	289	156	133	76.94%	1,948.43	1,052.15	896.28	2.78	100.00%	1052.15	100.00%	896.28
10	NTPC (Kahalgaun - I)	52	28	24	68.68%	309.95	167.37	142.58	2.91	100.00%	167.37	100.00%	142.58
11	Nabinagar Power Generation Company Limited	1,639	885	754	76.00%	10,915.00	5,894.10	5,020.90	3.04	62.13%	3661.24	62.13%	3118.84
12	NTPC(Barh-II)	802	433	369	91.43%	6,420.00	3,466.80	2,953.20	3.20	55.00%	1906.74	55.00%	1624.26
13	Bhartiya Rail Bijlee Company Limited	100	54	46	68.49%	599.95	323.97	275.98	3.22	55.00%	178.18	55.00%	151.79
14	NTPC(Barh-I)	1,153	623	530	62.57%	6,318.34	3,411.90	2,906.44	3.26	55.00%	1876.55	55.00%	1598.54
15	NTPC (Farakka - III)	98	53	45	62.89%	535.65	289.25	246.40	3.49	55.00%	159.09	55.00%	135.52
16	NTPC (Farakka - I & II)	410	221	189	62.89%	2,259.29	1,220.02	1,039.28	3.54	55.00%	671.01	55.00%	571.60
17	Buxar TPP Unit #1	561.00	303	258	77.77%	3,822.14	2,063.96	1,758.18	3.59	55.00%	1135.18	55.00%	967.00
18	Buxar TPP Unit #2	561.00	303	258	78.86%	955.54	515.99	439.55	3.59	55.00%	283.80	55.00%	241.75
	Total	12,976.00	7,005.00	5,971.00		62,129.84	33,550.11	28,579.73	73.46		26235.91		22,349.10

Table 7.19: Power Purchase (MU) for NBPDC & SBPDCL FY 2027-28 as computed by Commission considering Merit Order

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	NBPDC share allocation (MW)	Avg PLF %	Power Procured (MU)	SBPDCL (54%)	NBPDC (46%)	ECR (Rs./kWh)	SBPDCL		NBPDC	
										Percentage	MU	Percentage	MU
	Hydel	1,036.00	562.00	474.00		2,804.30	1,514.93	1,290.50	27.40		1,514.93		1,290.50
1	NHPC (Teesta)	107	58	49	59.50%	514.73	277.96	236.78	1.44	100.00%	277.96	100.00%	236.78
2	NHPC (Rangit)	23	12	11	61.90%	118.73	64.11	54.62	2.49	100.00%	64.11	100.00%	54.62
3	BSHPC	55.00	33	22	7.11%	60.73	33.41	28.46	2.49	100.00%	33.41	100.00%	28.46
4	PTC (Tala)	260	140	120	13.83%	303.85	164.08	139.77	2.82	100.00%	164.08	100.00%	139.77
5	PTC (Kuruchu)	4	2	2	4.96%	1.43	0.77	0.66	3.68	100.00%	0.77	100.00%	0.66
6	PTC (Chukha)	93	50	43	40.88%	321.61	173.67	147.94	3.78	100.00%	173.67	100.00%	147.94
7	PTC (Mangdechhu)	285	154	131	38.29%	920.35	496.99	423.36	5.20	100.00%	496.99	100.00%	423.36
8	PTC(Nepal)	209	113	96	85.00%	562.86	303.95	258.92	5.50	100.00%	303.95	100.00%	258.92
B	Renewables	3,595.00	1,937	1,658		7,081.36	3,823.93	3,257.42			3823.93		3257.42
1	SECI (Ostro Kannada Powerprivate Limited)	300.00	162	138	29.78%	754.84	407.61	347.22	2.18	100.00%	407.61	100.00%	347.22
2	SECI (Morjar Windfarms Pvt. Ltd.)	50.00	27	23	21.84%	92.26	49.82	42.44	2.19	100.00%	49.82	100.00%	42.44
3	Acme Deoghar/Acme Dhaulpur	150.00	81	69	21.84%	276.79	149.47	127.32	2.51	100.00%	149.47	100.00%	127.32
4	Acme Solar Jaiselmer	500.00	270	230	21.84%	922.63	498.22	424.41	2.51	100.00%	498.22	100.00%	424.41
5	SECI (Green Infra Wind Energy Pvt. Ltd.)	100.00	54	46	31.76%	268.34	144.90	123.44	2.51	100.00%	144.90	100.00%	123.44
6	SECI (Vivid Solaire Energy Pvt. Ltd.)	50.00	27	23	31.76%	134.71	72.74	61.97	2.52	100.00%	72.74	100.00%	61.97
7	Adani Green Energy	600.00	324	276	16.52%	837.47	452.23	385.23	2.52	100.00%	452.23	100.00%	385.23
8	SECI (Alfanar Energy Pvt. Ltd.)	50.00	27	23	31.76%	134.17	72.45	61.72	2.52	100.00%	72.45	100.00%	61.72
9	SECI (GRT Jewellers)	150.00	81	69	18.86%	239.02	129.07	109.95	2.60	100.00%	129.07	100.00%	109.95
10	SECI (Renew Sunwaves Private Limited)	300.00	162	138	27.97%	708.96	382.84	326.12	2.62	100.00%	382.84	100.00%	326.12
11	SB Energy Six Private Limited (Ntpc)	300.00	162	138	28.95%	733.80	396.25	337.55	2.67	100.00%	396.25	100.00%	337.55
12	SECI (Greenko Sironj Wind Power Pvt. Ltd.)	100.00	54	46	31.76%	268.34	144.90	123.44	2.71	100.00%	144.90	100.00%	123.44
13	Adani Solar	150.00	81	69	21.84%	276.79	149.47	127.32	2.72	100.00%	149.47	100.00%	127.32
14	Sbe Renewables Sixteen Pvt Ltd	180.00	97	83	21.84%	332.15	179.36	152.79	2.72	100.00%	179.36	100.00%	152.79
15	Canal Bank Solar	2.00	1	1	18.86%	3.30	1.78	1.52	3.10	100.00%	1.78	100.00%	1.52
16	Avada Clean	50.00	27	23	18.86%	82.61	44.61	38.00	3.11	100.00%	44.61	100.00%	38.00
17	PTC (Green Infra Renewable Energy Limited)	50.00	27	23	31.76%	134.17	72.45	61.72	3.53	100.00%	72.45	100.00%	61.72

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	NBDCL share allocation (MW)	Avg PLF %	Power Procured (MU)	SBPDCL (54%)	NBDCL (46%)	ECR (Rs./kWh)	SBPDCL		NBDCL	
										Percentage	MU	Percentage	MU
18	PTC (Ostro Kutch Wind Private Limited)	50.00	27	23	31.76%	134.17	72.45	61.72	3.53	100.00%	72.45	100.00%	61.72
19	PTC (Mytrah Vayu Sabarmati Private Limited)	50.00	27	23	31.76%	134.17	72.45	61.72	3.53	100.00%	72.45	100.00%	61.72
20	Floating Solar	10.00	5	5	18.86%	16.52	8.92	7.60	3.87	100.00%	8.92	100.00%	7.60
21	Avada Power Eris Pvt Ltd	50.00	27	23	18.86%	82.61	44.61	38.00	4.16	100.00%	44.61	100.00%	38.00
22	Greenko Energy Hybrid	210.00	113	97	14.54%	257.98	139.31	118.67	4.57	100.00%	139.31	100.00%	118.67
23	SECI (Focal)	10.00	5	5	21.84%	18.45	9.96	8.49	5.91	100.00%	9.96	100.00%	8.49
24	Responce Renewable Energy Private Limited	10.00	5	5	18.86%	15.93	8.60	7.33	7.02	100.00%	8.60	100.00%	7.33
25	Glatt Solution Private Limited	3.00	2	1	18.86%	4.96	2.68	2.28	7.02	100.00%	2.68	100.00%	2.28
26	Sunmark Energy Project Limited	10.00	5	5	18.86%	16.52	8.92	7.60	7.02	100.00%	8.92	100.00%	7.60
27	Tirupati Sugar Limited	6.00	3	3	54.59%	26.25	14.18	12.08	7.52	100.00%	14.18	100.00%	12.08
29	Avantika Contractor (I) Pvt. Ltd.	5.00	3	2	18.86%	8.26	4.46	3.80	7.69	100.00%	4.46	100.00%	3.80
30	Alfa Infra Prop Pvt. Ltd.	10.00	5	5	18.86%	16.52	8.92	7.60	7.96	100.00%	8.92	100.00%	7.60
31	Udipta Energy And Equipment Private Limited	5.00	3	2	18.86%	8.26	4.46	3.80	7.98	100.00%	4.46	100.00%	3.80
32	Bihar Distillers And Bottlers Private Limited	9.00	5	4	21.88%	16.49	8.90	7.58	8.21	100.00%	8.90	100.00%	7.58
33	Azure Power Eris Pvt. Ltd.	10.00	5	5	18.86%	16.52	8.92	7.60	8.39	100.00%	8.92	100.00%	7.60
34	Welspun III	15.00	8	7	18.86%	24.78	13.38	11.40	8.56	100.00%	13.38	100.00%	11.40
35	Welspun II	15.00	8	7	18.86%	24.78	13.38	11.40	8.64	100.00%	13.38	100.00%	11.40
36	Welspun I	10.00	5	5	18.86%	16.52	8.92	7.60	8.69	100.00%	8.92	100.00%	7.60
37	Acme (Magadh)	10.00	5	5	18.86%	16.52	8.92	7.60	8.73	100.00%	8.92	100.00%	7.60
38	Acme (Nalanda)	15.00	8	7	18.86%	24.78	13.38	11.40	8.73	100.00%	13.38	100.00%	11.40
C	Thermal	8,335.00	4,500.00	3,835.00		52,199.59	28,187.78	24,011.81			22854.23		19468.42
1	Jindal India Thermal Power Limited	228.00	123	105	85.22%	1,702.00	919.08	782.92	1.28	100.00%	919.08	100.00%	782.92
2	NTPC (Darlipalli)	324	175	149	80.72%	2,286.96	1,234.96	1,052.00	1.34	100.00%	1234.96	100.00%	1052.00
3	GMR Kamalanga Energy Limited	260.00	140	120	87.03%	1,982.03	1,070.30	911.73	1.38	100.00%	1070.30	100.00%	911.73
4	NTPC (North Karanpura)	594	321	273	77.78%	4,044.47	2,184.01	1,860.46	1.72	100.00%	2184.01	100.00%	1860.46
5	NTPC North Karanpur Unit #3	297	160	137	77.77%	2,023.48	1,092.68	930.80	1.72	100.00%	1092.68	100.00%	930.80
6	NTPC (Talchar)	404	218	186	80.97%	2,865.00	1,547.10	1,317.90	2.00	100.00%	1547.10	100.00%	1317.90
7	NTPC (Barauni-II)	500.00	270	230	63.52%	2,782.35	1,502.47	1,279.88	2.68	100.00%	1502.47	100.00%	1279.88

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	NBDCL share allocation (MW)	Avg PLF %	Power Procured (MU)	SBPDCL (54%)	NBDCL (46%)	ECR (Rs./kWh)	SBPDCL		NBDCL	
										Percentage	MU	Percentage	MU
8	NTPC (Kahalgaun - II)	63	34	29	76.92%	429.00	231.66	197.34	2.80	100.00%	231.66	100.00%	197.34
9	NTPC (Kbunl-II)	289	156	133	76.94%	1,948.43	1,052.15	896.28	2.86	100.00%	1052.15	100.00%	896.28
10	NTPC (Kahalgaun - I)	52	28	24	68.68%	309.95	167.37	142.58	3.00	100.00%	167.37	100.00%	142.58
11	Nabinagar Power Generation Company Limited	1,639	885	754	76.00%	10,915.00	5,894.10	5,020.90	3.13	95.73%	5641.91	5.73	4806.07
12	NTPC(Barh-II)	802	433	369	91.43%	6,420.00	3,466.80	2,953.20	3.29	55.00%	1906.74	55.00%	1624.26
13	Bhartiya Rail Bijlee Company Limited	100	54	46	68.49%	599.95	323.97	275.98	3.32	55.00%	178.18	55.00%	151.79
14	NTPC(Barh-I)	1,153	623	530	62.57%	6,318.34	3,411.90	2,906.44	3.35	55.00%	1876.55	55.00%	1598.54
15	NTPC (Farakka - III)	98	53	45	62.89%	535.65	289.25	246.40	3.60	55.00%	159.09	55.00%	135.52
16	NTPC (Farakka - I & II)	410	221	189	62.89%	2,259.29	1,220.02	1,039.28	3.64	55.00%	671.01	55.00%	571.60
17	Buxar TPP Unit #1	561.00	303	258	77.77%	3,822.14	2,063.96	1,758.18	3.69	55.00%	1135.18	55.00%	967.00
18	Buxar TPP Unit #2	561.00	303	258	78.86%	955.54	515.99	439.55	3.69	55.00%	283.80	55.00%	241.75
	Total	12,966.00	6,999.00	5,967.00		62,086.37	33,526.64	28,559.73			28193.10		24016.34

7.8 Energy Balance

Petitioners' submission

Based on above discussed elements such as sales, losses & power availability, the projected energy balance for FY 2025-26 to FY 2027-28 is as under

Table 7.20: Energy Balance Projected by NBPDC for FY 2025-26 to FY 2027-28

S. No.	Particulars	FY 2025-26	FY 2026-27	FY 2027-28
	Energy Requirement			
1	Energy Sales (MU)	16,240.19	17,114.37	18,049.18
2	Less: Sale	-	-	-
4	Energy sales (excl. SLDC deviation and interstate Sales) (MU)	16,240.19	17,114.37	18,049.18
5	Distribution Loss	14.47%	14.39%	14.31%
6	Add: Distribution Loss(MU)	2,747.52	2,876.72	3,014.17
7	Energy required at Distribution periphery (MU)	18,987.71	19,991.09	21,063.35
8	Add: Interstate sales	-	-	-
10	Energy required at Transmission Periphery	18,987.71	19,991.09	21,063.35
11	State Transmission Loss	3.00%	3.00%	3.00%
12	Add State Transmission Loss	587.25	618.28	651.44
13	Total Energy required at state Periphery	19,574.96	20,609.37	21,714.79
14	Losses in Regional Transmission System	3.55%	3.55%	3.55%
15	Add: Losses in Regional Transmission System	719.73	757.77	798.41
16	Total Energy requirement at Ex-Bus	20,294.70	21,367.14	22,513.20
17	Total Energy Purchased	21,391.14	23,014.47	24,857.80
18	Energy Surplus/(Deficit) of NBPDC	1,096.44	1,647.33	2,344.60
19	Energy Surplus/(Deficit) of SBPDCL	(1,096.44)	(1,647.33)	(2,344.60)
	Net Energy Surplus/(Deficit) at Bihar Level	0	0	0

Table 7.21: Energy Balance Projected by SBPDCL for FY 2025-26 to FY 2027-28

Sr No	Particulars	Unit	Projection		
			FY 2025-26	FY 2026-27	FY 2027-28
A	Energy Requirement				
1	Energy sales (retail sales only)	MU	20,254	22,173	24,413
2	Less: Inter-state sales	MU	-	-	-
3	Energy sales excluding Inter-state sales	MU	20,254	22,173	24,413
4	Distribution Loss	%	17.40%	17.32%	17.23%
5	Add: Distribution Loss	MU	4,266	4,645	5,082
6	Total energy required at Distribution periphery	MU	24,520	26,818	29,495
7	Add: Inter-state sales	MU	-	-	-
8	Total energy required at Distribution periphery	MU	24,520	26,818	29,495
9	State Transmission Loss	%	3.00%	3.00%	3.00%
10	Add: State Transmission Loss	MU	758	829	912
11	Total energy required at State Transmission Periphery	MU	25,278	27,648	30,407

Sr No	Particulars	Unit	Projection		
			FY 2025-26	FY 2026-27	FY 2027-28
12	Losses in Regional Transmission system	%	3.55%	3.55%	3.55%
13	Losses in Regional Transmission system	MU	929	1,017	1,118
14	Total Energy Requirement at ex-bus	MU	26,208	28,664	31,525
15	Total energy Purchased (inc surplus power)	MU	25,111	27,017	29,181
C	Energy Surplus/(Deficit) of SBPDCL	MU	(1,096)	(1,647)	(2,345)
	Energy Surplus/(Deficit) of NBPDCCL	MU	1,096	1,647	2,345
	Net Energy Surplus/(Deficit) at Bihar Level	MU	0	0	0

It has been submitted that NBPDCCL has Calculated surplus energy available at ex-bus of 1096.44 MU, 1647.33 MU and 2344.60 MU for FY 2025-26, FY 2026-27 and FY 2027-28 respectively. Since the power is allocated between NBPDCCL and SBPDCL, energy surplus in NBPDCCL is Energy deficit of SBPDCL. As the power will be allocated between the DISCOM hence the Energy surplus will be compensated with the energy deficit of SBPDCL. The Petitioners requested the Commission to approve the energy balance based on above calculations for FY 2025-26 to FY 2027-28.

Commission's analysis

The Energy Balance for FY 2025-26 to 2027-28 has been computed based on the approved energy sales for FY 2025-26 to 2027-28 and power availability. The power requirement is finalized following the MoD principle, as finalized in previous chapter (Business Plan).

Distribution loss has been considered as per approved value (given in Para 6.3) for NBPDCCL and SBPDCL for FY 2025-26 to 2027-28. Further, Energy required at State transmission periphery is computed based on the intra-State Transmission loss of 2.56% as approved in Para 6.4 The Central Transmission loss on projects injected at CTU level has been considered based on the CTU losses approved at 3.55 % in para 6.5. The energy balance is given below.

Table 7.22: Energy Balance Computed with approved sales and losses for NBPDCCL for FY 2025-26 to 2027-28 considering power availability

Sl. No	Particulars	Unit	FY 2025-26	FY 2026-27	FY 2027-28
A	Energy Requirement				
1	Energy sales including Nepal	MU	16,289.40	17,165.63	18,102.53
2	Less: Inter-state sales (Nepal)	MU	160.00	160.00	160.00
3	Energy sales excluding Inter-state sales	MU	16,129.40	17,005.63	17,942.53
4	Distribution Loss	%	14.12%	13.71%	13.30%
5	Add: Distribution Loss	MU	2,652.41	2,701.23	2,753.40

Sl. No	Particulars	Unit	FY 2025-26	FY 2026-27	FY 2027-28
6	Total energy required at Distribution periphery	MU	18,781.81	19,706.86	20,695.93
7	Add: Inter-state sales	MU	160.00	160.00	160.00
8	Total energy required at Distribution periphery	MU	18,941.81	19,866.86	20,855.93
9	State Transmission Loss	%	2.56%	2.56%	2.56%
10	Add: State Transmission Loss	MU	497.65	521.95	547.94
11	Total energy required at State Transmission Periphery	MU	19,439.46	20,388.81	21,403.87
B	Energy Available				
1	From Central Sector Stations injecting at CTU	MU	12,684.27	13,597.90	15,285.13
2	From IPP	MU	1,694.65	1,694.65	1,694.65
3	From Stations injecting at STU (Except RE)	MU	2,307.75	2,488.63	2,488.63
4	From Renewable Sources	MU	2,951.31	3,302.89	3,285.88
5	NHPC+PTC Hydro	MU	1,268.59	1,265.02	1,262.04
6	Total	MU	20,906.57	22,349.10	24,016.34
7	CTU losses applicable on item 1,2 & 5	MU	15,647.51	16,557.58	18,241.82
8	CTU losses	%	3.55%	3.55%	3.55%
9	CTU losses	MU	554.93	587.20	646.93
10	Net Power available at State periphery	MU	20,351.65	21,761.90	23,369.41
C (A11-B10)	Energy Surplus/(Deficit) at State Periphery	MU	912.19	1,373.09	1,965.55

Table 7.23: Energy Balance Computed with approved sales and losses for SBPDCL for FY 2025-26 to 2027-28 considering power availability

Sl. No	Particulars	Unit	FY 2025-26	FY 2026-27	FY 2027-28
A	Energy Requirement				
1	Energy sales	MU	20,136.55	22,056.93	24,299.13
2	Less: Inter-state sales (including banking)	MU			
3	Energy sales excluding Inter-state sales	MU	20,136.55	22,056.93	24,299.13
4	Distribution Loss	%	16.68%	15.91%	15.18%
5	Add: Distribution Loss	MU	4,031.75	4,173.61	4,347.45
6	Total energy required at Distribution periphery	MU	24,168.30	26,230.54	28,646.58
7	Add: Inter-state sales	MU			
8	Total energy required at Distribution periphery	MU	24,168.30	26,230.54	28,646.58
9	State Transmission Loss	%	2.56%	2.56%	2.56%
10	Add: State Transmission Loss	MU	634.96	689.14	752.62
11	Total energy required at State Transmission Periphery	MU	24,803.26	26,919.68	29,399.20
B	Energy Available				

Sl. No	Particulars	Unit	FY 2025-26	FY 2026-27	FY 2027-28
1	From Central Sector Stations injecting at CTU	MU	14,890.23	15,962.75	17,943.42
2	From IPP	MU	1,989.38	1,989.38	1,989.38
3	From Stations injecting at STU (Except RE)	MU	2,709.10	2,921.44	2,921.44
4	From Renewable Sources	MU	3,464.58	3,877.31	3,857.34
5	NHPC+PTC Hydro	MU	1,489.22	1,485.03	1,481.52
6	Total	MU	24,542.51	26,235.91	28,193.10
7	CTU losses applicable on item 1,2 & 5	MU	18,368.83	19,437.16	21,414.32
8	CTU losses	%	3.55%	3.55%	3.55%
9	CTU losses	MU	651.43	689.32	759.44
10	Net Power available at State periphery	MU	23,891.07	25,546.58	27,433.66
C (A11-B10)	Energy Surplus/(Deficit) at State Periphery	MU	(912.19)	(1,373.10)	(1,965.54)

Summary of the energy requirement, energy available from various sources, surplus or deficit as arrived for each year of the control period FY 2025-26 to FY 2027-28 are as given in the Table below:

Table 7.24: Energy Requirement Vs. Energy Availability for FY 2025-26 to FY 2027-28 (Mus)

Sl. No	Particulars	FY 2025-26	FY 2026-27	FY 2027-28
	NBPDC			
1	Energy Requirement for sales at State Transmission Periphery	19,439.46	20,388.81	21,403.87
2	Energy availability from various sources at State Transmission Periphery	20,351.65	21,761.90	23,369.41
3	Surplus / (Deficit)	912.19	1,373.09	1,965.55
	SBPDCL			
4	Energy Requirement for sales at State Transmission Periphery	24,803.26	26,919.68	29,399.20
5	Energy availability from various sources at State Transmission Periphery	23,891.07	25,546.58	27,433.66
6	Surplus / (Deficit)	(912.19)	(1,373.10)	(1,965.54)
	Total Surplus / Deficit (3+6)	0.00	0.00	0.00

The Commission has approved that no power will be surplus or deficit at State level, as per energy balance given above.

7.9 Power Purchase Cost for FY 2025-26 to 2027-28

Petitioners' submission

The Petitioners have submitted that the power purchase cost mainly comprises of

fixed charges and energy charges for two-part tariff stations i.e. NTPC, NHPC & PTC in case of Petitioner. The Petitioner has considered the actual energy charges and fixed cost for existing power stations based on previous 12 months data and assumptions explained in previous chapter. The Petitioner has considered the upcoming conventional power purchase cost as per MYT Order approved for the FY 2024-25. For Non-Conventional, it has considered as per tariff discovered.

Power Purchase Cost projected by the Petitioners for FY 2025-26 to FY 2027-28 are as given in the Table below:

Table 7.25 Detailed projected power purchase costs for FY 2025-26 (in INR Crore)(NBPDCL)

Sr. No	Particulars	FY 2025-26					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
I	Stations with injection at CTU	3,313.66	14,899.50	3,316.89	4,224.67	7,541.56	5.06
1	NTPC(BARH-I)	530.28	1,541.79	496.29	549.94	1,046.22	6.79
2	NTPC(BARH-II)	368.71	1,070.25	277.69	402.47	680.16	6.36
3	NTPC (DARLIPALLI)	148.77	957.60	178.67	124.75	303.42	3.17
4	NTPC (FARAKKA - I & II)	188.65	551.31	68.48	208.66	277.13	5.03
5	NTPC (FARAKKA - III)	44.73	130.71	28.39	46.52	74.91	5.73
6	NTPC (KAHALGAUN - I)	23.70	75.63	10.18	26.42	36.60	4.84
7	NTPC (KAHALGAUN - II)	29.29	93.47	9.12	30.41	39.53	4.23
8	NTPC (NORTH KARANPURA)	273.07	1,794.41	459.37	297.25	756.62	4.22
9	NTPC (TALCHAR)	185.79	1,220.01	129.72	245.11	374.83	3.07
10	NTPC (KBUNL-II)	132.97	433.85	125.48	138.50	263.98	6.08
11	NTPC NORTH KARANPUR UNIT #3	136.62	897.76	229.83	148.72	378.54	4.22
12	NABINAGAR POWER GENERATION COMPANY LIMITED	754.20	4,717.72	1,223.16	1,487.90	2,711.06	5.75
13	BHARTIYA RAIL BIJLEE COMPANY LIMITED	46.00	146.40	40.32	48.57	88.89	6.07
14	NHPC (RANGIT)	10.59	54.27	13.27	12.10	25.38	4.68
15	NHPC (TEESTA)	49.22	243.67	26.93	31.56	58.49	2.40
16	PTC (TALA)	119.65	139.77	-	35.36	35.36	2.53
17	PTC (CHUKHA)	42.83	147.94	-	50.12	50.12	3.39
18	PTC (MANGDECHHU)	130.88	423.36	-	197.70	197.70	4.67
19	PTC(KURUCHU)	1.57	0.66	-	0.22	0.22	3.30
20	PTC(NEPAL)	96.14	258.92	-	142.40	142.40	5.50

Sr. No	Particulars	FY 2025-26					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
II	Stations with injection at STU	771.24	2,093.74	599.56	702.95	1,302.50	6.22
1	NTPC (BARAUNI-I)	-	-	-	-	-	-
2	NTPC (BARAUNI-II)	230.00	856.53	210.47	264.71	475.19	5.55
3	BUXAR TPP UNIT #1	258.06	967.00	311.27	344.92	656.19	6.79
4	BUXAR TPP UNIT #2	258.06	241.75	77.82	86.23	164.05	6.79
5	EAST GANDAK H.E.PROJECT, VALMIKINAGAR	6.90	7.82	-	1.95	1.95	2.49
6	TRIVENI S.H. PROJECT, TRIVENI (VALMIKINAGAR)	1.38	1.56	-	0.39	0.39	2.49
7	SONE EASTERN H.E. PROJECT, BARUN	1.52	1.72	-	0.43	0.43	2.49
8	SONE WESTERN H.E. PROJECT, DEHRI-ON-SONE	3.04	3.44	-	0.86	0.86	2.49
9	SONE WESTERN H.E. PROJECT, KOSI	8.97	10.16	-	2.53	2.53	2.49
10	AGNOOR S.H. PROJECT, AGNOOR	0.46	0.52	-	0.13	0.13	2.49
11	DHELABAGH S.H.PROJECT, DHELABAGH	0.46	0.52	-	0.13	0.13	2.49
12	NASHRIGANJ S H.PROJECT, NASHRIGANJ	0.46	0.52	-	0.13	0.13	2.49
13	JAINAGRAH S.H.PROJECT, JAINAGRAH	0.46	0.52	-	0.13	0.13	2.49
14	SRIKHINDA S.H. PROJECT, SRIKHINDA	0.32	0.36	-	0.09	0.09	2.49
15	SEBARI S.H.PROJECT, SEBARI	0.46	0.52	-	0.13	0.13	2.49
16	ARWAL S.H.PROJECT, ARWAL	0.23	0.26	-	0.06	0.06	2.49
17	BELSAR S.H.PROJECT, BELSAR	0.46	0.52	-	0.13	0.13	2.49
III	IPPs	224.47	1,475.05	388.27	191.02	579.29	3.93
1	GMR KAMALANGA ENERGY LIMITED	119.59	785.86	155.31	104.86	260.17	3.31
2	JINDAL INDIA THARMAL POWER LIMITED	104.88	689.19	232.96	86.16	319.12	4.63
IV	Renewables	1,660.88	2,922.85	-	865.85	865.85	2.96
1	TIRUPATI SUGAR LIMITED	2.76	12.08	-	9.08	9.08	7.52

Sr. No	Particulars	FY 2025-26					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
2	HARINAGAR SUGAR MILL	-	-	-	-	-	-
3	HASANPUR SUGAR MILL	4.60	18.56	-	13.95	13.95	7.52
4	BHARAT SUGAR MILL	-	-	-	-	-	-
5	HPCL BIOFUELS LIMITED, SUGAULI	-	-	-	-	-	-
6	HPCL BIOFUELS LIMITED, LAURIYA	-	-	-	-	-	-
7	NEW SWADESHI SUGAR MILL	-	-	-	-	-	-
8	RIGA SUGAR COMPANY LIMITED	1.38	-	-	-	-	-
9	BIHAR DISTILLERS AND BOTTLERS PRIVATE LIMITED	4.32	7.58	-	6.23	6.23	8.21
10	SIDHASHRAM RICE MILL CLUSTER PVT. LTD	0.92	-	-	-	-	-
11	GLATT SOLUTION PRIVATE LIMITED	1.38	2.28	-	1.60	1.60	7.02
12	SECI (FOCAL)	4.60	8.49	-	5.02	5.02	5.91
13	SECI (VIVID SOLAIRE ENERGY PVT. LTD.)	23.09	61.97	-	15.61	15.61	2.52
14	SECI (GREEN INFRA WIND ENERGY PVT. LTD.)	46.00	123.44	-	30.98	30.98	2.51
15	SECI (Morjar Windfarms Pvt. Ltd.)	23.00	42.44	-	9.27	9.27	2.19
16	SECI (GREENKO SIRONJ WIND POWER PVT. LTD.)	46.00	123.44	-	33.45	33.45	2.71
17	PTC (OSTRO KUTCH WIND PRIVATE LIMITED)	23.00	61.72	-	21.79	21.79	3.53
18	PTC (GREEN INFRA RENEWABLE ENERGY LIMITED)	23.00	61.72	-	21.79	21.79	3.53
19	PTC (MYTRAH VAYU SABARMATI PRIVATE LIMITED)	23.00	61.72	-	21.79	21.79	3.53
20	SECI (ALFANAR ENERGY PVT. LTD.)	23.00	61.72	-	15.55	15.55	2.52
21	SECI (OSTRO KANNADA POWERPRIVATE LIMITED)	138.00	347.22	-	75.87	75.87	2.18
22	SB ENERGY SIX PRIVATE LIMITED (NTPC)	138.00	337.55	-	90.12	90.12	2.67
23	RESPONCE RENEWABLE ENERGY PRIVATE LIMITED	4.60	7.33	-	5.15	5.15	7.02
24	ALFA INFRA PROP PVT. LTD.	4.60	7.60	-	6.05	6.05	7.96
25	SECI (RENEW SUNWAVES PRIVATE LIMITED)	138.00	326.12	-	85.44	85.44	2.62

Sr. No	Particulars	FY 2025-26					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
26	SECI (GRT Jewellers)	69.00	109.95	-	28.59	28.59	2.60
27	AVANTIKA CONTRACTOR (I) PVT. LTD.	2.30	3.80	-	2.92	2.92	7.69
28	WELSPUN I	4.60	7.60	-	6.61	6.61	8.69
29	WELSPUN II	6.90	11.40	-	9.85	9.85	8.64
30	WELSPUN III	6.90	11.40	-	9.76	9.76	8.56
31	UDIPTA ENERGY AND EQUIPMENT PRIVATE LIMITED	2.30	3.80	-	3.03	3.03	7.98
32	SUNMARK ENERGY PROJECT LIMITED	4.60	7.60	-	5.34	5.34	7.02
33	ACME (MAGADH)	4.60	7.60	-	6.63	6.63	8.73
34	ACME (NALANDA)	6.90	11.40	-	9.95	9.95	8.73
35	AZURE POWER ERIS PVT. LTD.	4.60	7.60	-	6.38	6.38	8.39
36	AVADA POWER ERIS PVT LTD	23.00	38.00	-	15.81	15.81	4.16
37	ADANI SOLAR	69.00	127.32	-	34.63	34.63	2.72
38	AVADA CLEAN	23.00	38.00	-	11.82	11.82	3.11
39	ACME DEOGHAR/ACME DHAULPUR	69.00	127.32	-	31.96	31.96	2.51
40	SBE RENEWABLES SIXTEEN PVT LTD	82.80	152.79	-	41.56	41.56	2.72
41	ADANI GREEN ENERGY	276.00	32.10	-	8.09	8.09	2.52
42	GREENKO ENERGY HYBRID	96.60	118.67	-	54.23	54.23	4.57
43	FLOATING SOLAR	4.60	7.60	-	2.94	2.94	3.87
44	CANAL BANK SOLAR	0.92	1.52	-	0.47	0.47	3.10
45	ACME SOLAR JAISELMER	230.00	424.41	-	106.53	106.53	2.51
V	Transmission Charges			1,915.02		1,915.02	
1	PGCIL			1,140.13		1,140.13	
2	BSPTCL (including SLDC)			651.06		651.06	

Sr. No	Particulars	FY 2025-26					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
3	BGCL			118.02		118.02	
4	ERLDC (POSOCO)			5.80		5.80	
VI	Total	5,970.24	21,391.14	6,219.74	5,984.49	12,204.23	5.71

Table 7.26 Detailed projected power purchase costs for FY 2025-26 (in INR Crore)(SBPDCL)

Sr. No	Particulars	FY 2025-26					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
I	Stations with injection at CTU	3,889.95	17,490.72	3,893.74	4,959.40	8,853.14	5.06
1	NTPC(BARH-I)	622.50	1,809.93	582.60	645.58	1,228.18	6.79
2	NTPC(BARH-II)	432.83	1,256.38	325.98	472.47	798.45	6.36
3	NTPC (DARLIPALLI)	174.64	1,124.14	209.74	146.45	356.19	3.17
4	NTPC (FARAKKA - I & II)	221.46	647.19	80.39	244.94	325.33	5.03
5	NTPC (FARAKKA - III)	52.51	153.44	33.32	54.61	87.94	5.73
6	NTPC (KAHALGAUN - I)	27.82	88.79	11.95	31.01	42.96	4.84
7	NTPC (KAHALGAUN - II)	34.38	109.72	10.71	35.70	46.41	4.23
8	NTPC (NORTH KARANPURA)	320.56	2,106.48	539.26	348.94	888.20	4.22
9	NTPC (TALCHAR)	218.11	1,432.19	152.28	287.74	440.01	3.07
10	NTPC (KBUNL-II)	156.10	509.30	147.30	162.58	309.89	6.08
11	NTPC NORTH KARANPUR UNIT #3	160.38	1,053.89	269.80	174.58	444.38	4.22
16	NABINAGAR POWER GENERATION COMPANY LIMITED	885.37	5,538.20	1,435.89	1,746.66	3,182.55	5.75

Sr. No	Particulars	FY 2025-26					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
17	BHARTIYA RAIL BIJLEE COMPANY LIMITED	54.00	171.86	47.33	57.02	104.35	6.07
18	NHPC (RANGIT)	12.43	63.71	15.58	14.21	29.79	4.68
19	NHPC (TEESTA)	57.78	286.05	31.61	37.05	68.66	2.40
20	PTC (TALA)	140.45	164.08	-	41.51	41.51	2.53
21	PTC (CHUKHA)	50.28	173.67	-	58.84	58.84	3.39
22	PTC (MANGDECHHU)	153.64	496.99	-	232.08	232.08	4.67
23	PTC(KURUCHU)	1.84	0.77	-	0.25	0.25	3.30
23	PTC(NEPAL)	112.86	303.95	-	167.17	167.17	5.50
II	Stations with injection at STU	905.36	2,457.87	703.83	825.20	1,529.03	6.22
1	NTPC (BARAUNI-I)	-	-	-	-	-	-
2	NTPC (BARAUNI-II)	270.00	1,005.49	247.08	310.75	557.83	5.55
3	BUXAR TPP UNIT #1	302.94	1,135.18	365.40	404.90	770.30	6.79
4	BUXAR TPP UNIT #2	302.94	283.79	91.35	101.23	192.58	6.79
5	EAST GANDAK H.E.PROJECT, VALMIKINAGAR	8.10	9.18	-	2.29	2.29	2.49
6	TRIVENI S.H. PROJECT, TRIVENI (VALMIKINAGAR)	1.62	1.84	-	0.46	0.46	2.49
7	SONE EASTERN H.E. PROJECT, BARUN	1.78	2.02	-	0.50	0.50	2.49
8	SONE WESTERN H.E. PROJECT, DEHRI-ON-SONE	3.56	4.04	-	1.01	1.01	2.49
9	SONE WESTERN H.E. PROJECT, KOSI	10.53	11.93	-	2.97	2.97	2.49
10	AGNOOR S.H. PROJECT, AGNOOR	0.54	0.61	-	0.15	0.15	2.49
11	DHELABAGH S.H.PROJECT, DHELABAGH	0.54	0.61	-	0.15	0.15	2.49
12	NASHRIGANJ S H.PROJECT, NASHRIGANJ	0.54	0.61	-	0.15	0.15	2.49
13	JAINAGRAH S.H.PROJECT, JAINAGRAH	0.54	0.61	-	0.15	0.15	2.49
14	SRIKHINDA S.H. PROJECT, SRIKHINDA	0.38	0.43	-	0.11	0.11	2.49

Sr. No	Particulars	FY 2025-26					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
15	SEBARI S.H.PROJECT, SEBARI	0.54	0.61	-	0.15	0.15	2.49
16	ARWAL S.H.PROJECT, ARWAL	0.27	0.31	-	0.08	0.08	2.49
17	BELSAR S.H.PROJECT, BELSAR	0.54	0.61	-	0.15	0.15	2.49
III	IPPs	263.51	1,731.58	455.79	224.25	680.04	3.93
1	GMR KAMALANGA ENERGY LIMITED	140.39	922.53	182.32	123.10	305.42	3.31
2	JINDAL INDIA THARMAL POWER LIMITED	123.12	809.05	273.48	101.14	374.62	4.63
IV	Renewables	1,949.72	3,431.17	-	1,016.43	1,016.43	2.96
1	TIRUPATI SUGAR LIMITED	3.24	14.18	-	10.66	10.66	7.52
2	HARINAGAR SUGAR MILL	-	-	-	-	-	-
3	HASANPUR SUGAR MILL	5.40	21.78	-	16.38	16.38	7.52
4	BHARAT SUGAR MILL	-	-	-	-	-	-
5	HPCL BIOFUELS LIMITED, SUGAULI	-	-	-	-	-	-
6	HPCL BIOFUELS LIMITED, LAURIYA	-	-	-	-	-	-
7	NEW SWADESHI SUGAR MILL	-	-	-	-	-	-
8	RIGA SUGAR COMPANY LIMITED	1.62	-	-	-	-	-
9	BIHAR DISTILLERS AND BOTTLERS PRIVATE LIMITED	5.08	8.90	-	7.31	7.31	8.21
10	SIDHASHRAM RICE MILL CLUSTER PVT. LTD	1.08	-	-	-	-	-
11	GLATT SOLUTION PRIVATE LIMITED	1.62	2.68	-	1.88	1.88	7.02
12	SECI (FOCAL)	5.40	9.96	-	5.89	5.89	5.91
13	SECI (VIVID SOLAIRE ENERGY PVT. LTD.)	27.11	72.74	-	18.33	18.33	2.52
14	SECI (GREEN INFRA WIND ENERGY PVT. LTD.)	54.00	144.90	-	36.37	36.37	2.51
15	SECI (Morjar Windfarms Pvt. Ltd.)	27.00	49.82	-	10.89	10.89	2.19

Sr. No	Particulars	FY 2025-26					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
16	SECI (GREENKO SIRONJ WIND POWER PVT. LTD.)	54.00	144.90	-	39.27	39.27	2.71
17	PTC (OSTRO KUTCH WIND PRIVATE LIMITED)	27.00	72.45	-	25.58	25.58	3.53
18	PTC (GREEN INFRA RENEWABLE ENERGY LIMITED)	27.00	72.45	-	25.58	25.58	3.53
19	PTC (MYTRAH VAYU SABARMATI PRIVATE LIMITED)	27.00	72.45	-	25.58	25.58	3.53
20	SECI (ALFANAR ENERGY PVT. LTD.)	27.00	72.45	-	18.26	18.26	2.52
21	SECI (OSTRO KANNADA POWERPRIVATE LIMITED)	162.00	407.61	-	89.06	89.06	2.18
22	SB ENERGY SIX PRIVATE LIMITED (NTPC)	162.00	396.25	-	105.80	105.80	2.67
23	RESPONCE RENEWABLE ENERGY PRIVATE LIMITED	5.40	8.60	-	6.04	6.04	7.02
24	ALFA INFRA PROP PVT. LTD.	5.40	8.92	-	7.11	7.11	7.96
25	SECI (RENEW SUNWAVES PRIVATE LIMITED)	162.00	382.84	-	100.30	100.30	2.62
26	SECI (GRT Jewellers)	81.00	129.07	-	33.56	33.56	2.60
27	AVANTIKA CONTRACTOR (I) PVT. LTD.	2.70	4.46	-	3.43	3.43	7.69
28	WELSPUN I	5.40	8.92	-	7.75	7.75	8.69
29	WELSPUN II	8.10	13.38	-	11.56	11.56	8.64
30	WELSPUN III	8.10	13.38	-	11.46	11.46	8.56
31	UDIPTA ENERGY AND EQUIPMENT PRIVATE LIMITED	2.70	4.46	-	3.56	3.56	7.98
32	SUNMARK ENERGY PROJECT LIMITED	5.40	8.92	-	6.26	6.26	7.02
33	ACME (MAGADH)	5.40	8.92	-	7.79	7.79	8.73
34	ACME (NALANDA)	8.10	13.38	-	11.68	11.68	8.73
35	AZURE POWER ERIS PVT. LTD.	5.40	8.92	-	7.49	7.49	8.39
36	AVADA POWER ERIS PVT LTD	27.00	44.61	-	18.57	18.57	4.16
37	ADANI SOLAR	81.00	149.47	-	40.65	40.65	2.72
38	AVADA CLEAN	27.00	44.61	-	13.87	13.87	3.11
39	ACME DEOGHAR/ACME DHAULPUR	81.00	149.47	-	37.52	37.52	2.51

Sr. No	Particulars	FY 2025-26					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
40	SBE RENEWABLES SIXTEEN PVT LTD	97.20	179.36	-	48.79	48.79	2.72
41	ADANI GREEN ENERGY	324.00	37.69	-	9.50	9.50	2.52
42	GREENKO ENERGY HYBRID	113.40	139.31	-	63.66	63.66	4.57
43	FLOATING SOLAR	5.40	8.92	-	3.45	3.45	3.87
44	CANAL BANK SOLAR	1.08	1.78	-	0.55	0.55	3.10
45	ACME SOLAR JAISELMER	270.00	498.22	-	125.05	125.05	2.51
	Transmission Charges			2,248.06		2,248.06	
1	PGCIL			1,338.42		1,338.42	
2	BSPTCL (including SLDC)			764.29		764.29	
3	BGCL			138.55		138.55	
4	ERLDC (POSOCO)			6.81		6.81	
	Total	7,008.55	25,111.34	7,301.43	7,025.27	14,326.70	5.71

Table 7.27 Detailed projected power purchase costs for FY 2026-27 (in INR Crore)(NBPDC)

Sr. No	Particulars	FY 2026-27					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
I	Stations with injection at CTU	3,313.66	15,299.82	3,649.08	4,589.53	8,238.61	5.38
1	NTPC(BARH-I)	530.28	1,570.94	539.60	591.54	1,131.14	7.20
2	NTPC(BARH-II)	368.71	1,072.68	297.00	425.86	722.85	6.74
3	NTPC (DARLIPALLI)	148.77	957.60	190.65	131.70	322.36	3.37

Sr. No	Particulars	FY 2026-27					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
4	NTPC (FARAKKA - I & II)	188.65	557.55	73.90	222.77	296.67	5.32
5	NTPC (FARAKKA - III)	44.73	132.19	30.63	49.67	80.30	6.08
6	NTPC (KAHALGAUN - I)	23.70	77.75	11.17	28.67	39.84	5.12
7	NTPC (KAHALGAUN - II)	29.29	159.56	16.62	54.81	71.43	4.48
8	NTPC (NORTH KARANPURA)	273.07	1,794.41	490.19	313.80	804.00	4.48
9	NTPC (TALCHAR)	185.79	1,224.66	138.95	259.75	398.70	3.26
10	NTPC (KBUNL-II)	132.97	733.08	226.25	247.05	473.30	6.46
11	NTPC NORTH KARANPUR UNIT #3	136.62	897.76	245.25	157.00	402.25	4.48
12	NABINAGAR POWER GENERATION COMPANY LIMITED	754.20	4,706.33	1,302.09	1,566.98	2,869.06	6.10
13	BHARTIYA RAIL BIJLEE COMPANY LIMITED	46.00	150.29	44.17	52.64	96.81	6.44
14	NHPC (RANGIT)	10.59	55.19	14.41	13.00	27.40	4.96
15	NHPC (TEESTA)	49.22	239.19	28.21	32.70	60.91	2.55
16	PTC (TALA)	119.65	139.77	-	37.33	37.33	2.67
17	PTC (CHUKHA)	42.83	147.94	-	52.92	52.92	3.58
18	PTC (MANGDECHHU)	130.88	423.36	-	208.71	208.71	4.93
19	PTC(KURUCHU)	1.57	0.66	-	0.23	0.23	3.49
20	PTC(NEPAL)	96.14	258.92	-	142.40	142.40	5.50
II	Stations with injection at STU	771.24	2,965.17	927.23	1,062.49	1,989.73	6.71
1	NTPC (BARAUNI-I)	-	-	-	-	-	-
2	NTPC (BARAUNI-II)	230.00	1,002.70	262.93	327.15	590.08	5.88
3	BUXAR TPP UNIT #1	258.06	967.00	332.15	364.13	696.28	7.20
4	BUXAR TPP UNIT #2	258.06	967.00	332.15	364.13	696.28	7.20
5	EAST GANDAK H.E.PROJECT, VALMIKINAGAR	6.90	7.82	-	1.95	1.95	2.49

Sr. No	Particulars	FY 2026-27					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
6	TRIVENI S.H. PROJECT, TRIVENI (VALMIKINAGAR)	1.38	1.56	-	0.39	0.39	2.49
7	SONE EASTERN H.E. PROJECT, BARUN	1.52	1.72	-	0.43	0.43	2.49
8	SONE WESTERN H.E. PROJECT, DEHRI-ON-SONE	3.04	3.44	-	0.86	0.86	2.49
9	SONE WESTERN H.E. PROJECT, KOSI	8.97	10.16	-	2.53	2.53	2.49
10	AGNOOR S.H. PROJECT, AGNOOR	0.46	0.52	-	0.13	0.13	2.49
11	DHELABAGH S.H.PROJECT, DHELABAGH	0.46	0.52	-	0.13	0.13	2.49
12	NASHRIGANJ S H.PROJECT, NASHRIGANJ	0.46	0.52	-	0.13	0.13	2.49
13	JAINAGRAH S.H.PROJECT, JAINAGRAH	0.46	0.52	-	0.13	0.13	2.49
14	SRIKHINDA S.H. PROJECT, SRIKHINDA	0.32	0.36	-	0.09	0.09	2.49
15	SEBARI S.H.PROJECT, SEBARI	0.46	0.52	-	0.13	0.13	2.49
16	ARWAL S.H.PROJECT, ARWAL	0.23	0.26	-	0.06	0.06	2.49
17	BELSAR S.H.PROJECT, BELSAR	0.46	0.52	-	0.13	0.13	2.49
III	IPPs	224.47	1,475.05	414.32	201.66	615.99	4.18
1	GMR KAMALANGA ENERGY LIMITED	119.59	785.86	165.73	110.70	276.43	3.52
2	JINDAL INDIA THARMAL POWER LIMITED	104.88	689.19	248.59	90.96	339.55	4.93
IV	Renewables	1,660.88	3,274.43	-	953.67	953.67	2.91
1	TIRUPATI SUGAR LIMITED	2.76	12.08	-	9.08	9.08	7.52
2	HARINAGAR SUGAR MILL	-	-	-	-	-	-
3	HASANPUR SUGAR MILL	4.60	17.01	-	12.79	12.79	7.52
4	BHARAT SUGAR MILL	-	-	-	-	-	-
5	HPCL BIOFUELS LIMITED, SUGAULI	-	-	-	-	-	-
6	HPCL BIOFUELS LIMITED, LAURIYA	-	-	-	-	-	-

Sr. No	Particulars	FY 2026-27					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
7	NEW SWADESHI SUGAR MILL	-	-	-	-	-	-
8	RIGA SUGAR COMPANY LIMITED	1.38	-	-	-	-	-
9	BIHAR DISTILLERS AND BOTTLERS PRIVATE LIMITED	4.32	7.58	-	6.23	6.23	8.21
10	SIDDHASHRAM RICE MILL CLUSTER PVT. LTD	0.92	-	-	-	-	-
11	GLATT SOLUTION PRIVATE LIMITED	1.38	2.28	-	1.60	1.60	7.02
12	SECI (FOCAL)	4.60	8.49	-	5.02	5.02	5.91
13	SECI (VIVID SOLAIRE ENERGY PVT. LTD.)	23.09	61.97	-	15.61	15.61	2.52
14	SECI (GREEN INFRA WIND ENERGY PVT. LTD.)	46.00	123.44	-	30.98	30.98	2.51
15	SECI (Morjar Windfarms Pvt. Ltd.)	23.00	42.44	-	9.27	9.27	2.19
16	SECI (GREENKO SIRONJ WIND POWER PVT. LTD.)	46.00	123.44	-	33.45	33.45	2.71
17	PTC (OSTRO KUTCH WIND PRIVATE LIMITED)	23.00	61.72	-	21.79	21.79	3.53
18	PTC (GREEN INFRA RENEWABLE ENERGY LIMITED)	23.00	61.72	-	21.79	21.79	3.53
19	PTC (MYTRAH VAYU SABARMATI PRIVATE LIMITED)	23.00	61.72	-	21.79	21.79	3.53
20	SECI (ALFANAR ENERGY PVT. LTD.)	23.00	61.72	-	15.55	15.55	2.52
21	SECI (OSTRO KANNADA POWERPRIVATE LIMITED)	138.00	347.22	-	75.87	75.87	2.18
22	SB ENERGY SIX PRIVATE LIMITED (NTPC)	138.00	337.55	-	90.12	90.12	2.67
23	RESPONCE RENEWABLE ENERGY PRIVATE LIMITED	4.60	7.33	-	5.15	5.15	7.02
24	ALFA INFRA PROP PVT. LTD.	4.60	7.60	-	6.05	6.05	7.96
25	SECI (RENEW SUNWAVES PRIVATE LIMITED)	138.00	326.12	-	85.44	85.44	2.62
26	SECI (GRT Jewellers)	69.00	109.95	-	28.59	28.59	2.60
27	AVANTIKA CONTRACTOR (I) PVT. LTD.	2.30	3.80	-	2.92	2.92	7.69
28	WELSPUN I	4.60	7.60	-	6.61	6.61	8.69
29	WELSPUN II	6.90	11.40	-	9.85	9.85	8.64
30	WELSPUN III	6.90	11.40	-	9.76	9.76	8.56

Sr. No	Particulars	FY 2026-27					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
31	UDIPTA ENERGY AND EQUIPMENT PRIVATE LIMITED	2.30	3.80	-	3.03	3.03	7.98
32	SUNMARK ENERGY PROJECT LIMITED	4.60	7.60	-	5.34	5.34	7.02
33	ACME (MAGADH)	4.60	7.60	-	6.63	6.63	8.73
34	ACME (NALANDA)	6.90	11.40	-	9.95	9.95	8.73
35	AZURE POWER ERIS PVT. LTD.	4.60	7.60	-	6.38	6.38	8.39
36	AVADA POWER ERIS PVT LTD	23.00	38.00	-	15.81	15.81	4.16
37	ADANI SOLAR	69.00	127.32	-	34.63	34.63	2.72
38	AVADA CLEAN	23.00	38.00	-	11.82	11.82	3.11
39	ACME DEOGHAR/ACME DHAULPUR	69.00	127.32	-	31.96	31.96	2.51
40	SBE RENEWABLES SIXTEEN PVT LTD	82.80	152.79	-	41.56	41.56	2.72
41	ADANI GREEN ENERGY	276.00	385.23	-	97.08	97.08	2.52
42	GREENKO ENERGY HYBRID	96.60	118.67	-	54.23	54.23	4.57
43	FLOATING SOLAR	4.60	7.60	-	2.94	2.94	3.87
44	CANAL BANK SOLAR	0.92	1.52	-	0.47	0.47	3.10
45	ACME SOLAR JAISELMER	230.00	424.41	-	106.53	106.53	2.51
V	Transmission Charges			2,106.52		2,106.52	
1	PGCIL			1,254.15		1,254.15	
2	BSPTCL (including SLDC)			716.16		716.16	
3	BGCL			129.82		129.82	
4	ERLDC (POSOCO)			6.38		6.38	
VI	Total	5,970.24	23,014.47	7,097.15	6,807.36	13,904.51	6.04

Table 7.28 Detailed projected power purchase costs for FY 2026-27 (in INR Crore)(SBPDCL)

Sr. No	Particulars	FY 2026-27					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
I	Stations with injection at CTU	3,889.95	17,960.66	4,283.70	5,387.71	9,671.41	5.38
1	NTPC(BARH-I)	622.50	1,844.14	633.44	694.42	1,327.86	7.20
2	NTPC(BARH-II)	432.83	1,259.24	348.65	499.92	848.57	6.74
3	NTPC (DARLIPALLI)	174.64	1,124.14	223.81	154.61	378.42	3.37
4	NTPC (FARAKKA - I & II)	221.46	654.52	86.75	261.52	348.27	5.32
5	NTPC (FARAKKA - III)	52.51	155.18	35.96	58.31	94.27	6.08
6	NTPC (KAHALGAUN - I)	27.82	91.27	13.11	33.66	46.77	5.12
7	NTPC (KAHALGAUN - II)	34.38	187.31	19.51	64.34	83.85	4.48
8	NTPC (NORTH KARANPURA)	320.56	2,106.48	575.44	368.38	943.82	4.48
9	NTPC (TALCHAR)	218.11	1,437.65	163.11	304.92	468.03	3.26
10	NTPC (KBUNL-II)	156.10	860.57	265.60	290.02	555.62	6.46
11	NTPC NORTH KARANPUR UNIT #3	160.38	1,053.89	287.90	184.30	472.20	4.48
12	NABINAGAR POWER GENERATION COMPANY LIMITED	885.37	5,524.82	1,528.54	1,839.50	3,368.03	6.10
13	BHARTIYA RAIL BIJLEE COMPANY LIMITED	54.00	176.42	51.85	61.80	113.65	6.44
14	NHPC (RANGIT)	12.43	64.79	16.91	15.26	32.17	4.96
15	NHPC (TEESTA)	57.78	280.79	33.11	38.39	71.50	2.55
16	PTC (TALA)	140.45	164.08	-	43.82	43.82	2.67
17	PTC (CHUKHA)	50.28	173.67	-	62.12	62.12	3.58
18	PTC (MANGDECHHU)	153.64	496.99	-	245.01	245.01	4.93
19	PTC(KURUCHU)	1.84	0.77	-	0.27	0.27	3.49
20	PTC(NEPAL)	112.86	303.95	-	167.17	167.17	5.50
II	Stations with injection at STU	905.36	3,480.85	1,088.49	1,247.28	2,335.77	6.71

Sr. No	Particulars	FY 2026-27					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
1	NTPC (BARAUNI-I)	-	-	-	-	-	-
2	NTPC (BARAUNI-II)	270.00	1,177.09	308.65	384.05	692.70	5.88
12	BUXAR TPP UNIT #1	302.94	1,135.18	389.92	427.46	817.38	7.20
13	BUXAR TPP UNIT #2	302.94	1,135.18	389.92	427.46	817.38	7.20
3	EAST GANDAK H.E.PROJECT, VALMIKINAGAR	8.10	9.18	-	2.29	2.29	2.49
4	TRIVENI S.H. PROJECT, TRIVENI (VALMIKINAGAR)	1.62	1.84	-	0.46	0.46	2.49
5	SONE EASTERN H.E. PROJECT, BARUN	1.78	2.02	-	0.50	0.50	2.49
6	SONE WESTERN H.E. PROJECT, DEHRI-ON-SONE	3.56	4.04	-	1.01	1.01	2.49
7	SONE WESTERN H.E. PROJECT, KOSI	10.53	11.93	-	2.97	2.97	2.49
8	AGNOOR S.H. PROJECT, AGNOOR	0.54	0.61	-	0.15	0.15	2.49
9	DHELABAGH S.H.PROJECT, DHELABAGH	0.54	0.61	-	0.15	0.15	2.49
10	NASHRIGANJ S H.PROJECT, NASHRIGANJ	0.54	0.61	-	0.15	0.15	2.49
11	JAINAGRAH S.H.PROJECT, JAINAGRAH	0.54	0.61	-	0.15	0.15	2.49
12	SRIKHINDA S.H. PROJECT, SRIKHINDA	0.38	0.43	-	0.11	0.11	2.49
13	SEBARI S.H.PROJECT, SEBARI	0.54	0.61	-	0.15	0.15	2.49
14	ARWAL S.H.PROJECT, ARWAL	0.27	0.31	-	0.08	0.08	2.49
15	BELSAR S.H.PROJECT, BELSAR	0.54	0.61	-	0.15	0.15	2.49
III	IPPs	263.51	1,731.58	486.38	236.74	723.11	4.18
1	GMR KAMALANGA ENERGY LIMITED	140.39	922.53	194.55	129.96	324.51	3.52
2	JINDAL INDIA THARMAL POWER LIMITED	123.12	809.05	291.83	106.78	398.61	4.93
IV	Renewables	1,949.72	3,843.90	-	1,119.53	1,119.53	2.91
1	TIRUPATI SUGAR LIMITED	3.24	14.18	-	10.66	10.66	7.52

Sr. No	Particulars	FY 2026-27					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
2	HARINAGAR SUGAR MILL	-	-	-	-	-	-
3	HASANPUR SUGAR MILL	5.40	19.97	-	15.02	15.02	7.52
4	BHARAT SUGAR MILL	-	-	-	-	-	-
5	HPCL BIOFUELS LIMITED, SUGAULI	-	-	-	-	-	-
6	HPCL BIOFUELS LIMITED, LAURIYA	-	-	-	-	-	-
7	NEW SWADESHI SUGAR MILL	-	-	-	-	-	-
8	RIGA SUGAR COMPANY LIMITED	1.62	-	-	-	-	-
9	BIHAR DISTILLERS AND BOTTLERS PRIVATE LIMITED	5.08	8.90	-	7.31	7.31	8.21
10	SIDHASHRAM RICE MILL CLUSTER PVT. LTD	1.08	-	-	-	-	-
11	GLATT SOLUTION PRIVATE LIMITED	1.62	2.68	-	1.88	1.88	7.02
12	SECI (FOCAL)	5.40	9.96	-	5.89	5.89	5.91
13	SECI (VIVID SOLAIRE ENERGY PVT. LTD.)	27.11	72.74	-	18.33	18.33	2.52
14	SECI (GREEN INFRA WIND ENERGY PVT. LTD.)	54.00	144.90	-	36.37	36.37	2.51
15	SECI (Morjar Windfarms Pvt. Ltd.)	27.00	49.82	-	10.89	10.89	2.19
16	SECI (GREENKO SIRONJ WIND POWER PVT. LTD.)	54.00	144.90	-	39.27	39.27	2.71
17	PTC (OSTRO KUTCH WIND PRIVATE LIMITED)	27.00	72.45	-	25.58	25.58	3.53
18	PTC (GREEN INFRA RENEWABLE ENERGY LIMITED)	27.00	72.45	-	25.58	25.58	3.53
19	PTC (MYTRAH VAYU SABARMATI PRIVATE LIMITED)	27.00	72.45	-	25.58	25.58	3.53
20	SECI (ALFANAR ENERGY PVT. LTD.)	27.00	72.45	-	18.26	18.26	2.52
21	SECI (OSTRO KANNADA POWERPRIVATE LIMITED)	162.00	407.61	-	89.06	89.06	2.18
22	SB ENERGY SIX PRIVATE LIMITED (NTPC)	162.00	396.25	-	105.80	105.80	2.67
23	RESPONCE RENEWABLE ENERGY PRIVATE LIMITED	5.40	8.60	-	6.04	6.04	7.02
24	ALFA INFRA PROP PVT. LTD.	5.40	8.92	-	7.11	7.11	7.96
25	SECI (RENEW SUNWAVES PRIVATE LIMITED)	162.00	382.84	-	100.30	100.30	2.62

Sr. No	Particulars	FY 2026-27					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
26	SECI (GRT Jewellers)	81.00	129.07	-	33.56	33.56	2.60
27	AVANTIKA CONTRACTOR (I) PVT. LTD.	2.70	4.46	-	3.43	3.43	7.69
28	WELSPUN I	5.40	8.92	-	7.75	7.75	8.69
29	WELSPUN II	8.10	13.38	-	11.56	11.56	8.64
30	WELSPUN III	8.10	13.38	-	11.46	11.46	8.56
31	UDIPTA ENERGY AND EQUIPMENT PRIVATE LIMITED	2.70	4.46	-	3.56	3.56	7.98
32	SUNMARK ENERGY PROJECT LIMITED	5.40	8.92	-	6.26	6.26	7.02
33	ACME (MAGADH)	5.40	8.92	-	7.79	7.79	8.73
34	ACME (NALANDA)	8.10	13.38	-	11.68	11.68	8.73
35	AZURE POWER ERIS PVT. LTD.	5.40	8.92	-	7.49	7.49	8.39
36	AVADA POWER ERIS PVT LTD	27.00	44.61	-	18.57	18.57	4.16
37	ADANI SOLAR	81.00	149.47	-	40.65	40.65	2.72
38	AVADA CLEAN	27.00	44.61	-	13.87	13.87	3.11
39	ACME DEOGHAR/ACME DHAULPUR	81.00	149.47	-	37.52	37.52	2.51
40	SBE RENEWABLES SIXTEEN PVT LTD	97.20	179.36	-	48.79	48.79	2.72
41	ADANI GREEN ENERGY	324.00	452.23	-	113.96	113.96	2.52
42	GREENKO ENERGY HYBRID	113.40	139.31	-	63.66	63.66	4.57
43	FLOATING SOLAR	5.40	8.92	-	3.45	3.45	3.87
44	CANAL BANK SOLAR	1.08	1.78	-	0.55	0.55	3.10
45	ACME SOLAR JAISELMER	270.00	498.22	-	125.05	125.05	2.51
	Transmission Charges			2,472.87		2,472.87	
1	PGCIL			1,472.26		1,472.26	
2	BSPTCL (including SLDC)			840.71		840.71	

Sr. No	Particulars	FY 2026-27					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
3	BGCL			152.40		152.40	
4	ERLDC (POSOCO)			7.49		7.49	
	Total	7,008.55	27,016.99	8,331.44	7,991.25	16,322.69	6.04

Table 7.29 Detailed projected power purchase costs for FY 2027-28 (in INR Crore) (NBPDC)

Sr. No	Particulars	FY 2027-28					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
I	Stations with injection at CTU	3,313.66	17,160.16	4,520.52	5,576.55	10,097.07	5.88
1	NTPC(BARH-I)	530.28	2,856.25	1,046.92	1,135.44	2,182.36	7.64
2	NTPC(BARH-II)	368.71	1,309.29	386.83	548.74	935.57	7.15
3	NTPC (DARLIPALLI)	148.77	957.60	203.45	139.04	342.48	3.58
4	NTPC (FARAKKA - I & II)	188.65	560.74	79.31	236.53	315.84	5.63
5	NTPC (FARAKKA - III)	44.73	241.72	59.78	95.88	155.66	6.44
6	NTPC (KAHALGAUN - I)	23.70	140.99	21.61	54.89	76.49	5.43
7	NTPC (KAHALGAUN - II)	29.29	174.23	19.36	63.18	82.55	4.74
8	NTPC (NORTH KARANPURA)	273.07	1,794.41	523.08	331.28	854.37	4.76
9	NTPC (TALCHAR)	185.79	1,227.77	148.65	274.91	423.56	3.45
10	NTPC (KBUNL-II)	132.97	760.95	250.61	270.73	521.34	6.85
11	NTPC NORTH KARANPUR UNIT #3	136.62	897.76	261.70	165.74	427.45	4.76
12	NABINAGAR POWER GENERATION COMPANY LIMITED	754.20	4,703.62	1,388.66	1,653.30	3,041.96	6.47
13	BHARTIYA RAIL BIJLEE COMPANY LIMITED	46.00	272.80	85.56	100.88	186.43	6.83

Sr. No	Particulars	FY 2027-28					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
14	NHPC (RANGIT)	10.59	54.62	15.21	13.58	28.79	5.27
15	NHPC (TEESTA)	49.22	236.78	29.80	34.18	63.97	2.70
16	PTC (TALA)	119.65	139.77	-	39.41	39.41	2.82
17	PTC (CHUKHA)	42.83	147.94	-	55.86	55.86	3.78
18	PTC (MANGDECHHU)	130.88	423.36	-	220.34	220.34	5.20
19	PTC(KURUCHU)	1.57	0.66	-	0.24	0.24	3.68
20	PTC(NEPAL)	96.14	258.92	-	142.40	142.40	5.50
II	Stations with injection at STU	771.24	2,965.17	989.45	1,121.28	2,110.73	7.12
1	NTPC (BARAUNI-I)	-	-	-	-	-	-
2	NTPC (BARAUNI-II)	230.00	1,002.70	280.57	345.37	625.94	6.24
3	BUXAR TPP UNIT #1	258.06	967.00	354.44	384.41	738.85	7.64
4	BUXAR TPP UNIT #2	258.06	967.00	354.44	384.41	738.85	7.64
5	EAST GANDAK H.E.PROJECT, VALMIKINAGAR	6.90	7.82	-	1.95	1.95	2.49
6	TRIVENI S.H. PROJECT, TRIVENI (VALMIKINAGAR)	1.38	1.56	-	0.39	0.39	2.49
7	SONE EASTERN H.E. PROJECT, BARUN	1.52	1.72	-	0.43	0.43	2.49
8	SONE WESTERN H.E. PROJECT, DEHRI-ON-SONE	3.04	3.44	-	0.86	0.86	2.49
9	SONE WESTERN H.E. PROJECT, KOSI	8.97	10.16	-	2.53	2.53	2.49
10	AGNOOR S.H. PROJECT, AGNOOR	0.46	0.52	-	0.13	0.13	2.49
11	DHELABAGH S.H.PROJECT, DHELABAGH	0.46	0.52	-	0.13	0.13	2.49
12	NASHRIGANJ S H.PROJECT, NASHRIGANJ	0.46	0.52	-	0.13	0.13	2.49
13	JAINAGRAH S.H.PROJECT, JAINAGRAH	0.46	0.52	-	0.13	0.13	2.49
14	SRIKHINDA S.H. PROJECT, SRIKHINDA	0.32	0.36	-	0.09	0.09	2.49
15	SEBARI S.H.PROJECT, SEBARI	0.46	0.52	-	0.13	0.13	2.49

Sr. No	Particulars	FY 2027-28					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
16	ARWAL S.H.PROJECT, ARWAL	0.23	0.26	-	0.06	0.06	2.49
17	BELSAR S.H.PROJECT, BELSAR	0.46	0.52	-	0.13	0.13	2.49
III	IPPs	224.47	1,475.05	442.12	212.90	655.02	4.44
1	GMR KAMALANGA ENERGY LIMITED	119.59	785.86	176.85	116.87	293.72	3.74
2	JINDAL INDIA THERMAL POWER LIMITED	104.88	689.19	265.27	96.03	361.30	5.24
IV	Renewables	1,655.36	3,257.42	-	940.88	940.88	2.89
1	TIRUPATI SUGAR LIMITED	2.76	12.08	-	9.08	9.08	7.52
2	HARINAGAR SUGAR MILL	-	-	-	-	-	-
3	HASANPUR SUGAR MILL	-	-	-	-	-	-
4	BHARAT SUGAR MILL	-	-	-	-	-	-
5	HPCL BIOFUELS LIMITED, SUGAULI	-	-	-	-	-	-
6	HPCL BIOFUELS LIMITED, LAURIYA	-	-	-	-	-	-
7	NEW SWADESHI SUGAR MILL	-	-	-	-	-	-
8	RIGA SUGAR COMPANY LIMITED	1.38	-	-	-	-	-
9	BIHAR DISTILLERS AND BOTTLERS PRIVATE LIMITED	4.32	7.58	-	6.23	6.23	8.21
10	SIDDHASHRAM RICE MILL CLUSTER PVT. LTD	-	-	-	-	-	-
11	GLATT SOLUTION PRIVATE LIMITED	1.38	2.28	-	1.60	1.60	7.02
12	SECI (FOCAL)	4.60	8.49	-	5.02	5.02	5.91
13	SECI (VIVID SOLAIRE ENERGY PVT. LTD.)	23.09	61.97	-	15.61	15.61	2.52
14	SECI (GREEN INFRA WIND ENERGY PVT. LTD.)	46.00	123.44	-	30.98	30.98	2.51
15	SECI (Morjar Windfarms Pvt. Ltd.)	23.00	42.44	-	9.27	9.27	2.19
16	SECI (GREENKO SIRONJ WIND POWER PVT. LTD.)	46.00	123.44	-	33.45	33.45	2.71

Sr. No	Particulars	FY 2027-28					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
17	PTC (OSTRO KUTCH WIND PRIVATE LIMITED)	23.00	61.72	-	21.79	21.79	3.53
18	PTC (GREEN INFRA RENEWABLE ENERGY LIMITED)	23.00	61.72	-	21.79	21.79	3.53
19	PTC (MYTRAH VAYU SABARMATI PRIVATE LIMITED)	23.00	61.72	-	21.79	21.79	3.53
20	SECI (ALFANAR ENERGY PVT. LTD.)	23.00	61.72	-	15.55	15.55	2.52
21	SECI (OSTRO KANNADA POWERPRIVATE LIMITED)	138.00	347.22	-	75.87	75.87	2.18
22	SB ENERGY SIX PRIVATE LIMITED (NTPC)	138.00	337.55	-	90.12	90.12	2.67
23	RESPONCE RENEWABLE ENERGY PRIVATE LIMITED	4.60	7.33	-	5.15	5.15	7.02
24	ALFA INFRA PROP PVT. LTD.	4.60	7.60	-	6.05	6.05	7.96
25	SECI (RENEW SUNWAVES PRIVATE LIMITED)	138.00	326.12	-	85.44	85.44	2.62
26	SECI (GRT Jewellers)	69.00	109.95	-	28.59	28.59	2.60
27	AVANTIKA CONTRACTOR (I) PVT. LTD.	2.30	3.80	-	2.92	2.92	7.69
28	WELSPUN I	4.60	7.60	-	6.61	6.61	8.69
29	WELSPUN II	6.90	11.40	-	9.85	9.85	8.64
30	WELSPUN III	6.90	11.40	-	9.76	9.76	8.56
31	UDIPTA ENERGY AND EQUIPMENT PRIVATE LIMITED	2.30	3.80	-	3.03	3.03	7.98
32	SUNMARK ENERGY PROJECT LIMITED	4.60	7.60	-	5.34	5.34	7.02
33	ACME (MAGADH)	4.60	7.60	-	6.63	6.63	8.73
34	ACME (NALANDA)	6.90	11.40	-	9.95	9.95	8.73
35	AZURE POWER ERIS PVT. LTD.	4.60	7.60	-	6.38	6.38	8.39
36	AVADA POWER ERIS PVT LTD	23.00	38.00	-	15.81	15.81	4.16
37	ADANI SOLAR	69.00	127.32	-	34.63	34.63	2.72
38	AVADA CLEAN	23.00	38.00	-	11.82	11.82	3.11
39	ACME DEOGHAR/ACME DHAULPUR	69.00	127.32	-	31.96	31.96	2.51
40	SBE RENEWABLES SIXTEEN PVT LTD	82.80	152.79	-	41.56	41.56	2.72

Sr. No	Particulars	FY 2027-28					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
41	ADANI GREEN ENERGY	276.00	385.23	-	97.08	97.08	2.52
42	GREENKO ENERGY HYBRID	96.60	118.67	-	54.23	54.23	4.57
43	FLOATING SOLAR	4.60	7.60	-	2.94	2.94	3.87
44	CANAL BANK SOLAR	0.92	1.52	-	0.47	0.47	3.10
45	ACME SOLAR JAISELMER	230.00	424.41	-	106.53	106.53	2.51
V	Transmission Charges			2,317.17		2,317.17	
1	PGCIL			1,379.56		1,379.56	
2	BSPTCL (including SLDC)			787.78		787.78	
3	BGCL			142.81		142.81	
4	ERLDC (POSOCO)			7.02		7.02	
VI	Total	5,964.72	24,857.80	8,269.27	7,851.61	16,120.88	6.49

Table 7.30 Detailed projected power purchase costs for FY 2027-28 (in INR Crore) (SBPDCL)

Sr. No	Particulars	FY 2027-28					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
I	Stations with injection at CTU	3,889.95	20,144.54	5,306.70	6,546.38	11,853.09	5.88
1	NTPC(BARH-I)	622.50	3,352.98	1,228.99	1,332.91	2,561.90	7.64
2	NTPC(BARH-II)	432.83	1,536.99	454.11	644.17	1,098.28	7.15
3	NTPC (DARLIPALLI)	174.64	1,124.14	238.83	163.22	402.05	3.58

Sr. No	Particulars	FY 2027-28					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
4	NTPC (FARAKKA - I & II)	221.46	658.26	93.10	277.66	370.76	5.63
5	NTPC (FARAKKA - III)	52.51	283.75	70.17	112.56	182.73	6.44
6	NTPC (KAHALGAUN - I)	27.82	165.51	25.36	64.43	89.79	5.43
7	NTPC (KAHALGAUN - II)	34.38	204.54	22.73	74.17	96.90	4.74
8	NTPC (NORTH KARANPURA)	320.56	2,106.48	614.06	388.90	1,002.95	4.76
9	NTPC (TALCHAR)	218.11	1,441.30	174.50	322.72	497.22	3.45
10	NTPC (KBUNL-II)	156.10	893.29	294.20	317.81	612.01	6.85
11	NTPC NORTH KARANPUR UNIT #3	160.38	1,053.89	307.22	194.57	501.79	4.76
16	NABINAGAR POWER GENERATION COMPANY LIMITED	885.37	5,521.64	1,630.16	1,940.84	3,571.00	6.47
17	BHARTIYA RAIL BIJLEE COMPANY LIMITED	54.00	320.24	100.44	118.42	218.85	6.83
18	NHPC (RANGIT)	12.43	64.11	17.86	15.94	33.80	5.27
19	NHPC (TEESTA)	57.78	277.96	34.98	40.12	75.10	2.70
20	PTC (TALA)	140.45	164.08	-	46.26	46.26	2.82
21	PTC (CHUKHA)	50.28	173.67	-	65.58	65.58	3.78
22	PTC (MANGDECHHU)	153.64	496.99	-	258.66	258.66	5.20
23	PTC(KURUCHU)	1.84	0.77	-	0.28	0.28	3.68
23	PTC(NEPAL)	112.86	303.95	-	167.17	167.17	5.50
II	Stations with injection at STU	905.36	3,480.85	1,161.53	1,316.29	2,477.82	7.12
1	NTPC (BARAUNI-I)	-	-	-	-	-	-
2	NTPC (BARAUNI-II)	270.00	1,177.09	329.36	405.44	734.80	6.24
3	BUXAR TPP UNIT #1	302.94	1,135.18	416.08	451.27	867.35	7.64
4	BUXAR TPP UNIT #2	302.94	1,135.18	416.08	451.27	867.35	7.64
5	EAST GANDAK H.E.PROJECT, VALMIKINAGAR	8.10	9.18	-	2.29	2.29	2.49

Sr. No	Particulars	FY 2027-28					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
6	TRIVENI S.H. PROJECT, TRIVENI (VALMIKINAGAR)	1.62	1.84	-	0.46	0.46	2.49
7	SONE EASTERN H.E. PROJECT, BARUN	1.78	2.02	-	0.50	0.50	2.49
8	SONE WESTERN H.E. PROJECT, DEHRI-ON-SONE	3.56	4.04	-	1.01	1.01	2.49
9	SONE WESTERN H.E. PROJECT, KOSI	10.53	11.93	-	2.97	2.97	2.49
10	AGNOOR S.H. PROJECT, AGNOOR	0.54	0.61	-	0.15	0.15	2.49
11	DHELABAGH S.H.PROJECT, DHELABAGH	0.54	0.61	-	0.15	0.15	2.49
12	NASHRIGANJ S H.PROJECT, NASHRIGANJ	0.54	0.61	-	0.15	0.15	2.49
13	JAINAGRAH S.H.PROJECT, JAINAGRAH	0.54	0.61	-	0.15	0.15	2.49
14	SRIKHINDA S.H. PROJECT, SRIKHINDA	0.38	0.43	-	0.11	0.11	2.49
15	SEBARI S.H.PROJECT, SEBARI	0.54	0.61	-	0.15	0.15	2.49
16	ARWAL S.H.PROJECT, ARWAL	0.27	0.31	-	0.08	0.08	2.49
17	BELSAR S.H.PROJECT, BELSAR	0.54	0.61	-	0.15	0.15	2.49
III	IPPs	263.51	1,731.58	519.01	249.92	768.94	4.44
1	GMR KAMALANGA ENERGY LIMITED	140.39	922.53	207.61	137.20	344.80	3.74
2	JINDAL INDIA THARMAL POWER LIMITED	123.12	809.05	311.41	112.73	424.14	5.24
IV	Renewables	1,943.24	3,823.93	-	1,104.51	1,104.51	2.89
1	TIRUPATI SUGAR LIMITED	3.24	14.18	-	10.66	10.66	7.52
2	HARINAGAR SUGAR MILL	-	-	-	-	-	-
3	HASANPUR SUGAR MILL	-	-	-	-	-	-
4	BHARAT SUGAR MILL	-	-	-	-	-	-
5	HPCL BIOFUELS LIMITED, SUGAULI	-	-	-	-	-	-
6	HPCL BIOFUELS LIMITED, LAURIYA	-	-	-	-	-	-

Sr. No	Particulars	FY 2027-28					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
7	NEW SWADESHI SUGAR MILL	-	-	-	-	-	-
8	RIGA SUGAR COMPANY LIMITED	1.62	-	-	-	-	-
9	BIHAR DISTILLERS AND BOTTLERS PRIVATE LIMITED	5.08	8.90	-	7.31	7.31	8.21
10	SIDHASHRAM RICE MILL CLUSTER PVT. LTD	-	-	-	-	-	-
11	GLATT SOLUTION PRIVATE LIMITED	1.62	2.68	-	1.88	1.88	7.02
12	SECI (FOCAL)	5.40	9.96	-	5.89	5.89	5.91
13	SECI (VIVID SOLAIRE ENERGY PVT. LTD.)	27.11	72.74	-	18.33	18.33	2.52
14	SECI (GREEN INFRA WIND ENERGY PVT. LTD.)	54.00	144.90	-	36.37	36.37	2.51
15	SECI (Morjar Windfarms Pvt. Ltd.)	27.00	49.82	-	10.89	10.89	2.19
16	SECI (GREENKO SIRONJ WIND POWER PVT. LTD.)	54.00	144.90	-	39.27	39.27	2.71
17	PTC (OSTRO KUTCH WIND PRIVATE LIMITED)	27.00	72.45	-	25.58	25.58	3.53
18	PTC (GREEN INFRA RENEWABLE ENERGY LIMITED)	27.00	72.45	-	25.58	25.58	3.53
19	PTC (MYTRAH VAYU SABARMATI PRIVATE LIMITED)	27.00	72.45	-	25.58	25.58	3.53
20	SECI (ALFANAR ENERGY PVT. LTD.)	27.00	72.45	-	18.26	18.26	2.52
21	SECI (OSTRO KANNADA POWERPRIVATE LIMITED)	162.00	407.61	-	89.06	89.06	2.18
22	SB ENERGY SIX PRIVATE LIMITED (NTPC)	162.00	396.25	-	105.80	105.80	2.67
23	RESPONCE RENEWABLE ENERGY PRIVATE LIMITED	5.40	8.60	-	6.04	6.04	7.02
24	ALFA INFRA PROP PVT. LTD.	5.40	8.92	-	7.11	7.11	7.96
25	SECI (RENEW SUNWAVES PRIVATE LIMITED)	162.00	382.84	-	100.30	100.30	2.62
26	SECI (GRT Jewellers)	81.00	129.07	-	33.56	33.56	2.60
27	AVANTIKA CONTRACTOR (I) PVT. LTD.	2.70	4.46	-	3.43	3.43	7.69
28	WELSPUN I	5.40	8.92	-	7.75	7.75	8.69
29	WELSPUN II	8.10	13.38	-	11.56	11.56	8.64
30	WELSPUN III	8.10	13.38	-	11.46	11.46	8.56

Sr. No	Particulars	FY 2027-28					
		Share Allocation (MW)	Unit Purchased (MU)	Fixed Cost (Rs Crores)	Variable Cost (Rs Crores)	Total cost	Avg. Cost (Rs./Unit)
31	UDIPTA ENERGY AND EQUIPMENT PRIVATE LIMITED	2.70	4.46	-	3.56	3.56	7.98
32	SUNMARK ENERGY PROJECT LIMITED	5.40	8.92	-	6.26	6.26	7.02
33	ACME (MAGADH)	5.40	8.92	-	7.79	7.79	8.73
34	ACME (NALANDA)	8.10	13.38	-	11.68	11.68	8.73
35	AZURE POWER ERIS PVT. LTD.	5.40	8.92	-	7.49	7.49	8.39
36	AVADA POWER ERIS PVT LTD	27.00	44.61	-	18.57	18.57	4.16
37	ADANI SOLAR	81.00	149.47	-	40.65	40.65	2.72
38	AVADA CLEAN	27.00	44.61	-	13.87	13.87	3.11
39	ACME DEOGHAR/ACME DHAULPUR	81.00	149.47	-	37.52	37.52	2.51
40	SBE RENEWABLES SIXTEEN PVT LTD	97.20	179.36	-	48.79	48.79	2.72
41	ADANI GREEN ENERGY	324.00	452.23	-	113.96	113.96	2.52
42	GREENKO ENERGY HYBRID	113.40	139.31	-	63.66	63.66	4.57
43	FLOATING SOLAR	5.40	8.92	-	3.45	3.45	3.87
44	CANAL BANK SOLAR	1.08	1.78	-	0.55	0.55	3.10
45	ACME SOLAR JAISELMER	270.00	498.22	-	125.05	125.05	2.51
	Transmission Charges			2,720.16		2,720.16	
1	PGCIL			1,619.49		1,619.49	
2	BSPTCL (including SLDC)			924.79		924.79	
3	BGCL			167.64		167.64	
4	ERLDC (POSOCO)			8.24		8.24	
	Total	7,002.07	29,180.90	9,707.40	9,217.11	18,924.51	6.49

It is also submitted that the Petitioner have made PPA agreements with the new plants according to 24x7 Power for All MoU approved by the Commission. The expected COD from the plants have been considered as per actual scenario. The average cost of power calculated above is subject to change on actual basis since power may be required to be procured from open market, as per demand and availability to the DISCOMs in a particular block.

Commission's analysis

The Commission has noted the submissions of Petitioners regarding power purchase costs and increased proposed for fixed charges and energy charge. The Commission has approved the the power purchase cost in the previous chapter (Business Plan). The power purchase cost approved by the Commission for the control period is as shown in Tables below:

Table 7.31: Power Purchase Cost for FY 2025-26 as computed by Commission for NBPDCCL

Sl. No	Particulars	Bihar share allocation (MW)	NBPDCCL share allocation (MW)	Avg PLF %	Units considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
I	Stations with injection at CTU	7,206.00	3,316.00		13,952.86		3,601.17	3,450.41	7,051.58	5.05
1	NTPC(Barh-I)	1,153	530	62.57%	1,598.54	3.16	505.38	388.54	893.92	5.59
2	NTPC(Barh-II)	802	369	91.43%	1,624.26	3.10	504.14	690.40	1,194.55	7.35
3	NTPC (Darlipalli)	324	149	80.72%	1,052.00	1.27	133.28	176.82	310.10	2.95
4	NTPC (Farakka - I & II)	410	189	62.89%	571.60	3.44	196.35	86.85	283.19	4.95
5	NTPC (Farakka - III)	98	45	62.89%	135.52	3.39	45.93	44.93	90.86	6.70
6	NTPC (Kahalgaun - I)	52	24	68.68%	78.42	2.83	22.19	67.31	89.50	11.41
7	NTPC (Kahalgaun - II)	63	29	76.92%	108.54	2.64	28.68	17.37	46.04	4.24
8	NTPC (North Karanpura)	594	273	77.78%	1,860.46	1.62	300.85	239.57	540.43	2.90
9	NTPC (Talchar)	404	186	80.97%	1,317.90	1.89	248.57	126.28	374.85	2.84
10	NTPC (Kbunl-II)	289	133	76.94%	492.95	2.70	132.86	233.54	366.40	7.43
11	NTPC North Karanpur Unit #3	297	137	77.77%	930.80	1.62	150.52	111.24	261.76	2.81
12	Nabinagar Power Generation Company Limited	1,639	754	76.00%	2,761.50	2.95	815.35	1,172.75	1,988.10	7.20
13	Bhartiya Rail Bijlee Company Limited	100	46	68.49%	151.79	3.13	47.45	65.10	112.55	7.41
14	NHPC (Rangit)	23	11	61.90%	54.27	2.23	12.10	11.09	23.19	4.27
15	NHPC (Teesta)	107	49	59.50%	243.67	1.30	31.68	18.63	50.31	2.06
16	PTC (Tala)	260	120	13.83%	139.77	2.53	35.36	-	35.36	2.53
17	PTC (Chukha)	93	43	40.88%	147.94	3.39	50.15	-	50.15	3.39
18	PTC (Mangdechhu)	285	131	38.29%	423.36	4.67	197.71	-	197.71	4.67
19	PTC (Kuruchu)	4	2	4.96%	0.66	3.30	0.22	-	0.22	3.30
20	PTC(Nepal)	209	96	85.00%	258.92	5.50	142.41	-	142.41	5.50
II	Stations with injection at STU	1,732.00	790.00		2,336.21		705.14	672.42	1,377.56	5.90
1	NTPC (Barauni-II)	500.00	230	63.52%	1,099.00	2.52	277.24	283.33	560.57	5.10
2	Buxar TPP Unit #1	561.00	258	77.77%	967.00	3.48	336.65	311.27	647.92	6.70
3	Buxar TPP Unit #2	561.00	258	78.86%	241.75	3.48	84.16	77.82	161.98	6.70
4	BSHPC	55.00	22	7.11%	28.46	2.49	7.09	-	7.09	2.49
III	IPPs	488.00	225.00		1,694.65		212.58	400.81	613.39	3.62

Sl. No	Particulars	Bihar share allocation (MW)	NBPDC share allocation (MW)	Avg PLF %	Units considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
1	GMR Kamalanga Energy Limited	260.00	120	87.03%	911.73	1.30	118.32	162.33	280.65	3.08
2	Jindal India Thermal Power Limited	228.00	105	85.22%	782.92	1.20	94.26	238.48	332.74	4.25
IV	Renewables	3,605.00	1,662.00		2,922.85		865.85	-	865.85	2.96
1	Tirupati Sugar Limited	6.00	3	54.59%	12.08	7.52	9.08	-	9.08	7.52
2	Hasanpur Sugar Mill	10.00	5	50.33%	18.56	7.52	13.95	-	13.95	7.52
3	Bihar Distillers And Bottlers Private Limited	9.00	4	21.88%	7.58	8.21	6.23	-	6.23	8.21
4	Glatt Solution Private Limited	3.00	1	18.86%	2.28	7.02	1.60	-	1.60	7.02
5	SECI (Focal)	10.00	5	21.84%	8.49	5.91	5.02	-	5.02	5.91
6	SB Energy Six Private Limited (Ntpc)	300.00	138	28.95%	337.55	2.67	90.12	-	90.12	2.67
7	Responce Renewable Energy Private Limited	10.00	5	18.86%	7.33	7.02	5.15	-	5.15	7.02
8	SECI (Renew Sunwaves Private Limited)	300.00	138	27.97%	326.12	2.62	85.44	-	85.44	2.62
9	SECI (GRT Jewellers)	150.00	69	18.86%	109.95	2.60	28.59	-	28.59	2.60
10	Avantika Contractor (I) Pvt. Ltd.	5.00	2	18.86%	3.80	7.69	2.92	-	2.92	7.69
11	Welspun I	10.00	5	18.86%	7.60	8.69	6.61	-	6.61	8.69
12	Welspun II	15.00	7	18.86%	11.40	8.64	9.85	-	9.85	8.64
13	Welspun III	15.00	7	18.86%	11.40	8.56	9.76	-	9.76	8.56
14	Udipta Energy And Equipment Private Limited	5.00	2	18.86%	3.80	7.98	3.03	-	3.03	7.98
15	Sunmark Energy Project Limited	10.00	5	18.86%	7.60	7.02	5.34	-	5.34	7.02
16	Acme (Magadh)	10.00	5	18.86%	7.60	8.73	6.63	-	6.63	8.73
17	Acme (Nalanda)	15.00	7	18.86%	11.40	8.73	9.95	-	9.95	8.73
18	Azure Power Eris Pvt. Ltd.	10.00	5	18.86%	7.60	8.39	6.38	-	6.38	8.39
19	Avada Power Eris Pvt Ltd	50.00	23	18.86%	38.00	4.16	15.81	-	15.81	4.16
20	Alfa Infra Prop Pvt. Ltd.	10.00	5	18.86%	7.60	7.96	6.05	-	6.05	7.96
21	SECI (Vivid Solaire Energy Pvt. Ltd.)	50.00	23	31.76%	61.97	2.52	15.61	-	15.61	2.52
22	SECI (Green Infra Wind Energy Pvt. Ltd.)	100.00	46	31.76%	123.44	2.51	30.98	-	30.98	2.51
23	SECI (Morjar Windfarms Pvt. Ltd.)	50.00	23	21.84%	42.44	2.19	9.27	-	9.27	2.19
24	SECI (Greenko Sironj Wind Power Pvt. Ltd.)	100.00	46	31.76%	123.44	2.71	33.45	-	33.45	2.71
25	PTC (Ostro Kutch Wind Private Limited)	50.00	23	31.76%	61.72	3.53	21.79	-	21.79	3.53
26	PTC (Green Infra Renewable Energy Limited)	50.00	23	31.76%	61.72	3.53	21.79	-	21.79	3.53
27	PTC (Mytrah Vayu Sabarmati Private Limited)	50.00	23	31.76%	61.72	3.53	21.79	-	21.79	3.53
28	SECI (Alfanar Energy Pvt. Ltd.)	50.00	23	31.76%	61.72	2.52	15.55	-	15.55	2.52

Sl. No	Particulars	Bihar share allocation (MW)	NBPDC share allocation (MW)	Avg PLF %	Units considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
29	SECI (Ostro Kannada Powerprivate Limited)	300.00	138	29.78%	347.22	2.18	75.87	-	75.87	2.18
30	Adani Solar	150.00	69	21.84%	127.32	2.72	34.63	-	34.63	2.72
31	Avada Clean	50.00	23	18.86%	38.00	3.11	11.82	-	11.82	3.11
32	Acme Deoghar/Acme Dhaulpur	150.00	69	21.84%	127.32	2.51	31.96	-	31.96	2.51
33	SBE Renewables Sixteen Pvt Ltd	180.00	83	21.84%	152.79	2.72	41.56	-	41.56	2.72
34	Adani Green Energy	600.00	276	16.52%	32.10	2.52	8.09	-	8.09	2.52
35	Greenko Energy Hybrid	210.00	97	14.54%	118.67	4.57	54.23	-	54.23	4.57
36	Floating Solar	10.00	5	18.86%	7.60	3.87	2.94	-	2.94	3.87
37	Canal Bank Solar	2.00	1	18.86%	1.52	3.10	0.47	-	0.47	3.10
38	Acme Solar Jaiselmer	500.00	230	21.84%	424.41	2.51	106.53	-	106.53	2.51
	Grand Total	12,976.00	5,971.00		20,906.57		5,384.74	4,523.64	9,908.39	4.74

Table 7.32: Power Purchase Cost for FY 2025-26 as computed by Commission for SBPDCL

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	Avg PLF %	Units considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
I	Stations with injection at CTU	7,206.00	3,890.00		16,379.45		4,227.46	4,299.13	8,526.59	5.21
1	NTPC(Barh-I)	1,153	623	62.57%	1,876.55	3.16	593.27	484.98	1,078.25	5.75
2	NTPC(Barh-II)	802	433	91.43%	1,906.74	3.10	591.82	861.77	1,453.59	7.62
3	NTPC (Darlipalli)	324	175	80.72%	1,234.96	1.27	156.46	220.71	377.17	3.05
4	NTPC (Farakka - I & II)	410	221	62.89%	671.01	3.44	230.49	109.16	339.65	5.06
5	NTPC (Farakka - III)	98	53	62.89%	159.09	3.39	53.92	56.27	110.19	6.93
6	NTPC (Kahalgaun - I)	52	28	68.68%	92.06	2.83	26.05	84.02	110.07	11.96
7	NTPC (Kahalgaun - II)	63	34	76.92%	127.41	2.64	33.66	21.68	55.35	4.34
8	NTPC (North Karanpura)	594	321	77.78%	2,184.01	1.62	353.18	299.04	652.21	2.99
9	NTPC (Talchar)	404	218	80.97%	1,547.10	1.89	291.80	157.62	449.42	2.90
10	NTPC (Kbunl-II)	289	156	76.94%	578.68	2.70	155.97	291.50	447.47	7.73
11	NTPC North Karanpur Unit #3	297	160	77.77%	1,092.68	1.62	176.70	130.21	306.91	2.81
12	Nabinagar Power Generation Company Limited	1,639	885	76.00%	3,241.76	2.95	957.15	1,463.83	2,420.98	7.47
13	Bhartiya Rail Bijlee Company Limited	100	54	68.49%	178.18	3.13	55.70	81.24	136.95	7.69
14	NHPC (Rangit)	23	12	61.90%	63.71	2.23	14.21	13.83	28.04	4.40
15	NHPC (Teesta)	107	58	59.50%	286.05	1.30	37.19	23.25	60.44	2.11
16	PTC (Tala)	260	140	13.83%	164.08	2.53	41.51	-	41.51	2.53
17	PTC (Chukha)	93	50	40.88%	173.67	3.39	58.87	-	58.87	3.39
18	PTC (Mangdechhu)	285	154	38.29%	496.99	4.67	232.09	-	232.09	4.67
19	PTC (Kuruchu)	4	2	4.96%	0.77	3.30	0.25	-	0.25	3.30
20	PTC(Nepal)	209	113	85.00%	303.95	5.50	167.17	-	167.17	5.50
II	Stations with injection at STU	1,732.00	942.00		2,742.51		827.77	810.41	1,638.19	5.97
1	NTPC (Barauni-II)	500.00	270	63.52%	1,290.13	2.52	325.45	353.66	679.12	5.26
2	Buxar TPP Unit #1	561.00	303	77.77%	1,135.18	3.48	395.20	365.40	760.60	6.70
3	Buxar TPP Unit #2	561.00	303	78.86%	283.80	3.48	98.80	91.35	190.15	6.70
4	BSHPC	55.00	33	7.11%	33.41	2.49	8.32	-	8.32	2.49
III	IPPs	488.00	263.00		1,989.38		249.56	500.28	749.84	3.77

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	Avg PLF %	Units considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
1	GMR Kamalanga Energy Limited	260.00	140	87.03%	1,070.30	1.30	138.90	202.62	341.52	3.19
2	Jindal India Thermal Power Limited	228.00	123	85.22%	919.08	1.20	110.65	297.67	408.32	4.44
IV	Renewables	3,605.00	1,943.00		3,431.17		1,016.43	-	1,016.43	2.96
1	Tirupati Sugar Limited	6.00	3	54.59%	14.18	7.52	10.66	-	10.66	7.52
2	Hasanpur Sugar Mill	10.00	5	50.33%	21.78	7.52	16.38	-	16.38	7.52
3	Bihar Distillers And Bottlers Private Limited	9.00	5	21.88%	8.90	8.21	7.31	-	7.31	8.21
4	Glatt Solution Private Limited	3.00	2	18.86%	2.68	7.02	1.88	-	1.88	7.02
5	SECI (Focal)	10.00	5	21.84%	9.96	5.91	5.89	-	5.89	5.91
6	SB Energy Six Private Limited (Ntpc)	300.00	162	28.95%	396.25	2.67	105.80	-	105.80	2.67
7	Responce Renewable Energy Private Limited	10.00	5	18.86%	8.60	7.02	6.04	-	6.04	7.02
8	SECI (Renew Sunwaves Private Limited)	300.00	162	27.97%	382.84	2.62	100.30	-	100.30	2.62
9	SECI (GRT Jewellers)	150.00	81	18.86%	129.07	2.60	33.56	-	33.56	2.60
10	Avantika Contractor (I) Pvt. Ltd.	5.00	3	18.86%	4.46	7.69	3.43	-	3.43	7.69
11	Welspun I	10.00	5	18.86%	8.92	8.69	7.75	-	7.75	8.69
12	Welspun II	15.00	8	18.86%	13.38	8.64	11.56	-	11.56	8.64
13	Welspun III	15.00	8	18.86%	13.38	8.56	11.46	-	11.46	8.56
14	Udipta Energy And Equipment Private Limited	5.00	3	18.86%	4.46	7.98	3.56	-	3.56	7.98
15	Sunmark Energy Project Limited	10.00	5	18.86%	8.92	7.02	6.26	-	6.26	7.02
16	Acme (Magadh)	10.00	5	18.86%	8.92	8.73	7.79	-	7.79	8.73
17	Acme (Nalanda)	15.00	8	18.86%	13.38	8.73	11.68	-	11.68	8.73
18	Azure Power Eris Pvt. Ltd.	10.00	5	18.86%	8.92	8.39	7.49	-	7.49	8.39
19	Avada Power Eris Pvt Ltd	50.00	27	18.86%	44.61	4.16	18.57	-	18.57	4.16
20	Alfa Infra Prop Pvt. Ltd.	10.00	5	18.86%	8.92	7.96	7.11	-	7.11	7.96
21	SECI (Vivid Solaire Energy Pvt. Ltd.)	50.00	27	31.76%	72.74	2.52	18.33	-	18.33	2.52
22	SECI (Green Infra Wind Energy Pvt. Ltd.)	100.00	54	31.76%	144.90	2.51	36.37	-	36.37	2.51
23	SECI (Morjar Windfarms Pvt. Ltd.)	50.00	27	21.84%	49.82	2.19	10.89	-	10.89	2.19
24	SECI (Greenko Sironj Wind Power Pvt. Ltd.)	100.00	54	31.76%	144.90	2.71	39.27	-	39.27	2.71
25	PTC (Ostro Kutch Wind Private Limited)	50.00	27	31.76%	72.45	3.53	25.58	-	25.58	3.53
26	PTC (Green Infra Renewable Energy Limited)	50.00	27	31.76%	72.45	3.53	25.58	-	25.58	3.53
27	PTC (Mytrah Vayu Sabarmati Private Limited)	50.00	27	31.76%	72.45	3.53	25.58	-	25.58	3.53
28	SECI (Alfanar Energy Pvt. Ltd.)	50.00	27	31.76%	72.45	2.52	18.26	-	18.26	2.52

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	Avg PLF %	Units considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
29	SECI (Ostro Kannada Powerprivate Limited)	300.00	162	29.78%	407.61	2.18	89.06	-	89.06	2.18
30	Adani Solar	150.00	81	21.84%	149.47	2.72	40.65	-	40.65	2.72
31	Avada Clean	50.00	27	18.86%	44.61	3.11	13.87	-	13.87	3.11
32	Acme Deoghar/Acme Dhaulpur	150.00	81	21.84%	149.47	2.51	37.52	-	37.52	2.51
33	SBE Renewables Sixteen Pvt Ltd	180.00	97	21.84%	179.36	2.72	48.79	-	48.79	2.72
34	Adani Green Energy	600.00	324	16.52%	37.69	2.52	9.50	-	9.50	2.52
35	Greenko Energy Hybrid	210.00	113	14.54%	139.31	4.57	63.66	-	63.66	4.57
36	Floating Solar	10.00	5	18.86%	8.92	3.87	3.45	-	3.45	3.87
37	Canal Bank Solar	2.00	1	18.86%	1.78	3.10	0.55	-	0.55	3.10
38	Acme Solar Jaiselmer	500.00	270	21.84%	498.22	2.51	125.05	-	125.05	2.51
	Grand Total	12,976.00	7,005.00		24,542.51		6,321.22	5,609.82	11,931.04	4.86

Table 7.33: Power Purchase Cost for FY 2026-27 as computed by Commission for NBPDC

Sl. No	Particulars	Bihar share allocation (MW)	NBPDC share allocation (MW)	Avg PLF %	Units considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
I	Stations with injection at CTU	7,206.00	3,316.00		14862.92		3976.28	3,553.92	7530.21	5.07
1	NTPC(Barh-I)	1,153	530	62.57%	1,598.54	3.26	520.54	400.20	920.74	5.76
2	NTPC(Barh-II)	802	369	91.43%	1,624.26	3.20	519.27	711.11	1,230.38	7.58
3	NTPC (Darlipalli)	324	149	80.72%	1,052.00	1.30	137.28	182.12	319.40	3.04
4	NTPC (Farakka - I & II)	410	189	62.89%	571.60	3.54	202.24	89.45	291.69	5.10
5	NTPC (Farakka - III)	98	45	62.89%	135.52	3.49	47.31	46.28	93.59	6.91
6	NTPC (Kahalgaun - I)	52	24	68.68%	142.58	2.91	41.55	69.33	110.89	7.78
7	NTPC (Kahalgaun - II)	63	29	76.92%	197.34	2.72	53.70	17.89	71.59	3.63
8	NTPC (North Karanpura)	594	273	77.78%	1,860.46	1.67	309.88	246.76	556.64	2.99
9	NTPC (Talchar)	404	186	80.97%	1,317.90	1.94	256.03	130.07	386.09	2.93
10	NTPC (Kbunl-II)	289	133	76.94%	896.28	2.78	248.81	240.54	489.36	5.46
11	NTPC North Karanpur Unit #3	297	137	77.77%	930.80	1.67	155.04	114.58	269.61	2.90
12	Nabinagar Power Generation Company Limited	1,639	754	76.00%	3118.84	3.04	948.48	1,207.93	2156.41	6.91
13	Bhartiya Rail Bijlee Company Limited	100	46	68.49%	151.79	3.22	48.87	67.05	115.92	7.64
14	NHPC (Rangit)	23	11	61.90%	55.19	2.35	13.00	11.42	24.42	4.42
15	NHPC (Teesta)	107	49	59.50%	239.19	1.37	32.70	19.19	51.89	2.17
16	PTC (Tala)	260	120	13.83%	139.77	2.67	37.33	-	37.33	2.67
17	PTC (Chukha)	93	43	40.88%	147.94	3.58	52.92	-	52.92	3.58
18	PTC (Mangdechhu)	285	131	38.29%	423.36	4.93	208.71	-	208.71	4.93
19	PTC (Kuruchu)	4	2	4.96%	0.66	3.49	0.23	-	0.23	3.49
20	PTC(Nepal)	209	96	85.00%	258.92	5.50	142.40	-	142.40	5.50
II	Stations with injection at STU	1,677.00	768.00		2,517.09		773.08	692.60	1,465.68	5.82
1	NTPC (Barauni-II)	500.00	230	63.52%	1,279.88	2.60	332.55	291.83	624.39	4.88
2	Buxar TPP Unit #1	561.00	258	77.77%	967.00	3.59	346.75	320.61	667.36	6.90
3	Buxar TPP Unit #2	561.00	258	78.86%	241.75	3.59	86.69	80.15	166.84	6.90
4	BSHPC	55.00	22	7.11%	28.46	2.49	7.09		7.09	2.49

Sl. No	Particulars	Bihar share allocation (MW)	NBPDC share allocation (MW)	Avg PLF %	Units considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
III	IPPs	488.00	225.00		1,694.65		218.96	412.83	631.79	3.73
1	GMR Kamalanga Energy Limited	260.00	120	87.03%	911.73	1.34	121.87	167.20	289.07	3.17
2	Jindal India Thermal Power Limited	228.00	105	85.22%	782.92	1.24	97.09	245.63	342.72	4.38
IV	Renewables	3,605.00	1,662.00		3,274.43		953.67	-	953.67	2.91
1	Tirupati Sugar Limited	6.00	3	54.59%	12.08	7.52	9.08	-	9.08	7.52
2	Hasanpur Sugar Mill	10.00	5	50.33%	17.01	7.52	12.79	-	12.79	7.52
3	Bihar Distillers And Bottlers Private Limited	9.00	4	21.88%	7.58	8.21	6.23	-	6.23	8.21
4	Glatt Solution Private Limited	3.00	1	18.86%	2.28	7.02	1.60	-	1.60	7.02
5	SECI (Focal)	10.00	5	21.84%	8.49	5.91	5.02	-	5.02	5.91
6	SB Energy Six Private Limited (Ntpc)	300.00	138	28.95%	337.55	2.67	90.12	-	90.12	2.67
7	Responce Renewable Energy Private Limited	10.00	5	18.86%	7.33	7.02	5.15	-	5.15	7.02
8	SECI (Renew Sunwaves Private Limited)	300.00	138	27.97%	326.12	2.62	85.44	-	85.44	2.62
9	SECI (GRT Jewellers)	150.00	69	18.86%	109.95	2.60	28.59	-	28.59	2.60
10	Avantika Contractor (I) Pvt. Ltd.	5.00	2	18.86%	3.80	7.69	2.92	-	2.92	7.69
11	Welspun I	10.00	5	18.86%	7.60	8.69	6.61	-	6.61	8.69
12	Welspun II	15.00	7	18.86%	11.40	8.64	9.85	-	9.85	8.64
13	Welspun III	15.00	7	18.86%	11.40	8.56	9.76	-	9.76	8.56
14	Udipta Energy And Equipment Private Limited	5.00	2	18.86%	3.80	7.98	3.03	-	3.03	7.98
15	Sunmark Energy Project Limited	10.00	5	18.86%	7.60	7.02	5.34	-	5.34	7.02
16	Acme (Magadh)	10.00	5	18.86%	7.60	8.73	6.63	-	6.63	8.73
17	Acme (Nalanda)	15.00	7	18.86%	11.40	8.73	9.95	-	9.95	8.73
18	Azure Power Eris Pvt. Ltd.	10.00	5	18.86%	7.60	8.39	6.38	-	6.38	8.39
19	Avada Power Eris Pvt Ltd	50.00	23	18.86%	38.00	4.16	15.81	-	15.81	4.16
20	Alfa Infra Prop Pvt. Ltd.	10.00	5	18.86%	7.60	7.96	6.05	-	6.05	7.96
21	SECI (Vivid Solaire Energy Pvt. Ltd.)	50.00	23	31.76%	61.97	2.52	15.61	-	15.61	2.52
22	SECI (Green Infra Wind Energy Pvt. Ltd.)	100.00	46	31.76%	123.44	2.51	30.98	-	30.98	2.51
23	SECI (Morjar Windfarms Pvt. Ltd.)	50.00	23	21.84%	42.44	2.19	9.27	-	9.27	2.19
24	SECI (Greenko Sironj Wind Power Pvt. Ltd.)	100.00	46	31.76%	123.44	2.71	33.45	-	33.45	2.71
25	PTC (Ostro Kutch Wind Private Limited)	50.00	23	31.76%	61.72	3.53	21.79	-	21.79	3.53
26	PTC (Green Infra Renewable Energy Limited)	50.00	23	31.76%	61.72	3.53	21.79	-	21.79	3.53

Sl. No	Particulars	Bihar share allocation (MW)	NBPDC share allocation (MW)	Avg PLF %	Units considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
27	PTC (Mytrah Vayu Sabarmati Private Limited)	50.00	23	31.76%	61.72	3.53	21.79	-	21.79	3.53
28	SECI (Alfanar Energy Pvt. Ltd.)	50.00	23	31.76%	61.72	2.52	15.55	-	15.55	2.52
29	SECI (Ostro Kannada Powerprivate Limited)	300.00	138	29.78%	347.22	2.18	75.87	-	75.87	2.18
30	Adani Solar	150.00	69	21.84%	127.32	2.72	34.63	-	34.63	2.72
31	Avada Clean	50.00	23	18.86%	38.00	3.11	11.82	-	11.82	3.11
32	Acme Deoghar/Acme Dhaulpur	150.00	69	21.84%	127.32	2.51	31.96	-	31.96	2.51
33	SBE Renewables Sixteen Pvt Ltd	180.00	83	21.84%	152.79	2.72	41.56	-	41.56	2.72
34	Adani Green Energy	600.00	276	16.52%	385.23	2.52	97.08	-	97.08	2.52
35	Greenko Energy Hybrid	210.00	97	14.54%	118.67	4.57	54.23	-	54.23	4.57
36	Floating Solar	10.00	5	18.86%	7.60	3.87	2.94	-	2.94	3.87
37	Canal Bank Solar	2.00	1	18.86%	1.52	3.10	0.47	-	0.47	3.10
38	Acme Solar Jaiselmer	500.00	230	21.84%	424.41	2.51	106.53	-	106.53	2.51
	Grand Total	12,976.00	5,971.00		22349.10		5922.00	4,659.35	10581.35	4.73

Table 7.34: Power Purchase Cost for FY 2026-27 as computed by Commission for SBPDCL

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	Avg PLF %	Units considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
I	Stations with injection at CTU	7,206.00	3,890.00		17447.78		4667.81	4,428.10	9095.91	5.21
1	NTPC(Barh-I)	1,153	623	62.57%	1,876.55	3.26	611.07	499.53	1,110.59	5.92
2	NTPC(Barh-II)	802	433	91.43%	1,906.74	3.20	609.58	887.62	1,497.20	7.85
3	NTPC (Darlipalli)	324	175	80.72%	1,234.96	1.30	161.15	227.33	388.48	3.15
4	NTPC (Farakka - I & II)	410	221	62.89%	671.01	3.54	237.41	112.43	349.84	5.21
5	NTPC (Farakka - III)	98	53	62.89%	159.09	3.49	55.54	57.96	113.50	7.13
6	NTPC (Kahalgaun - I)	52	28	68.68%	167.37	2.91	48.78	86.54	135.33	8.09
7	NTPC (Kahalgaun - II)	63	34	76.92%	231.66	2.72	63.04	22.34	85.38	3.69
8	NTPC (North Karanpura)	594	321	77.78%	2,184.01	1.67	363.77	308.01	671.78	3.08
9	NTPC (Talchar)	404	218	80.97%	1,547.10	1.94	300.55	162.35	462.90	2.99
10	NTPC (Kbunl-II)	289	156	76.94%	1,052.15	2.78	292.09	300.25	592.33	5.63
11	NTPC North Karanpur Unit #3	297	160	77.77%	1,092.68	1.67	182.00	134.12	316.12	2.89
12	Nabinagar Power Generation Company Limited	1,639	885	76.00%	3661.24	3.04	1113.43	1,507.74	2621.18	7.16
13	Bhartiya Rail Bijlee Company Limited	100	54	68.49%	178.18	3.22	57.37	83.68	141.05	7.92
14	NHPC (Rangit)	23	12	61.90%	64.79	2.35	15.26	14.25	29.51	4.55
15	NHPC (Teesta)	107	58	59.50%	280.79	1.37	38.39	23.95	62.34	2.22
16	PTC (Tala)	260	140	13.83%	164.08	2.67	43.82	-	43.82	2.67
17	PTC (Chukha)	93	50	40.88%	173.67	3.58	62.12	-	62.12	3.58
18	PTC (Mangdechhu)	285	154	38.29%	496.99	4.93	245.01	-	245.01	4.93
19	PTC (Kuruchu)	4	2	4.96%	0.77	3.49	0.27	-	0.27	3.49
20	PTC(Nepal)	209	113	85.00%	303.95	5.50	167.17	-	167.17	5.50
II	Stations with injection at STU	1,677.00	909.00		2,954.85		907.53	834.72	1,742.25	5.90
1	NTPC (Barauni-II)	500.00	270	63.52%	1,502.47	2.60	390.39	364.27	754.66	5.02
2	Buxar TPP Unit #1	561.00	303	77.77%	1,135.18	3.59	407.06	376.36	783.42	6.90
3	Buxar TPP Unit #2	561.00	303	78.86%	283.80	3.59	101.76	94.09	195.86	6.90
4	BSHPC	55.00	33	7.11%	33.41	2.49	8.32	-	8.32	2.49
III	IPPs	488.00	263.00		1,989.38		257.04	515.29	772.34	3.88

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	Avg PLF %	Units considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
1	GMR Kamalanga Energy Limited	260.00	140	87.03%	1,070.30	1.34	143.07	208.69	351.76	3.29
2	Jindal India Thermal Power Limited	228.00	123	85.22%	919.08	1.24	113.97	306.60	420.57	4.58
IV	Renewables	3,605.00	1,943.00		3,843.90		1,119.53	-	1,119.53	2.91
1	Tirupati Sugar Limited	6.00	3	54.59%	14.18	7.52	10.66	-	10.66	7.52
2	Hasanpur Sugar Mill	10.00	5	50.33%	19.97	7.52	15.02	-	15.02	7.52
3	Bihar Distillers And Bottlers Private Limited	9.00	5	21.88%	8.90	8.21	7.31	-	7.31	8.21
4	Glatt Solution Private Limited	3.00	2	18.86%	2.68	7.02	1.88	-	1.88	7.02
5	SECI (Focal)	10.00	5	21.84%	9.96	5.91	5.89	-	5.89	5.91
6	SB Energy Six Private Limited (Ntpc)	300.00	162	28.95%	396.25	2.67	105.80	-	105.80	2.67
7	Responce Renewable Energy Private Limited	10.00	5	18.86%	8.60	7.02	6.04	-	6.04	7.02
8	SECI (Renew Sunwaves Private Limited)	300.00	162	27.97%	382.84	2.62	100.30	-	100.30	2.62
9	SECI (GRT Jewellers)	150.00	81	18.86%	129.07	2.60	33.56	-	33.56	2.60
10	Avantika Contractor (I) Pvt. Ltd.	5.00	3	18.86%	4.46	7.69	3.43	-	3.43	7.69
11	Welspun I	10.00	5	18.86%	8.92	8.69	7.75	-	7.75	8.69
12	Welspun II	15.00	8	18.86%	13.38	8.64	11.56	-	11.56	8.64
13	Welspun III	15.00	8	18.86%	13.38	8.56	11.46	-	11.46	8.56
14	Udipta Energy And Equipment Private Limited	5.00	3	18.86%	4.46	7.98	3.56	-	3.56	7.98
15	Sunmark Energy Project Limited	10.00	5	18.86%	8.92	7.02	6.26	-	6.26	7.02
16	Acme (Magadh)	10.00	5	18.86%	8.92	8.73	7.79	-	7.79	8.73
17	Acme (Nalanda)	15.00	8	18.86%	13.38	8.73	11.68	-	11.68	8.73
18	Azure Power Eris Pvt. Ltd.	10.00	5	18.86%	8.92	8.39	7.49	-	7.49	8.39
19	Avada Power Eris Pvt Ltd	50.00	27	18.86%	44.61	4.16	18.57	-	18.57	4.16
20	Alfa Infra Prop Pvt. Ltd.	10.00	5	18.86%	8.92	7.96	7.11	-	7.11	7.96
21	SECI (Vivid Solaire Energy Pvt. Ltd.)	50.00	27	31.76%	72.74	2.52	18.33	-	18.33	2.52
22	SECI (Green Infra Wind Energy Pvt. Ltd.)	100.00	54	31.76%	144.90	2.51	36.37	-	36.37	2.51
23	SECI (Morjar Windfarms Pvt. Ltd.)	50.00	27	21.84%	49.82	2.19	10.89	-	10.89	2.19
24	SECI (Greenko Sironj Wind Power Pvt. Ltd.)	100.00	54	31.76%	144.90	2.71	39.27	-	39.27	2.71
25	PTC (Ostro Kutch Wind Private Limited)	50.00	27	31.76%	72.45	3.53	25.58	-	25.58	3.53
26	PTC (Green Infra Renewable Energy Limited)	50.00	27	31.76%	72.45	3.53	25.58	-	25.58	3.53
27	PTC (Mytrah Vayu Sabarmati Private Limited)	50.00	27	31.76%	72.45	3.53	25.58	-	25.58	3.53
28	SECI (Alfanar Energy Pvt. Ltd.)	50.00	27	31.76%	72.45	2.52	18.26	-	18.26	2.52

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	Avg PLF %	Units considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
29	SECI (Ostro Kannada Powerprivate Limited)	300.00	162	29.78%	407.61	2.18	89.06	-	89.06	2.18
30	Adani Solar	150.00	81	21.84%	149.47	2.72	40.65	-	40.65	2.72
31	Avada Clean	50.00	27	18.86%	44.61	3.11	13.87	-	13.87	3.11
32	Acme Deoghar/Acme Dhaulpur	150.00	81	21.84%	149.47	2.51	37.52	-	37.52	2.51
33	SBE Renewables Sixteen Pvt Ltd	180.00	97	21.84%	179.36	2.72	48.79	-	48.79	2.72
34	Adani Green Energy	600.00	324	16.52%	452.23	2.52	113.96	-	113.96	2.52
35	Greenko Energy Hybrid	210.00	113	14.54%	139.31	4.57	63.66	-	63.66	4.57
36	Floating Solar	10.00	5	18.86%	8.92	3.87	3.45	-	3.45	3.87
37	Canal Bank Solar	2.00	1	18.86%	1.78	3.10	0.55	-	0.55	3.10
38	Acme Solar Jaiselmer	500.00	270	21.84%	498.22	2.51	125.05	-	125.05	2.51
	Grand Total	12,976.00	7,005.00		26235.91		6951.91	5,778.12	12730.03	4.85

Table 7.35: Power Purchase Cost for FY 2027-28 as computed by Commission for NBPDC

Sl. No	Particulars	Bihar share allocation (MW)	NBPDC share allocation (MW)	Avg PLF %	Units Considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
I	Stations with injection at CTU	7,206.00	3,316.00		16547.17		4628.18	3,660.54	8288.72	5.01
1	NTPC(Barh-I)	1,153	530	62.57%	1,598.54	3.35	536.15	412.21	948.36	5.93
2	NTPC(Barh-II)	802	369	91.43%	1,624.26	3.29	534.85	732.45	1,267.29	7.80
3	NTPC (Darlipalli)	324	149	80.72%	1,052.00	1.34	141.39	187.59	328.98	3.13
4	NTPC (Farakka - I & II)	410	189	62.89%	571.60	3.64	208.30	92.13	300.44	5.26
5	NTPC (Farakka - III)	98	45	62.89%	135.52	3.60	48.73	47.67	96.40	7.11
6	NTPC (Kahalgaun - I)	52	24	68.68%	142.58	3.00	42.80	71.41	114.21	8.01
7	NTPC (Kahalgaun - II)	63	29	76.92%	197.34	2.80	55.31	18.42	73.74	3.74
8	NTPC (North Karanpura)	594	273	77.78%	1,860.46	1.72	319.18	254.16	573.34	3.08
9	NTPC (Talchar)	404	186	80.97%	1,317.90	2.00	263.71	133.97	397.68	3.02
10	NTPC (Kbunl-II)	289	133	76.94%	896.28	2.86	256.28	247.76	504.04	5.62
11	NTPC North Karanpur Unit #3	297	137	77.77%	930.80	1.72	159.69	118.01	277.70	2.98
12	Nabinagar Power Generation Company Limited	1,639	754	76.00%	4806.07	3.13	1505.44	1,244.17	2749.61	5.72
13	Bhartiya Rail Bijlee Company Limited	100	46	68.49%	151.79	3.32	50.34	69.06	119.40	7.87
14	NHPC (Rangit)	23	11	61.90%	54.62	2.49	13.58	11.76	25.34	4.64
15	NHPC (Teesta)	107	49	59.50%	236.78	1.44	34.18	19.76	53.94	2.28
16	PTC (Tala)	260	120	13.83%	139.77	2.82	39.41	-	39.41	2.82
17	PTC (Chukha)	93	43	40.88%	147.94	3.78	55.86	-	55.86	3.78
18	PTC (Mangdechhu)	285	131	38.29%	423.36	5.20	220.34	-	220.34	5.20
19	PTC (Kuruchu)	4	2	4.96%	0.66	3.68	0.24	-	0.24	3.68
20	PTC(Nepal)	209	96	85.00%	258.92	5.50	142.40	-	142.40	5.50
II	Stations with injection at STU	1,677.00	768.00		2,517.09		796.06	713.38	1,509.44	6.00
1	NTPC (Barauni-II)	500.00	230	63.52%	1,279.88	2.68	342.53	300.59	643.12	5.02
2	Buxar TPP Unit #1	561.00	258	77.77%	967.00	3.69	357.15	330.23	687.38	7.11
3	Buxar TPP Unit #2	561.00	258	78.86%	241.75	3.69	89.29	82.56	171.85	7.11
4	BSHPC	55.00	22	7.11%	28.46	2.49	7.09	-	7.09	2.49
III	IPPs	488.00	225.00		1,694.65		225.53	425.22	650.75	3.84

Sl. No	Particulars	Bihar share allocation (MW)	NBPDC share allocation (MW)	Avg PLF %	Units Considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
1	GMR Kamalanga Energy Limited	260.00	120	87.03%	911.73	1.38	125.53	172.21	297.74	3.27
2	Jindal India Thermal Power Limited	228.00	105	85.22%	782.92	1.28	100.00	253.00	353.00	4.51
IV	Renewables	3,595.00	1,657.00		3,257.42		940.88	-	940.88	2.89
1	Tirupati Sugar Limited	6.00	3	54.59%	12.08	7.52	9.08	-	9.08	7.52
2	Bihar Distillers And Bottlers Private Limited	9.00	4	21.88%	7.58	8.21	6.23	-	6.23	8.21
3	Glatt Solution Private Limited	3.00	1	18.86%	2.28	7.02	1.60	-	1.60	7.02
4	SECI (Focal)	10.00	5	21.84%	8.49	5.91	5.02	-	5.02	5.91
5	SB Energy Six Private Limited (Ntpc)	300.00	138	28.95%	337.55	2.67	90.12	-	90.12	2.67
6	Responce Renewable Energy Private Limited	10.00	5	18.86%	7.33	7.02	5.15	-	5.15	7.02
7	SECI (Renew Sunwaves Private Limited)	300.00	138	27.97%	326.12	2.62	85.44	-	85.44	2.62
8	SECI (GRT Jewellers)	150.00	69	18.86%	109.95	2.60	28.59	-	28.59	2.60
9	Avantika Contractor (I) Pvt. Ltd.	5.00	2	18.86%	3.80	7.69	2.92	-	2.92	7.69
10	Welspun I	10.00	5	18.86%	7.60	8.69	6.61	-	6.61	8.69
11	Welspun II	15.00	7	18.86%	11.40	8.64	9.85	-	9.85	8.64
12	Welspun III	15.00	7	18.86%	11.40	8.56	9.76	-	9.76	8.56
13	Udipta Energy And Equipment Private Limited	5.00	2	18.86%	3.80	7.98	3.03	-	3.03	7.98
14	Sunmark Energy Project Limited	10.00	5	18.86%	7.60	7.02	5.34	-	5.34	7.02
15	Acme (Magadh)	10.00	5	18.86%	7.60	8.73	6.63	-	6.63	8.73
16	Acme (Nalanda)	15.00	7	18.86%	11.40	8.73	9.95	-	9.95	8.73
17	Azure Power Eris Pvt. Ltd.	10.00	5	18.86%	7.60	8.39	6.38	-	6.38	8.39
18	Avada Power Eris Pvt Ltd	50.00	23	18.86%	38.00	4.16	15.81	-	15.81	4.16
19	Alfa Infra Prop Pvt. Ltd.	10.00	5	18.86%	7.60	7.96	6.05	-	6.05	7.96
20	SECI (Vivid Solaire Energy Pvt. Ltd.)	50.00	23	31.76%	61.97	2.52	15.61	-	15.61	2.52
21	SECI (Green Infra Wind Energy Pvt. Ltd.)	100.00	46	31.76%	123.44	2.51	30.98	-	30.98	2.51
22	SECI (Morjar Windfarms Pvt. Ltd.)	50.00	23	21.84%	42.44	2.19	9.27	-	9.27	2.19
23	SECI (Greenko Sironj Wind Power Pvt. Ltd.)	100.00	46	31.76%	123.44	2.71	33.45	-	33.45	2.71
24	PTC (Ostro Kutch Wind Private Limited)	50.00	23	31.76%	61.72	3.53	21.79	-	21.79	3.53
25	PTC (Green Infra Renewable Energy Limited)	50.00	23	31.76%	61.72	3.53	21.79	-	21.79	3.53
26	PTC (Mytrah Vayu Sabarmati Private Limited)	50.00	23	31.76%	61.72	3.53	21.79	-	21.79	3.53
27	SECI (Alfanar Energy Pvt. Ltd.)	50.00	23	31.76%	61.72	2.52	15.55	-	15.55	2.52
28	SECI (Ostro Kannada Powerprivate Limited)	300.00	138	29.78%	347.22	2.18	75.87	-	75.87	2.18

Sl. No	Particulars	Bihar share allocation (MW)	NBPDC share allocation (MW)	Avg PLF %	Units Considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
29	Adani Solar	150.00	69	21.84%	127.32	2.72	34.63	-	34.63	2.72
30	Avada Clean	50.00	23	18.86%	38.00	3.11	11.82	-	11.82	3.11
31	Acme Deoghar/Acme Dhaulpur	150.00	69	21.84%	127.32	2.51	31.96	-	31.96	2.51
32	SBE Renewables Sixteen Pvt Ltd	180.00	83	21.84%	152.79	2.72	41.56	-	41.56	2.72
33	Adani Green Energy	600.00	276	16.52%	385.23	2.52	97.08	-	97.08	2.52
34	Greenko Energy Hybrid	210.00	97	14.54%	118.67	4.57	54.23	-	54.23	4.57
35	Floating Solar	10.00	5	18.86%	7.60	3.87	2.94	-	2.94	3.87
36	Canal Bank Solar	2.00	1	18.86%	1.52	3.10	0.47	-	0.47	3.10
37	Acme Solar Jaiselmer	500.00	230	21.84%	424.41	2.51	106.53	-	106.53	2.51
	Grand Total	12,966.00	5,966.00		24016.34		6590.65	4,799.13	11389.78	4.74

Table 7.36: Power Purchase Cost for FY 2027-28 as computed by Commission for SBPDCL

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	Avg PLF %	Unit Considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
I	Stations with injection at CTU	7,206.00	3,890.00		19424.94		5433.08	4,560.94	9994.02	5.14
1	NTPC(Barh-I)	1,153	623	62.57%	1,876.55	3.35	629.40	514.52	1,143.91	6.10
2	NTPC(Barh-II)	802	433	91.43%	1,906.74	3.29	627.86	914.25	1,542.11	8.09
3	NTPC (Darlipalli)	324	175	80.72%	1,234.96	1.34	165.99	234.15	400.14	3.24
4	NTPC (Farakka - I & II)	410	221	62.89%	671.01	3.64	244.53	115.80	360.33	5.37
5	NTPC (Farakka - III)	98	53	62.89%	159.09	3.60	57.20	59.70	116.90	7.35
6	NTPC (Kahalgaun - I)	52	28	68.68%	167.37	3.00	50.24	89.14	139.38	8.33
7	NTPC (Kahalgaun - II)	63	34	76.92%	231.66	2.80	64.93	23.01	87.94	3.80
8	NTPC (North Karanpura)	594	321	77.78%	2,184.01	1.72	374.69	317.25	691.93	3.17
9	NTPC (Talchar)	404	218	80.97%	1,547.10	2.00	309.57	167.22	476.79	3.08
10	NTPC (Kbunl-II)	289	156	76.94%	1,052.15	2.86	300.85	309.26	610.10	5.80
11	NTPC North Karanpur Unit #3	297	160	77.77%	1,092.68	1.72	187.46	138.14	325.60	2.98
12	Nabinagar Power Generation Company Limited	1,639	885	76.00%	5641.91	3.13	1767.25	1,552.98	3320.23	5.88
13	Bhartiya Rail Bijlee Company Limited	100	54	68.49%	178.18	3.32	59.09	86.19	145.29	8.15

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	Avg PLF %	Unit Considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
14	NHPC (Rangit)	23	12	61.90%	64.11	2.49	15.94	14.68	30.61	4.77
15	NHPC (Teesta)	107	58	59.50%	277.96	1.44	40.12	24.67	64.79	2.33
16	PTC (Tala)	260	140	13.83%	164.08	2.82	46.26	-	46.26	2.82
17	PTC (Chukha)	93	50	40.88%	173.67	3.78	65.58	-	65.58	3.78
18	PTC (Mangdechhu)	285	154	38.29%	496.99	5.20	258.66	-	258.66	5.20
19	PTC (Kuruchu)	4	2	4.96%	0.77	3.68	0.28	-	0.28	3.68
20	PTC(Nepal)	209	113	85.00%	303.95	5.50	167.17	-	167.17	5.50
II	Stations with injection at STU	1,677.00	909.00		2,954.85		934.51	859.77	1,794.27	6.07
1	NTPC (Barauni-II)	500.00	270	63.52%	1,502.47	2.68	402.10	375.20	777.30	5.17
2	Buxar TPP Unit #1	561.00	303	77.77%	1,135.18	3.69	419.27	387.65	806.92	7.11
3	Buxar TPP Unit #2	561.00	303	78.86%	283.80	3.69	104.82	96.91	201.73	7.11
4	BSHPC	55.00	33	7.11%	33.41	2.49	8.32	-	8.32	2.49
III	IPPs	488.00	263.00		1,989.38		264.75	530.75	795.51	4.00
1	GMR Kamalanga Energy Limited	260.00	140	87.03%	1,070.30	1.38	147.36	214.95	362.32	3.39
2	Jindal India Thermal Power Limited	228.00	123	85.22%	919.08	1.28	117.39	315.80	433.19	4.71
IV	Renewables	3,595.00	1,938.00		3,823.93		1,104.51	-	1,104.51	2.89
1	Tirupati Sugar Limited	6.00	3	54.59%	14.18	7.52	10.66	-	10.66	7.52
2	Bihar Distillers And Bottlers Private Limited	9.00	5	21.88%	8.90	8.21	7.31	-	7.31	8.21
3	Glatt Solution Private Limited	3.00	2	18.86%	2.68	7.02	1.88	-	1.88	7.02
4	SECI (Focal)	10.00	5	21.84%	9.96	5.91	5.89	-	5.89	5.91
5	SB Energy Six Private Limited (Ntpc)	300.00	162	28.95%	396.25	2.67	105.80	-	105.80	2.67
6	Responce Renewable Energy Private Limited	10.00	5	18.86%	8.60	7.02	6.04	-	6.04	7.02
7	SECI (Renew Sunwaves Private Limited)	300.00	162	27.97%	382.84	2.62	100.30	-	100.30	2.62
8	SECI (GRT Jewellers)	150.00	81	18.86%	129.07	2.60	33.56	-	33.56	2.60
9	Avantika Contractor (I) Pvt. Ltd.	5.00	3	18.86%	4.46	7.69	3.43	-	3.43	7.69
10	Welspun I	10.00	5	18.86%	8.92	8.69	7.75	-	7.75	8.69
11	Welspun II	15.00	8	18.86%	13.38	8.64	11.56	-	11.56	8.64
12	Welspun III	15.00	8	18.86%	13.38	8.56	11.46	-	11.46	8.56
13	Udipta Energy And Equipment Private Limited	5.00	3	18.86%	4.46	7.98	3.56	-	3.56	7.98

Sl. No	Particulars	Bihar share allocation (MW)	SBPDCL share allocation (MW)	Avg PLF %	Unit Considered (MU)	Energy Cost (RS/kwh)	Total Energy Cost (RS. Crs)	Total Fixed cost (Rs. Crs)	Total Cost (RS. Crs)	Avg. Tariff (Rs. /kwh)
14	Sunmark Energy Project Limited	10.00	5	18.86%	8.92	7.02	6.26	-	6.26	7.02
15	Acme (Magadh)	10.00	5	18.86%	8.92	8.73	7.79	-	7.79	8.73
16	Acme (Nalanda)	15.00	8	18.86%	13.38	8.73	11.68	-	11.68	8.73
17	Azure Power Eris Pvt. Ltd.	10.00	5	18.86%	8.92	8.39	7.49	-	7.49	8.39
18	Avada Power Eris Pvt Ltd	50.00	27	18.86%	44.61	4.16	18.57	-	18.57	4.16
19	Alfa Infra Prop Pvt. Ltd.	10.00	5	18.86%	8.92	7.96	7.11	-	7.11	7.96
20	SECI (Vivid Solaire Energy Pvt. Ltd.)	50.00	27	31.76%	72.74	2.52	18.33	-	18.33	2.52
21	SECI (Green Infra Wind Energy Pvt. Ltd.)	100.00	54	31.76%	144.90	2.51	36.37	-	36.37	2.51
22	SECI (Morjar Windfarms Pvt. Ltd.)	50.00	27	21.84%	49.82	2.19	10.89	-	10.89	2.19
23	SECI (Greenko Sironj Wind Power Pvt. Ltd.)	100.00	54	31.76%	144.90	2.71	39.27	-	39.27	2.71
24	PTC (Ostro Kutch Wind Private Limited)	50.00	27	31.76%	72.45	3.53	25.58	-	25.58	3.53
25	PTC (Green Infra Renewable Energy Limited)	50.00	27	31.76%	72.45	3.53	25.58	-	25.58	3.53
26	PTC (Mytrah Vayu Sabarmati Private Limited)	50.00	27	31.76%	72.45	3.53	25.58	-	25.58	3.53
27	SECI (Alfanar Energy Pvt. Ltd.)	50.00	27	31.76%	72.45	2.52	18.26	-	18.26	2.52
28	SECI (Ostro Kannada Powerprivate Limited)	300.00	162	29.78%	407.61	2.18	89.06	-	89.06	2.18
29	Adani Solar	150.00	81	21.84%	149.47	2.72	40.65	-	40.65	2.72
30	Avada Clean	50.00	27	18.86%	44.61	3.11	13.87	-	13.87	3.11
31	Acme Deoghar/Acme Dhaulpur	150.00	81	21.84%	149.47	2.51	37.52	-	37.52	2.51
32	SBE Renewables Sixteen Pvt Ltd	180.00	97	21.84%	179.36	2.72	48.79	-	48.79	2.72
33	Adani Green Energy	600.00	324	16.52%	452.23	2.52	113.96	-	113.96	2.52
34	Greenko Energy Hybrid	210.00	113	14.54%	139.31	4.57	63.66	-	63.66	4.57
35	Floating Solar	10.00	5	18.86%	8.92	3.87	3.45	-	3.45	3.87
36	Canal Bank Solar	2.00	1	18.86%	1.78	3.10	0.55	-	0.55	3.10
37	Acme Solar Jaiselmer	500.00	270	21.84%	498.22	2.51	125.05	-	125.05	2.51
	Grand Total	12,966.00	7,000.00		28193.10		7736.85	5,951.46	13688.31	4.86

7.10 Transmission Charges

Petitioners' submission

The Petitioners submitted that the DISCOMs have to pay transmission charges to CTU for use of transmission facilities enabling power drawl from inter-state Generator. Further the Petitioners have to pay BSPTCL, BGCL and SLDC charges as approved by the Commission for FY 2025-26 to 2027-28.

The Petitioners have requested the Commission to approve the transmission and related charges for inter-state as well as intra-state transmission transactions for FY 2025-26 to 2027-28 as per the table below:

Table 7.37 Transmission charges projected for FY 2025-26 to 2027-28 (in INR Crore)

Particulars	FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
Total	1,915.02	2,106.52	2,317.17	2,248.06	2,472.87	2,720.16
PGCIL	1,140.13	1,254.15	1,379.56	1,338.42	1,472.26	1,619.49
BSPTCL (including SLDC)	651.06	716.16	787.78	764.29	840.71	924.79
BGCL	118.02	129.82	142.81	138.55	152.40	167.64
ERLDC (POSCO)	5.80	6.38	7.02	6.81	7.49	8.24

Commission's analysis

The Commission observed that Petitioners have estimated the PGCIL and POSCO transmission charges with an escalation of 10.00% over that of actuals of FY 2023-24, without any valid explanation. The Commission has reviewed the charges paid in past and decides to considers a 3% growth on the amount approves for FY 2024-25, under review, for the control period (i.e. FY 2025-26 to 2027-28). Whereas Commission consider POSCO charges as projected by the Petitioner.

Therefore, the Commission approves the PGCIL and POSCO charges as shown in below for FY 2025-26 to 2027-28.

Table 7.38: PGCIL and POSOCO Charges approved for FY 2025-26 to 2027-28**(Rs.Crore)**

Sl. No	Particulars	FY 2025-26	FY 2026-27	FY 2027-28
	SBPDCL			
1	PGCIL Charges	1,224.14	1,260.86	1,298.69
2	Grid India (POSOCO) Charges	6.81	7.49	8.24
3	Total	1,230.95	1,268.35	1,306.93
	NBPDC			
1	PGCIL Charges	949.00	977.47	1,006.79
2	Grid India (POSOCO) Charges	5.80	6.38	7.02
3	Total	954.80	983.85	1,013.81

BSPTCL Transmission Charges

The Commission has approved the transmission charges of BSPTCL for FY 2025-26 to 2027-28 in BSPTCL Tariff Order dated 28th March 2025 as given in the Table below. The Commission has allocated the approved cost among SBPDCL and NBPDC in their power purchase sharing ratio of 54:46 respectively. Accordingly, the Commission has considered the BSPTCL Transmission charges for FY 2025-26 to 2027-28 and included the same in the power purchase cost of Discoms.

Table 7.39: BSPTCL Charges approved for Discoms for FY 2025-26 to 2027-28**(Rs. Crore)**

Sl. No	Particulars	FY 2025-26	FY 2026-27	FY 2027-28
	BSPTCL Charges approved in its Tariff Order for FY 2025-26	1,562.40	1,891.66	2,038.26
1	SBPDCL (54%)	843.70	1,021.50	1,100.66
2	NBPDC (46%)	718.70	870.16	937.60

Bihar Grid Company Limited (BGCL) Transmission Charges

The Commission has approved the transmission charges of for FY 2025-26 to FY 2027-28 in BGCL Tariff Order dated 28th March 2025 as given in the Table below. The Commission has allocated the approved cost to SBPDCL and NBPDC in their power purchase sharing ratio of 54:46 respectively. Accordingly, the Commission has considered the BGCL transmission charges for FY 2025-26 to FY 2027-28 and included the same in the Power purchase cost of Discoms.

Table 7.40: BGCL Charges approved for Discoms for FY 2025-26 to 2027-28**(Rs. Crore)**

Sl. No	Particulars	FY 2025-26	FY 2026-27	FY 2027-28
	BGCL Charges approved in its Tariff Order for FY 2025-26	324.11	474.43	460.42
1	SBPDCL (54%)	175.02	256.19	248.63
2	NBPDCCL (46%)	149.09	218.24	211.79

SLDC Charges

The Commission has approved the SLDC charges for FY 2025-26 to FY 2027-28 in SLDC Tariff Order dated 28th March 2025 as given in Table below. The Commission has allocated the SLDC charges to SBPDCL and NBPDCCL as per their contracted / allocated capacity, as submitted by SLDC. Accordingly, the Commission has considered SLDC charges for FY 2025-26 to FY 2027-28 and included in their power purchase cost.

Table 7.41: SLDC Charges approved for Discoms for FY 2025-26 to 2027-28**(Rs. Crore)**

Sl. No	Particulars	FY 2025-26	FY 2026-27	FY 2027-28
	SLDC Charges approved in its Tariff Order for FY 2025-26 for Discom	28.06	27.52	29.44
1	SBPDCL (54%)	15.15	14.86	15.90
2	NBPDCCL (46%)	12.91	12.66	13.54

7.11 Total Power Purchase Cost

The total power purchase cost approved for the Discoms for the FY 2025-26 to 2027-28 are given in the Table below:

Table 7.42: Total Power Purchase Cost approved for FY 2025-26 to 2027-28**(Rs. Crore)**

Sl. No.	Particulars	FY 2025-26			FY 2026-27			FY 2027-28		
		NB	SB	Total	NB	SB	Total	NB	SB	Total
1	Power Purchase Cost	9,908.39	11,931.04	21,839.43	10581.35	12730.03	23311.38	11389.78	13688.31	25078.09
2	POSOCL Charges	5.80	6.81	12.61	6.38	7.49	13.88	7.02	8.24	15.26
3	PGCIL Charges	949.00	1,224.14	2,173.13	977.47	1,260.86	2,238.33	1,006.79	1,298.69	2,305.48
4	BSPTCL Charges	718.70	843.70	1,562.40	870.16	1,021.50	1,891.66	937.60	1,100.66	2,038.26
5	SLDC Charges	12.91	15.15	28.06	12.66	14.86	27.52	13.54	15.90	29.44
6	BGCL Charges	149.04	175.02	324.11	218.24	256.19	474.43	211.79	248.63	460.42
7	Total	11,743.89	14,195.86	25,939.75	12666.26	15290.93	27957.19	13566.52	16360.43	29926.95

7.12 Renewable Power Purchase Obligation

Petitioners' submission

The Petitioners have submitted that they have already taken steps to enhance their Renewable Energy mix and accordingly have anticipated addition in Solar and Non-solar power are provided in the following table. The details of RPO compliance by the Petitioners for FY 2025-26 to FY 2027-28 are given as shown in the Table below:

Table 7.43 Renewable energy purchase obligation projected by NBPDC for FY 2025-26 to FY 2027-28

Sl.No	Particulars	Units	FY 2025-26	FY 2026-27	FY 2027-28
1	Energy Sale (excluding inter-state sales)	MU	16,240.19	17,114.37	18,049.18
2	RPO Targets (%)	%	33.01%	35.95%	38.81%
3	Wind RPO (%)	%	3.36%	4.29%	5.23%
4	HPO (%)	%	1.48%	1.80%	2.15%
5	Other RPO (%)	%	28.17%	29.86%	31.43%
6	RPO Targets (MU)	MU	5,360.89	6,152.62	7,004.89
7	Wind RPO	MU	545.67	734.21	943.97
8	HPO RPO	MU	240.35	308.06	388.06
9	Other RPO	MU	4,574.86	5,110.35	5,672.86
10	Renewable Power Purchased				
11	Wind RE purchased from the plants commissioned till 31-03-2022	MU	844.84	844.84	844.84
12	a)93% of 11		785.70	785.70	785.70
13	b)7% of 11		59.14	59.14	59.14
14	Wind RE purchased from the plants commissioned after 31-03-2022	MU	100.54	100.54	100.54
15	Other RE Power (16+17+18+19+20+21+22)		3,274.51	3,622.54	3,602.54
16	a) Solar		1,939.25	2,292.38	2,292.38
17	b) Sugar Mill & Biomass		38.22	36.67	19.66
18	c) BSHPC & Hydro		1,297.04	1,293.48	1,290.50
19	d) Green Power from Exchange		-	-	-
20	e) Captive Consumption Solar	MU	-	-	-
21	f) Net Meter /Solar Generation from Consumers		-	-	-
22	g) GCRT/solar Data from BREDA		-	-	-
23	h) Captive Consumption Non Solar BERDA	MU	-	-	-
	RPO Compliance				
24	HPO RPO Compliance (from 12 above)	MU	240.35	152.03	-
25	Left over Wind RE purchased from the 93% of plants commissioned till 31-03-2022 after adjusting HPO targets (12-24)	MU	545.34	633.67	785.70
26	Wind RPO Compliance (25+14)	MU	645.89	734.21	886.24
27	Other RPO Compliance: (13+15)	MU	3,333.65	3,681.68	3,661.68

Sl.No	Particulars	Units	FY 2025-26	FY 2026-27	FY 2027-28
28	RPO Shortfall (MU)	MU			
29	Wind RPO shortfall/ (surplus) (7-26)	MU	(100.22)	(0.00)	57.73
30	HPO shortfall/ (surplus) (8-24)	MU	-	156.03	388.06
31	Other RPO shortfall/ (surplus) (9-29)	MU	1,241.21	1,428.67	2,011.18
37	RPO Target Achieved	MU			
38	Wind RPO	%	118%	100%	94%
39	HPO	%	100%	49%	0%
40	Other RPO	%	73%	72%	65%

Table 7.44 Renewable energy purchase obligation projected by SBPDCL for FY 2025-26 to FY 2027-28

S.n o.	Particulars	Units	FY 2025-26	FY 2026-27	FY 2027-28
1	Energy Sale(excluding inter-state sales)	MU	20,253.51	22,173.40	24,413.22
2	RPO Targets (%)	%	33.01%	35.95%	38.81%
3	Wind RPO (%)	%	3.36%	4.29%	5.23%
4	HPO (%)	%	1.48%	1.80%	2.15%
5	Other RPO (%)	%	28.17%	29.86%	31.43%
6	RPO Targets (MU)	MU	6,685.68	7,971.34	9,474.77
7	Wind RPO	MU	680.52	951.24	1,276.81
8	HPO RPO	MU	299.75	399.12	524.88
9	Other RPO	MU	5,705.41	6,620.98	7,673.07
10	Renewable Power Purchased				
11	Wind RE purchased from the plants commissioned till 31-03-2022	MU	991.76	991.76	991.76
12	a)93% of 11		922.34	922.34	922.34
13	b)7% of 11		69.42	69.42	69.42
14	Wind RE purchased from the plants commissioned after 31-03-2022	MU	118.03	118.03	118.03
15	Other RE Power (16+17+18+19+20+21+22)		3,843.99	4,252.55	4,229.07
16	a) Solar		2,276.51	2,691.06	2,691.06
17	b)Sugar Mill & Biomass		44.86	43.05	23.08
18	c)BSHPC & Hydro		1,522.62	1,518.44	1,514.93
19	d) Green Power from Exchange				
20	e) Captive Consumption Solar	MU			
21	f) Net Meter /Solar Generation from Consumers				
22	g)GCRT/solar Data from BREDA				
23	h) Captive Consumption Non Solar BERDA	MU			
24	RPO Compliance				
25	HPO RPO Compliance(from 12 above)	MU	299.75	89.13	-
26	Left over Wind RE purchased from the 93% of plants commissioned till 31-03-2022 after adjusting HPO targets(12-24)	MU	622.59	833.21	922.34
27	Wind RPO Compliance (25+14)	MU	740.62	951.24	1,040.37
28	Other RPO Compliance: (13+15)	MU	3,913.42	4,321.97	4,298.49
29	RPO Shortfall (MU)	MU			
30	Wind RPO shortfall/ (surplus) (7-26)	MU	(60.10)	(0.00)	236.44
31	HPO shortfall/ (surplus) (8-24)	MU	-	309.99	524.88
32	Other RPO shortfall/ (surplus) (9-29)	MU	1,792.00	2,299.01	3,374.58
33	RPO Target Achieved	MU			
34	Wind RPO	%	109%	100%	81%
35	HPO	%	100%	22%	0%

S.no.	Particulars	Units	FY 2025-26	FY 2026-27	FY 2027-28
36	Other RPO	%	69%	65%	56%

The Petitioners further submitted that they have entered into PPAs with SECI & NTPC for purchase of renewable power (Solar and Non-Solar) to the tune of 1850 MW which were expected to be in commercial operation by FY 2025-26.

Further, due to high cost of land and lesser solar intensity in the major parts of the State, the Solar power generation in the State of Bihar less lucrative. However, the DISCOMs are always eager to procure power from any renewable source within the State.

Furthermore, the Petitioners are procuring wind power more than its wind RPO requirement, and considering the same the Petitioners request the Commission to allow the issuance of REC on the purchase of electricity from wind energy source in excess of the Wind RPO as determined by the Commission or allow the Petitioners to carry forward wind energy surplus during the FY 2025-26 to the subsequent year for the fulfilment of the Wind RPO. The Commission may also allow the Petitioner to fulfil Other RPO target of FY 2025-26 with the excess wind energy procured.

Commission's analysis

The Petitioner were directed to furnish details of PPAs with SECI & NTPC for purchase of renewable power (Solar and Non-Solar) to the tune of 1,652 MW which are expected to be in commercial operation by FY 2025-26.

In response the petitioners have submitted the information through their reply to BERC letter No 974 & 975 dated 5.12.2024 as given below :

Particulars	BSPHCL Share	CoD	Status of PPA
ACME DEOGHAR/ACME DHAULPUR	150.00	Mar-25	PPA signed on 13.06.2019, Procurement approved by BERC on 29.05.2020 in case no 08/2020. Bihar is off taking the power from the part commissioning of the project w.e.f. 10.12.2024
SBE RENEWABLES SIXTEEN PVT LTD	180.00	Jan-25	PPA signed on 18.02.2022, Procurement approved by BERC on 28.04.2022 in case no 26/2020. Project has been commissioned but power has not yet been scheduled to Bihar due to delay in LTA operationalization
ADANI GREEN ENERGY	600.00	Mar-26	PPA signed on 20.05.2022, Procurement approved by BERC on 28.04.2022 in case no 21/2021. Project has not yet been commissioned.
GREENKO ENERGY HYBRID	210.00	Mar-25	PPA signed on 20.05.2022, Procurement approved by BERC on 28.04.2022 in case no 21/2021. Project has not yet been commissioned.

Particulars	BSPHCL Share	CoD	Status of PPA
FLOATING SOLAR	10.00	Mar-25	PPA signed on 30.07.2024, Procurement approved by BERC on 04.04.2024 in case no 05/2024. Project has not yet been commissioned.
CANAL BANK SOLAR	2.00	Mar-25	PPA signed on 12.03.2024, Procurement approved by BERC on 25.01.2024 in case no 28/2023. Project has not yet been commissioned.
ACME SOLAR JAISELMER	500.00	Mar-25	PPA signed on 29.10.2024, Procurement approved by BERC on 23.10.2024 in case no 21/2024, Bihar is off taking the power from the part commissioning of the project w.e.f. 10.12.2024

The Ministry of Power, Government of India vide Order No F.No.09/13/2021-RCM dated 22.07.2022 has specified the RPO trajectory for period from FY 2022-23 to FY 2029-30 as given below:

Year	Wind RPO	HPO	Other RPO	Total RPO
2022-23	0.81%	0.35%	23.44%	24.61%
2023-24	1.60%	0.66%	24.81%	27.08%
2024-25	2.46%	1.08%	26.37%	29.91%
2025-26	3.36%	1.48%	28.17%	33.01%
2026-27	4.29%	1.80%	29.86%	35.95%
2027-28	5.23%	2.15%	31.43%	38.81%
2028-29	6.16%	2.51%	32.69%	41.36%
2029-30	6.94%	2.82%	33.57%	43.33%

The Commission has notified the BERC (Renewable Purchase Obligation, its compliance and REC frame work implementation) (4th amendment) Regulations, 2022 duly aligning the targets with the MoP RPO trajectory specified vide Order No F.No.09/13/2021-RCM dated 22.07.2022.

As per the BERC 4th Amendment of RPO Regulations, the targets were determined for wind, HPO and other RPO. The Regulation 4.1 (Amended) specify the following:

- “a) Wind RPO Shall be met only by energy produced from Wind Power Projects (WPPs) commissioned after 31st March 2022 and the wind energy consumed over and above 7% from WPPs commissioned till 31 st March 2022;*
- (b) HPO shall be met only by energy produced from LHPs (including PSPs and small hydro projects (SHPs)), commissioned after 8th March 2019;*
- (c) Other RPO may be met by energy produced from any RE based / green energy-based power project not mentioned in (a) and (b) above.*

Further, in case of 'Other RPO', any shortfall remaining in achievement of 'Other

RPO' category in a particular year can be met with either excess energy consumed from wind power projects, commissioned after 31st March 2022 beyond 'Wind RPO' for that year or with, excess energy consumed from eligible LHPs (including PSPs), commissioned after 8th March 2019 beyond 'HPO' for that year or partly from both. Further any shortfall in achievement of 'Wind RPO' in a particular year can be met with excess energy consumed from Hydro Power Plants, which is in excess of 'HPO' for that year and vice versa.

Provided that Renewable Energy purchased through bundled power shall qualify for Renewable Purchase Obligation compliance to the extent of Renewable Energy content in the bundled power.

Provided further that Distribution Licensee shall be eligible to utilize the renewable energy generated from prosumers supplying power to such Licensee under the Gross Metering, Net Billing and Net Metering arrangement as the case may be towards meeting the RPO compliance, provided that the prosumer should not be a obligated entity under these Regulations.

Provided further that Distribution Licensee shall compulsorily procure 100% power generated from waste to Energy plants in the state.

Provided that Commission may review minimum percentage of compliance specified in the above Regulations depending upon prevailing situation in succeeding years".

The Commission accordingly has considered the RPO targets for FY 2025-26 to FY 2027-28 in this Tariff order and computed the RPO Compliance for FY 2025-26 to FY 2027-28 as shown in the Table below.

Table 7.45: RPO Approved for NBPDCCL for FY 2025-26 to 2027-28

SL.NO	Particulars	Units	FY 25-26	FY 26-27	FY 27-28
1	Energy Sale (excluding inter-state sales)	MU	16,240.19	17,114.37	18,049.18
2	RPO Targets (%)	%	33.01%	35.95%	38.81%
3	Wind RPO (%)	%	3.36%	4.29%	5.23%
4	HPO (%)	%	1.48%	1.80%	2.15%
5	Other RPO (%)	%	28.17%	29.86%	31.43%
6	RPO Targets (MU)	MU	5360.89	6152.62	7004.89
7	Wind RPO	MU	545.67	734.21	943.97
8	HPO RPO	MU	240.35	308.06	388.06

SL.NO	Particulars	Units	FY 25-26	FY 26-27	FY 27-28
9	Other RPO	MU	4574.86	5110.35	5672.86
10	Renewable Power Purchased				
11	Wind RE purchased from the plants commissioned till 31-03-2022	MU	844.84	844.84	844.84
12	a)93% of 11	MU	785.70	785.70	785.70
13	b)7% of 11	MU	59.14	59.14	59.14
14	Wind RE purchased from the plants commissioned after 31-03-2022	MU	100.54	100.54	100.54
15	Other RE Power (16+17+18+19+20+21+24)	MU	3274.51	3622.53	3602.54
16	a) Solar	MU	1939.25	2292.38	2292.38
17	b) Sugar Mill & Biomass	MU	38.22	36.67	19.66
18	c)BSHPC	MU	1297.04	1293.48	1290.50
19	d) Hydro	MU			
20	e) Green Power from Exchange	MU			
21	f) Captive Consumption Solar	MU			
22	i) Net Meter /Solar Generation from Consumers	MU			
23	ii) GCRT/solar Data from BREDA	MU			
24	Captive Consumption Non-Solar BERDA	MU			
25	RPO Compliance	MU			
26	HPO RPO Compliance (from 12 above)	MU	240.35	152.03	0.00
27	Left over Wind RE purchased from the 93% of plants commissioned till 31-03-2022 after adjusting HPO targets (12-8)	MU	545.35	785.70	785.70
28	Wind Power Purchased (76+14)	MU	645.89	734.21	886.24
29	Other RPO Compliance: (15+13)	MU	3333.65	3681.67	3661.68
30	RPO Shortfall (MU)	MU			
31	Wind RPO shortfall/ (surplus) (7-28)	MU	(100.22)	(0.00)	57.73
32	HPO shortfall/ (surplus) (Compensated from surplus wind RPO)	MU	0.00	156.03	388.06
33	Other RPO shortfall/ (surplus) (9-29)	MU	1140.67	1328.14	1910.64
34	REC Purchase*	MU			
35	RPO Shortfall considering REC (MU)	MU			
36	Wind RPO shortfall/ (surplus) (31)	MU	(100.22)	(0.00)	57.73
37	HPO shortfall/ (surplus)	MU	0.00	156.03	388.06
38	Other RPO shortfall/ (surplus) (33-34)	MU	1140.67	1328.14	1910.64
39	RPO Target Achieved considering REC (%)	MU			
40	Wind RPO	%	100%	100%	94%
41	HPO	%	100%	49%	0%
42	Other RPO	%	73%	72%	65%

It is observed from the Table above that the Discoms have fulfilled the wind RPO for FY 2025-26 to FY 2026-27. However, Discoms have not been fulfilled the wind RPO for FY 2027-28. The

RPO target in respect others RPO has not been fully complied for FY 2025-26 to FY 2027-28. Also HPO has not been fully complied for FY 2026-27 to FY 2027-28. The Commission directs the NBPDC to fulfill the shortfall as mentioned above as specified in regulation 7.1 of 4th amendment of the abovementioned Regulations.

Table 7.46: RPO Approved for SBPDCL for FY 2025-26 to 2027-28

SL.NO	Particulars	Units	FY 25-26	FY 26-27	FY 27-28
1	Energy Sale (excluding inter-state sales)	MU	20,253.51	22,173.40	24,413.22
2	RPO Targets (%)	%	33.01%	35.95%	38.81%
3	Wind RPO (%)	%	3.36%	4.29%	5.23%
4	HPO (%)	%	1.48%	1.80%	2.15%
5	Other RPO (%)	%	28.17%	29.86%	31.43%
6	RPO Targets (MU)	MU	6685.68	7971.34	9474.77
7	Wind RPO	MU	680.52	951.24	1276.81
8	HPO RPO	MU	299.75	399.12	524.88
9	Other RPO	MU	5705.41	6620.98	7673.08
10	Renewable Power Purchased				
11	Wind RE purchased from the plants commissioned till 31-03-2022	MU	991.76	991.76	991.76
12	a)93% of 11	MU	922.34	922.34	922.34
13	b)7% of 11	MU	69.42	69.42	69.42
14	Wind RE purchased from the plants commissioned after 31-03-2022	MU	118.03	118.03	118.03
15	Other RE Power (16+17+18+19+20+21+24)	MU	3843.99	4252.55	4229.07
16	a) Solar	MU	2276.51	2691.06	2691.06
17	b) Sugar Mill & Biomass	MU	44.86	43.05	23.08
18	c)BSHPC	MU	1522.62	1518.44	1514.93
19	d) Hydro	MU			
20	e) Green Power from Exchange	MU			
21	f) Captive Consumption Solar	MU			
22	I) Net Meter /Solar Generation from Consumers	MU			
23	II) GCRT/solar Data from BREDA	MU			
24	Captive Consumption Non-Solar BERDA	MU			
25	RPO Compliance	MU			
26	HPO RPO Compliance (from 12 above)	MU	299.75	89.13	0.00
27	Left over Wind RE purchased from the 93% of plants commissioned till 31-03-2022 after adjusting HPO targets (12-8)	MU	622.58	922.34	922.34
28	Wind Power Purchased (76+14)	MU	740.61	951.24	1040.37
29	Other RPO Compliance: (15+13)	MU	3913.41	4321.97	4298.49
30	RPO Shortfall (MU)	MU			
31	Wind RPO shortfall/ (surplus) (7-28)	MU	(60.10)	0.00	236.44
32	HPO shortfall/ (surplus) (Compensated from surplus wind RPO)	MU	0.00	309.99	524.88

SL.NO	Particulars	Units	FY 25-26	FY 26-27	FY 27-28
33	Other RPO shortfall/ (surplus) (9-29)	MU	1673.97	2180.97	3256.55
34	REC Purchase*	MU			
35	RPO Shortfall considering REC (MU)	MU			
36	Wind RPO shortfall/ (surplus) (31)	MU	(60.10)	0.00	236.44
37	HPO shortfall/ (surplus)	MU	0.00	309.99	524.88
38	Other RPO shortfall/ (surplus) (33-34)	MU	1673.97	2180.97	3256.55
39	RPO Target Achieved considering REC (%)	MU			
40	Wind RPO	%	100%	100%	81%
41	HPO	%	100%	22%	0%
42	Other RPO	%	69%	65%	56%

It is observed from the Table above that the Discoms have fulfilled the wind RPO for FY 2025-26 to FY 2026-27. However, Discoms have not been fulfilled the wind RPO for FY 2027-28. The RPO target in respect others RPO has not been fully complied for FY 2025-26 to FY 2027-28. Also, HPO has not been fully complied for FY 2026-27 to FY 2027-28. The Commission directs the SBPDCL to fulfill the shortfall as mentioned above as specified in regulation 7.1 of 4th amendment of the abovementioned Regulations.

7.13 Capital Expenditure

Petitioner's submission:

Discoms have submitted the details of capital expenditure under its Business Plan. Therefore, the information provided regarding the Schemes under Capital investment Plan is not reproduced here again. Discoms have submitted that the scheme-wise year-wise capital investment and capitalisation for the control period of FY 2025-26 to FY 2027-28 as given in the table below:

Table 7.47 Capital Expenditure and Capitalization Scheme for FY 2025-26 to FY 2027-28 in INR Crore (NBPDC)

Particulars	FY 2025-26		FY 2026-27		FY 2027-28	
	CAPEX	Capitalization	CAPEX	Capitalization	CAPEX	Capitalization
Ongoing Scheme						
State Plan -Others	-	101.25	-	101.25	-	33.75
State Plan -RDSS	1,202.53	981.40	-	481.01		
Smart Prepaid Meter (Phase 2) 36 Lakhs- 30% Capex	74.40	102.48	3.36	14.75		
Smart Prepaid Meter (Phase 3) 1.12 crores- 30% Capex	1,239.78	1,115.81	488.07	619.74	31.83	100.69
Sub Total	2,516.71	2,199.69	491.43	1,115.50	31.83	100.69
Mukhya Mantri Vidyut Sambandh Nishchay Yojna (MKVSY)-Phase II	800.00	600.00	234.29	460.57	-	93.72
New 33 kV Lines	82.86	87.22	-	-	-	-
Construction of 15 Nos. of New 33 kV lines at different locations of NBPDC			-	-	-	-
Construction of Two no. 33 kV Line	17.67	19.63	-	-	-	-
Construction of 3 Nos. New 33 kV Line in Chapra Circle	7.23	9.04	-	-	-	-
New 33/11 KV PSS (2x10 MVA) with associated lines	71.94	79.93	-	-	-	-
New PSS Under State Plan (Construction of 2X10 MVA PSS at different Location)	193.01	214.46	-	-	-	-
Capacity enhancement of existing Power Sub Stations			-	-	-	-
Augmentation of 5 MVA Power Transformers with 10 MVA Power Transformers	-	58.55	-	-	-	-
Additional 10 MVA Power Transformers in existing PSS	-	3.73	-	-	-	-
Reconductoring of 33 KV Lines from ACSR Dog to Wolf Conductors	-	54.27	-	-	-	-
Project under sanction Process			-	-	-	-
New 33/11 KV 2X10 MVA PSS	115.96	34.79	115.96	115.96	-	81.17
33/11 kV PSS-GIS	8.00	2.40	8.00	8.00	-	5.60
33 KV New Line (Wolf Conductor on Rail Pole)	306.20	91.86	306.20	306.20	-	214.34
33 kv Reconductoring from Dog to Wolf	67.84	20.35	67.84	67.84	-	47.48
33 KV XLPE 400 Sqmm UG Cable for replacement of Existing Defective Railway Crossing	2.10	0.63	2.10	2.10	-	1.47
33 KV New Railway Crossing	0.97	0.29	0.97	0.97	-	0.68
33 KV Bay extension with conventional/RMU	34.98	10.49	34.98	34.98	-	24.48
11 KV Line (Rabbit Conductor on PSC 9 Mtr Pole)	26.78	8.03	26.78	26.78	-	18.74
11 KV XLPE 300 sqm UG cable	0.86	0.26	0.86	0.86	-	0.60
11 KV Bay extension with conventional/RMU	6.40	1.92	6.40	6.40	-	4.48
	-	-	-	-	-	-
Augmentation & Additional Distribution Transformers	200.00	160.00		80.00	-	-

Particulars	FY 2025-26		FY 2026-27		FY 2027-28	
	CAPEX	Capitalization	CAPEX	Capitalization	CAPEX	Capitalization
Protective Equipment i.e. VCBs, CTs & PTs, Lightning Arrestors etc.	40.00	48.00		16.00	-	-
Construction of 12 Nos Divisional and 51 Nos Sub-divisional Control room building cum Customer facilitation center at different locations under NBPDC	60.00	56.00		24.00	-	-
Construction of New Control Room, PCC & Gravel filling for old PSS, Boundary wall of different PSS, Offices, Colony and Open lands under five Civil Circles of NBPDC.	35.00	33.00		14.00	-	-
Construction of Sheds, Platforms, Approach Road and allied components at TRWs under NBPDC	45.00	33.00		18.00	-	-
Integrated Omni-Channel CRM for customer complaint handling activities			-	-	-	-
CRM tool implementation		4.37	-	-	-	-
Supply of software licensees, comprising of om etcni channel CRM, Fault management		5	-	-	-	-
Total	4,639.47	3,836.90	1,295.78	2,298.13	31.83	593.45

Table 7.48 Capital Expenditure and Capitalization Scheme for FY 2025-26 to FY 2027-28 in INR Crore(SBPDCL)

Particulars	FY 2025-26		FY 2026-27		FY 2026-27	
	CAPEX	Capitalization	CAPEX	Capitalization	CAPEX	Capitalization
BRGF	-	92.77	-	92.77	-	30.92
State Plan -Others	-	205.75	-	-	-	-
RDSS	1,506.46	1,157.59	-	1,054.52	-	-
Smart Prepaid Meter (Phase 2) 36 Lakhs- 30% Capex	13.02	35.93	-	-	-	-
Smart Prepaid Meter (Phase 3) 1.12 crores- 30% Capex	643.00	616.23	49.41	117.88	-	-
Sub Total	2,162.48	2,108.27	49.41	1,265.17	-	30.92
Total Nos. of 33 kv line	20.45	62.55	12.48	20.66	-	-
MKVYS-II	360.73	351.44	360.73	360.73	-	144.29
Construction of 62 nos. new 33KV line	211.90	127.14	-	84.76	-	-
Reconductoring of 78 no. of 33 kv lines	52.77	31.66	52.77	52.77	-	21.11
Augmentation of PTR (5 MVA to 10 MVA)	54.00	32.40	54.00	54.00	-	21.60
Additional/ Augmentation of 5 & 10MVA PTR under State Plan)	-	-	-	-	-	-
5 MVA PTR	16.13	9.68	16.13	16.13	-	6.45
10 MVA PTR	80.83	48.50	80.83	80.83	-	32.33
Proposal prepared to overcome the constraint in distribution networks	-	-	-	-	-	-

Particulars	FY 2025-26		FY 2026-27		FY 2026-27	
	CAPEX	Capitalization	CAPEX	Capitalization	CAPEX	Capitalization
33KV NEW Line Wolf Conductor on rail Pole	145.20	87.12	145.20	145.20	-	58.08
33KV XLPE 400 Sqmm. UG Cable for Existing Railway crossing	43.85	26.31	43.85	43.85	-	17.54
33KV Bay	9.33	5.60	9.33	9.33	-	3.73
11KV Line (on Rail/Joist Pole)	21.02	12.61	21.02	21.02	-	8.41
11KV Line (on 9mtr. PSC Pole)	24.96	14.98	24.96	24.96	-	9.99
11KV XLPE 300 Sqmm. UG Cable	13.30	7.98	13.30	13.30	-	5.32
11KV Bay	2.81	1.69	2.81	2.81	-	1.13
33KV Reconductoring Line with Wolf Conductor on rail Pole	66.99	40.19	66.99	66.99	-	26.80
R&M of 11KV Line	220.41	132.25	220.41	220.41	-	88.17
PSS NEW	50.00	69.00		20.00	-	
Grid Connectivity off grid to on grid (RDSS)	58.79	35.27	58.79	58.79	-	23.52
New Service connection (Infrastructure)	72.22	72.22	96.30	91.48	-	19.26
Smart Distribution Initiatives						
SCADA , DMS, OMS	-	-	84.87	42.44	127.31	106.09
SCADA, DMS, OMS-DR Centre	-	-	8.27	4.13	12.40	10.34
SS digitalization	-	-	8.94	4.47	13.42	11.18
NON-IT SCADA	-	-	5.86	2.93	8.79	7.32
System Augmentation and modernization	-	-	214.01	107.01	321.02	267.52
IT Hardware	3.43	3.43	-	-	-	-
Software/Antivirus	1.34	1.34	-	-	-	-
Network Analysis Software	21.09	21.09	-	-	-	-
RMS	59.00	59.00	-	-	-	-
Integrated Omni-Channel CRM for customer complaint handling activities	-	-	-	-	-	-
CRM tool implementation	-	4.37	-	-	-	-
Supply of software licensees, comprising of om etcni channel CRM, Fault management	-	5.00	-	-	-	-
Total	3,773.03	3,371.08	1,651.26	2,814.17	482.93	921.08

Commission's analysis:

The Commission has noted that the Discoms has projected the capex and capitalisation of schemes of Mukya Manthri Krishi Vikas Yojana (MKVYS), creation of new infrastructure, implementation of smart prepaid meters, IT/OT, etc. works under RDSS schemes, other infrastructure development schemes etc for the control period. As approval of the Commission for the control period is already provided in details in the previous chapter (Business Plan). The DISCOMs should note the directions given regarding capex approval of new projects and act accordingly.

The approval for the control period in this regard is provided below. The Commission will review the actual capitalization of both DISCOMs for the truing up of FY 2025-26, when the audited account will be available.

Accordingly, the Commission provisionally considers the capex and capitalisation during control period as given below.

Table 7.49: Capitalisation approved for the Control period

Particular	Approved for NBPDC			Approved for SBPDCL		
	FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
Capitalisation	2165.98	1319.66	344.96	2393.47	1998.06	653.97

7.14 Gross Fixed Assets**Petitioner's submission**

Discoms have submitted the computation of GFA based on the opening GFA and capitalisation for the control period as detailed in the Table below: -

Table 7.50: Gross Fixed Assets projected for the control period (in INR Crore)

Particulars	NBPDC			SBPDCL		
	FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
Opening GFA	27,212.95	31,151.10	33,550.48	21,317.40	24,688.48	27,502.65
Addition during the year	3,938.15	2,399.38	627.20	3,371.08	2,814.17	921.08
Closing GFA	31,151.10	33,550.48	34,177.68	24,688.48	27,502.65	28,423.72

Commission's analysis:

The Commission has adopted the opening GFA for FY 2025-26 (Rs. 24889.09 crore for NBPDC and Rs. 19398.59 crore for SBPDCL) based on the closing GFA considered for FY 2024-25 in review and further updated with the capitalisation considered (Table

7.40) for control period. The Commission has arrived at the opening GFA, additions to GFA and closing GFA for FY 2025-26 as detailed in the Table below:

Table 7.51: Gross Fixed Assets approved for the control period (Rs. Crore)

Sl. No.	Particulars	NBPDC			SBPDCL		
		FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
1	Opening GFA	25000.88	27166.86	28486.52	19626.13	22019.59	24017.65
2	Additions during the year	2165.98	1319.66	344.96	2393.47	1998.06	653.97
3	Closing GFA (1+2)	27166.86	28486.52	28831.48	22019.59	24017.65	24671.62

7.15 Depreciation

Petitioner's submission:

The depreciation has been computed annually based on straight-line method by applying weighted average rate of depreciation on the average GFA. For this purpose, the Petitioner has adopted the Regulation 23 of the Bihar Electricity Regulatory Commission (Multi Year Distribution Tariff) Regulations, 2024. Discoms have further submitted that the depreciation on assets created out of Grants from the gross depreciation to arrive at the net depreciation to be charged. The GFA in the beginning of the year and additions during the year does not include the value of Land. Discoms have projected the depreciation for the control period as detailed in the Table below:

Table 7.52: Depreciation on GFA for FY 2025-26 to FY 2027-28 (in INR Crore)

Sr. No	Particulars	NBPDC			SBPDCL		
		FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
1	Gross fixed assets of the beginning of the year	26,054	29,880	32,213	19,544	22,627	25,172
2	Additions during the year (Without land)	3,826	2,332	610	3,083.26	2,545.10	830.41
3	IDC						
4	Adjustment for assets sold/discarded etc.						
5	Closing GFA	29,880.21	32,212.60	32,822.92	22,626.84	25,171.94	26,002.35
6	Average GFA	27,966.97	31,046.41	32,517.76	21,085.21	23,899.39	25,587.14
7	Weighted Average Rate of Depreciation	5.32%	4.98%	4.84%	4.52%	4.27%	4.08%

Sr. No	Particulars	NBPDC			SBPDCL		
		FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
8	Depreciation for the year	1,488.53	1,546.64	1,574.51	953	1,020	1,043
9	Opening grants	12,122	12,122	12,122	7,419	7,419	7,419
10	Grants during the year						
11	Adjustment for assets sold/discarded etc.						
12	Total Grants	12,122.37	12,122.37	12,122.37	7,418.70	7,418.70	7,418.70
13	Average Grants	12,122.37	12,122.37	12,122.37	7,418.70	7,418.70	7,418.70
14	Weighted Average rate of Depreciation (on grant)	5.86%	5.86%	5.86%	6.04%	6.04%	6.04%
15	Depreciation for GFA on Grants	710.00	710.00	710.00	448	448	448
16	Net Depreciation of GFA on loans (8-15)	778.53	836.64	864.51	505.21	571.93	595.36

Commission's analysis:

The Commission has considered opening depreciable assets for FY 2025-26 based on the closing depreciable assets approved in review for FY 2024-25.

The Commission has considered opening grants for FY 2025-26 based on the closing grants approved in review for FY 2024-25 and further updated based on the funding of capitalisation approved in Table 7.42 above. Net addition to assets (excluding land) is considered as per capitalization approved net of amount of land capitalised for the each year during control period.

The Commission has provisionally adopted the weighted average rate of depreciation on asset and grants based on actual weighted average rate of depreciation as approved in truing up for FY 2023-24.

The Commission in terms of regulation 23 of BERC (Multi Year Distribution Tariff) Regulations 2024 has computed the depreciation for the control period as detailed in the Table below:

Table 7.53: Depreciation approved for control period (Rs. Crore)

Sr. No	Particulars	NBPDCCL			SBPDCL		
		FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
1	Gross depreciable fixed assets in the beginning of the year	23834.67	25888.98	27141.65	17852.31	19957.95	21686.94
2	Net Additions during the year (excl. land)	2054.31	1252.67	328.08	2105.65	1728.99	563.30
3	Closing GFA (depreciable)	25888.98	27141.65	27469.73	19957.95	21686.94	22250.24
4	Average GFA (depreciable)	24861.82	26515.32	27305.69	18905.13	20822.45	21968.59
5	Weighted Average Rate of Depreciation	4.58%	4.58%	4.58%	4.55%	4.55%	4.55%
6	Depreciation for the year	1138.70	1214.44	1250.64	860.54	947.82	999.99
7	Opening grants	12392.74	12392.74	12392.74	7908.34	7908.34	7908.34
8	Grants during the year	0.00	0.00	0.00	0.00	0.00	0.00
9	Adjustment for assets sold/discarded etc.	0.00	0.00	0.00	0.00	0.00	0.00
10	Total Grants	12392.74	12392.74	12392.74	7908.34	7908.34	7908.34
11	Average Grants	12392.74	12392.74	12392.74	7908.34	7908.34	7908.34
12	Weighted Average rate of Depreciation (on grant)	4.58%	4.58%	4.58%	4.55%	4.55%	4.55%
13	Depreciation for GFA on Grants	567.60	567.60	567.60	359.98	359.98	359.98
14	Net Depreciation computed	571.10	646.83	683.03	500.56	587.84	640.01
15	Net depreciation allowed (75%)*	428.33	485.12	512.27	375.42	440.88	480.01

*The Commission has observed that the Petitioners have not prepared Asset Register in spite of repeated directives. The Commission, in its order dated 01.03.2024 has issued the following directives under chapter 10:

“Directive 6:

Asset register-the Commission has observed that DISCOMs have not yet started work of preparation of asset register inspite of repeated directives. DISCOMs have submitted that they are going to implement ERP which is mandatory under RDSS scheme. It is endeavouring to create and maintain component wise fixed asset register and will be provided after ERP implementation. ERP for all areas of both DISCOMs was floated by SBPDCL vide NIT No: 39/PR/NBPDCCL/2023. Technical

evaluation is under process and it is expected to finalize the tender process by the end of current financial year. The Commission directs Discoms that if the Fixed Asset Register is not prepared by the end of FY 2023-24 and submitted along with petition for true up of FY 2023-24, the Commission shall be constrained to take appropriate action under the Rules has directed to the Petitioner to create fixed asset register (FAR) without any fail from next year true-up onwards."

However, in view of the fact that in spite of repeated direction of the Commission issued vide various tariff orders, the petitioner has not submitted the Asset Register, in absence of which it is very difficult to ascertain whether allowing depreciation on estimated Asset value will be justified under applicable Regulations as well as in the consumer interest. The Commission therefore decides to allow only 75% of the total calculated depreciation as shown in the above table 7.43 at Sr No 15.

Further, the Commission directs the Petitioner to submit fixed asset register (FAR) at the earliest, otherwise the Commission may take further punitive action.

The Commission, accordingly, approves depreciation for FY 2025-26 as above

7.16 Interest on Loans

Petitioner's submission:

Discoms have submitted that interest on loans is projected in terms of regulation 25 of the BERC (Multi Year Distribution Tariff) Regulations 2024. Interest on loan is considered at 9.17 % by NBPDCCL and 9.41 % by SBPDCL for the control period and furnished the computation details as given below:

Table 7.54: Weighted average rate of interest on loans projected by NBPDCCL

Sr. No	Particulars	Opening balance	Rate of Interest	Addition during the year	Repayment during the year	Closing balance	Amount of interest paid	Average Loan
1	REC (RGGVY) Term Loan	166	0	-	21	145	17	155
2	REC (R-APDRP- PART-B) Term Loan	15	0	-	7	9	7	12
3	PFC (COUNTER PART FUNDING) Term Loan	62	0	-	7	55	6	58
4	State Govt.-Non-Plan Loan	372	0	40	-	412	-	392
5	BSPHCL (ADB) Loan	56	0	-	-	56	6	56
6	REC (DDUGJY)	965	0	-	68	897	96	931

Sr. No	Particulars	Opening balance	Rate of Interest	Addition during the year	Repayment during the year	Closing balance	Amount of interest paid	Average Loan
7	REC (IPDS)	283	0	-	20	263	25	273
8	Smart Metering	3,144	0	-	-	3,144	283	3,144
9	Total	5,063		40	122	4,980	441	5,021

Table 7.55: Weighted average rate of interest on loans projected by SBPDCL

Sr. No	Particulars	Opening balance	Rate of Interest	Addition during the year	Repayment during the year	Closing balance	Amount of interest paid	Average Loan
1	REC (RGGVY) Term Loan	89.75	0.11		13.85	75.90	9.06	82.82
2	REC (R-APDRP) Term Loan	218.79	0.10		34.93	183.86	19.72	201.33
3	PFC (R-APDRP) Term Loan	102.35	0.09		11.91	90.44	16.34	96.40
4	REC (IPDS) Term Loan	314.20	0.10		22.25	291.95	29.85	303.07
5	REC (DDUGJY) Term Loan	696.63	0.10		48.66	647.97	66.18	672.30
6	REC (Smart Meter) Term Loan	400.00	0.09	500.00	-	900.00	39.38	650.00
7	State Govt.-Non-Plan Loan	195.11	0.13	22.91	-	218.02	26.85	206.56
8	BSPHCL (ADB) Loan	6.28	0.13	-	-	6.28	0.82	6.28
9	Canara Bank- VSL	300.00	0.07	-	-	300.00	20.25	300.00
10	Bank O/D under consortium arrangement (Lead Bank- PNB)	3,506.27	0.09	850.00	-	4,356.27	353.81	3,931.27
11	REC Short Term Loan-RBPF	500.00	0.10	500.00	500.00	500.00	47.50	500.00
12	REC- SLTTL	878.60	0.10	-	123.86	754.74	80.54	816.67
13	PFC- SLTTL	938.24	0.10	-	123.72	814.52	87.76	876.38

Sr. No	Particulars	Opening balance	Rate of Interest	Addition during the year	Repayment during the year	Closing balance	Amount of interest paid	Average Loan
11	Total	8,146.22		1,872.91	879.18	9,139.95	798.06	8,643.08
Weighted Average rate of Interest: 9.41%								

Discoms have computed and projected the interest on loans for the control period as detailed in the Table below:

Table 7.56: Interest on loans projected for FY 2025-26 to FY 2027-28 (Rs. Crore)

Particulars	NBPDCCL			SBPDCL		
	FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
Opening loan	7,389.11	9,367.29	10,210.21	5,696.06	7,550.61	8,948.60
Addition during the year	2,756.71	1,679.57	439.04	2,359.76	1,969.92	644.76
Less: Normative repayment	778.53	836.64	864.51	505.21	571.93	595.36
Closing loan	9,367.29	10,210.21	9,784.75	7,550.61	8,948.60	8,997.99
Average loan	8,378.20	9,788.75	9,997.48	6,623.34	8,249.61	8,973.30
Actual Weighted Average Rate of Interest	9.17%	9.17%	9.17%	9.41%	9.41%	9.41%
Amount of Interest on Loan	768.13	897.45	916.59	623.42	776.49	844.61

Commission's analysis:

The Commission has considered as opening loan for FY 2025-26 based on the closing loan approved in review for FY 2024-25. Addition to loan is provisionally considered in line with funding of capitalisation considered for the control period as given below:

Table 7.57: Debt Equity considered for the control period (Rs. Crore)

Sl. No.	Particulars	Approved for NBPDCCL			Approved for SBPDCL		
		FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
1	Capitalisation during the year	2165.98	1319.66	344.96	2393.47	1998.06	653.97
2	Less: Grants	0.00	0.00	0.00	0.00	0.00	0.00
3	Net capitalisation	2165.98	1319.66	344.96	2393.47	1998.06	653.97
4	Debt @70%	1516.19	923.76	241.47	1675.43	1398.64	457.78
5	Equity @30%	649.80	395.90	103.49	718.04	599.42	196.19

Regulation 25 (g) of the BERC (Multi Year Distribution Tariff) Regulations, 2024 specify

that:

“The rate of interest shall be the weighted average rate of interest calculated on the basis of actual loan portfolio at the beginning of the year, in accordance with terms and conditions of relevant loan agreements, or bonds or non-convertible debentures.

Provided that if no actual loan is outstanding but normative loan is still outstanding, the last available weighted average rate of interest shall be applicable.”

The Commission in terms of regulation 25(g) considers the rate of interest on loan based on loan portfolio for the control period. The Commission has noted that the funding pattern is same for both DISCOMs. So, the Commission has provisionally considered the weighted average rate of interest at 9.17 % for both DISCOMs as projected by NBPDCCL and subject to true up based on audited accounts for FY 2025-26.

Regulation 25(e) specifies that repayment of loan shall be deemed to be equal to the depreciation allowed for the year. As clarified earlier, the Commission has allowed only 75% of the computed value of depreciation in the ARR however, due to the reason already explained in para 7.14 the normative repayment of loan during the year is considered equal to total computed value of depreciation as shown in table 7.38.

The Commission, considering the above, has computed interest on loans for the control period as detailed in the Table below:

Table 7.58: Interest on loan approved for the control period (Rs. Crore)

Sl. No.	Particulars	Approved for NBPDCCL			Approved for SBPDCL		
		FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
1	Opening loan balance	6482.82	7427.91	7704.84	5147.47	6322.33	7133.13
2	Additions during the year	1516.19	923.76	241.47	1675.43	1398.64	457.78
3	Normative Repayment	571.10	646.83	683.03	500.56	587.84	640.01
4	Closing Loans (1+2-3)	7427.91	7704.84	7263.28	6322.33	7133.13	6950.90

Sl. No.	Particulars	Approved for NBPDC			Approved for SBPDCL		
		FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
5	Average Loans $\{(1+4)/2\}$	6955.36	7566.37	7484.06	5734.90	6727.73	7042.02
6	Interest rate	9.17%	9.17%	9.17%	9.17%	9.17%	9.17%
7	Interest Charges (5x6)	637.81	693.84	686.29	525.89	616.93	645.75

7.17 Other Finance Charges

Petitioner's submission:

Discoms have submitted that finance charges represent discount to consumers for timely payment of bills, power factor rebate, interest to suppliers/contractors, etc. and the Petitioner is claiming other Finance charges by escalating the charges estimated for FY 2023-24 by 10% for FY 2025-26 to FY 2027-28: -

Table 7.59: Other finance Projected charges for Control period (in INR Crore)

Particulars	NBPDC			SBPDCL		
	FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
Expenses estimated in previous year	84.36	92.79	102.07	157.85	173.64	191.00
Inflationary index	8.44	9.28	10.21	15.79	17.36	19.10
Finance charges estimated	92.79	102.07	112.28	173.64	191.00	210.10

Commission's analysis:

The Commission has considered the other finance charges approved in review for FY 2024-25 as base expenses for FY 2025-26 and also considers escalation @ 10% provisionally year on year. Accordingly, the Commission considers other finance charges for the control period as given in the Table below:

Table 7.60: Other finance charges approved for the control period (Rs. Crore)

Sl. No.	Particulars	Approved for NBPDC			Approved for SBPDCL		
		FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
1	Base Other finance charges	67.07	73.78	81.16	128.82	141.70	155.87
2	% of escalation	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
3	Increase for the year	6.71	7.38	8.12	12.88	14.17	15.59
4	Other finance charges for the year	73.78	81.16	89.27	141.70	155.87	171.46

7.18 Return on Equity

Petitioner's submission

Discoms have submitted that Return on Equity has been calculated in terms of regulation 27 of BERC (Multi Year Distribution Tariff) Regulations 2024 and projected the RoE for FY 2023-24 as detailed in the Table below:

Table 7.61: Return on Equity projected for control period (Rs. Crore)

Sr. No	Particulars	NBPDC			SBPDCL		
		FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
A	Calculation for Return on Equity						
1	Closing equity to end of 31.03.2016	440.86	440.86	440.86	638.06	638.06	638.06
2	Rate of return on equity (%)	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%
3	Return on Equity	61.72	61.72	61.72	89.33	89.33	89.33
4	Equity with effect from 1st April 2016						
5	Opening equity	3,533	4,714	5,434	2,545	3,556	4,400
6	Equity addition during the year	1,181.45	719.82	188.16	1,011	844	276
7	Closing equity	4714.14	5433.95	5622.11	3,556.25	4,400.50	4,676.82
8	Average equity	4123.42	5074.05	5528.03	3,050.59	3,978.37	4,538.66
9	Rate of return on equity (%)	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%
10	Return on equity	577.28	710.37	773.92	427.08	556.97	635.41
11	Total Return on Equity	639.00	772.09	835.65	516.41	646.30	724.74

Commission's analysis

Regulation 27 (c) of the BERC (Multi Year Distribution Tariff) Regulations 2024 specifies the following:

“Rate of return on equity shall be allowed not more than 14.0% for all projects. However, further incentive equivalent to 0.5% will be allowed in the form of RoE, if the project is completed within original schedule period.”

The Commission has considered the opening equity for FY 2025-26 based on the closing equity considered in review for FY 2024-25. Addition to equity during the year is provisionally considered based on the capitalisation and funding of capitalisation approved for FY 2025-26 as depicted above table 7.42.

Regulation 29 (1) of the BERC (Multi Year Distribution Tariff) Regulations 2024 specified that:

“The base rate of return on equity as allowed by the Commission under

Regulation 27 shall be grossed up with the effective tax rate of the respective financial year. For this purpose, the effective tax rate shall be considered on the basis of actual tax paid in the respect of the financial year in line with the provisions of the relevant Finance Acts by the concerned the Distribution Licensee, as the case may be. The actual tax on income from other business including deferred tax liability (i.e. income on business other than business of distribution, as the case may be) shall not be considered for the calculation of effective tax rate.”

The Commission has not considered the Tax on Return on Equity as the Discoms have not incurred/paid income tax in earlier year i.e. for FY 2024-25.

The Commission, accordingly, has computed return on equity for control period as detailed in the Table below:

Table 7.62: Return on Equity approved for the control period (Rs. Crore)

Sl. No.	Particulars	Approved for NBPDC			Approved for SBPDCL		
		FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
1	Closing equity to end of 31.03.2016	440.86	440.86	440.86	638.06	638.06	638.06
2	Rate of return on equity %	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%
3	Return on Equity	61.72	61.72	61.72	89.33	89.33	89.33
	Equity with effect from 1st April 2016						
4	Opening equity	3029.05	3678.85	4074.75	2056.17	2774.21	3373.63
5	Equity addition during the year	649.80	395.90	103.49	718.04	599.42	196.19
6	Closing equity (4+5)	3678.85	4074.75	4178.24	2774.21	3373.63	3569.82
7	Average equity (4+6)/2	3353.95	3876.80	4126.49	2415.19	3073.92	3471.72
8	Rate of return on equity	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%
9	Return on equity (7x8)	469.55	542.75	577.71	338.13	430.35	486.04
10	Total Return on equity (3+9)	531.27	604.47	639.43	427.46	519.68	575.37

7.19 Operation and Maintenance (O&M) expenses

Regulation 22 BERC (Multi Year Distribution Tariff) Regulations 2024 states that:

- (a) The Commission shall stipulate a separate trajectory of norms for each of the components of O&M expenses viz., Employee cost, Repair and Maintenance (R&M) expense and Administrative and General (A&G) expense. Provided that such norms may be specified for a specific Distribution Licensee or a class of Distribution Licensees.
- (b) Norms shall be defined in terms of combination of number of personnel per 1000 consumers and number of personnel per substation along with annual expenses per

personnel for Employee expenses; combination of A&G expense per personnel and A&G expense per 1000 consumers for A&G expenses and R&M expense as percentage of gross fixed assets for estimation of R&M expenses.

(c) One-time expenses such as expense due to change in accounting policy and arrears paid due to pay commission recommendation shall be excluded from the norms in the trajectory.

(d) The unforeseen expenses beyond the control of the Distribution Licensee such as pay revision, shall be excluded from the norms in the trajectory.

(e) The One-time expenses and the expenses beyond the control of the Distribution Licensee shall be allowed by the Commission over and above normative Operation & Maintenance Expenses after prudence check.

(f) The norms in the trajectory shall be specified over the control period with due consideration to productivity improvements.

(g) The norms shall be determined at constant prices of base year and escalation on account of inflation shall be over and above the baseline. Provided that for the purpose of escalation based on Wholesale Price Index (WPI_{in}) and Consumer Price Index(CPI_{in}),WP_{in} is to be computed based on the average yearly inflation derived based on the monthly Wholesale Price Index of the respective past three financial years(including the year of Truing-up)as per the Office of Economic Advisor Ministry of Commerce & Industry Government of India and CPI_{in} is to be computed based on the average yearly inflation derived based on the monthly Consumer Price Index for Industrial Workers(all-India)of the respective past three financial years(including the year of Truing-up)as per the Labour Bureau Government of India, at the time of filing of Petition.

(h) The Distribution Licensee specific trajectory of norms in terms of Regulation 7 shall be identified by the Commission on the basis of absolute and relative analysis.

(i) In absolute analysis, Distribution Licensee's audited accounts of operations for last three years, expenses claimed for control period, historically approved cost, and prudence check shall be used by the Commission to estimate values of norms.

(j) In relative analysis, performance parameters of other Distribution Licensees within the same state or in other states, shall be considered by the Commission to estimate norms.

Provided that other Distribution Licensees so chosen shall have similar profile as that of the Distribution Licensee under consideration in terms of consumer mix, type of license area (city, state, etc.) type of distribution networks, viz., underground/overhead, High Tension (HT) consumer, Low Tension (LT) consumer ratio, etc.

(k) Suitable average of outcomes of absolute and relative analysis shall be taken by the Commission to fix the norms over the control period for the Distribution Licensee.

7.20 Employee Costs

Petitioner's submission:

Discoms have submitted that the in terms of Regulation 22, had determined the norms for computation of employee expenses and accordingly based on the determined norms employee cost is estimated with CPI inflation indexation of 5.46% for FY 2025-26 to FY 2027-28 is shown as detailed in the table below:

Table 7.63: Employee expense norm for NBPDCCL

Employee Norms	FY 2021-22	FY 2022-23	FY 2023-24	Average
No of employee	4260	4153	4088	
No of consumers (in 1000)	11383	11950	12694	
No of substation	606	628	633	
Number of personnel per 1000 consumers (15%)	0.05614	0.05213	0.04831	0.05219
Number of personal per substation (85%)	5.97525	5.62110	5.48942	5.69525
Total Employee Cost	411.07	503.79	482.67	
Annual expenses per personnel (in Cr)	0.0964953	0.1213075	0.11807	0.11196

Table 7.64: Employee expense norm for NBPDCCL

Employee Norms	FY 2021-22	FY 2022-23	FY 2023-24	Average
No of employee	4260	4153	4088	
No of consumers (in 1000)	11383	11950	12694	
No of substation	606	628	633	
Number of personnel per 1000 consumers (15%)	0.05614	0.05213	0.04831	0.05219
Number of personal per substation (85%)	5.97525	5.62110	5.48942	5.69525

Employee Norms	FY 2021-22	FY 2022-23	FY 2023-24	Average
Total Employee Cost	411.07	503.79	482.67	
Annual expenses per personnel (in Cr)	0.0964953	0.1213075	0.11807	0.11196

Table 7.65: Employee expense norm for SBPDCL

Employee Norms	FY 2021-22	FY 2022-23	FY 2023-24	Average
No of employee	5907	5760	5638	
No of consumers (in 1000)	6536	7005.64	7502.885	
No of substation	596	608	615	
number of personnel per 1000 consumers (15%)	0.13556	0.12333	0.11272	0.12387
number of personal per substation (85%)	8.42441	8.05263	7.79236	8.08980
Total Employee Cost	714.63	711.833	690.5895	
Annual expenses per personnel (in INR Crore)	0.1209797	0.1235821	0.1224884	0.12235

Discoms have requested the Commission to fix the norms for determination of base value of number of employees required per thousand consumers considering the following points: -

- a) The number of employees could not be increased in accordance with the increase in number of consumers because recruitment could not be made in proportionate basis timely.
- b) The standard of performance has remained unchanged.
- c) The norms specified should be comparable to the norm followed in other DISCOMs.
- d) The norms to be fixed should be such that the actual historical employee costs of DISCOMs are met.

It is submitted that the current computation has been made considering the previous norms and requested to fix the norms considering the points mentioned above and approve the employee expenses for FY2025-26 to FY 2027-28.

Table 7.66 Employee expenses projected for FY 2025-26 to FY 2027-28 (in INR Crore)

S. No	Particulars	NBPDC				SBPDCL			
		Base Norms for Control Period FY 25-26 to FY 27-28	FY 2025-26	FY 2026-27	FY 2027-28	Base Norms for Control Period FY 25-26 to FY 27-28	FY 2025-26	FY 2026-27	FY 2027-28
1	Average annual CPI index		5.46%	5.46%	5.46%		5.46%	5.46%	5.46%
2	Norms-Number of personnel per 1000 consumers (15%)	0.0521 9	0.0521 9	0.0521 9	0.0521 9	0.1238 7	0.1238 7	0.1238 7	0.1238 7
3	Norms-Number of personal per substation (85%)	5.6952 5	5.6952 5	5.6952 5	5.6952 5	8.0898 0	8.0898 0	8.0898 0	8.0898 0
4	No. of consumers (1000)		13374	13733	14107		8257	8668	9105
5	No of substations		653	663	673		635	645	655
6	Annual expenses per personnel (Rs. Cr)	0.1119 6	0.1181	0.1245	0.1313	0.1223 5	0.1290	0.1361	0.1435
7	Employee cost per 1000 consumers		82.41	89.24	96.67		127.19	138.23	150.31
8	Employee cost per substation		439.09	470.13	503.26		662.81	709.98	760.32
9	Total Employee cost		521.49	559.37	599.93		789.99	848.21	910.62

Commission's analysis:

The Commission notes that Regulation 22 of the BERC (Multi Year Distribution Tariff) Regulations 2024 specify separate trajectory of norms for each of the components of O&M expense (Employee cost, R&M expenses and A&G expenses) shall be stipulated based on no. of personnel per 1000 consumers and no. of personnel per substation along with annual expenses per personnel for employee expenses; combination of A&G expenses per personnel and A&G expenses per 1000 consumers for A&G expenses and R&M expenses as a percentage of GFA.

The Commission has considered actual no. of consumers, actual no. of substations and actual number of employees during FY 2021-22, FY 2022-23 and FY 2023-24 as given below for computation of norm for employee expenses per employee.

The base value of determined employee expense norm is, as given below:

Table 7.67 : Base value for NBPDC

Particulars	FY 2021-22	FY 2022-23	FY 2023-24
No. of employees (1000)	4260	4153	4088
No. of Consumers (1000)	11383	11950	12,694
No. of Substations	606	628	633.00

Particulars	FY 2021-22	FY 2022-23	FY 2023-24
Employee expenses as per audited accounts	411.07	503.79	482.67

Table 7.68 : Base value for NBPDCCL

Particulars	FY 2021-22	FY 2022-23	FY 2023-24
No. of employees (1000)	5907	5760	5638
No. of Consumers (1000)	6536	7006	7503.00
No. of Substations	596	608	615.00
Employee expenses as per audited accounts	714.63	711.83	690.58

Regulation 22.1 of BERC (Multi Year Distribution Tariff) Regulations 2024 specifies, employee cost shall be computed as per the approved norm escalated by CPI. CPI inflation is defined as the average increase in the CPI for immediately preceding three years and escalated the base annual expenses per personnel to arrive the normative annual expenses for personnel for FY 2025-26.

The available CPI index points are up-to FY 2023-24 and accordingly, the Commission provisionally considers the average CPI inflation at 5.46 % for FY 2025-26 based on the available CPI index points as given below:

Table 7.69: CPI Inflation considered

Particulars	2020-21	2021-22	2022-23	2023-24
Annual Average CPI Index	338.69	356.06	377.62	397.20
CPI Inflation		5.13%	6.05%	5.19%
Weighted average CPI inflation				5.46 %

The Commission, in terms of regulation 22 (g), (h) and (i) has considered the three years average of the actual employee cost and arrived at the base value of number of personnel per 1000 consumers and number of personnel per substation. The no. of consumers for FY 2021-22 to FY 2023-24 are considered as approved in true up by the Commission for the relevant year.

The Commission following the methodology adopted in previous control period for determination of norms, has allocated 15% of the total employees for consumer servicing and 85% of the total employees for Substations. The Substation and the entire distribution network including DTRs upto consumer service pole come under operation and maintenance of distribution network and accordingly 85% of the employees are considered under Substations for the purpose of computing norm.

The Commission has computed the employee norm and employee expenses for the control period as given in the following tables:

Table 7.70: Employee norm for NBPDC

Particulars	FY 2021-22	FY 2022-23	FY 2023-24	Average	Base Value
No. of employees	4260	4153	4088		
No. of Substations	606	628	633		
Number of personnel per 1000 consumers (15%)	0.0561	0.0521	0.0483	0.0522	0.0522
Number of personal per substation (85%)	5.9753	5.6211	5.4894	5.6953	5.6953
Employee expenses as per audited accounts	411.07	503.79	482.6726		
Annual expenses per employee (in Crore)	0.0965	0.1213	0.1181	0.1120	0.1120

Table 7.71: Employee expenses based on norm considered for the control period for NBPDC

Particulars	Base Value	FY 2025-26	FY 2026-27	FY 2027-28
Average annual CPI index		5.46%	5.46%	5.46%
Norms-Number of personnel per 1000 consumers	0.0522	0.0522	0.0522	0.0522
Norms-Number of personal per substation	5.6953	5.6953	5.6953	5.6953
No. of consumers (1000)		13374	13733	14107
No of substations		653	663	673
Annual expenses per personnel (Rs. Crore)	0.1120	0.1181	0.1245	0.1313
Employee cost per 1000 consumers		84.62	89.24	96.67
Employee cost per substation		439.09	470.13	503.26
Total Employee cost		523.71	559.37	599.93

Table 7.72: Employee norm for SBPDCL

Particulars	FY 2021-22	FY 2022-23	FY 2023-24	Average	Base Value
No. of employees	5907	5760	5638		
No. of Substations	596	608	615		

Particulars	FY 2021-22	FY 2022-23	FY 2023-24	Average	Base Value
Number of personnel per 1000 consumers (15%)	0.13556	0.12332	0.11271	0.12387	0.12387
Number of personal per substation (85%)	8.42441	8.05263	7.79236	8.08980	8.08980
Employee expenses as per audited accounts	714.63	711.83	690.58		
Annual expenses per employee (in Crore)	0.1209797	0.1235821	0.1224884	0.12235	0.12235

Table 7.73: Employee expenses based on norm considered for the control period for SBPDCL

Particulars	Base Value	FY 2025-26	FY 2026-27	FY 2027-28
Average annual CPI index		5.46%	5.46%	5.46%
Norms-Number of personnel per 1000 consumers	0.1239	0.1239	0.1239	0.1239
Norms-Number of personal per substation	8.0898	8.0898	8.0898	8.0898
No. of consumers (1000)		8257	8668	9105
No of substations		635	645	655
Annual expenses per personnel (Rs. Crore)	0.1224	0.1290	0.1361	0.1435
Employee cost per 1000 consumers		138.53	146.09	161.83
Employee cost per substation		662.81	709.97	760.32
Total Employee cost		801.34	856.06	922.14

7.21 Administration and General (A&G) Expenses

Petitioner's submission

Discoms have submitted that the Commission, in terms of regulation 22 of BERC (Multi Year Distribution Tariff) Regulations 2024, provides for methodology of Administrative and General expense determination for the MYT control period of FY 2025-26 to FY 2027-28. The Petitioner has considered the base value of A&G expense norm per 1000 consumers and A&G expense per employee and annual A&G expenses per 1000 consumers and per employee as detailed in the table below.

Table 7.74: A&G expense norm proposed for NBPDCCL

Particular	FY 2021-22	FY 2022-23	FY 2023-24	Average	Base A&G expense norm for NBPDCCL
No. of employee	4,260	4,153	4,088		
No of consumers (per 1000)	11383	11950	12694		
Norm-Number of employees per 1000 consumers	0.3742	0.3475	0.3220	0.3479	0.3479
A&G expenses (Rs. Cr)	258.65	408.18	415.58		
Norms-A&G expenses per personal	0.0607	0.0983	0.1017	0.0869	0.0869
Annual A&G expenses per 1000 consumers (Rs. Crore) -45%	0.0102	0.0154	0.0147	0.0134	0.0134
Annual A&G expenses per employee (Rs. Crore) -55%	0.0334	0.0541	0.0559	0.0478	0.0478

Table 7.75: A&G expense norm proposed for SBPDCL

Particular	FY 2021-22	FY 2022-23	FY 2023-24	Average	Base A&G expense norm for SBPDCL
No. of employee	5,907	5,760	5,638		
No of consumers (per 1000)	6536	7006	7503		
Norm-Number of employees per 1000 consumers	0.9037	0.8222	0.7514	0.8258	0.8258
A&G expenses (Rs. Cr)	195.56	337.42	397.95		
Norms-A&G expenses per personal	0.0331	0.0586	0.0706	0.0541	0.0541
Annual A&G expenses per 1000 consumers (Rs. Crore) -45%	0.0135	0.0217	0.0239	0.0197	0.0197
Annual A&G expenses per employee (Rs. Crore) -55%	0.0182	0.0322	0.0388	0.0297	0.0297

Regulation 22.3 specifies A&G expenses shall be computed as per the approved norm escalated by the average increase in WPI for immediately preceding three years. The Discoms have computed the WPI inflationary increase as given below:

Table 7.76: WPI inflationary increase projected by Discoms

Years	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
Average WPI index points for FY	123.38	139.41	152.38	151.42
Increase in WPI index over previous year		13.00%	9.30%	-0.63%
Average WPI inflationary increase				7.22%

The Discoms, in addition to the normative A&G expenses have projected rent charges for smart prepaid meters proposed to be installed under Phase-II and Phase-III under RDSS scheme. The total A&G expenses computed for the control period are given below.

Table 7.77: A&G expenses projected for control period (Rs. Crore)

Sno.	Particulars	NBPDCCL				SBPDCL			
		Norms for Control Period 25-26 to 27-28	FY 2025-26	FY 2026-27	FY 2027-28	Norms for Control Period 25-26 to 27-28	FY 2025-26	FY 2026-27	FY 2027-28
1	Average annual WPI CPI index		7.22%	7.22%	7.22%		7.22%	7.22%	7.22%
2	Norms-Nos. of employees per 1000 consumers	0.3479	0.3479	0.3479	0.3479	0.826	0.826	0.826	0.826
3	No. of consumers (1000)		13374	13733	14107		7958	8202	8457
4	No of employees		5145	5418	5691		6754	7055	7328
5	Annual expenses per 1000 consumers (Rs. Cr) (45%)	0.0134	0.01006	0.01078	0.01156	0.0197	0.01293	0.01386	0.01487
6	Annual expenses per employee (Rs. Cr) (55%)	0.0478	0.02939	0.03151	0.03378	0.0297	0.01580	0.01694	0.01817
7	A&G cost for 1000 consumers		134.49	148.08	163.10		102.90	113.71	125.71
8	A&G cost for employee		151.19	170.71	192.27		106.73	119.54	133.14
9	Grand Total		285.68	318.80	355.37		209.63	233.25	258.85
10	Rent Charges for Smart Prepaid Meter		781.24	1091.20	1117.82		229.72	329.63	329.63
a	Phase I		106.58	106.58	106.58		136.59	136.59	136.59
b	Phase II		249.82	250.99	250.99		84.72	84.72	84.72
c	Phase III		424.84	733.63	760.25		229.72	329.63	329.63
11	Net Total A&G cost		1066.96	1409.99	1473.18		660.66	784.44	809.79

Commission's analysis:

The Commission notes that Regulation 22 of the BERC (Multi Year Distribution Tariff) Regulations 2024 specifies separate trajectory of norms for each of the components of O&M expense (Employee cost, R&M expenses and A&G expenses) shall be stipulated based on no. of personnel per 1000 consumers and no. of personnel per substation along with annual expenses per personnel for employee expenses; combination of A&G expenses per personnel and A&G expenses per 1000 consumers for A&G expenses and R&M expenses as a percentage of GFA.

The Commission has considered the three years average A&G expenses based on the A&G expenses approved in the true up for the relevant years of FY 2021-22 to FY 2023-24.

NBPDCCL has submitted that requirement of personnel has been estimated on the basis of the possible requirement of manpower for newly created units and the number of existing vacancies. However, NBPDCCL has not submitted the documentary evidence in support of process/plan of recruitment of personnel during the control period. As such, the Commission has not considered the addition of no. of employees and accordingly the no. of employees provisionally considered for the control period as given hereunder.

Table 7.78: No. of employees considered for NBPDCCL for the control period

Particulars	FY 2024-25 (RE)	FY 2025-26 (projected)	FY 2026-27 (projected)	FY 2027-28 (projected)
No. of employees at the beginning of the year	4088	4029	5145	5418
No. of employee addition during the year	26	1170	329	321
No. of employees retiring / leaving during the year	85	54	56	48
Total No. of employees at the end of the year (1+2-3)	4029	5145	5418	5691

SBPDCL has submitted that requirement of personnel has been estimated on the basis of the possible requirement of manpower for newly created units and the number of existing vacancies. However, SBPDCL has not submitted the documentary evidence in

support of process/plan of recruitment of personnel during the control period. As such, the Commission has not considered the addition of no. of employees and accordingly the no. of employees provisionally considered for the control period as given hereunder.

Table 7.79: No. of employees considered for SBPDCL for the control period

Particulars	FY 2024-25 (RE)	FY 2025-26 (projected)	FY 2026-27 (projected)	FY 2027-28 (projected)
No. of employees at the beginning of the year	5638	5488	6754	7055
No. of employee addition during the year	17	1400	420	380
No. of employees retiring / leaving during the year	167	134	119	107
Total No. of employees at the end of the year (1+2-3)	5488	6754	7055	7328

The A&G expenses are allocated in the ratio of 55% for employees and 45% for consumers, as the meter reading expenses, billing expenses, franchisee commission and incentive, etc. are in the range of 40%-50% of total A&G expenses which are related to consumer servicing.

Regulation 22.3 of BERC (Multi Year Distribution Tariff) Regulations 2024 specify:

“A&G expense shall be computed as per the norm escalated by wholesale price index (WPI) and adjusted by provisions for confirmed initiatives (IT etc. initiatives as proposed by the Distribution Licensee and validated by the Commission) or other expected onetime expenses, and shall be governed by following formula:

$$A\&G_n = (A\&G_b * WPI \text{ inflation}) + Provision$$

Where:

A&G_n: A&G expense for the year n A&G_b: A&G expense as per the norm

WPI inflation: is the average increase in the Wholesale Price Index (WPI) for immediately preceding three years

Provision: Cost for initiatives or other one-time expenses as proposed by the Distribution Licensee and validated by the Commission”.

The Commission, in terms of regulation 22.3, has considered the WPI index points available on the official website <https://eaindustry.nic.in/> and arrived at the WPI weighted average index increase as given below

Table 7.80: Weighted average WPI index inflation

Particulars	2020-21	2021-22	2022-23	2023-24
Average annual WPI index	123.38	139.41	152.53	151.42
Year on year increase		13.00%	9.41%	-0.73%
Average increase	7.23 %			

The Commission has revised the A&G base norm for both DISCOM by taking actual meter reading bill and distribution, franchise commission and rent charges for smart meter is reduced from their actual audited account of FY 2021-22, FY 2022-23 and FY 2023-24.

Table 7.81: Revised A&G expenses for NBPDCCL

Particulars	FY 2021-22	FY 2022-23	FY 2023-24
Total A&G expenses	258.64	407.11	415.57
Meter Reading and Bill distribution	79.14	127.13	159.08
Franchise Commission	74.68	84.53	67.71
Rent Charges for smart prepaid meter	0	45.09	61.22
Net A&G expenses	104.82	150.36	127.56

Table 7.82: Revised A&G expenses for SBPDCL

Particulars	FY 2021-22	FY 2022-23	FY 2023-24
Total A&G expenses	195.55	337.42	397.95
Meter Reading and Bill distribution	78.88	130.42	148.46
Franchise Commission	10.24	6.77	2.53
Rent Charges for smart prepaid meter	15.33	61.04	103.34
Net A&G expenses	91.1	139.19	143.62

Therefore, the Commission has computed the A&G expense norm and A&G expenses in accordance with regulation 22 and 22.3 for the control period as given in the

following tables.

Table 7.83: A&G expenses norm for NBPDC

Particulars	FY 2021-22	FY 2022-23	FY 2023-24	Average	Base Value
No. of employees	4260	4153	4088		
No. of consumers	11383	11950	12694		
A&G expenses per 1000 consumers	0.37424	0.34753	0.32204	0.34794	0.34794
A&G expenses per employee	0.02461	0.03621	0.03120	0.03067	0.03067
A&G expenses as per audited accounts	104.82	150.36	127.56		
Annual expenses per 1000 consumers (in Cr) 45%	0.0041	0.0057	0.0045	0.00478	0.00478
Annual expenses per employee (in Cr) 55%	0.0135	0.0199	0.0172	0.01687	0.01687

Table 7.84: A&G expenses approved for the control period for NBPDC

Particulars	Base Value Norm	FY 2025-26	FY 2026-27	FY 2027-28
Average annual WPI index		7.23%	7.23%	7.23%
Norms-A&G expenses per 1000 consumers	0.34794	0.34794	0.34794	0.34794
No. of consumers (1000)		13374	13733	14107
No of employees		5145	5418	5691
Annual expenses per 1000 consumers (Rs. Crore)	0.00478	0.00512	0.00549	0.00589
Annual expenses per employee (Rs. Crore)	0.01687	0.01809	0.01940	0.02080
A&G cost for 1000 consumers		68.49	75.41	83.06
A&G cost for employees		93.06	105.08	118.35
Total A&G expenses (Rs. Crore)		161.55	180.49	201.42

Table 7.85: A&G expenses norm for SBPDCL

Particulars	FY 2021-22	FY 2022-23	FY 2023-24	Average	Base Value
No. of employees	5907	5760	5638		
No. of consumers	6536	7006	7503		
A&G expenses per 1000 consumers	0.90376	0.82215	0.75143	0.82578	0.82578
A&G expenses per employee	0.01542	0.02416	0.02547	0.02169	0.02169
A&G expenses as per audited accounts	91.1	139.19	143.62		

Particulars	FY 2021-22	FY 2022-23	FY 2023-24	Average	Base Value
Annual expenses per 1000 consumers (in Cr) 45%	0.0063	0.0089	0.0086	0.0079	0.00794
Annual expenses per employee (in Cr) 55%	0.0085	0.0133	0.0140	0.01193	0.01193

Table 7.86: A&G expenses approved for the control period for SBPDCL

Particulars	Base Value Norm	FY 2025-26	FY 2026-27	FY 2027-28
Average annual WPI index	0.82578	7.23%	7.23%	7.23%
Norms-A&G expenses per 1000 consumers		0.82578	0.82578	0.82578
No. of consumers (1000)		7958	8202	8457
No of employees	0.00794	6754	7055	7328
Annual expenses per 1000 consumers (Rs. Crore)	0.01193	0.00852	0.00913	0.00979
Annual expenses per employee (Rs. Crore)		0.01279	0.01371	0.01470
A&G cost for 1000 consumers		67.77	74.90	82.80
A&G cost for employees		86.38	96.75	107.76
Total A&G expenses (Rs. Crore)		154.15	171.65	190.56

Further, the Commission disallows the rental charges for smart meter project phase II and phase -III due to non-filing of the petition regarding rental charges, which is already discussed in true-up and APR chapter. Therefore, the Commission has not approved the rental charges for phase II and phase III smart meter project. However, as rental charges for phase-I was already approved by the Commission, the same is allowed. Hence, the total A&G cost is approved in the table given below:

Table 7.87: Total A&G expenses approved for control period

Particulars	NBPDCCL			SBPDCL		
	FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
Normative A&G expenses approved	161.55	180.49	201.42	154.15	171.65	190.56
Rental charges for smart prepaid meters	106.58	106.58	106.58	136.59	136.59	136.59

Particulars	NBPDCCL			SBPDCL		
	FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
Phase I	106.58	106.58	106.58	136.59	136.59	136.59
Phase II	0	0	0	0	0	0
Phase III	0	0	0	0	0	0
Total A&G expenses	268.13	287.07	308.00	290.74	308.24	327.15

7.22 Repairs and Maintenance (R&M) Expenses

Petitioner's submission:

Discoms have submitted that Regulation 22.2 of BERC (Multi Year Distribution Tariff) Regulations 2024, specify R&M expenses as percentage (as per the norm determined) of Gross Fixed Assets excluding land cost for the year. The projected R&M norm i.e. 'K' factor is 1.08% for NBPDCCL and 1.58% for SBPDCL for the MYT control period of FY 2025-26 to FY 2027-28. Discoms have projected the R&M expenses for FY 2025-26 to FY 2027-28 as shown in the table below:

Table 7.88: Norms of R&M expenses projected for control period

S. No	Particulars	NBPDCCL			SBPDCL		
		FY 2021-22	FY 2022-23	FY 2023-24	FY 2021-22	FY 2022-23	FY 2023-24
1	Opening GFA	16678	21462	22532	12989.80	16300.88	17558.67
2	Less: Cost of land	1036	1047	1047	1544.71	1546.28	1546.28
3	Net GFA (1-2)	15642	20415	21485	11445.09	14754.60	16012.39
4	Actual R&M Expense for the year as per audited accounts	162	197	263	166.18	216.31	290.58
5	% of R&M expenses to GFA (4/3)*100	1.04%	0.97%	1.23%	1.45%	1.47%	1.81%
	K Factor	1.08%			1.58%		

Table 7.89: R&M Expense of NBPDCCL (in INR Crore)

S. No	Particulars	FY 2025-26	FY 2026-27	FY 2027-28
1	Opening GFA	27212.95	31151.10	33550.48
2	Opening Land Cost	1159.21	1270.89	1337.88
3	Opening GFA exc. land cost	26053.73	29880.21	32212.60
4	K Factor	1.08%	1.08%	1.08%
5	R&M Expense	280.29	321.45	346.54

Table 7.90: R&M Expense of SBPDCL (in INR Crore)

S. No	Particulars	FY 2025-26	FY 2026-27	FY 2027-28
1	Opening GFA	21317.40	24688.48	27502.65
2	Opening Land Cost	1773.82	2061.64	2330.71
3	Opening GFA exc. land cost	19543.58	22626.84	25171.94
4	K Factor	1.58%	1.58%	1.58%
5	R&M Expense	308.32	356.96	397.11

Commission's analysis

Regulation 22 of BERC (Multi Year Distribution Tariff) Regulations 2024, specify:

"Repairs and Maintenance expense shall be calculated as percentage (as per the norm determined) of Opening Gross Fixed Assets for the year governed by following formula:

$$R\&M_n = K_b * GFAn$$

Where

R&M_n : Repairs and Maintenance expense for nth year

GFAn : Opening Gross Fixed Assets for nth year

K_b : Percentage point as per the norm"

The Regulation 22 (a) of the BERC (Multi Year Distribution Tariff) Regulations, 2021 specify;

"The Commission shall stipulate a separate trajectory of norms for each of the component of O&M expenses viz. Employee cost, R&M expense and A&G expense."

The Regulation 22 (i) of the aforesaid Regulations specify to estimate values of norms shall be based on the last 3 (three) years audited accounts of operations.

The Commission, in view of the regulations, determined the R&M norm i.e. 'K' Factor based on three (3) years audited accounts of FY 2021-22, FY 2022-23 and FY 2023-24 for the purpose of computation of R&M expenses for the control period as given below:

Table 7.91: R&M norm "K" factor approved by the Commission

Particulars	NBPDC			SBPDCL		
	FY 2021-22	FY 2022-23	FY 2023-24	FY 2021-22	FY 2022-23	FY 2023-24
Net GFA	16928.46	19961.24	20981.21	12224.87	13874.61	15132.41
Actual R&M Expense for the year as per audited accounts	161.96	197.34	217.65	166.18	216.31	290.58

Particulars	NBPDC			SBPDCL		
	FY 2021-22	FY 2022-23	FY 2023-24	FY 2021-22	FY 2022-23	FY 2023-24
% of R&M expenses to GFA (4/3)*100	0.96%	0.99%	1.04%	1.36%	1.56%	1.92%
K Factor	0.99%			1.61%		

The Commission accordingly determines the 'K' factor (as above) for the Discoms for the control period and computed the R&M expenses adopting 'K' factor on the Opening GFA for the control period as detailed in the Table below:

Table 7.92: R&M expenses considered for the control period (Rs. Crore)

Sl. No.	Particulars	NBPDC			SBPDCL		
		FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
1	Opening depreciable Assets (excl. land)	23834.67	25888.98	27141.65	17852.31	19957.95	21686.94
2	K Factor	0.99%	0.99%	0.99%	1.61%	1.61%	1.61%
3	R&M Expense for the year (1*2)	236.97	257.40	269.85	287.94	321.90	349.78

6.22.1 Holding Company Expenses

Petitioner's submission

Discoms have submitted that holding company expenses by escalating the expenses projected for FY 2024-25 in Annual performance review by 10%. The below table represents the allocation of Holding Company cost towards Petitioner for FY 2025-26 to FY 2027-28:

Table 7.93: Holding Company Expenses projected for the control period (Rs. Crore)

Particulars	NBPDC			SBPDCL		
	FY 2025-26	FY 2026-27	FY 2027-18	FY 2025-26	FY 2026-27	FY 2027-18
Previous year expenses	37.53	41.29	45.42	38.21	42.03	46.23
Inflation rate considered	10%	10%	10%	10%	10%	10%
Inflationary increase	3.75	4.13	4.54	3.82	4.20	4.62
Total	41.29	45.42	49.96	42.03	46.23	50.85

Commission's analysis:

The Commission has considered the holding company expenses considered in review for FY 2024-25 as base holding company expenses and further escalated with CPI inflationary increase of 5.46 % (as adopted for Employee expenses since the holding

company expenses majorly represent employee/Manpower expenses). The Commission, in terms of Bihar State Electricity Reforms Transfer Scheme, 2012, has considered the holding company expenses for the control period, as detailed in the table below:

Table 7.94: Holding company expenses approved for the control period (Rs. Crore)

Sl. No.	Particulars	NBPDCCL			SBPDCL		
		FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
1	Holding company expenses considered in review (APR) for FY 2024-25	35.98	37.94	40.01	36.62	38.62	40.73
2	Inflationary increase @5.46 %	5.46%	5.46%	5.46%	5.46%	5.46%	5.46%
3	Holding company expenses	37.94	40.01	42.20	38.62	40.73	42.95

7.23 Summary of Operation and Maintenance (O&M) Expenses

The summary of the O&M expenses approved for the control period as tabulated below:

Table 7.95: Total O&M cost approved for the control period (Rs. Crore)

Sl. No.	Particulars	NBPDCCL			SBPDCL		
		FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
1	Employee cost	523.71	559.37	599.93	801.33	856.06	922.14
2	R&M expenses	236.97	257.40	269.85	287.94	321.90	349.78
3	A&G Expenses*	268.13	287.07	308.00	290.74	308.24	327.15
4	Holding company expenses	37.94	40.01	42.20	38.62	40.73	42.95
5	Total O& M cost	1066.76	1143.86	1219.98	1418.64	1526.93	1642.03

*Including smart prepaid meter rental charges

7.24 Interest on Security Deposit

Petitioner's submission:

Discoms have submitted that interest on Security Deposit amount has been claimed as per the Regulation 26 of BERC (Multi Year Distribution Tariff) Regulations 2024. The interest on security deposit is as per prevailing RBI Bank Rate of 6.50 %. The Discoms have projected interest on security deposit for the control period as

detailed in the Table below:-

Table 7.96: Interest on security deposit projected for the control period (Rs. Crore)

S. No.	Particulars	NBPDCCL			SBPDCL		
		FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
1	Opening Security Deposit	526.77	564.80	602.83	894.14	949.42	1004.70
2	Addition / (Deletion) during the year	38.03	38.03	38.03	55.28	55.28	55.28
3	Closing Security Deposit	564.80	602.83	640.86	949.42	1004.70	1059.97
4	Average Security Deposit (1+3)/2	545.79	583.82	621.85	921.78	977.06	1032.33
5	RBI Bank Rate	6.50%	6.50%	6.50%	6.50%	6.50%	6.50%
6	Interest on Security Deposit	35.48	37.95	40.42	59.92	63.51	67.10

Commission's analysis:

Regulation 26 of the BERC (Multi Year Distribution Tariff) Regulations 2024 specifies that

“Provided further that interest shall be allowed on consumer security deposits and security deposits from Distribution System users held during the year at the rate as of the date on which petition for determination is filed. The interest allowed shall be subject to true up at weighted average Bank Rate of the concern Financial Year.”

The Commission has considered opening SD from consumer for FY 2025-26 based on the closing SD approved in review for FY 2024-25. Addition to security deposit is considered at the same level of addition to SD projected by DISCOMs. The rate of interest is provisionally considered as per Bank Rate projected by the Petitioners.

The Commission considers the interest on consumer's security deposit for the control period as given in the Table below:

Table 7.97: Interest on security deposit approved for the control period (Rs. Crore)

Sl. No.	Particulars	NBPDCCL			SBPDCL		
		FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
1	Opening balance of Security deposit	526.77	564.80	602.83	894.14	949.42	1004.70
2	Addition during the year	38.03	38.03	38.03	55.28	55.28	55.28
3	Closing SD	564.80	602.83	640.86	949.42	1004.70	1059.98
4	Average SD	545.79	583.82	621.85	921.78	977.06	1032.34
5	Rate of interest	6.50%	6.50%	6.50%	6.50%	6.50%	6.50%
6	Interest on SD	35.48	37.95	40.42	59.92	63.51	67.10

7.25 Non-Tariff Income**Petitioner's submission:**

The Petitioners submitted that Non-Tariff income includes bank charges, interest on investments and bank balances, miscellaneous recoveries etc. The Petitioners have projected non-tariff income for FY 2025-26 to FY 2027-28 based on escalation on the non-tariff income in FY 2024-25 (except for interest income, DPS, and other few items). The Non-tariff income has been projected at such a rate due to the reasons that the DISCOMs while implementing Smart prepaid meters in the state in the coming years are expecting arrear and DPS recovery at a higher rate as compared to previous years, which is further expected to increase the NTI at a higher rate in the coming years.

The Petitioner has further deducted the cost of funding the DPS from the total Non-Tariff Income and calculated the net Non-tariff income as follows:

The below table demonstrates the other non-tariff income for FY 2025-26 to FY 2027-28: -

Table 7.98: Projected Non-tariff Income for the control period (Rs. Crore)

Sr. No	Particulars	NBPDCCL			SBPDCL		
		FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
1	Interest on Advances to Suppliers/Contractors	19.91	19.91	19.91	30.66	30.66	30.66
2	Interest on Saving Accounts	17.03	17.03	17.03	41.09	41.09	41.09
3	Interest on Staff Loan & Advances	22.61	22.61	22.61	0.01	0.01	0.01
A	Interest Income	59.55	59.55	59.55	71.76	71.76	71.76
1	Delayed Payment Surcharge from Consumers	466.90	466.90	466.90	71.64	71.64	71.64
2	Income From Interest on TDS Refund				0.17	0.17	0.17
3	Income from sale of tender paper	1.06	1.06	1.06			
4	Miscellaneous Receipts	0.67	0.67	0.67	7.83	7.83	7.83
5	Re-imbursement from Disaster Management						
6	Rebate and Discount Received	11.42	11.42	11.42	0.00	0.00	0.00
7	SCED benefits	25.02	25.02	25.02			
8	Consumer contribution income	4.08	4.08	4.08	3.04	3.04	3.04
9	Rental income	1.20	1.20	1.20	2.41	2.41	2.41
10	Income from sale of Scrap	13.52	13.52	13.52	20.07	20.07	20.07
11	Supervision Charge	25.70	25.70	25.70	23.33	23.33	23.33
12	Incentive on REC Purchase	-	-	-	5.32	5.32	5.32
13	Rebate under RDSS	-	-	-	-	-	-
14	Incentive for GCRT	-	-	-	-	-	-

Sr. No	Particulars	NBPDCCL			SBPDCL		
		FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
15	Miscellaneous charges from Consumers	74.35	74.35	74.35	-	-	-
16	Meter rent / service line rental	2.43	2.43	2.43	1.26	1.26	1.26
B	Other Income	626.34	626.34	626.34	163.18	163.18	163.18
1	Excess provision written back	-	-	-	-	-	-
2	Penalty Charge	-	-	-	-	-	-
3	Income from Hiring/Application Fees etc.	68.57	67.57	67.57	67.93	67.93	67.93
4	Liquidated damage income from Agencies	-	-	-	0.15	0.15	0.15
C	Others	68.57	67.57	67.57	69.34	69.34	69.34
D	Total Non-tariff income	754.46	753.46	753.46	304.28	304.28	304.28
1	Delayed Payment Surcharge from Consumers	466.90	466.90	466.90	71.64	71.64	71.64
2	Principal amount on which DPS Charged	2,593.90	2,593.90	2,593.90	398.00	398.00	398.00
3	Interest Rate of funding DPS	10.45%	10.45%	10.45%	10.45%	10.45%	10.45%
4	Interest on funding Principal	271.06	271.06	271.06	41.59	41.59	41.59
E	Net Non-Tariff Income	483.40	482.40	482.40	262.69	262.69	262.69

Commission's analysis:

Commission has examined the non-tariff income projected by the Discoms and considered justification submitted by the Discoms for anticipating non-tariff income during the control period and accordingly considers the non-tariff income subject to true up.

The Commission has computed the non-tariff income by taking the base value expenses of APR of FY 2024-25. Further, the Commission, considers rebate @1% of the power purchase cost including PGCIL and transmission charges for FY 2025-26 based on the approved power purchase cost. The Commission, accordingly, has considered Non-tariff income for the control period in review as detailed in the table below.

Table 7.99: Non-tariff income approved for the control period (Rs. Crore)

Sl. No.	Particulars	NBPDCCL			SBPDCL		
		FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
1	Base Non-tariff income	550.39	558.83	568.06	455.66	465.70	476.65
2	Less: Rebate included in the	108.99	117.44	126.66	131.92	141.96	152.91

Sl. No.	Particulars	NBPDC			SBPDCL		
		FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
	above						
3	Sub-total	441.39	441.39	441.39	323.74	323.74	323.74
5	Add: Rebate @1% on total power purchase (incl. transmission charges) for FY 2023-24	117.44	126.66	135.67	141.96	152.91	163.60
6	Non-tariff income	558.83	568.06	577.06	465.70	476.65	487.35

7.26 Interest on working capital

Petitioner's submission:

Discoms have submitted that they have estimated the amount towards interest on Working capital for FY 2025-26 to FY 2027-28 as per the Regulation 26 of the Bihar Electricity Regulatory Commission (Multi Year Distribution Tariff) Regulations, 2024, as extracted below:

"The Distribution Licensee shall be allowed interest on estimated level of working capital for the financial year, computed as follows:

a) 45 days equivalent of expected revenue.

b) Maintenance spares@40% of R&M expenses for one month:

Less:

(i) Power purchase cost, transmission charges and load dispatch charges for one month.

(ii) Depreciation, return on equity and contribution to contingency reserves equivalent to 45 days.

(iii) Amount of security deposits and advance from consumers or Distribution System users, if any, held during the year.

Provided that the interest on working capital shall be on normative basis and rate of interest shall be equal to the State Bank one-year Marginal Cost of Funds-based Lending Rate ('MCLR') as of the date on which petition for determination of tariff is filed plus 150 basis points. The rate of interest for the purpose of Truing-up shall be the weighted average MCLR of the concern Financial Year plus 150 basis points.

Provided further that interest shall be allowed on consumer security deposits and security deposits from Distribution System users held during the year at the rate as of the date on which petition for determination is filed. The interest allowed shall be subject to true up at weighted average Bank Rate of the concern Financial Year.

Provided also that if the State Government is providing resource gap grant and/or direct subsidy to consumers, the working capital shall be reduced by 45 days equivalent of that amount.”

Discoms has considered 45 days equivalent expected revenue and 40% of one month of R&M expense as specified in the above Regulation which was further deducted by Power Purchase cost along with transmission charges for one month, depreciation, ROE, contingency reserve for 45 days, consumer security deposit.

The interest on working capital is calculated @ 10.45%, which is SBI one-year MCLR as on the date of filing of the Petition on which 150 basis point is further added as per the applicable Regulations. The detailed working for the interest on working capital requirement is provided in the table below:

Table 7.100: Interest on working capital projected for control period (Rs. Crore)

Sr. No	Particulars	NBPDCCL			SBPDCL		
		FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
1	45 days equivalent of expected revenue	1,828.36	2,011	2,212	2,342.14	2,576	2,834
2	Maintenance spares @40% of R&M expenses for one month	9.34	10.72	11.55	10.28	11.90	13.24
3	Less:						
i.	(i) Power purchase cost, Load dispatch charges and transmission charges for one month.	1,017.02	1,158.71	1,343.41	1,122.97	1,253.33	1,427.02
ii..	(ii) Depreciation, ROE, and contribution to contingency reserve equivalent to 45 days.	185	211	223	133.42	159.74	173.52
iii.	(iii) Amount of security deposits from consumers, if any, held during the year	489	489	488.74	838.87	838.87	838.87
	Total working capital	147.02	163.85	168.83	257.16	336.32	407.82
4	45 days of subsidy						
5	Net working capital	147.02	164	168.83	257.16	336.32	407.82
6	Interest rate	10.45%	10.45%	10.45%	10.45%	10.45%	10.45%
7	Interest on working	15.36	17.12	17.64	26.87	35.15	42.62

Sr. No	Particulars	NBPDC			SBPDCL		
		FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
	capital						

Commission analysis

The Commission has computed the interest on working capital as per the norms prescribed in Regulation 26 of the BERC (Multi Year Distribution Tariff) Regulations 2024. The rate of interest applied on the working capital is @ 10.5 %, as per the SBI MCLR (one year) of 9% plus 150 basis points as on the date of filing of the tariff petition.

Regulation 26 (iii) of the above-mentioned Regulations specifies that

“Provided also that if the State Government is providing resource gap grant and/or direct subsidy to consumers, the working capital shall be reduced by 45 days equivalent of that amount”.

The Commission, as specified in regulation 26 above-mentioned Regulations has considered 45 days equivalent of subsidy and reduced from the working capital requirement.

The Commission has considered closing Security Deposits from the Consumers as approved in Table 7.87 above.

The Commission, based on the expenses/costs approved, has computed the working capital requirement and interest on working capital for the control period as detailed in the Table below:

Table 7.101: Interest on working capital considered for the control period (Rs. Crore)

Sr. No	Particulars	NBPDC			SBPDCL		
		FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
1	Maintenance spares 40% of R&M expenses for one month	7.90	8.58	9.00	9.60	10.73	11.66
2	Receivables – 45 days	1745.76	1894.23	2023.40	2084.90	2267.26	2431.85
3	Total working capital (1+2)	1753.66	1902.81	2032.39	2094.50	2277.99	2443.51
	Less:						
i.	Power purchase cost, transmission charges and load dispatch charges of	978.66	1055.52	1130.54	1182.99	1274.24	1363.37

Sr. No	Particulars	NBPDC			SBPDCL		
		FY 2025-26	FY 2026-27	FY 2027-28	FY 2025-26	FY 2026-27	FY 2027-28
	one month						
ii..	(ii) Depreciation, ROE, and contribution to contingency reserve equivalent to 45 days.	137.80	156.41	165.31	116.00	138.44	151.92
4	c). Security deposit from consumers	564.80	602.83	640.86	949.42	1004.70	1059.98
5	d). Subsidy/Grant received from State Govt. for purchase of power and tariff subsidy	0.00	0.00	0.00	0.00	0.00	0.00
6	Sub-total (a+b+c+d)	1681.25	1814.76	1936.71	2248.41	2417.38	2575.27
7	Net working capital requirement (3-4)	72.41	88.05	95.68	-153.92	-139.39	-131.76
8	Rate of interest	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%
9	Interest on working capital	7.60	9.24	10.05	0.00	0.00	0.00

7.27 Demand Side Management

Petitioner's Submission

The Petitioners submitted the DSM objective as specified in the BERC (Demand Side Management) Regulations, 2014 hereunder:

“3.1 The Commission shall formulate DSM objectives that shall be considered in the advancement and implementation of cost effective DSM initiatives in the State. The objectives may include power shortage mitigation, seasonal peak reduction/peak shifting, cost effective energy savings, lowering the cost of electricity, reduction in emissions of greenhouse gases etc.

While formulating the DSM objective, the Commission may take into consideration the National DSM objectives/Plans formulated by BEE, if any.”

Further, BERC DSM Regulation 2014 specifies that DISCOMs are required to perform assessment of potential of DSM in the state every year, as mentioned hereunder.”

“The Distribution Licensee in the State shall carry out assessment of potential for DSM in the State every year. The first assessment of technical potential for DSM shall be carried out within three months of the notification of these Regulations.”

In view of the above, the Commission had approved DSM charges of INR 30.00 Crore for FY 2024-25 while issuing the tariff order for FY 2024-25 dated 01.03.2024.

Further, the petitioner has projected the DSM charges for FY 2025-26 to FY 2027-28 by considering the annual escalation of 10% as tabulated below:

Table 7.102: DSM charge Projected for FY 2025-26 to FY 2027-28 (in INR Crore) (For NBPDCCL & SBPDCL)

Particulars	FY 2025-26	FY 2026-27	FY 2027-28
DSM Charge (INR Crore)	33.00	36.30	39.93

Therefore, the Commission is requested to allow the provisioning of DSM charges for FY 2025-26 to FY 2027-28 as mentioned above.

Commission Analysis

The Commission has observed that the DISCOMs has not provided any details of DSM activities to be carried over the control period. The objective under DSM includes power shortage mitigation, seasonal peak reduction/peak shifting, cost effective energy savings, lowering the cost of electricity, reduction in emissions of greenhouse gases etc. Further, BERC (Demand Side Management) Regulation 2014, in short BERC (DSM) Regulations 2014, specifies that DISCOMs are required to perform assessment of potential of DSM in the state every year. Further, DSM targets shall be approved by the Commission. The relevant provisions are given below.

“5. DSM Targets

5.1 Each distribution licensee shall establish its DSM targets and get it approved by the Commission.

5.2 While approving DSM target for the Distribution Licensee, the Commission will give due consideration to factors such as consumer mix, load profile, etc.”

Also, DSM programme document, which is part of DSM plan, has to be approved by the Commission. The relevant provisions are given below:

“11. Preparation of DSM Programme Document

11.1. For each DSM programme included in the DSM Plan, a detailed description shall be provided in a separate Programme Document. The description shall include general information, technology, schedule for deployment, budget, cost effectiveness assessment, detailed implementation plan, estimation of savings,

etc.

11.2. For each DSM programme cost benefit analysis shall be carried out as per guidelines issued by the Commission on cost effectiveness from time to time.

12. Approval of DSM programme Document

12.1 Prior to implementing any DSM programme, Distribution Licensee must obtain approval of the Commission.”

Without any relevant details, as per detailed requirement under the BERC (DSM) Regulation 2014 and relevant assessment of DSM Potential, the DSM activity related charges as projected by the petitioners does not appear justified, hence the proposal is provisionally disallowed. If the Petitioners plan to execute any DSM project, the approval of the same should be obtained from the Commission before commencement of such activity, after following due regulatory process.

The Commission directs the petitioners to file Demand Side Management (DSM) action plan duly highlighting the objectives and benefits to be derived in terms of savings in power consumption and other benefits indicating the element-wise/head-wise quantitative and cost details in terms of Regulation 4, 5 and 6.3 of the BERC (DSM) Regulations 2014.

7.28 Annual Revenue Requirement for control period

Petitioner’s submission:

The Discoms have submitted the ARR for the control period, as detailed in the Table below:

Table 7.103: ARR projected for the control period (Rs. Crore)

Sr. No.	Particulars	NBPDCCL			SBPDCL		
		FY 2025-26	FY 2026-27	FY 2027-28)	FY 2025-26	FY 2026-27	FY 2027-28)
1	Purchase of power	10,289	11,798	13,804	12,078.64	13,849.82	16,204.35
2	Transmission charges	1,915	2,107	2,317	2,248.06	2,472.87	2,720.16
3	O & M Expenses (A+B+C+D)	1,909.99	2,336.23	2,469.62	1,801.00	2,035.58	2,168.37
A	Employee expenses	521.49	559.37	599.93	789.99	848.21	910.62
B	R&M expenses	280.29	321.45	346.54	308.32	356.96	397.11
	A&G expenses	285.68	318.80	355.37	209.63	233.25	258.85
	Rent Charges for Smart Prepaid Meter	781.24	1,091.20	1,117.82	451.03	550.94	550.94
C	Total A&G expenses	1,066.93	1,409.99	1,473.18	660.66	784.19	809.79
D	Holding company expenses	41.29	45.42	49.96	42.03	46.23	50.85
4	Depreciation	779	837	865	505.21	571.93	595.36
5	Interest on loan	768	897	917	623.42	776.49	844.61
6	Other finance charges	93	102	112	178.12	195.93	215.53

Sr. No.	Particulars	NBPDCCL			SBPDCL		
		FY 2025-26	FY 2026-27	FY 2027-28)	FY 2025-26	FY 2026-27	FY 2027-28)
7	Return on equity	639	772	836	516.41	646.30	724.74
8	Interest on SD	35.48	37.95	40.42	59.92	63.51	67.10
9	Interest on working capital	16	18	19	18.17	22.68	25.54
10	Demand Side Management	33.00	36.30	39.93	33.00	36.30	39.93
11	Bad & doubtful debts	-	-	-	0.90	0.90	0.90
12	Total Revenue requirement	16,477	18,941	21,419	18,062.85	20,672.32	23,606.60
13	Less: Non-tariff income	483.40	483.40	483.40	262.69	262.69	262.69
14	Net Revenue requirement	15,994	18,458	20,935	17,800.16	20,409.62	23,343.91
15	Revenue from Sale of Energy	14,627	-	-	18,592.52		
16	Gap / (Surplus)	1,367.05	-	-	(792.26)		

Commission analysis:

The Commission has computed the annual revenue requirement (ARR) based on the costs approved in the preceding paragraphs for the control period as detailed in the Table below:

Table 7.104: ARR approved for the control period (Rs. Crore)

Sr. No.	Particulars	NBPDCCL			SBPDCL		
		FY 2025-26	FY 2026-27	FY 2027-28)	FY 2025-26	FY 2026-27	FY 2027-28)
1	Purchase of power (excluding transmission charges)	9908.39	10581.35	11389.78	11931.04	12730.03	13688.31
2	Transmission Charges	1835.50	2084.91	2176.74	2264.82	2560.89	2672.11
A	PGCIL and other transmission charges	949.00	977.47	1006.79	1224.14	1260.86	1298.69
B	BSPTCL transmission charges	718.70	870.16	937.60	843.70	1021.50	1100.66
C	BGCL transmission charges	149.09	218.24	211.79	175.02	256.19	248.63
D	SLDC charges	12.91	12.66	13.54	15.15	14.86	15.90
E	ERLDC, POSOCO	5.80	6.38	7.02	6.81	7.49	8.24
3	O & M Expenses	1066.76	1143.86	1219.98	1418.64	1526.93	1642.03
A	Employee expenses	523.71	559.37	599.93	801.33	856.06	922.14
B	R&M expenses	236.97	257.40	269.85	287.94	321.90	349.78
C	Total A&G expenses	268.13	287.07	308.00	290.74	308.24	327.15
4	Holding company expenses	37.94	40.01	42.20	38.62	40.73	42.95
5	Depreciation	428.33	485.12	512.27	375.42	440.88	480.01
6	Interest on loan	637.81	693.84	686.29	525.89	616.93	645.75
7	Other finance charges	73.78	81.16	89.27	141.70	155.87	171.46
8	Return on equity	531.27	604.47	639.43	427.46	519.68	575.37
9	Interest on SD	35.48	37.95	40.42	59.92	63.51	67.10

Sr. No.	Particulars	NBPDCCL			SBPDCL		
		FY 2025-26	FY 2026-27	FY 2027-28)	FY 2025-26	FY 2026-27	FY 2027-28)
10	Interest on working capital	7.60	9.24	10.05	0.00	0.00	0.00
12	Demand Side Management	0.00	0.00	0.00	0.00	0.00	0.00
13	Total Revenue requirement	14524.92	15721.90	16764.23	17144.88	18614.72	19942.14
14	Less: Non-tariff income	558.83	568.06	577.06	465.70	476.65	487.35
15	Net Revenue requirement	13966.09	15153.85	16187.17	16679.18	18138.07	19454.79

7.29 Trued up net Revenue Gap / (Surplus) of FY 2023-24

The Commission has approved the **consolidated net revenue gap of Rs. 2667.85 Crore** (NBPDCCL revenue surplus of Rs. 733.25 crore and SBPDCL revenue gap of Rs. 3401.10 crore) for FY 2023-24 in true up for Discoms.

Regulation 14 (f) of the BERC (Multi Year Distribution Tariff) Regulations 2024 specify

“the Revenue gap/surplus arising out of truing up shall be considered by the Commission while determining the ARR of ensuing year(s). While approving adjustments towards revenue/expenses in future years, arising out of Truing up exercise, the Commission may allow the carrying costs”.

The Commission, in terms of regulation 14 (f) has carried forward the trued up consolidated revenue gap along with carrying cost in the ARR of FY 2025-26.

The Commission has considered carrying cost @ 10.07 % (SBI MCLR 8.57 % plus 150 basis points) for half year of FY 2023-24, @10.5 % (SBI MCLR 9 % plus 150 basis points) for full year of FY 2024-25 and half year of FY 2025-26 on the trued up revenue Gap/(surplus) of FY 2023-24 assuming that the Gap/(surplus) has been created over FY 2023-24 and adjustment/recovery would have been made over the year 2025-26 following the methodology adopted by the Hon’ble APTEL order dated 08.04.2015 in Appeal No.160 of 2012 (Reliance Infrastructure Limited Vs MERC & others) as detailed in the Table below:

Table 7.105: Trued up Approved Revenue Gap/(surplus) of FY 2023-24 carried forward to ARR of FY 2025-26

Sl. No.	Particulars	NBPDCCL	SBPDCL	Total
1	Revenue Gap/(Surplus) approved in true up for FY 2023-24 to be carried forward	(733.25)	3401.10	2667.85
2	Interest for FY 2023-24 [(Wt. average SBI	(38.35)	170.87	132.53

Sl. No.	Particulars	NBPDCCL	SBPDCL	Total
	MCLR Rate 8.57 % + 1.50%] 10.07 %] for half year			
3	Interest for FY 2024-25 (SBI MCLR 9% + 1.50%) @ 10.5% for 1 year	(79.97)	354.34	276.38
4	Interest for FY 2025-26 (SBI MCLR 9% + 1.50%) @ 10.5% for half year	(39.98)	178.17	138.19
5	Sub-total (Interest) (2+3+4)	(158.29)	705.39	547.09
6	Total gap/(Surplus) with interest (1+5)	(891.54)	4106.49	3214.94

The Commission, accordingly, carried forward and adjusted the revenue Gap/(surplus) of FY 2023-24 along with carrying cost in to the ARR for FY 2025-26.

7.30 Revenue from sale of power at existing tariff

Petitioner's submission

The Discoms have submitted the category wise revenue based on the existing tariff for FY 2025-26 as detailed in the Table below:

Table 7.106: Projected Revenue from sale of power at existing tariff for FY 2025-26

Sr. No	Category of Consumers	NBPDCCL		SBPDCL		Total	
		Sales (MUs)	Total (Rs Crores)	Sales (MUs)	Total (Rs Crores)	Sales (MUs)	Total (Rs Crores)
1	Domestic	9,468.00	7,794	8,381.56	7,274.08	17,849.56	15,068.08
A	Kutir Jyoti	2,806.26	2,188	1,547.36	1,186.04	4,353.62	3,374.04
B	DS I Rural	4,682.62	3,837	3,480.74	2,868.39	8,163.36	6,705.39
ii	Metered (Now Demand Based)	4,682.62	3,837	3,480.74	2,868.39	8,163.36	6,705.39
a	First 50 Units	3,463.01	2,789	1,364.65	1,079.78	4,827.66	3,868.78
b	Above 50 Units	1,219.61	1,048	2,116.09	1,788.62	3,335.70	2,836.62
C	DS II Demand Based	1,978.71	1,768	3,353.18	3,219.36	5,331.89	4,987.36
i	First 100 Units	1,635.24	1,418	1,479.83	1,294.28	3,115.07	2,712.28
ii	Above 100 Units	343.47	350	1,873.35	1,925.08	2,216.82	2,275.08
D	DS III	0.41	0.43	0.28	0.28	0.69	0.71
2	Non-Domestic Service	2,130.74	2,193	1,951.92	2,279.36	4,082.66	4,472.36
A	NDS I - Metered Now Demand Based	897.16	776	495.21	434.88	1,392.37	1,210.88
i	First 100 Units	737.06	632	172.93	147.13	909.99	779.13
ii	Above 100 Units	160.09	144	322.28	287.74	482.37	431.74
B	NDS II - Demand Based	1,233.59	1,417	1,456.71	1,844.48	2,690.30	3,261.48
i	Contract Demand <0.5 kW	1.81	2	6.73	7.96	8.54	9.96
ii	Contract Demand >0.5 kW	1,231.77	1,415	1,449.98	1,836.52	2,681.75	3,251.52
a	First 100 Units	913.96	1,021	301.72	353.48	1,215.68	1,374.48
b	Above 100 Units	317.81	393	1,148.26	1,483.04	1,466.07	1,876.04
3	Street Light Services	213.20	159	281.43	216.11	494.63	375.11
A	SS Metered	19.91	19	81.72	75.40	101.63	94.40
B	SS Unmetered	193.30	140	199.71	140.71	393.01	280.71
4	Irrigation & Allied Services	2,013.30	1,548	5,310.71	3,858.31	7,324.01	5,406.31
A	IAS I	1,859.27	1,402	4,923.92	3,553.82	6,783.19	4,955.82
i	Unmetered	19.97	68	1,178.83	943.66	1,198.80	1,011.66

Sr. No	Category of Consumers	NBPDCCL		SBPDCL		Total	
		Sales (MUs)	Total (Rs Crores)	Sales (MUs)	Total (Rs Crores)	Sales (MUs)	Total (Rs Crores)
ii	Metered	1,839.30	1,333	3,745.09	2,610.16	5,584.39	3,943.16
B	IAS II	154.03	147	386.79	304.49	540.82	451.49
i	Metered (Now Demand Based)	154.03	147	386.79	304.49	540.82	451.49
5	Public Service Connections	594.51	545	551.21	545.19	1,145.72	1,090.19
A	Public Water Works	41.03	69	160.95	214.24	201.98	283.24
B	Har Ghar Nal	553.48	476	390.27	330.95	943.75	806.95
6	Low Tension Industrial Services	527.80	805	603.60	953.11	1,131.40	1,758.11
A	LTIS I (0-19 kW)	479.34	718	373.50	598.49	852.84	1,316.49
B	LTIS II (>19 kW - 74 kW)	48.46	87	230.10	354.62	278.56	441.62
7	LT Electric Vehicle Charging Station	16.09	15.59	7.05	6.83	23.14	22.42
8	HT-General	1090.63	1,353	2,044.03	2,513.90	3,134.66	3,866.90
A	HTS (General)- I (11 kV)	684.60	863	1,010.06	1,325.08	1,694.66	2,188.08
B	HTS (General)- II (33 kV)	289.47	334	749.05	888.46	1,038.52	1,222.46
C	HTS (General)- III (132 kV)	116.56	147	284.92	300.36	401.48	447.36
D	HTS (General)- IV (220 kV)	-	9	-	-		9.00
E	HTS (General)- V (400 kV)	-		-			
9	HT-Industrial Services	56.33	50	811.82	587.62	868.15	637.62
A	HTIS (Industrial) – I (11 kV)	6.94	7	-	-	6.94	7.00
B	HTIS (Industrial)– II (33 kV)	11.85	14	-	-	11.85	14.00
C	HTIS (Industrial) – III (132 kV)	-	-	-	-		
D	HTIS (Industries)-IV (220 kV)	-	-	-	-		
E	HTIS (Industries)-V (400 kV)	-		-			
F	HTIS (Oxygen Manufacturers)- 11 KV	0.21	0.36	6.61	13.32	6.82	13.68
G	HTIS (Oxygen Manufacturers)- 33 KV	-	-	-		0.00	0.00
H	HTSS – (33 kV/11 kV)	37.33	29.88	805.21	574.30	842.54	604.18
10	Railway Traction Services	129.58	163	310.19	358.00	439.77	521.00
11	Nepal						
14	Total	16,240.19	14,626.87	20,253.51	18,592.52	36,493.70	33,219.39

Commission's analysis

The Petitioner (NBPDCCL) has, vide its letter number 221 dated 19.02.2025, submitted the minutes of meeting of 16th Indo-Nepal Power Exchange Committee (PEC) meeting held on 12.02.2025, regarding tariff of import of power by Nepal for FY 2025-26 and beyond. The Petitioner submitted to consider new tariff rates. The Tariff for FY 2025-26 has been agreed for is Rs 8.10/kWh at 132 kV level, the same is considered.

The Commission has computed category wise revenue on existing tariffs for FY 2025-26 based on the projections of number of consumers, connected load and energy sales as approved by the Commission in this order. The expected revenue from sale of power for NBPDCCL and SBPDCL for FY 2025-26 considered by the Commission is shown in the Table below:

Table 7.107: Revenue from Sale of Power FY 2025-26 as Considered by Commission (Rs. Crore)

Particulars	NBPDCCL	SBPDCL	Total
Sales (MU)	16289.40	20136.55	36425.95
Revenue (Rs. Cr)	14877.69	18774.36	33652.05

7.31 Consolidated approved ARR of DISCOMs for FY 2025-26

The Petitioners, based on the projected Annual Revenue Requirement (ARR) for FY 2025-26 and estimated revenue from sale of power with existing tariff has arrived the revenue gap/(surplus) for FY 2025-26 as given in the Table below:

Table 7.108: Revenue gap/(surplus) projected by Discoms for FY 2025-26 (Rs. Crore)

Particulars	NBPDCCL	SBPDCL	Total
	Amount (Rs. Crore)	Amount (Rs. Crore)	
Revenue Gap /(Surplus) in True-up for FY 2023-24	(452.70)	(97.83)	(550.53)
Interest for FY 2023-24 for 6 months	(22.75)	(4.92)	(27.67)
Interest for FY 2024-25 for 1 year	(45.50)	(9.83)	(55.33)
Interest for FY 2025-26 for 6 months	(22.75)	(4.92)	(27.67)
Sub-total carrying/(holding) cost	(90.99)	(19.66)	(110.65)
Revenue Gap /(Surplus) from True-up for FY 2023-24 with interest	(543.70)	(117.50)	(661.2)
Revenue Gap /(Surplus) for FY 2025-26	1367.05	(792.36)	574.69
Net Revenue Gap / (Surplus) for FY 2025-26 including past years gaps and carrying cost	823.35	(909.86)	(86.51)*

*In revised submission, the same is projected as gap of Rs 4833 Crore.

Commission's analysis:

The Commission, based on the Annual Revenue Requirement (ARR) approved for FY 2025-26 and estimated revenue from sale of power with existing tariff has arrived the revenue gap/(surplus) for FY 2025-26 as given in the Table below:

Table 7.109: Approved revenue gap/(surplus) for FY 2025-26 (Rs. Crore)

Sl. No.	Particulars	NBPDCCL	SBPDCL	Total
1	ARR approved for FY 2025-26	13966.09	16679.18	30645.26
2	Revenue from sale of electricity at existing Tariff for FY 2025-26	14877.69	18774.36	33652.05
3	Gap / (Surplus) for FY 2025-26	(911.60)	(2095.19)	(3006.78)
4	Revenue Gap / (Surplus) for FY 2023-24	(733.25)	3401.10	2667.85
5	Carrying / (Holding) cost	(158.29)	705.39	547.09
6	Revenue Gap / (Surplus) with Carrying / (Holding) cost for FY 2023-24	(891.54)	4106.49	3214.94

Sl. No.	Particulars	NBPDCCL	SBPDCL	Total
7	Net Revenue Gap / (Surplus) for FY 2025-26 including FY 2023-24 True Up	(1803.14)	2011.30	208.16

Table 7.110: Calculation of Average Cost of Supply (ACoS)

Particulars	
ARR approved for FY 2025-26 (Rs Cr)	30645.26
Revenue Gap / (Surplus) for FY 2023-24 (Rs Cr)	2667.85
Carrying / (Holding) cost (Rs Cr)	547.09
Net ARR for FY 2025-26 along with truing up gap/ (surplus) of FY 2023-24 (with carrying cost) (Rs Cr)	33860.21
Energy sales in MU	36425.95
Average cost of supply (ACoS) of FY 2025-26 considering true-up of FY 2023-24 (Rs/kWh)	9.30

The Commission approves the consolidated revenue Gap of Rs. 208.16 for DISCOMs for FY 2025-26.

7.32 Revenue with revised tariff

The Electricity (Amendment) Rules 2024 vide Gazette Notification GSR 36 (E) dated 10.01.2024 notified by the Ministry of Power, Government of India. The Rule 23 specify as follows:

“23. Gap between approved Annual Revenue Requirement and Estimated annual revenue from approved tariff: The tariff shall be cost reflective and there shall not be any gap between approved Annual Revenue Requirement and estimate annual revenue from approved tariff except under natural calamity conditions: Provided that such gap, created if any, shall not be more than three percent of the approved Annual Revenue Requirement.

.....”

Accordingly, Commission approves the ARR for FY 2025-26 including true-up of FY 2023-24 and estimated the revenue gap with exiting tariff. The Commission has prescribed the retail electricity supply tariffs in this order as detailed in the Chapter dealing with “Tariff Principles, Design and Tariff Schedule”. The Commission, accordingly, had computed the expected revenue from sale of power for FY 2025-26 considering the category-wise fixed charges / demand charges and energy charges approved for FY 2025-26 and estimated revenue from sale of power with revised tariff.

The resultant revenue gap/(surplus) for FY 2025-26 as given in the Table below:

Table 7.111: Revenue with revised tariff and approved revenue Gap/(Surplus) for FY 2025-26 (Rs. Crore)

Sl. No.	Particulars	NBPDCCL	SBPDCL	Total
1	ARR approved for FY 2025-26	13966.09	16679.18	30645.26
2	Revenue from sale of electricity at revised Tariff for FY 2025-26	15055.29	18912.47	33967.76
3	Gap / (Surplus) for FY 2025-26	(1089.20)	(2233.29)	(3322.49)
4	Revenue Gap / (Surplus) for FY 2023-24	(733.25)	3401.10	2667.85
5	Carrying / (Holding) cost	(158.29)	705.39	547.09
6	Revenue Gap / (Surplus) with Carrying / (Holding) cost for FY 2023-24	(891.54)	4106.49	3214.94
7	Net Revenue Gap / (Surplus) for FY 2025-26 including FY 2023-24 True Up	(1980.74)	1873.19	(107.55)

The additional revenue due to revision of tariff for FY 2025-26 as detailed below:

Particulars	NBPDCCL	SBPDCL	Total
Revenue with existing tariff	14877.69	18774.36	33652.05
Revenue with revised tariff	15055.29	18912.47	33967.76
Additional Revenue due to tariff revision (2-1)	177.60	138.11	315.71

Detailed computation of revenue from sale of power at approved tariff for the Discoms for FY 2025-26 are annexed as Annexures 7.1 and 7.2.

7.33 Average Tariff as a percentage of Average Cost of Supply

The Commission has approved tariff for various consumer categories considering gradual reduction in cross subsidy in line with the requirement of Tariff Policy. The average tariff as a percentage of average cost of service approved in Tariff Order for FY 2024-25 and that approved for FY 2025-26 (present tariff order) is as shown in the Table below:

Table 7.112: Average billing rate as a percentage of average Cost of supply

Consumer Category	FY 2024-25 (with existing tariff)			FY 2025-26 (With revised tariff)		
	Average realisation (Rs. /kWh) (ABR)	Average cost of supply (Rs. /kWh)	% of cost of supply	Average realisation (Rs. /kWh) (ABR)	Average cost of supply (Rs. /kWh)*	% of cost of supply
Kutir Jyoti	7.97	9.23	0.86	7.82	9.30	0.84
DS I Rural	8.35	9.23	0.90	7.95	9.30	0.85
DS II Demand Based	9.41	9.23	1.02	9.35	9.30	1.01
DS III	10.67	9.23	1.16	10.38	9.30	1.12
NDS I - Metered Now Demand Based	8.87	9.23	0.96	9.67	9.30	1.04
NDS II - Demand Based	12.19	9.23	1.32	13.47	9.30	1.45
SS Metered	9.40	9.23	1.02	9.25	9.30	1.00
SS Unmetered	7.94	9.23	0.86	17.00	9.30	1.83
IAS Unmetered	8.50	9.23	0.92	8.44	9.30	0.91
IAS Metered	7.22	9.23	0.78	7.06	9.30	0.76
IAS II	9.49	9.23	1.03	9.27	9.30	1.00
Public Service Connections	9.79	9.04	1.08	9.62	9.30	1.03
LTIS I (0-19 kW)	15.60	9.04	1.73	16.18	9.30	1.74
LTIS II (>19 kW - 74 kW)	17.90	9.04	1.98	16.66	9.30	1.79
LT Electric Vehicle Charging Station	9.69	9.04	1.07	9.69	9.30	1.04
HTS (General)- I (11 kV)	12.34	9.04	1.37	13.35	9.30	1.44
HTS (General)- II (33 kV)	11.65	9.04	1.29	12.10	9.30	1.30
HTS (General)- III (132 kV)	11.65	9.04	1.29	11.42	9.30	1.23
HTS (General)- IV (220 kV)	9.89	9.04	1.09	-	9.30	-
HTSS – (33 kV/11 kV)	9.89	9.04	1.09	7.36	9.30	0.79
HTIS (Oxygen Manufacturers)- 11 KV	14.93	9.04	1.65	20.12	9.30	2.16
Railway Traction Services	11.54	9.04	1.28	11.85	9.30	1.28
HTEV	8.72	9.04	0.96	-	9.30	-

* average cost of supply is combinedly for SBPDCL and NBPDCCL.

The Commission has noted that the average billing rate vis-a-vis average cost of supply in certain categories is higher than 120% limit. However, the Commission endeavors to reduce the cross subsidy and to bring the cross subsidy within the limit of +/- 20% of ACoS.

7.34 Average Tariff as a percentage of Voltage-wise Cost of Supply

The Commission has determined the voltage-wise cost of supply based on the limited data/information made available as detailed in Chapter-8. The average tariff as a

percentage of voltage wise cost of supply approved for FY 2024-25 and the average tariff as a percentage of voltage-wise cost of supply determined in Chapter-8 for FY 2025-26 of this tariff order is as shown in the Table below:

Table 7.113: Average billing rate as a percentage of voltage-wise Cost of Supply

Sl. No.	Category	FY 2024-25			FY 2025-26		
		(approved in Tariff Order dated 01.03.2024)			(approved by Commission)		
		Average billing rate (Rs./kWh)	Voltage wise cost of supply (Rs./kWh)	% of cost of supply	Average billing rate (Rs./kWh)	Voltage wise cost of supply (Rs./kWh)*	% of cost of supply
A	Domestic	8.47	9.30	91%	8.34	9.39	88.81%
B	Non-Domestic	11.01	9.30	118%	12.17	9.39	129.56%
C	Irrigation and Agriculture	7.44	9.30	80%	7.45	9.39	79.32%
D	LTIS	16.03	9.30	172%	16.30	9.39	173.55%
E	Public services	9.79	9.30	105%	9.62	9.39	102.37%
F	HTS	10.96	8.47	129%	11.60	8.62	134.53%

* Average cost of supply is combinedly for SBPDCL and NBPDCCL.

8. Voltage-wise cost of supply

8.1. Introduction

The Commission has been computing the voltage-wise cost of supply keeping in view the guidelines indicated by the Hon'ble APTEL its order dated 10.05.2012 in Appeal No.14 of 2011, Appeal no.26 of 2011 and Appeal no.27 of 2011.

The Commission, in Regulation 37 (b) to (f) of BERC (Multi Year Distribution Tariff) Regulations, 2024 has explained the methodology for computation of voltage-wise cost of supply.

8.2. Methodology adopted for Computation of Voltage-wise cost of supply

Petitioners' submission:

The Petitioners have submitted that the Hon'ble APTEL has proposed a simple methodology to functionalize use of Cost of Supply model. The APTEL notes that identical consumers connected at different nodes of distribution system need not to be differentiated. In addition, it is adequate to determine voltage-wise cost of supply considering the major cost elements which would be applicable to all the categories of the consumers connected at the same voltage level at different locations in the distribution system.

In the method suggested by the Hon'ble APTEL, there are five major components to arrive at the voltage wise cost of supply. These elements are:

- **Technical losses at each voltage level of the network:** This value of the technical losses is found by the field studies. Sampling of the feeders which are representative of the consumers in the system will help in identifying the technical losses at each voltage levels. The APTEL recognizes the difficulty in collecting data for technical loss at 11 kV and LT level, hence the suggestion to compute losses using maximum possible representative feeders for various consumer categories at respective voltage levels.
- **Commercial losses at each voltage level of the network:** The

commercial loss of the system is the difference between approved loss in the ARR and the total technical loss computed from system study. This difference is to be apportioned according to the sales in each voltage level to arrive at the commercial loss at each voltage level.

- **Voltage wise sales:** The energy sale at a particular voltage level is the sum of energy sold for all the categories of consumers connected at the said voltage level. Based on its share of sales in total sales, the consumers of the 132/220 kV network will be apportioned a share of the commercial losses. The Hon'ble APTEL recognizes that in reality, there may be minimal technical losses at that level and very low probability of commercial losses. However, the APTEL is of the opinion that the consumers at 132/220 kV, being a part of the distribution system will bear these apportioned losses.
- **Power Purchase Cost:** The power purchase cost is the cost of energy purchased for sustaining the energy sales at each voltage level. This power purchase units for each voltage level is arrived by finding the energy input at each voltage level and adding the losses (technical and commercial) for the same voltage level and upstream. The energy input at each voltage level is the sum of the sales at the voltage level and the losses for the corresponding voltage level.
- **Network Cost:** The network costs are the costs like O&M, interest and finance charges, depreciation, return on equity etc. These costs are a part of the ARR which in turn provides the average cost of supply. Thus, the network cost is essentially the difference between the ARR value and the power purchase cost. The APTEL has suggested apportioning these costs according to the sales volume in each of the voltage level.

Further, the Petitioners have submitted that due to the methodology applied to apportion losses in the various voltage levels, all the consumer categories at a particular voltage level will have same cost of supply.

Commission's analysis:

Cost of supply is a study of total costs incurred by a utility in providing service

to its consumers, category-wise and voltage level wise. Vital input to cost of supply study include reliable, accurate and consistent information which is derived from special studies conducted in the field level, i.e., category-wise Load Factors, category-wise coincident Demand factors etc., based on which the cost related to Demand (MW), Energy (MU) and customer charges have to be allocated to various consumer categories.

The Commission has stipulated the methodology to compute the consumer category-wise cost of supply in Regulation 37 (b) to (f) of BERC (Multi Year Distribution Tariff) Regulations, 2024. The Petitioners have not computed the voltage wise cost of supply as per the methodology suggested in the above Regulations.

8.2.1 APTEL's guidelines on alignment of tariff to cost of supply

The Appellate Tribunal for Electricity (APTEL) in its Judgement dated 10.05.2012, in the Appeal No.14 of 2011 of Bihar Industries Association and Appeal No.27 of 2011 of M/s.Kalyanpur Cements Limited, has commented as below:

"We appreciate that the determination of cost of supply to different categories of consumers is a difficult exercise in view of non-availability of metering data and segregation of network costs. However, it will not be prudent to wait indefinitely for availability of the entire data and it would be advisable to initiate a simple formulation which could take into account the major cost element to a great extent reflect the cost of supply. There is no need to make distinction between the distribution charges of identical consumers connected at different nodes in the distribution network. It would be adequate to determine the voltage-wise cost of supply taking into account the major cost element which would be applicable to all the categories of consumers connected to the same voltage level at different locations in the distribution system. Since the State Commission has expressed difficulties in determining voltage wise cost of supply, we would like to give necessary directions in this regard"

8.2.2 Methodology given by APTEL

The methodology given by the APTEL for determination of voltage-wise “Cost of Supply” and the inputs required are briefly given below:

- “(i) The technical distribution system losses in the distribution network are to be assessed by carrying out system studies based on available load data for 33 kV and above voltages and in the case of 11 kV and 0.40 kV (LT), due to vastness of data, field studies to be carried out with representative feeders for the various consumer mix prevailing in the distribution system.*
- (ii) The total losses in the system, which include commercial or non-technical losses, will be more than the technical losses determined based on the system studies. Therefore, the difference between the total losses in the system and the technical losses determined by the studies may have to be apportioned to different voltage levels in proportion to annual gross energy consumption at the respective voltage level.*
- The annual gross energy consumption of all consumers at a voltage level will be the sum of energy consumption of all consumer categories connected at that voltage plus the technical losses corresponding to that voltage level as worked out by the system studies.*
- (iii) The power purchase cost which is the major component of tariff is to be segregated for different voltage levels taking into account the transmission and distribution losses, both technical and non-technical commercial for the relevant voltage level and upstream system.*
- (iv) The network costs such as O&M costs, interest on loans, depreciation, interest on working capital and return on equity are to be pooled and apportioned equitably on pro-rata basis to all voltage levels to determine the cost of supply”.*

8.2.3 Pre-requisite for arriving at the voltage wise Cost of Supply (CoS):

As per the APTEL Judgment, an assessment of the technical and commercial loss in the distribution system network by carrying out system studies based on the available load data for 33 kV and above and field studies for representative feeders for 11 kV and 0.4 kV of the various consumer mix prevailing in the distribution system as well as segregation of network costs is a pre-requisite for arriving at the voltage-wise cost of supply.

The Commission has thus computed the voltage wise cost of supply following the methodology suggested by the APTEL.

8.3. Determination of Voltage-wise technical losses

Petitioners' submission

The Petitioners have submitted that the Transmission and Distribution losses in a system comprises of two separate components – Technical Losses and Commercial Losses.

- a). Technical losses occur naturally and consist mainly of power dissipation in electricity system components such as transmission and distribution lines, and transformers.
- b). Commercial losses are caused by actions external to the power system and consist primarily of electricity theft, non-payment by customers, and errors in accounting and record-keeping. Since the rationale behind these two components is quite distinct, quantifying them separately is imperative for arriving at meaningful conclusions.

At each voltage level, the Technical losses consist of two major components: Transmission losses which refer to the losses in the current carrying wires; and Transformation losses which refer the losses incurred during the voltage transformation in the system. Aggregating the losses in these two elements at each voltage level would give the technical loss at that level. The losses which remain would be the commercial losses.

SBPDCL has submitted that the voltage wise cost of supply has been computed keeping in view of distribution loss percentage approved by the Commission for FY 2025-26 and NBPDCCL has submitted that voltage wise cost of supply is computed considering the projected roadmap for reduction of AT&C loss submitted to Ministry of Power, Government of India for FY 2025-26, as shown in the Tables below.

Table 8.1: Voltage-wise Technical Losses Considered by SBPDCL for FY 2025-26

SR. No	Voltage Level (kV)	Technical Loss (%)	Cumulative Loss (%)
1	220/132	3.00%	3.00%
2	33	4.00%	6.88%
3	11	5.00%	11.54%
4	0.4	6.63%	17.40%

Table 8.2: Voltage-wise Technical Losses Considered by NBPDCCL for FY 2025-26

Sr No	Voltage Level (kV)	Technical Loss (%)	Cumulative Loss (%)
1	220/132	3.00%	3.00%
2	33	3.25%	6.15%
3	11	4.00%	9.91%
4	0.4	5.07%	14.47%

Commission's analysis:**Fixation of Voltage-wise Technical Loss:**

The voltage-wise technical losses indicated by the Petitioners were based on the limited field study / sample data only.

No detailed study has been made to estimate the technical losses based on the feeder wise load data, conductor size and length etc. APTEL in its guidelines has indicated that the T&D loss as approved by the Commission in its Tariff Order has to be considered while computing the voltage - wise cost of supply. Due to lack of data for segregation of technical and commercial losses, the Commission could not separately fix the technical and commercial loss level within the total distribution loss approved for FY 2025-26 NBPDCCL & SBPDCL. It is considered appropriate to assume technical and commercial loss levels for realistic assessment of Cost of Supply within overall T&D loss level, i.e. Transmission Loss of 2.56% as approved for STU loss and Distribution Loss of 15.56 % for as approved to the DISCOMs by the Commission for FY 2025-26.

Energy Requirement		NBPDCCL	SBPDCL	Total Bihar
Energy sales including Nepal	MU	16,289.40	20136.55	36,425.95
Less: Inter-state sales (Nepal)	MU	160.00	0.00	160.00
Energy sales excluding Inter-state sales	MU	16,129.40	20,136.55	36,265.95
Distribution Loss	%	14.12%	16.68%	15.56%
Add: Distribution Loss	MU	2,652.41	4,031.75	6,684.16
Total energy required at Distribution periphery	MU	18,781.81	24,168.30	42,950.11
Total energy required at State Periphery	MU	19439.46	24803.26	44,242.72

While determining the voltage wise technical loss figures, Commission has considered the following figures / data:

- i) For STU level technical loss (220 /132 kV), approved STU loss has been taken

ii) Technical loss at 33, 11 kV has been computed at Bihar level by taking weighted average of losses of NBPDCCL and SBPDCL submitted separately at concerned voltage level in proportion to energy sold at that voltage level.

Based on above, following voltage wise technical loss for FY 2025-26 has been arrived at Bihar level.

Table 8.3: Voltage-wise Technical Losses Considered for SBPDCL & NBPDCCL for FY 2025-26

Sl. No	Voltage Level (kV)	Technical Loss (%)	Cumulative Loss (%)
1.	State Transmission Losses, 220/132	2.56%	2.56%
2.	33	3.87%	6.33%
3.	11	4.60%	10.64%
4.	0.4	7.09%	16.98%

8.4. Computation of Voltage-wise Cost of Supply

Petitioner's Submission:

The Petitioners have submitted that the voltage wise sales have been arrived considering the projected energy sales for FY 2025-26, across various categories at the respective voltages as mentioned in the Table below:

Sl. No	Voltage Level (kV)	Sales Categories (%)
1.	220/132	HTS-III, Railways, Nepal
2.	33 kV	HTS-II, HTSS
3.	11 kV	HTS-I, HT EV, HT (Oxygen manufacturers)
4.	0.4 KV (LT)	Domestic, Non-Domestic, Agriculture and Others

NBPDCCL and SBPDCL have computed the voltage wise cost of supply for FY 2025-26 considering the energy sales projected by them and the T&D losses assumed at various voltages. Further, the projected costs, i.e., power purchase costs and network costs have been apportioned to each of the voltage categories of energy sale and based on the same the voltage wise cost of supply is computed.

The voltage wise cost of supply computed for FY 2025-26 are as given in the Tables below:

Table 8.4: Cost of Supply at different Voltage Levels projected by NBPDCCL for FY 2025-26

Sl.No.	Voltage Level	Energy Sale (MU)	Energy Sales + Technical loss + Comml. Loss (MU)	Network Cost (Rs./Unit)	Total Network Cost (Rs. Cr)
2	220/132	246.14	264.31	83.07	3.38

Sl.No.	Voltage Level	Energy Sale (MU)	Energy Sales + Technical loss + Comml. Loss (MU)	Network Cost (Rs./Unit)	Total Network Cost (Rs. Cr)
3	33	338.65	375.38	117.99	3.48
4	11	691.75	797.48	250.66	3.62
5	0.4	14,963.65	18,137.80	5,700.91	3.81
Total		16,240.19	19,574.96	6,215.46	3.79

Table 8.5: Cost of Supply at different Voltage Levels projected by SBPDCL for FY 2025-26

Sl.No.	Supply Voltage	Cost of power purchase (Rs./unit)	Network cost (Rs./unit)	Cost of supply (Rs./unit)
1	2	3	4	5
1	220/132	6.45	2.55	9.00
2	33	6.70	2.65	9.35
3	11	7.04	2.78	9.82
4	LT	7.51	2.97	10.48

Commission's analysis

The Commission has computed the voltage wise cost of supply based on the energy sales and T&D losses approved for FY 2025-26 at Bihar level for both the Discoms, as the common tariff rates have been approved for both Discoms for FY 2025-26.

8.4.1 Energy Sales approved for FY 2025-26

The Commission has considered the approved energy sales for FY 2025-26 for Discoms and segregated as per voltage-wise as given in the Table below:

Table 8.6: Voltage wise Energy Sales (MUs) approved for FY 2025-26

Sl. No	Voltage and Category	Sales approved for NBPDCCL (MUs)	Sales approved for SBPDCL (MUs)	Total (MUs)
A	400/220/132			
	HT Industry (HTS-III) and RTS	246.14	595.11	841.25
	Nepal	160.00	0.00	160.00
	Sub – Total	406.14	595.11	1001.25
B	33 kV			
	HTS-II	301.33	749.05	1050.38
	HTSS	37.33	805.21	842.54
	Sub – Total	338.65	1554.26	1892.92
C	11 kV			
	HTS-I	691.54	1010.06	1701.60
	HT EV	0.00	0.00	0.00

Sl. No	Voltage and Category	Sales approved for NBPDCCL (MUs)	Sales approved for SBPDCL (MUs)	Total (MUs)
	HTIS (Oxygen Manufacturers)	0.21	6.61	6.82
	Sub – Total	691.75	1016.67	1708.42
D	0.4 kV			
	Domestic, Non- Domestic, Agriculture and Others	14852.85	16970.52	31823.37
	Total (A+B+C+D)	16289.40	20136.55	36425.95

8.4.2 Voltage-wise Technical Loss considered for FY 2025-26:

As per guidelines enumerated in APTEL Judgement, Distribution system technical losses have to be assessed by carrying out system studies based on available data. Since the DISCOMs have not provided such data, the Commission has assumed the technical losses at various voltage levels based on approved losses as shown in the Table above.

As stated in para 33 of APTEL Judgement dated 10.05.2012, the voltage-wise commercial losses are to be arrived at by segregating the total commercial losses in proportion to grossed up sales (Actual consumption + technical loss) voltage-wise.

In para 34 of APTEL Judgement it is reiterated that the power purchase cost is to be segregated for different voltage levels taking into account the transmission and distribution losses, both commercial and technical, for relevant voltage level and upstream system. Thus, the losses (technical) at 33 kV shall be the losses at that voltage and also at upstream 132 kV voltages, the losses (technical) at 11 kV shall be the losses at that voltage and also that of upstream 33 kV voltage and 132 kV voltage level and so on.

The technical Losses have been arrived on the basis of the formulae given in the following table:

Voltage Level	Sales (MU)	Volt. Wise Tech. Loss (%)	Energy Input (MU)	Tech. Losses (MU)
1	2	3	4	5
400/220/132 kV	A	w	$=A/(1-w\%)$	$=(4)-(2)$
33 kV	B	x	$=B/(1-x\%)(1-w\%)$	$=(4)-(2)$
11 kV	C	y	$=C/(1-y\%)(1-x\%)(1-w\%)$	$=(4)-(2)$
0.4 kV	D	z	$=D/(1-z\%)(1-y\%)(1-x\%)(1-w\%)$	$=(4)-(2)$
Total	(A+B+C+D)			

Accordingly, the technical losses and commercial Losses are computed as given in the Tables below:

Table 8.7: Computation of Technical losses at various voltage levels

Sl. No.	Voltage Level (KV)	Technical Losses (%)	Cumulative Loss (%)	Energy Sale (MU)	Energy input (MU)	Technical Loss (MU)
1	2	3	4	5	6	7= (6-5)
2	400/220/132	2.56%	2.56%	1,001.25	1,027.55	26.31
3	33	3.87%	6.33%	1,892.92	2,020.86	127.94
4	11	4.60%	10.64%	1,708.42	1,911.83	203.41
5	0.4	7.09%	16.98%	31,823.37	38,331.10	6,507.73
Total				36,425.95	43,291.34	6,865.39

Table 8.8: Computation of Commercial losses at various voltage levels

Sl. No.	Voltage Level (KV)	Energy Sale (MU)	Technical Loss (MU)	Sales + Tech Loss (MU)	Commercial Loss (MU)	Energy Sales + Tech. Loss + Commercial Loss (energy input at state periphery) (MU)
1	2	3	4	5	6	7
a)	400/220/132	1,001.25	26.31	1,027.55	22.58	1,050.13
b)	33	1,892.92	127.94	2,020.86	44.41	2,065.27
c)	11	1,708.42	203.41	1,911.83	42.01	1,953.85
d)	0.4	31,822.94	6,507.73	38,331.10	842.37	39,173.48
Total		36,425.51	6,865.30	43,291.34	951.38	44,242.72

8.4.3 Allocation of Power Purchase Cost for FY 2025-26:

The power purchase cost (excluding PGCIL (CTU) Losses) has been allocated for different voltage levels taking into account the State Transmission loss and Distribution loss, (both commercial and technical) for the relevant voltage level and upstream as per the methodology indicated in APTEL Judgement. - Out of the total power purchase of 45449.08 MU approved for both the Discoms, the CTU loss works out to 1206.36 MU as shown in the Energy Balance Table 6.32 for FY 2025-26.

The Commission, after deducting the CTU transmission losses from the total

power purchase computed the average power purchase cost per unit as detailed below:

Table 8.9: Average Power Purchase Cost

Particulars:	NBPDCCL	SBPDCL	Bihar Level
Gross power purchase (MU)	20,906.57	24,542.51	45,449.08
Less:-CTU loss (MU)	554.93	651.43	1,206.36
Net power purchase (MU)	20,351.64	23,891.08	44,242.72
Power purchase cost including CTU charges (Rs Cr)	10,863.19	13,161.99	24,025.18
Average power purchase rate including CTU charges only (Rs/kWh)	5.34	5.51	5.43

Table 8.10: Allocation of power purchase cost

Sl. No.	Voltage Level (KV)	Energy Sale (MU)	Energy Sales + Technical loss + Comml. Loss (MU)	Unit cost of power purchase approved by the Commission (Rs./unit)	Power Purchase Cost (Rs. Crore)	Cost of Power per unit sale of Energy (Rs./unit)
1	2	3	4	5	6 = (4*5)	7= (6÷3)
2	220/132	1,001.25	1,050.13	5.43	570.25	5.70
3	33	1,892.92	2,065.27	5.43	1,121.50	5.92
4	11	1,708.42	1,953.85	5.43	1,061.00	6.21
5	0.4	31,822.94	39,173.48	5.43	21,272.42	6.68
Total		36,425.51	44,242.72		24025.18	6.60

8.4.4 Allocation of Network Cost for FY 2025-26

The APTEL, in its Judgement dated 10.05.2012 has indicated the method for allocation of network costs at different voltage levels as under:

“Network costs such as Return on Equity, interest on loan, interest on working capital and O&M costs can be pooled and apportioned equitably, on pro- rata basis to all the voltage levels to determine the cost of supply”.

The network costs approved by the Commission for FY 2024-25 are as given in table below:

Table 8.11: Network cost approved for FY 2025-26 (Rs Crore)

Sl. No.	Particulars	NBPDCCL	SBPDCL	Bihar Level
1	Employee Cost	523.71	801.33	1325.04
2	R&M costs	236.97	287.94	524.91
3	A&G expenses	268.13	290.74	558.87
4	Holding Company expenses	37.94	38.62	76.57
5	Depreciation	428.33	375.42	803.75
6	Other finance charges	73.78	141.70	215.48

Sl. No.	Particulars	NBPDCCL	SBPDCL	Bihar Level
7	Interest on loan	637.81	525.89	1163.70
8	Interest on SD	35.48	59.92	95.39
9	Interest on Working Capital	7.43	0.00	7.43
10	DSM	0.00	0.00	0.00
11	Return on Equity	531.27	427.46	958.73
12	Less: IDC			0.00
13	Total (1 to 12)	2780.86	2949.02	5729.88
14	Transmission cost	884.56	1038.40	1922.95
15	Total cost	3665.54	3987.42	7652.95
16	Energy Sales (MU)	16289.40	20136.55	36425.95
17	Network Cost per unit sale of energy (Distribution + Transmission) (Rs./kWh)	2.25	1.98	2.10

8.4.5 Cost of supply at different voltage levels

Based on the power purchase cost and network cost as above, the cost of supply at different voltage levels is arrived at as table below:

Table 8.12: Cost of supply at different voltage levels approved for FY 2025-26 for both Discoms combinedly

Sl.No.	Supply Voltage in kV	Cost of power purchase (Rs./unit)	Network cost (Rs./unit)	Cost of supply (Rs./unit)
1	2	3	4	5
1	400/220/132	5.70	2.10	7.80
2	33	5.92	2.10	8.03
3	11	6.21	2.10	8.31
4	0.4 KV	6.68	2.10	8.79

8.5. Detailed Study to assess voltage Wise Technical Losses

The Commission is of the view that in the absence of actual data of voltage-wise technical losses as well as voltage-wise network costs, the voltage-wise cost of supply worked out based on above methodology as per the orders of the APTEL dated 10.05.2012, will not be a true reflection of actual voltage-wise cost of supply. There is a need to work out the voltage-wise cost of supply in a more scientific manner, considering the actual data of voltage-wise technical loss levels derived from field studies and in accordance with the methodology suggested by the Commission in the BERC (Multi Year Distribution Tariff) Regulations, 2024.

The Commission reiterates its earlier directive to the DISCOMs to undertake a detailed study to estimate the technical loss levels at each voltage level and compute the voltage-wise cost of supply and include the same in next tariff petition for FY 2026-27, keeping in view the methodology suggested in BERC (Multi Year Distribution Tariff) Regulations, 2024.

9. Wheeling Charges and Open Access Charges

9.1. Introduction

The Commission has determined the wheeling and open access charges for both the Discoms in a combined way for FY 2025-26 in accordance with the BERC (Terms and Conditions of Intra-State Open Access) Regulations 2018, since the Retail Tariffs are common/uniform to all the consumers across the State of Bihar.

9.2. Wheeling Charges

Petitioners' submission:

Discoms have submitted that till date complete segregation of accounts between Wheeling and Retail Supply function has not yet taken place. Thus, ARR proposals for Wheeling and Retail Supply function is submitted based on allocation statement in line with the approach followed by the Commission in its previous Tariff Orders. The petitioners have considered the following allocation for calculating/segregating its wire and retail supply business and the total costs (net ARR) of both the Discoms are segregated into wire business and retail supply business.

Table 9.1: Segregation of wires and Retail Supply Costs Projected for FY 2025-26

Sl. No.	Particulars	Total Fixed Cost	Assumption		33kV Wire cost		11kV	
			Wire Business	Retail Supply	Wire business	Retail supply business	Wire business	Retail supply business
1	Purchase of power	22367.85	0%	100%	-	22,367.85	-	22,367.85
2	Transmission charges	4163.08	0%	100%	-	4,163.08	-	4,163.08
3	O & M Expenses (A+B+C+D+E)	3710.99			-	-	-	-
A	Employee expenses	1311.49	60%	40%	786.89	524.60	786.89	524.60
B	R&M expenses	588.60	90%	10%	529.74	58.86	529.74	58.86
C	A&G expenses	495.32	50%	50%	247.66	247.66	247.66	247.66
D	Rent Charges for Smart Prepaid Meter	1232.27	50%	50%	616.14	616.14	616.14	616.14
E	Holding company expenses	83.31	60%	40%	49.99	33.33	49.99	33.33
4	Depreciation	1283.73	90%	10%	1,155.36	128.37	1,155.36	128.37
5	Interest on loan	1391.55	90%	10%	1,252.40	139.16	1,252.40	139.16

Sl. No.	Particulars	Total Fixed Cost	Assumption		33kV Wire cost		11kV	
			Wire Business	Retail Supply	Wire business	Retail supply business	Wire business	Retail supply business
6	Other finance charges	270.92	90%	10%	243.83	27.09	243.83	27.09
7	Return on equity	1155.41	90%	10%	1,039.87	115.54	1,039.87	115.54
8	Interest on	95.39	0%	100%	-	95.39	-	95.39
9	SD							
10	Interest on working capital	34.34	10%	90%	3.43	30.91	3.43	30.91
11	Energy Savings Certificate (ESCerts)	0.00			-	-	-	-
12	Demand Side Management	66.00	0%	100%	-	66.00	-	66.00
13	Bad & doubtful debts	0.90	0%	100%	-	0.90	-	0.90
14	Total Revenue requirement	34540.17			5,925.30	28,614.87	5,925.30	28,614.87
15	Less: Nontariff income	746.09	10%	90%	74.61	671.48	74.61	671.48
16	Net Revenue requirement	33794.07			5,850.69	27,943.38	5,850.69	27,943.38

It is further submitted that the wheeling charges have been computed on the basis of projected costs of petitioners distribution wire business and the total energy expected to be wheeled through the distribution network. The average per unit wheeling charge for 33 KV level is calculated as shown in the Table below:

Table 9.2: Wheeling charges for 33 kV voltage level proposed for FY 2025-26

Sl. No	Particulars	Unit	FY 2025-26
1	Energy Input into 33 kV System	MUs	43,507.70
2	Total Distribution Cost	Rs Crores	11,701.38
3	Distribution cost for 33 kV voltage levels (assuming 50% of item 2)	Rs Crores	5,850.69
4	Wheeling charges for 33 kV voltage level (item 3÷1)	Rs/kWh	1.34

The wheeling charges calculated by the Petitioners for 11 kV level is as shown in the Table as below:

Table 9.3: Wheeling charges for 11 kV voltage level proposed for FY 2025-26

Sl. No	Particulars	Unit	FY 2025-26
1	Energy Input into 33 kV System	MUs	43,507.70
2	Losses in 33 kV (5%)	%	99.63
3	Energy sales in 33 kV system as approved by the Commission	MU	1,892.92
4	Energy input into 11 kV system [1-(2+3)]	MU	41,515.16
5	Total Distribution Cost	Rs Crores	11,701.38
6	Distribution cost for 11 kV voltage levels (assuming 50% of item 5)	Rs Crores	5,850.69
7	Wheeling charges for 11 kV voltage level (item 6÷4)	Rs/kWh	1.41

Commission's analysis:

Discoms have submitted the segregation matrix of wires and Retail Supply Costs for 33kV and 11kV for FY 2025-26 as shown in Table 9.1 above. The approved ARR for FY 2025-26 for both the Distribution licensees is Rs. 30641.07 crore (Rs.13964.15 crore for NBPDC & Rs.16676.92 Crore for SBPDCL).

Regulation 34 of BERC (Multi Year Distribution Tariff) Regulations 2024 specifies that:

“Provided that in case complete accounting segregation has not been done between the Wheeling Business and Retail Supply Business of the Distribution Licensee, the Commission shall stipulate the ratio of allocation of the Aggregate Revenue Requirement of the Distribution Licensee based on data obtained from the Distribution Licensees. The following broad principles shall be followed for allocation of costs towards wheeling business and supply business, out of the total annual Aggregate Revenue Requirements determined:

Power purchase cost shall be allocated to the Retail Supply business. Operation and Maintenance expenses shall be segregated between wheeling and retail supply businesses in such manner as may be determined by the Commission;

Majority of the capital expenditure related expenses, viz., depreciation, interest and return on equity, shall be included under the wheeling business.

Explanation-

The Retail Supply Business would require only a small component of the capital expenditure towards billing and collection activity”.

In view of the aforesaid regulation, the Commission has considered the allocation matrix approved in previous Tariff Order dated 01.03.2024 and segregated the cost components of ARR into Wire and Retail Supply Businesses as shown in Table below:

Table 9.4: Segregation of cost components into wire and retail supply businesses approved for FY 2025-26 (Rs. Crore)

Sl. No.	BIHAR	Total Fixed Cost	Allocation		Cost (Rs Cr)	
			Wire Business	Retail Supply	Wire business	Retail supply
1	Purchase of power	21839.43	0%	100%	-	21,839.43
2	Transmission charges	4096.09	0%	100%	-	4096.09
3	O & M Expenses (A+B+C+D)	2408.83			-	-
A	Employee expenses	1325.04	60%	40%	795.03	530.02
B	R&M expenses	524.91	90%	10%	472.42	52.49
C	A&G expenses	315.70	50%	50%	157.85	157.85
D	Rent Charges for Smart Prepaid Meter	243.17	0%	100%		243.17
4	Holding company expenses	76.57	60%	40%	45.94	30.63
5	Depreciation	803.75	90%	10%	723.37	80.37
6	Interest on loan	1163.70	90%	10%	1047.33	116.37
7	Other finance charges	215.48	90%	10%	193.93	21.55
8	Return on equity	958.73	90%	10%	862.86	95.87
9	Interest on SD	95.39	0%	100%	-	95.39
10	Interest on working capital	7.59	10%	90%	0.76	6.83
11	Bad & doubtful debts	0.00	0%	100%	-	-
12	Total Revenue requirement	31665.56			4,299.49	27366.07
13	Less: Non-tariff income	1024.49	10%	90%	102.45	922.04
14	Net Revenue requirement	30641.07			4,197.04	26,444.03

In accordance with Ministry of Power Notification dated 10.01.2024 for Amendment of Electricity Rules 2005, the wheeling charges shall be computed as per the following formula

$$\text{Wheeling Charges} = \frac{\text{Annual Revenue Requirement towards wheeling}}{\text{Energy wheeled during the year}}$$

The wheeling charges have been computed on the basis of total approved annual costs for distribution wire business and the total energy expected to be wheeled during the year through their distribution network. In the absence of segregated data on costs of operation of 33kV and 11kV network, it has been assumed that the two costs are equal. This methodology is being adopted as approved by the Commission in previous tariff Orders.

The wheeling charges worked out for 33 kV voltage level are as given in the table below:

Table 9.5: Wheeling charges for 33 kV voltage level approved for FY 2025-26

Sl. No	Particulars	Unit	FY 2025-26
1	Energy Input into 33 kV System	MUs	41,948.86
2	Total Distribution Cost	Rs	4,197.04

Sl. No	Particulars	Unit	FY 2025-26
		Crores	
3	Distribution cost for 33 kV voltage levels (assuming 50% of item 2)	Rs Crores	2,098.52
4	Wheeling charges for 33 kV voltage level (item 3÷1)	Rs/kWh	0.50
			or say 50 paisa/kWh

The wheeling charges worked out for 11 kV voltage level are as given in Table below:

Table 9.6: Wheeling charges for 11 kV voltage level approved for FY 2025-26

Sl. No	Particulars	Unit	FY 2025-26
1	Energy Input into 33 kV System	MUs	41,948.86
2	Losses in 33 kV (3.87%)	%	1,892.92
3	Energy sales in 33 kV system as approved by the Commission	MU	76.20
4	Energy input into 11 kV system [1- 2÷3]	MU	39,979.74
5	Total Distribution Cost	Rs Crores	4,197.04
6	Distribution cost for 11 kV voltage levels (assuming 50% of item 2)	Rs Crores	2,098.52
7	Wheeling charges for 11 kV voltage level (item 6÷4)	Rs/kWh	0.52
			Or say 52 paisa/kWh

The Commission approves wheeling charges at 50 paisa/kWh for 33 kV voltage level and at 52 paisa/kWh for 11 kV voltage level for the FY 2025-26.

9.3. Open Access Charges

Open Access is one of the Key features of the Electricity Act 2003. Open Access charges must be reasonable to facilitate the consumer like Commercial establishments and industries in getting electricity through open access at competitive and reasonable rates.

The Commission opines that the HT consumers should be provided a facilitative open access framework for procurement of power from sources other than that available within the State, if they so desire. The Commission, pursuant to Section 39, 40 and 42 and all other enabling provisions of the Electricity Act 2003, has notified regulations namely BERC (Terms and Conditions of Intra-State Open Access) Regulations 2018. The consumer who seeks open access in accordance with the regulations will have to pay transmission charges, wheeling charges, cross subsidy surcharge, additional surcharge, reactive energy charges, standby charge and SLDC charges. The applicability of these charges to any open access consumer shall be as

provided in the regulations for open access.

The Ministry of Power, Government of India vide G.S.R. 418 (E) dated 06.06.2022 has notified the Electricity (Promoting Renewable Energy Through Green Energy Open Access) Rules, 2022 read with the Electricity (Promoting Renewable Energy Through Green Energy Open Access) Amendment Rules 2023. The Rule 9 (read with the amendment) of the said rules has specified the Charges to be levied for Open Access.

The Commission directs the petitioner Discoms to levy and collect open access charges from the open access consumers in accordance with the BERC (Terms and Conditions of Intra state Open Access) Regulations, 2018 and applicable Rules.

9.4. Transmission Charges

The Commission has approved Rs. 1882.28 Crore (Rs. 1562.40 Crore for BSPTCL and Rs. 324.11 Crore for BGCL) towards transmission charges for FY 2025-26 in respective Tariff Order dated 28.03.2025.

a) Transmission Charges for Long/Medium Term Open Access

Monthly transmission charges leviable for Long/Medium Term open access customer as per BERC (Terms and conditions of intra state open access) Regulations 2018 shall be computed as per the following formula:

Monthly Transmission charges=ATC/SAC x 12 Where,

ATC = Annual Transmission Charges determined by the Commission for the State Transmission Systems in Rs. Crore

SAC = Sum of Contracted Capacities of Power to the State in MW

Regulation 19 (2) (a) of BERC (Terms and conditions of intra state open access) Regulations 2018 specify that open access customer using transmission system shall pay transmission charges on the basis of contracted capacity.

The sum of the contracted capacities of power from various stations /sources to the State is 12976 MW.

Accordingly, the Commission has considered the same for determination of transmission charges applicable to Long/Medium term Open Access consumers as below:

Table 9.7: Monthly Transmission Charges applicable to Long/Medium term Open Access consumers as approved for FY 2025-26

Sl No	Particulars	Unit	FY 2025-26
1	Sum of contracted capacities of the State (SAC)	MW	12976
2	Annual Transmission charges of BSPTCL	Rs Crore	1562.40
3	Annual Transmission charges of BGCL	Rs Crore	324.11
4	Total Transmission charges (2+3) (ATC)	Rs Crore	1886.51
5	Monthly Transmission Charges applicable to Long / Medium term Open Access consumers (ATC/SAC*12)	Rs/MW/Month	121154

Thus, the Transmission Charges shall be Rs. 121154 for long/medium term open access consumers. In addition to above transmission charges, transmission losses of 2.56 % shall be reduced in kind from the energy input into the state transmission system.

b) Transmission Charges for Short Term Open Access

According to the BERC (Terms and Conditions of Intra-State Open Access) Regulations 2018, the transmission charges payable for short term open access customers are determined in terms of Rs/MWh and the formula specified for computing this charge is provided as follows:

Transmission charges payable by Short Term open access customer shall be computed as per the following formula:

$$\text{Transmission charges} = \text{ATC} / (\text{PLST} \times 8760) \text{ (in Rs. /MWh)}$$

Where,

ATC = Annual Transmission charges determined by the Commission for the State Transmission system for the year in Rs. Crore.

PLST = Peak load projected to be served by the State Transmission system

BSPTCL in its tariff petition for FY 2025-26 submitted that the projected maximum peak load for FY 2025-26 is 8878 MW which is considered for computation of transmission charges. Maximum load of NBPDCCL and SBPDCL is considered at 8778 MW and maximum load of Railways is considered at 100 MW based on contracted capacity.

Therefore, the Commission considers the peak load at 8878 MW for FY 2025-26 for computation of short-term open access charges as below:

Table 9.8: Transmission Charges applicable to short term Open Access consumers as approved for FY 2025-26

Sl No	Particulars	Unit	FY 2025-26
1	Peak Load to be served by the State Transmission System (PLST)	MW	8878
2	Annual Transmission charges of BSPTCL	Rs Crore	1562.40
3	Annual Transmission charges of BGCL	Rs Crore	324.11
4	Total Transmission charges (2+3) (ATC)	Rs Crore	1886.51
5	Transmission Charges applicable to short term Open Access consumers (ATC/ PLST *8760)	Rs/MW/Month	1886.51

The Ministry of Power, GoI has notified the Electricity (Amendment) Rules 2024 date 10.01.2024 specify that the charges for using State Transmission Utility Network by the consumers availing short term open access or Temporary General Network Access, as the case may be, shall not be more than one hundred ten percent (110%) of the charges levied on consumers using State Transmission Utility Network on Long-term basis or on General Network Access basis, as the case may be.

The Transmission Charges for long / medium term open access consumers in Rs/MWh works out to Rs 165.96/MWh ($1886.91/(12976 \times 8760)$). (12976 is Sum of contracted capacities of the State (SAC) and 1886.91 is BSPTCL and BGCL charges).

The Commission in view of the amended rules has determined the Transmission charges for Short Term Open Access at Rs. 182.56/MWh ($165.96 \times 110\%$) payable on the basis of the energy actually scheduled for short term transactions.

9.5. Transmission and Wheeling Charges for Open Access Customers.

The Open access charges shall be paid as per the table given below if the injection and drawl points of the open access customer are at different voltage levels:

Table 9.9: Transmission Charges applicable to open access customer are at different voltage levels for FY 2025-26

Drawl/ Injection	Transmission (220/132 kV)	33kV	11 KV
Transmission (400/220/132 kV)	Transmission Charges plus transmission losses 2.56 % shall be payable	Transmission charges plus wheeling charges of 33 kV shall be payable. Losses of	Transmission Charges plus wheeling charges of 33 and 11 kV network shall be

Drawl/ Injection	Transmission (220/132 kV)	33kV	11 KV
		both transmission and 33 kV network shall be payable (Cumulative loss @ 6.33 %)	payable. The losses of transmission, 33 and 11 kV network shall be payable (Cumulative loss @10.64%)
33 KV	Transmission charges plus wheeling charges of 33 kV shall be payable. Losses of both transmission and 33 kV network shall be payable (Cumulative loss @ 6.33%)	Wheeling charges of 33 kV plus losses of 33 kV network (Loss @ 3.87%) shall be payable.	Wheeling Charges of 33 and 11 kV network shall be payable. Losses for 33 and 11 kV shall also be payable (Cumulative loss @8.29%)
11KV	Transmission Charges plus wheeling charges of 33 and 11 kV network shall be payable. The losses of transmission, 33 and 11 kV network shall be payable (Cumulative loss @10.64%)	Wheeling Charges of 33 and 11 kV network shall be payable. Losses for 33 and 11 kV shall also be payable (Cumulative loss @8.29%)	Wheeling Charges of 11 kV plus losses of 11 kV network (Loss @ 4.60%) shall be payable

9.6. SLDC Charges

Open access consumer shall pay all charges payable to the State Load Despatch Centre (SLDC), as determined by the Commission under section 32 of the Act and as per the Regulation 19 (1) of BERC (Terms and Conditions for Open Access) Regulations, 2018.

The Annual SLDC Operating charges for FY 2025-26 is determined as Rs. 30.90 Crore in the SLDC Tariff Order dated 28th March 2025. Considering the energy delivered into transmission system as 44242.72 MUs, the SLDC charges works out to 0.70 Paise/kWh.

9.7. Cross Subsidy Surcharge

Petitioner's Submission

The open access consumers are liable to pay cross subsidy surcharge to compensate the distribution utility for any loss of revenue due to shifting of its consumer to the open access system. The cross- subsidy surcharge for open access consumers is calculated as per the following recommended formula in the BERC MYT Distribution Tariff Regulations, 2024.

$$S = T - [C / (1 - L/100) + D + R]$$

Where

S is the surcharge

T is the tariff payable by the relevant category of consumers, including reflecting the Renewable Purchase Obligation

C is the per unit weighted average cost of power purchase by the Licensee, including meeting the Renewable Purchase Obligation

L is the aggregate of transmission, distribution and commercial losses expressed as percentage applicable to the relevant voltage level

D is the aggregate transmission, distribution and wheeling charge applicable to the relevant voltage level

R is the per unit cost of carrying regulatory assets.”

The average cost of power purchase for both DISCOMs is shown below: -

Table 9.10: Power purchase cost for FY 2025-26

Particulars:	FY 2025-26 (NBPDCCL + SBPDCL)
Gross power purchase (MU)	46,502.47
Less:- PGCIL loss (MU)	1,649.17
Net power purchase (MU)	44,853.30
Power purchase cost including PGCIL charges	24,846.40
Average power purchase rate including PGCIL only	5.54
Intra-state Transmission Charge	1,684.53
Energy available at State Transmission Periphery	44,853.30
Transmission Charge (STU)	0.38

Calculation of Cross Subsidy Surcharge: - $S = T - [C/(1-L)/100] + D + R$

Table 9.11: Cross Subsidy Surcharge for FY 2025-26

Voltage level	Tariff	APPC	Intra-state Transmission Loss	Transmission Charge	33 kV	11 kV	Value	20% of applicable tariff	CSS
132 kV	7.85	5.54	3.00%	0.38	0	0	7.42	1.57	1.57
33 kV	7.92	5.54	3.00%	0.38	1.34	0	6.14	1.58	1.58
11 kV	7.98	5.54	3.00%	0.38	1.34	1.41	4.79	1.60	1.60
HTSS	5.94	5.54	3.00%	0.38	1.34	0	4.16	1.19	1.19

The Revised Tariff Policy suggest that the cross subsidy shall not increase 20% of applicable tariff to the category of consumers seeking Open Access. The cross-subsidy surcharge for 132 kV, 33 kV, 11 kV and HTSS category is shown above and is requested to approve accordingly.

Commission's analysis:

The cross-subsidy surcharge as per the formula specified in revised Tariff Policy issued on 28.01.2016 is worked out as follows. Weighted average cost of power purchase for both Discoms is determined as shown in Table below:

Table 9.12: Weighted average cost of power purchase for both Discoms for FY 2025-26

Particulars	FY 2025-26
Gross power purchase (MU)	45,449.08
Less: - CTU loss (MU)	1,206.36
Net power purchase (MU)	44,242.72
Power purchase cost including CTU charges (Rs Crore)	24,025.18
Average power purchase rate including CTU charges only (Rs/kwh)	5.43

Cross Subsidy surcharge is Computed by the Commission as per following formula:

$$S = T - [C / (1 - L/100) + D + R]$$

Where

S is the surcharge

T is the tariff payable by the relevant category of consumers, including reflecting the Renewable Purchase Obligation

C is the per unit weighted average cost of power purchase by the Licensee, including meeting the Renewable Purchase Obligation

L is the aggregate of transmission, distribution and commercial losses expressed as percentage applicable to the relevant voltage level

D is the aggregate transmission, distribution and wheeling charge applicable to the relevant voltage level

R is the per unit cost of carrying regulatory assets."

The Ministry of Power Govt vide Letter No. F.No-42-12/3/2022-RCM dated 06th June, 2023 has stated that according to Rule 13 of the Electricity (Amendment) Rules, 2022, the surcharge determined by State Commission shall not exceed 20% of the Average Cost of Supply.

The Commission based on the approved ARR has arrived at the Average Cost of Supply at Rs. 9.30 /kWh. The Commission in accordance with the provisions of Electricity (Amendment) Rules, 2022, has computed the cross subsidy surcharge for open access consumers as shown in the Table below:

Table 9.13: Workout of Cross-subsidy Charges at different voltage for FY 2025-26

Description	220/132 kV	33 kV	11kV
ABR (Rs./ kWh)	11.32	9.99	13.38
APPC (Rs./kWh)	5.43	5.43	5.43
Losses (%)	2.56%	6.33%	10.64%
CSS (Rs./kWh)	5.75	4.19	7.30
20% of Tariff (Rs./kWh)	2.26	2.00	2.68
Average Cost of Supply (ACoS) (Rs./kWh)	9.30	9.30	9.30
20% (ACoS)	1.86	1.86	1.86
Cross Subsidy Surcharge approved (Rs./kWh)	1.86	1.86	1.86

The revised Tariff Policy had the provision that cross subsidy surcharge shall not increase 20% of applicable tariff to the category of consumers seeking Open Access. However, in view of the aforesaid MoP rules, cross-subsidy surcharge for 132 kV, 33 kV, and 11 kV category of the consumers are approved by the Commission limited to 20% of the Average Cost of Supply.

The Commission, in order to make the cost of delivered power comparable with the retail tariff, approves the following cross subsidy surcharge for FY 2025-26.

Table 9.14: Cross-subsidy Charges applicable to open access consumer at different voltage for FY 2025-26

Sl. No.	Consumer Category	Cross Subsidy Surcharge (Rs. /kWh)
1	For 132 kV Consumers	1.86
2	For 33 kV Consumers	1.86
3	For 11 kV Consumers	1.86

9.8. Additional Surcharge

Petitioner's Submission

In order to supply seamless power to the consumers as per the demand projection under the Power for All scheme, the Bihar DISCOMs tied up huge quantum of PPAs. However, the demand has not increased as per the projection as well as due to the movement of consumers from being a consumer to the DISCOM to shifting to Open Access, the DISCOMs are currently in a power surplus situation. This has led to unnecessary fixed cost burden on the DISCOMs which is ultimately being passed on the consumer. In regard to recovering a part of the stranded costs of the DISCOMs, the DISCOMs

has proposed the Additional surcharge to be recovered by Open Access consumers for FY 2025-26 as tabulated below.

Additional Surcharge Propose by DISCOMs

Particulars		FY 2025-26 (NBPDCCL & SBPDCL)
Contracted Capacity of DISCOM	A (MW)	29020
Availability of the Contracted Capacity during period	B (MW)	29020
Scheduled Capacity during period	C (MW)	29020
Open Access allowed during period	D (MW)	70.74
Capacity stranded due to Open Access	E (MW)	0
Total Fixed charge paid for period (FY 2025-26)	F (Rs. Crore)	9,358.09
Transmission charge paid during period (FY 2025-26)	G (Rs. Crore)	4,163.08
Energy Scheduled during period (FY 2025-26)	H (MUs)	46,502.47
Energy Consumed by OA consumer from DISCOM	N (MUs)	230.42
Demand Charge Recovered by DISCOM from OA consumer	P (Rs. Crore)	38.95
OA Scheduled energy during the period	S (MUs)	54.99
Fixed charge per MW of available capacity	$I = F/B$ (Rs Crore)	0.32
Fixed charge for the Stranded Capacity	$J = I * E$ (Rs. Crore)	-
Transmission charge per kWh	$K = G/H * 10$ (Rs./kWh)	0.90
Distribution charges (as approved in Tariff order) (for FY 202425)	L (Rs./kWh)	9.04
Total T&D Charges per kWh	$M = K + L$ (Rs. /kWh)	9.94
T&D charges payable by OA to DISCOMS	$O = M * N / 10$ (Rs. Crore)	228.93
Demand Charge to be adjusted (Rs. Cr)	$Q = O - P$ (Rs. Crore)	189.98
Net Stranded Charges recovered (Rs. Cr)	$R = J - Q$	189.98
Additional Surcharge (Rs./kWh)	$S/R * 10$	2.89

Commission's analysis

Regulation 23 of BERC (Term and Conditions of Intra-State Open Access) Regulations 2018 has outlined the principle regarding determination and Levy of Additional surcharge as below:

"23. Additional Surcharge

(1) An open access consumer, receiving supply of electricity from a person other than the distribution licensee of his area of supply, shall pay to the distribution licensee an additional surcharge, in addition to wheeling charges and cross- subsidy surcharge, to meet the fixed cost of such distribution licensee arising out of his obligation to supply as

provided under sub-section (4) of section 42 of the Act. Such additional charge payable by open access consumer to the distribution licensee shall be as determined by the Commission in the distribution tariff order from time to time.

Provided that Additional surcharge shall be payable on monthly basis, by the open access consumers based on the actual energy drawn during the month through open access.

Provided also that such additional surcharges shall not be levied in case distribution access is provided to a person who has established a captive generation plant for carrying the electricity to the destination of his own use.

(2) The additional surcharge shall become applicable only if the obligation of the licensee in terms of power purchase commitments has been and continues to be stranded or there is an unavoidable obligation and incidence to bear fixed costs consequent to such a contract.

(Note: The fixed cost related to network assets is recovered through wheeling charges.)

(3) The distribution licensee shall submit to the Commission along with its ARR, a detailed calculation statement of fixed cost which the licensee is incurring towards his obligation to supply, mentioning the hourly stranded data with its merit order dispatch.”

As stipulated in the above regulation the additional surcharge shall be recovered from open access consumer, only in case of the obligation of the licensee in terms of power purchase continuous to remain stranded due to shift by open access consumers.

The Discoms have stated that “in order to supply seamless power to the consumers as per the demand projection under the Power for All scheme, the Bihar DISCOMs tied up huge quantum of PPAs. However, the demand has not increased as per the projection as well as due to the movement of consumers from being a consumer to the DISCOM to shifting to Open Access,

the DISCOMs are currently in a power surplus situation. This has led to unnecessary fixed cost burden on the DISCOMs which is ultimately being passed on the consumer. In regard to recovering a part of the stranded costs of the DISCOMs, the DISCOMs has proposed the Additional surcharge to be recovered by Open Access consumers for FY 2025-26”.

Unrecovered power cost obligation due to lower demand growth of DISCOMs compared to the projected demand growth, cannot be the ground for levying additional surcharge to open access consumers.

Further, it is also noticed that the open access quantum data provided pertains to FY 2023-24 and the Additional Surcharge is computed based on this data of FY 2023-24. The data submitted by the Discoms for computing additional surcharge for open access required to be validated by SLDC.

The Ministry of Power, GoI vide G.S.R. 36 (E) has notified the Electricity (Amendment) Rules 2024 dated 10.01.2024 specify that;

“22 (3) Additional Surcharge. The additional surcharge levied on any Open Access Consumer shall not be more than the per unit fixed cost of power purchase of the distribution licensee concerned:

Provided that for a person availing General Network Access or Open Access, the additional surcharge shall be linearly reduced from the value in the year in which General Network Access or Open Access was granted so that, if it is continued to be availed by this person, the additional surcharge shall get eliminated within four years from the date of grant of General Network Access or Open Access:

Provided further that the additional surcharge shall not be applicable for Open Access Consumer to the extent of contract demand being maintained with the distribution licensees:

Provided also that the additional surcharge shall be applicable only for the Open Access Consumers who are or have been consumers of the concerned Distribution licensee.

Explanation – *For the purpose of this rule, General Network Access and*

Temporary- GNA shall have the same meaning as defined in the Central Electricity Regulatory Commission (Connectivity and General Network Access to the inter-State Transmission System) Regulations, 2022 as amended from time to time.”

Further, the Petitioner has submitted its the response regarding Additional Surcharge vide the letter dated 15.1.2025 stated:

“The Petitioner respectfully submits that during the meeting held by BERC on November 4, 2024, the Hon’ble Commission suggested a methodology for calculating the additional surcharge. Notably, the aforesaid suggested methodology considers contracted capacity in MW and does not account for technical losses, including transmission and distribution losses..... Further, it is worthwhile to mention that State Electricity Regulatory Commission of several states, such as, Madhya Pradesh and Gujarat have adopted the simpler approach for approving the Additional surcharge”

The Petitioner has submitted the detailed computation of additional surcharge via letter dated 15.01.2025 as given below:

Particulars	Reference	Unit	Value	Remarks
Fixed Cost of Thermal Generating Sources for FY 2025-26	A	Rs. Cr	9,270.69	Source: Power purchase cost analysis model (submitted earlier); tab FY 2025-26
Total Available MU from Thermal Generating Stations for FY 2025-26	B	MU	46,988.36	
Wt. Avg. Per Unit FC of Thermal Generating Stations for FY 2025-26	C=A/B	Rs./kWh	1.97	
Projected Open Access Volume for FY 2025-26 based on actual of previous year (i.e. FY 2023-24)	D	MU	230.42	Annexure-24.4
Total Projected Backdown Volume for FY 2025-26 after considering T&D loss at Bihar level (16.08%)	E=D*(1+16.08%)	MU	267.47	Annexure-24.5 (Bihar T&D Loss for FY 2025-26)
Fixed Cost pertaining to Backdown capacity for FY 2025-26	F=E*C/10	Rs. Cr	52.69	
Per Unit Additional Surcharge (to be applicable on OA Consumers)	G=F*10/D	Rs./kWh	2.29	

It is observed that, as per BERC (Term and Conditions of Intra-State Open Access) Regulations 2018, the additional surcharge shall be recovered from open access consumer, only in case of the obligation of the licensee in terms

of declared power capacity continues to remain stranded due to shift by open access consumers. However, in its Petitions the Petitioners have shown the stranded capacity due to open access as zero. As there is no stranded capacity, no additional surcharge is leviable, as per data submitted by the Petitioners.

Additional surcharge for open access cannot be determined with the data submitted by the Petitioners. The Discoms are directed to file the petitions for determination of Additional Surcharges for open access separately, as the same involves lot of data verification, inviting suggestions from stakeholders etc.

Therefore, the Commission do not accept the petitioner's request to approve the Additional Surcharge for Open Access Consumer.

9.9. Reactive Energy Charges

Petitioner's Submission

The open access consumers should pay a reactive energy charge to Transmission and Distribution companies as the case may be for drawl/ injection of reactive energy. DISCOM proposes the reactive charges of 10 Paisa/ kVAR for the FY 2025-26. The rate proposed by the DISCOMs is based on the actual rate of Reactive Energy Charge billed by ERPC and its escalating trend over the past few years.

Commission's analysis:

According to Annexure 4 (1)(b) of India Electricity Grid Code Regulations 2023, dated 29.05.2023, the rate for Reactive Energy charges is fixed at 5 paise/kVARh w.e.f. 29.05.2023 with an escalation of 0.5 paise/kVARh per year thereafter.

The Commission accordingly prescribes the reactive energy charges at 6 paise/kVARh for drawal/injection of reactive energy for FY 2025-26.

9.10. Standby Charges

Petitioner's Submission

As per BERC open access regulations

“20 A. Standby Power In case of outage of a power plant supplying power to an open access customer, the licensee will, on request, provide standby supply to meet the requirement of load catered through open access. Such standby supply will be provided by the licensee at day ahead request from the open access customer. The open access customer will, for that supply, be liable to pay charges under tariff for temporary connection to that category of consumer.”

The Commission has approved the stand-by charges for drawal of power by open access customer from distribution licensees in accordance with BERC (Term and Conditions of Intra-State Open Access) Regulations 2018 as below:

- In cases of outages of generator supplying to open access customer under open access, stand-by arrangements shall be provided by the distribution licensee for a maximum period of 42 days in a year subject to the load shedding as is applicable to the embedded consumer of the licensee at a charge under Temporary connection tariff for the category of consumer as determined by the Commission from time to time.
- Provided that such charge shall not exceed 125% of the normal tariff for that category of consumers.
- Provided that in cases where temporary rate of charge is not available for that consumer category the distribution licensee shall charge 125% of the normal tariff for the category of consumers.
- Provided also that open access customers would have the option to arrange stand-by power from any other source.

The Commission is requested to approve the same in line with the regulations.

Commission’s analysis:

The stand-by charges for drawal of power by open access customer from distribution licensees are applicable in accordance with Regulation 24 of BERC (Term and Conditions of Intra-State Open Access) Regulations 2018 as below:

- In cases of outages of generator supplying to any open access

consumer under open access, stand-by arrangements shall be provided by the distribution licensee for a maximum period of 42 days in a year subject to the load shedding as is applicable to the embedded consumer of the licensee at a charge under Temporary connection tariff for the category of consumer as determined by the Commission from time to time.

- Provided that such charge shall not exceed 125% of the normal tariff for that category of consumers.
- Provided that in cases where temporary rate of charge is not available for that consumer category the distribution licensee shall charge 125% of the normal tariff for the category of consumers.
- Provided also that open access customers would have the option to arrange stand-by power from any other source.

In view of the BERC (Term and Conditions of Intra-State Open Access) Regulations 2018, the prayer of the petitioner to approve the Standby Charges is allowed.

9.11. Congestion Charges

Petitioner's Submission

As per regulation 25 of the BERC open access regulations, 2018:

"25. Other Charges

In addition to the above charges, the regulatory charges, congestion charges and any other charges imposed by Central Commission and/or State Commission shall be payable by the open access customers."

In view of the same the Commission is requested to determine and approve congestion charges for Open Access Consumers in order to mitigate the issues related to transmission and distribution of power.

Commission's analysis:

The Commission is not inclined to consider for determination of congestion charges for Open Access consumers at this stage. However, the Discoms if they so desire may approach this Commission separately with detailed data,

rationale and justification for determination of such charges.

Congestion charges, if any, will be determined after receipt of such proposal from the licensees.

9.12. Application Fee

All applications for Open access i.e. Short Term, Medium Term and Long term Open Access shall be made in the prescribed form and submitted to the nodal Agency along with the application fee as stipulated in the BERC Open Access Regulations, 2018.

9.13. Other Charges

In addition to the charges mentioned in above paras, the regulatory charges and any other charges imposed by CERC and/or BERC shall be payable by the open access consumers.

9.14. Information to be put on the website

The Commission directs the Discoms to place all information related to open access facilities/charges on its website. The information should include open access regulations, procedure for obtaining open access and details of all charges payable by an open access consumer and list of existing open access consumers.

10. Tariff Principles, Design and Tariff Schedule

10.1. Introduction

The Commission, while determining the retail supply tariff for FY 2025-26, is guided by the provisions of the Electricity Act, 2003 (Act), National Electricity Policy 2005, Tariff Policy 2016, BERC (Multi Year Distribution Tariff) Regulations, 2024 Regulations on Terms and Conditions for Determination of Tariff issued by the Central Electricity Regulatory Commission (CERC) and relevant policies, rules and guidelines issued by the MoP.

Section 61 of the Act lays down the broad principles, which shall guide determination of retail tariff. As per these principles, the tariff should progressively reflect cost of supply and reduce cross subsidies. The Act lays special emphasis on safeguarding consumer interests and also requires that the costs should be recovered in a reasonable manner. The Act mandates that tariff determination should be guided by the factors, which encourage competition, efficiency, economical use of resources, good performance and optimum investment.

The National Electricity Policy aims at increased access to electricity, supply of reliable and quality power at reasonable rates, minimum lifeline consumption, financial turnaround and commercial viability of electricity sector and protection of consumers' interest.

The revised Tariff Policy dated 28th January, 2016 notified by the Government of India provides comprehensive guidelines for determination of tariff and revenue requirement of power utilities. The Tariff Policy mandates that tariff should be within $\pm 20\%$ of the average cost of supply. The Commission endeavors to follow the guidelines as far as possible.

The Commission has computed the average cost of supply on the basis of the annual revenue requirement and the energy sales approved by the Commission for

FY 2025-26. The voltage-wise cost of supply is determined in accordance with the guidelines provided by the APTEL.

10.2. Simplification of tariff structures for electricity consumers in Bihar

Petitioners' submission

10.2.1 The two Distribution Licensees in Bihar have taken initiatives in the past couple of years to undertake measures to simplify the tariff structure, under the guidance of the Commission. Key measures undertaken have resulted in the following:

- i. Simplification of the tariff structure,
- ii. Bringing in a progressive tariff structure that helps promote efficiency, and
- iii. Rationalization of electricity tariffs.

10.2.2 The Distribution licensees of Bihar have kept the following objectives in mind while proposing the tariff structure for FY 2025-26.

- i. Ensuring that an adequate balance is maintained between the interest of consumers and the distribution utility;
- ii. Enabling consumers to efficiently and effectively plan their expenditure on electricity;
- iii. Ensuring that tariffs progressively reflect the prudent cost of electricity supply to the consumers, and
- iv. Incentivizing the consumer for efficient utilization of electricity.

10.2.3 The Distribution Licensee have followed the following key guiding principles for proposing the tariff structure and tariffs which would be applicable for the FY 2025-26.

- i. Preserving kVAh based billing for all consumer categories wherever feasible.
- ii. Introduction of new tariff categories as per the Demand of the prospective consumers
- iii. Rationalizing the payment mechanism for certain category of consumers to facilitate the consumers as per their affordability.

10.2.4 Based on the above principles, the following key changes have been proposed by the distribution licensees in the tariff structure and schedule for the ensuing year.

- i. Facilitating the prospective consumers through introduction of “Green Tariff”
- ii. Incentivizing increased consumption through improvement in load factor
- iii. Applicability of Time of Day (TOD) tariff structure for smart prepaid consumers and Revision in duration for TOD tariff
- iv. Rationalizing the online payment incentive for each consumer category
- v. Rebate for uptake of Smart Prepaid meter by consumers
- vi. Tariff Rationalization – DS-I (Rural)
- vii. Relaxation in Penalty provision for Smart Prepaid meter consumers
- viii. Non-applicability of Power factor surcharge for Agricultural and NDS category
- ix. Additional benefit on advance payment to consumers for smart prepaid consumers (<20 kW) excluding govt. consumers
- x. Introduction of Cold Storage (Exclusively for storing of Agriculture Products).

Commission’s View

The Commission has taken note of the tariff rationalisation proposals submitted by Discoms, as well as views of general public/stakeholders expressed in course of public hearings as well as by way of written submission. The Commission has dealt with key changes proposed in the tariff schedule in the subsequent paragraphs after thorough analysis of the points raised by the general public/stakeholders as well as the response submitted by the petitioners as per the provisions of extent rules and regulations.

10.3. Key changes proposed in the Tariff Schedule for FY 2025-26

10.3.1 Facilitating the prospective consumers through introduction of “Green Tariff”

Petitioners’ submission

The Petitioners submitted that the Ministry of Power (MoP) vide its notifications dated 6th June 2022 had issued the Electricity (Promoting Renewable Energy Through Green Energy Open Access) Rules, 2022. Further, the MoP through letter dated 10th October 2022 had conveyed to all State Electricity Regulatory Commissions (SERCs) to take appropriate action for determination tariff for green energy.

Further, the Petitioners submitted that several states have already adopted the Green Tariff as determined by the respective State Electricity Regulatory Commission's (such as Maharashtra, Rajasthan, Madhya Pradesh etc.) Green Tariff is the extra charge over and above the normal tariff of the respective consumer category who opt for availing renewable energy through DISCOMs.

Moreover, there is continuous pressing demand from industries and other consumer categories for determination of Green Tariff in the state of Bihar. It would help in meeting power requirement through RE, RPO fulfilment, reduction in power purchase cost.

Further, the Petitioner had earlier filed a Petition for Formulation of Regulations and Determination of Tariff for Green Energy Open Access Consumers which was heard by Commission as Case No 06/2024 on 18.04.2024.

Based on the methodology adopted by states for determination of green tariff, a green tariff at Rs.1.17/kWh is proposed for all categories in the state of Bihar.

Commission's View

The Commission examined the proposal of the DISCOMs to introduce green tariff and directed the Petitioners to submit the rationale for proposing the green tariff of Rs.1.17/kWh. The Petitioners, in their reply, submitted the following methodology adopted for computation of green tariff:

Parameter		Rate (Rs./kWh)	Source
Weighted average rate of Energy charge of Non-RE sources (Rs./kWh)	A	5.41	Average cost of power from conventional sources at CTU as approved by BERC for FY 2024-25 (Tariff Order for FY 2024-25, table 6.23, page no 323)
Weighted average rate of RE power (Rs./kWh)	B	3.03	Average cost of RE power as approved by BERC for FY 2024-25 (Tariff Order for FY 2024-25, table 6.23, page no 324)
Difference	C = A-B	2.38	
50% of Difference	D = C*0.5	1.19	
Remarks: the Petitioners have proposed a green tariff of Rs.1.17/kWh (amount lesser than Rs.1.19/kWh as arrived above).			

Commission observed that the above methodology proposed by the Petitioners is not appropriate and determines the Green Energy Tariff by adopting the following approach.

It is noted that in accordance with the Section 86(1)(e) of the Electricity Act, 2003, the Commission is mandated to promote adoption of RE. As per the provisions of the Electricity (Promoting Renewable Energy Through Green Energy Open Access) Rules, 2022 of MoP as well as BERC (GEOA) Regulations, 2024, the Commission has to determine separate Tariff for Green Energy.

As per Regulation 4.2(C) (iii) of BERC (GEOA) Regulations, 2024 the components for determining Tariff for Green Energy for consumer shall include:

- a) Average Pooled Power Purchase Cost of RE
- b) Cross Subsidy Charges, if any and
- c) Service Charge covering prudent cost of distribution licensee for providing Green Energy.

The BERC (GEOA) Regulations, 2024, also provide that Green Energy can be requisitioned by any consumer having contracted demand or sanctioned load of 100 kW and above who may purchase on a voluntary basis, more renewable energy than he is obligated to do and for ease of implementation, this may be in steps of 25% going up to 100%.

In view of above, the Commission is determining Green Energy Charges for the consumers who wishes to procure Green Power from the Distribution Licensee.

Commission acknowledges that the retail tariff structure in Bihar is of two-part tariff involving fixed charges and energy charges which further have multiple slab structure, fixed charge billing, etc, which are applicable for consumption of power from Distribution Licensee. The tariffs approved in this Order covers all the costs of the Distribution Licensees including RE power purchase cost from all the sources, element of cross subsidy and all other costs of Distribution Licensee approved as part of ARR which also includes Service Charges.

- (a) For computing the pooled purchase cost of RE, the Commission has taken

reference of the figures of approved power procurement from different sources for the FY 2025-26. Accordingly, the average cost of power purchase from RE sources comes to Rs 4.06/kWh considering the RE purchase cost at consumer end.

(b) For determining the Cross Subsidy Charges, the difference between ACoS and ABR of respective tariff categories have been considered. This is derived as Rs 0.92/kWh.

c) Services Charges pertain to the cost of distribution licensee other than the cost associated for purchase of power (i.e Other ARR components) and the fixed cost of power purchase as the power purchase from Renewable Energy is at single part tariff only. Hence, it is important to consider the fixed cost of power purchase also while determining the Service Charges of Distribution Licensee.

In the Average Cost of Supply approved by the Commission, the contribution of other components of ARR excluding power purchase cost works out to be Rs 1.29/kWh (i.e. Rs. 4705.54 Crore of Other ARR Components / Sales of 36425.95 MU*10) and the same is considered as Service Charges covering prudent cost of distribution licensee for supplying power to the consumers.

In case Distribution Licensees procure more power from Renewable Energy sources to meet the requisitions of consumers opting for procuring RE power, the thermal capacity contracted by the Distribution Licensees will become stranded and hence the fixed cost due to stranded power also needs to be considered as part of Service Charges of Distribution Licensee for providing Green Energy, which works out to Rs. 3.47/kWh (i.e. Rs. 10066.66 Crore as Fixed Cost of Power Purchase / 29046.40 MU as energy available from thermal projects at consumer end *10).

The Service Charges related to other ARR components and fixed cost of power purchase takes care of all the other costs, Distribution Licensee will incur in supplying Green Energy for consumer. Hence, the Commission has not considered any other cost separately as proposed by the Petitioners while determining the Tariff for Green Energy.

In view of the above and considering the provisions of the Electricity (Promoting Renewable Energy Through Green Energy Open Access) Rules, 2022 of MoP as well as BERC (GEOA) Regulations, 2018, the Commission instead of determining separate

category wise Tariff for Green Energy for consumers purchasing Green Energy from DISCOMs has determined the Green Energy Charges for such consumers based on the incremental cost basis for availing RE power which shall be applicable to consumers over and above the normal tariff of the respective category as per the provisions of Regulations.

On the basis of above, the green tariff is determined as Rs 9.74/kWh (Rs 4.06/kWh + Rs 0.92/kWh + Rs 3.47/kWh + Rs 1.29/kWh). The average billing rate based on approved tariff is comes out as Rs 9.32/kWh. Hence, the applicable green tariff is derived as Rs 0.42/kWh. This will be the incremental tariff, which shall apply over and above the normal tariff rates of the concerned category.

Considering the above, Commission decides to introduce the Green tariff in the state. The Commission hereby approves the Green tariff of **Rs 0.42/ kWh**. The consumers who opt for availing renewable energy through DISCOMs have to pay the aforementioned Green tariff over and above the tariff applicable for that category of consumers as per the tariff approved by the Commission for FY 2025-26.

10.3.2 Incentivizing increased consumption through improvement in load factor

Petitioners' submission

To promote efficiency in the system and incentivize electricity consumption, the Petitioner had proposed to introduce Load factor incentives for HT Industrial consumers (excluding HTSS consumers) in the Retail tariff Petition for FY 2022-23. However, the Commission vide its Tariff Order dated 25.03.2022 had suo-motu allowed Load Factor incentive for all HT industrial category consumers along with HTSS consumer with Load factor above 60%.

The petitioner further submitted that the Commission vide its Tariff Order dated 01.03.2024 for FY 2024-25 had approved load factor incentive for HTSS category industries as follows:

Load Factor range	Incentive
Above 60%	30 paise per unit on energy charges for entire energy consumption during the billing month for load factor above 60%.

It is pertinent to mention that load factor incentive has been provisioned in the tariff structure with the motive to boost HT consumption in the state. However, the HTSS industries already operate at higher load factor levels (around 90%) by the nature of operations of their businesses. Therefore, including the HTSS industry in the bracket of beneficiaries of load factor rebate will further reduce their tariff which are already getting the benefit of lower energy charges as compared to other HT categories. Moreover, provisioning of load factor incentive for HTSS on the entire consumption for load above 60% would provide much benefit to HTSS category at the cost of burdening the other consumer categories along with impacting DISCOM's financials as well. Accordingly, the incentive structure for HTSS consumer is proposed as follows:

Load Factor range	Incentive
Above 60%	30 paise per unit on energy charges for energy consumption during the billing month for incremental load factor above 60%.

Commission's View

The Commission has examined the proposal of DISCOMs and the comments / suggestions received from the stakeholders in this regard. It is observed that the DISCOMs proposes to modify the load factor incentive structure for HTSS consumers. The Commission notes that present load factor incentive structure available for HT Industrial category segmented into different range of load factor . whereas for HTSS, the incentive is applicable beyond 60% load factor achievement. , without having any intermediate interval in load factor.

The Commission noted the submission of the petitioners that the HTSS industries operate at higher load factor levels. After examination of information placed before the Commission, the Commission decides to approve slab wise load factor incentive structure for HTSS category of consumers starting with higher range of load factor interval (> 65%) compare to other HT industrial category of consumers.

In view of simplification & rationalisation of load factor incentive structure across the consumers , the Commission decides to include the Oxygen Gas Manufacturer category of consumers also under HT industrial category of consumers for availing the

load factor based incentive as specified by the Commission for FY 2025-26. The Commission decided to revise the lower limit of load factor for HT industrial category of consumers for availing load factor incentive.

In view of above, the Commission approves the Load factor incentive structure for HT industrial and HTSS category of consumers for FY 2025-26 as given below:

A. Load factor incentive for all HT Industrial category consumers (excluding HTSS consumers)

Load Factor Range	Incentive
>40%-60%	10 paise per unit on energy charges for energy consumption over 40% and up to 60% load factor during the billing month
>60%-70%	20 paise per unit on energy charges for energy consumption over 60% and up to 70% load factor during the billing month
Above 70%	25 paise per unit on energy charges for energy consumption over and above 70% load factor during billing month

B. Load factor incentive for all HTSS Category Industries:

Load Factor range	Incentive
>65%-70%	10 paise per unit on energy charges for entire energy consumption during the billing month [for load factor above 65% and up to 70%].
>70%-80%	15 paise per unit on energy charges for entire energy consumption during the billing month [for load factor above 70% and up to 80%].
Above 80%	25 paise per unit on energy charges for entire energy consumption during the billing month [for load factor above 80%].

10.3.3 Applicability of Time of Day (TOD) tariff structure for smart prepaid consumers and Revision in duration for TOD tariff

Petitioners' submission

Applicability of Time of Day (TOD) Tariff :

The Commission in its Tariff Order dated 01.03.2024, and its review order dated

30.09.2024, for Truing up of FY 2022-23, Annual Performance Review of FY 2023-24, Annual Revenue Requirement (ARR) and determination of Retail Tariff for FY 2024-25 had approved the Time of Day (TOD) tariff for all HT consumers and had also directed the Petitioner to extend the TOD tariff for all Commercial and Industrial consumers having Maximum Demand > 10kW with effect from 1st April 2024. Further, the Commission had also directed the Petitioner to take all necessary steps to ensure that the provisions of Electricity (Rights of consumers) Amendments Rules, 2023 for providing TOD tariff to all consumers except agriculture is made effective not later than 1st April 2025 which is as follows:

<i>Time of Use</i>	<i>Demand Charges</i>	<i>Energy Charges</i>
<i>(i) Normal Period (11:00 pm - 09:00 am)</i>	<i>Normal Rate</i>	<i>Normal rate of energy charges</i>
<i>(i) Evening Peak load Period (05:00 pm - 11:00 pm)</i>	<i>Normal Rate</i>	<i>120% normal rate of energy charges</i>
<i>(iii) off-peak load Period (09:00 am - 05:00 pm)</i>	<i>Normal Rate</i>	<i>80% normal rate of energy charges</i>

The same has been in line with the Ministry of Power (MoP) The Rights of Consumer Rules, 2020 and its amendments issued therein. It is worthwhile to mention that the Petitioner is in process of implementing Prepaid Smart metering to all consumer categories across the state in the phase wise manner. More than 50 lakhs of Smart Prepaid Meters have been installed in the state of Bihar till date.

Therefore, the Petitioners requested the Commission to extend the TOD tariff structure across all consumer categories for which Prepaid Smart meters are installed and are having Maximum Demand > 10kW (excluding Agriculture consumer) with effect from 1st April 2025.

Duration of TOD:

The Ministry of Power, govt. of India vides Guidelines for Installation and Operation of Electric Vehicle Charging Infrastructure-2024 dt. 17.09.2024 has specified “solar hours” as 9:00 AM to 4:00 PM.

In the backdrop of the above, it is pertinent to have off-peak hours as Solar hours of day (9 AM to 4 PM) wherein the demand in the State is lowest. The charges for the off-peak hours should be same as specified by the Ministry of Power in the Electricity (Rights of Consumers) Amendment Rules, 2023 dt. 14.06.2023.

Accordingly, the DISCOMs have proposed the following TOD tariff for all consumer categories for which Prepaid Smart meters are installed and are having Maximum Demand > 10kW (excluding Agriculture consumer) for FY 2025-26.

<i>Time of Use</i>	<i>Demand Charges</i>	<i>Energy Charges</i>
<i>(i) Normal Period (11:00 pm - 09:00 am)</i>	<i>Normal Rate</i>	<i>Normal rate of energy charges</i>
<i>(i) Evening Peak load Period (04:00 pm - 11:00 pm)</i>	<i>Normal Rate</i>	<i>120% normal rate of energy charges</i>
<i>(iii) off-peak load Period (09:00 am - 04:00 pm)</i>	<i>Normal Rate</i>	<i>80% normal rate of energy charges</i>

The Commission has been requested to consider the applicability of TOD tariff structure and change in duration of TOD tariff slabs as proposed by the Petitioners for FY 2025-26.

Commission's View

The Commission has examined the proposal of the Discoms to revise the ToD tariff structure and change in time period related to Off Peak, Peak and Normal hours of supply in ToD tariff. Further, DISCOMs have proposed to extend the TOD tariff structure across all consumer categories for which Prepaid Smart meters are installed and are having Maximum Demand > 10kW (excluding Agriculture consumer) with effect from 1st April 2025.

The Commission observes that the Ministry of Power vide GSR 437 (E), Electricity (Rights of Consumers) (Amendment) Rules, 2023, dated 14th June, 2023 has made following provisions regarding ToD tariff as given below.

“Time of Day Tariff: The Time-of-Day tariff for Commercial and Industrial consumers having maximum demand more than ten Kilowatt shall be made

effective from a date not later than 1st April, 2024, and for other consumers except agricultural consumers, the Time-of-Day tariff shall be made effective not later than 1st April, 2025, and

Time of Day tariff shall be made effective immediately after installation of smart meters, for the consumers with smart meters:

Provided that, the Time-of-Day Tariff specified by the State Commission for Commercial and Industrial consumers during peak period of the day shall not be less than 1.20 times the normal tariff and for other consumers, it shall not be less than 1.10 times the normal tariff:

Provided further that, tariff for solar hours of the day, specified by the State Commission shall be atleast twenty percent less than the normal tariff for that category of consumers:

Provided also that the Time-of-Day Tariff shall be applicable on energy charge component of the normal tariff:

Provided also that the duration of peak hours shall not be more than solar hours as notified by the State Commission or State Load Despatch Centre.”

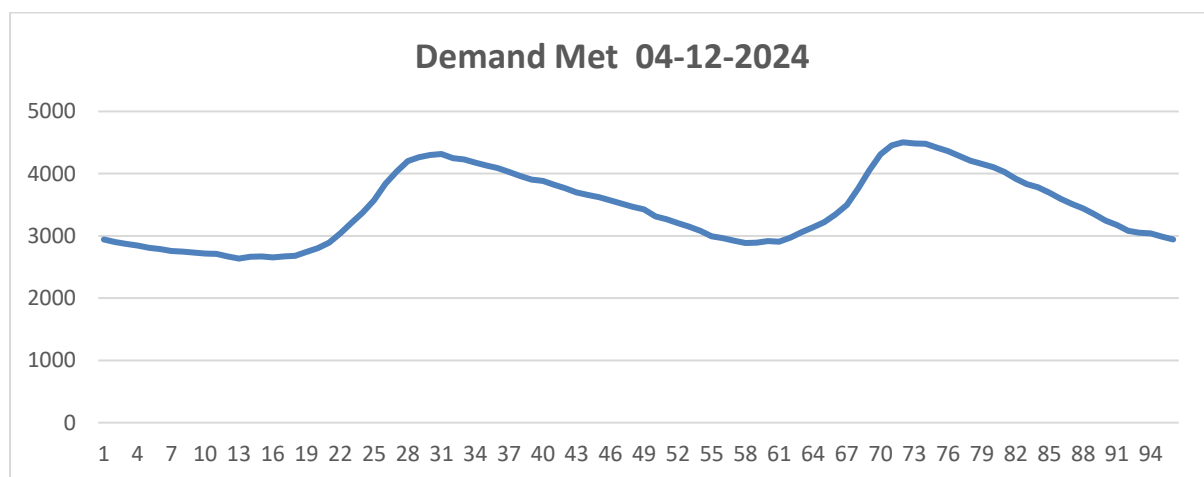
The Rules, as given above, has mandated the Time-of-Day Tariff for all Commercial and Industrial Consumers having Maximum Demand more than 10kW not later than 1st April, 2024. Accordingly, the Commission, in its tariff order for FY 2024-25, decided to extend the TOD tariff for all Commercial and Industrial consumers having Maximum Demand > 10kW with effect from 1st April, 2024.

The Commission has noticed that DISCOMs have proposed to extend the TOD tariff structure across all consumer categories for which Prepaid Smart meters are installed and are having Maximum Demand > 10kW (excluding Agriculture consumer) with effect from 1st April 2025.

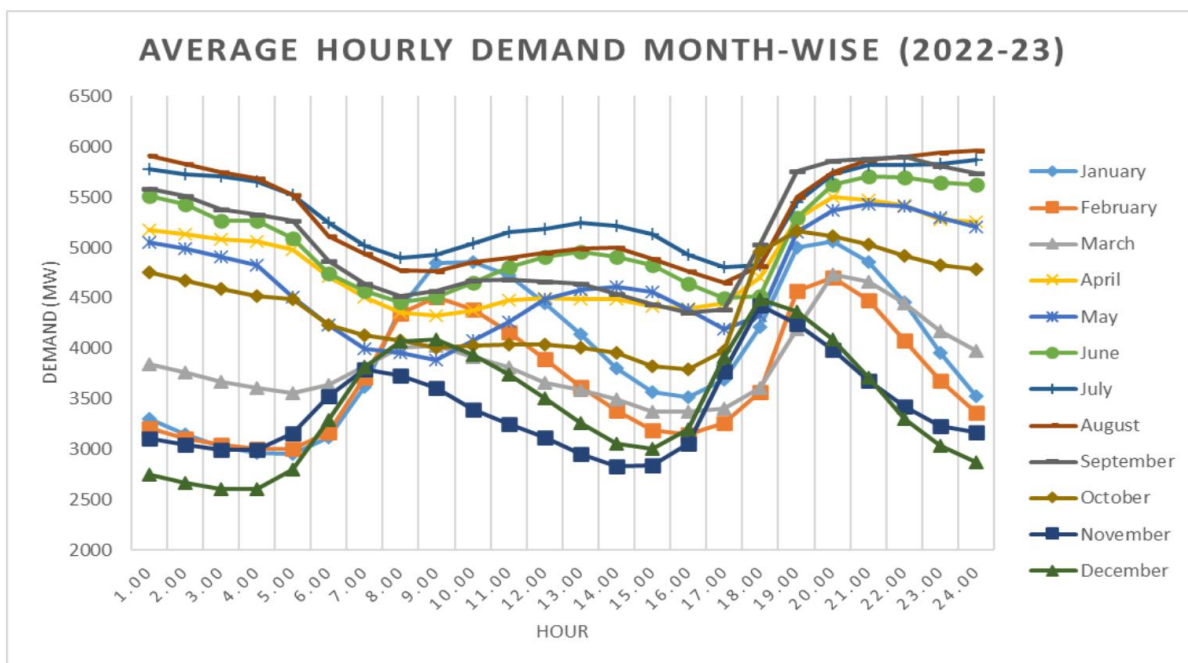
The Commission notes that the proposal is in line with the provisions given under Ministry of Power, Electricity (Rights of Consumers) (Amendment) Rules, 2023 and hence the Commission decides to approve the same. ToD tariff will now be applicable

for all consumers having Contract Demand more than 10kW including all industrial and commercial consumers having Contract Demand more than 10kW (excluding Agriculture consumer).

Regarding revision of duration of ToD tariff, the DISCOMs proposed to revise the beginning of evening peak period from existing 5 PM to 4 PM. In the data gap query, the Commission directed the Petitioners to submit the rationale for revision of evening peak period along with the supporting load curve. In response, the Petitioners submitted a representative load curve of 4th December 2024.



The Commission has examined the above load curve observes that the load curve of a typical day cannot be considered as a representative case for deciding tariff for entire year. Therefore, the Commission feels it more appropriate to refer to the month-wise load curve (average hourly demand) for FY 2022-23 provided in Central Electricity Authority (CEA) report titled “Resource Adequacy Plan for Bihar (2024-25 to 2033-34)”, as given below.



The Commission, based on the above load curve, which shows hourly average demand of each month, i.e. covering all the seasons, decides to continue present time period for applicability of ToD regime and defines the evening peak period from 5pm to 11 pm for the purpose of ToD tariff.

The Commission directs the petitioners to take all necessary steps to ensure that the TOD tariff to all consumers with contract demand > 10 kW, except agriculture consumers should be implemented wef 1st April 2025. The approved ToD tariff structure is given below.

LT consumers (except agriculture):

Time of Use	Demand Charges	Energy Charges
(i) Off peak load period (9:00 a.m. to 5.00 p.m.)	Normal Rate	80% of normal rate of energy charges
(ii) Evening peak load period (5.00 p.m. to 11.00 p.m.)	Normal Rate	I) 120% of normal rate of energy charges (applicable for NDS-I, NDS-II, LTIS-I, LTIS-II categories) II) 110% of normal rate of energy charges (other categories)
(iii) Normal load period (11.00 p.m. to 9.00 a.m.)	Normal Rate	Normal rate of energy charges

HT consumers:

Time of Use	Demand Charges	Energy Charges
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(i) off peak load period (9:00 a.m. to 5.00 p.m.)	Normal Rate	80% of normal rate of energy charges
(ii) Evening peak load period (5.00 p.m. to 11.00 p.m.)	Normal Rate	120% of normal rate of energy charges
(iii) Normal period (11.00 p.m. to 9.00 a.m.)	Normal Rate	Normal rate of energy charges

10.3.4 Rationalizing the online payment incentive for each consumer category

Petitioners' submission

For encouraging the consumers to make online payment of the bills a rebate of 1% of the billed amount has been allowed by the Commission. However, this is of utmost importance to consider that the online payment system has been devised to encourage majorly the domestic and commercial consumers. Industrial and other large consumers have already adopted completely the online payment system thereby enjoying the online payment rebate of 1%.

As per the actual revenue realization in FY 2023-24, HTS-III and HTSS consumers by making online payment of their monthly Bills are enjoying rebate of more than 5 lakhs and above per month. It is pertinent to note that the online payment rebate provided to the consumers, subsequently, recovered through the Aggregate Revenue Requirement (ARR) and loaded on all the consumers; while the benefit of online payment rebate is heavily enjoyed by large HT consumers only.

In the backdrop, there is need to limit the extravagant rebate that the HT consumers are enjoying through this online payment rebate. So, the Petitioner hereby proposes to limit the online payment rebate for HT consumers up to Rs 20,000 or 1%, whichever is lower.

Commission's View

The Commission has examined the proposal of the Discoms and reviewed the comments / suggestions received from the stakeholders. Several HT consumers suggested to continue the present mechanism without any cap on upper limit. The Petitioners have submitted that online payment rebate is being enjoyed primarily by the large HT consumers which is subsequently passed on to the ARR and loaded on

all the consumers.

The Commission, to strike the balance between the consumer and licensees, decides that online payment rebate for HT consumers shall continue to remain @ 1% of the billed amount, however, the maximum rebate available under online or digital payment shall be limited to Rs 50,000.

10.3.5 Rebate for uptake of Smart Prepaid meter by consumers

Petitioners' submission

The Commission in the tariff order for FY 2022-23 had approved a rebate of 2% on every amount recharged by the consumer opting for pre-paid smart meter. Further, the rebate for online payment of 1% is applicable to these consumers over and above the rebate on prepayment. The DISCOMs proposed to change the existing rebate of 3% (2% prompt payment rebate and 1% rebate on online recharge) by a rebate of Rs.0.25/kWh on energy charge for smart prepaid meter consumers for FY 2025-26.

The petitioners submitted that the aforesaid proposition would provide clarity to consumers and avoid billing related issues and would help in smooth adoption of smart prepaid meters by the consumers. Further, States like Madhya Pradesh has similar arrangement of rebate in Rs/kWh terms for pre-paid system.

Moreover, it is pertinent to mention that for other consumers, the rebate is proposed to remain at 2.5% (Prompt Payment + Online Payment) for FY 2025-26.

Commission's View

The Commission agrees to submission of petitioners and decide to accept the proposal. The Commission feels that the proposed Rs.0.25/kWh rebate, instead of rebate in percentage, provides more clarity to consumers.

The DISCOMs proposal to replace the existing rebate of 3% (2% prompt payment rebate and 1% rebate on online recharge) by a rebate of Rs.0.25/kWh on energy charge for smart prepaid meter consumers is accepted. This will result in an effective reduction of tariff by Rs.0.25/unit for those consumers (approximately 60 lakh at present) who get smart pre-paid meter installed for themselves.

10.3.6 Tariff Rationalization – DS-I (Rural)

Petitioners' submission

The Commission in the Tariff Order dated 01.03.2024 while Truing up of FY 2022-23, Annual Performance Review of FY 2023-24, Annual Revenue Requirement (ARR) and determination of Retail Tariff for FY 2024-25 had approved the energy charge for DS-I Rural category under two slabs as mentioned below:

0-50 unit	Rs.7.42/unit
Above 50 unit	Rs.7.96/unit

The Petitioner submitted that existence of two different slabs under DS-I category raise disparity and billing related issues. Further, in line with MoP emphasis on tariff rationalization and simplification of tariff, it is proposed to keep single slab as against the two existing slabs for DS-I Rural category for FY 2025-26.

Further, it is proposed not to increase the existing energy charge of Rs.7.42/ unit for DS-I including KJY consumer for FY 2025-26.

Therefore, the Commission was requested to approve the tariff rationalization for DS-I Rural category as proposed by the petitioners for FY 2025-26.

Commission's View

The Commission has examined and accepted the proposal of DISCOMs to merge both the slabs of energy charges into one and fixed the charges at lower slab rate of DS-1 category. This will result in an effective reduction of tariff by Rs.0.25/unit for those consumers (approximately 60 lakh at present) who get smart pre-paid meter installed for themselves.

10.3.7 Relaxation in Penalty provision for Smart Prepaid meter consumers

Petitioners' submission

The Petitioner submitted that Ministry of Power had issued an Advisory vide its letter dated 13th September 2022, in the subject matter "**Advisory on issues relating to Smart Metering Roll Out under RDSS**" wherein it is recommended that for faster rollout of the Smart Metering, there is a need to address certain issues being faced by

the consumers and the recommendations to be implemented immediately in the States/ DISCOMs while rolling out Smart Meters.

In the backdrop of above, the Commission had issued the Bihar Electricity Supply Code (7th Amendment), 2023 wherein consumers were provided a period of six months' post installation of smart meter to get attuned to this system without levying any penalty.

The petitioners submitted that the Petitioners are implementing the smart meter in phase wise manner with more than 50 lakh smart meters already installed across the state. Further, it worthwhile to mention that necessity to create awareness of key features and benefits of smart meters amongst the consumers are of utmost importance. The Petitioner has been undertaking awareness drive for the same at regular intervals and at multiple locations.

In view of the above, it has been requested that Consumers may be provided a period till 31st March 2026 instead of six months, to get attuned to this system without levying any penalties toward excess demand beyond consumer's contracted demand.

Commission's View

The Commission has reviewed the proposal of DISCOMs. It has been noticed that the Commission issued the 7th amendment in Bihar Electricity Supply Code, 2007. The relevant provision is given below:

"9.28 Notwithstanding anything contained in these Code, any other Regulations and Tariff order; in case of finding higher demand post conversion of consumer to prepaid/ smart metering -

.....

viii) Consumers will be provided a period of six months post installation of smart meter to get attuned to this system without levying any penalties"

The Commission do not agree to petitioner's submission for relaxing the time limit till 31st March 2026 instead of six months, to get attuned to this system without levying any penalties toward excess demand beyond consumer's contracted demand.

The Commission decides that the period of six months post installation of smart meter, will continue so that the consumer gets attuned to this system without levying any penalties.

10.3.8 Non-applicability of Power factor surcharge for Agricultural and NDS category

Petitioners' submission

It is pertinent to mention that the Petitioners in the Tariff Petition for True-Up of FY 2022-23, APR of FY 2023-24 and ARR & Tariff for FY 2024-25 proposed kVAh based tariff for the Non-Domestic (NDS-I and NDS-II) consumers. However, the same has not been approved by the Commission.

In the absence of kVAh based billing system, there are several instances wherein Agricultural and NDS consumer categories are protesting due to levying of Power factor surcharge.

In the backdrop of the same, it is requested that PF surcharge may not be applicable on to the Agricultural and NDS consumer categories.

Therefore, the Commission has been requested to approve the aforesaid submission as proposed by the Petitioners for FY 2025-26.

Commission's View

The Commission observes that the Petitioners had filed a Petition with similar prayer (Case No.32/2024), which was disposed of through an order dated 17.02.2025. The observation of the Commission in the said order (Case No.32/2024) is depicted below:

"3.5 We also find that in the tariff petition(s) filed by the petitioners on 15th November 2024, prayer for approving the proposal of non-applicability of power factor surcharge for Agricultural and NDS category of consumers have been made which is a bit different from the prayer made in the instant petition (Case No 32/2024), wherein it is requested to adjourn power factor surcharge for single phase LT smart meter consumer for a period till 31st March 2026, or otherwise to introduce kVAh based billing system for such consumer category, whichever is earlier."

Also the major reason cited by the petitioner in support of above proposal is **‘protest by consumers’**. The Commission is of the view that the protest by any group of consumer cannot be made a ground for providing any concession.

In view of above, the Commission decides to agree with the proposal of the petitioners to introduce kVAh based billing system for NDS category of consumers, i.e. NDS-I and NDS-II (Contract demand above 0.5 kW and up to 70 kW). The Demand charge will be in terms of Rs./kVA and Energy charges will be in terms of Rs./kVAh.

However, For NDS-II category, having Contract demand ≤ 0.5 kW, the existing system of fixed charge in terms of Rs. /month/connection and energy charge in terms of Rs./kWh will continue.

Further, as requested by the Petitioners, the Commission decides that power factor surcharge shall not be applicable for IAS-I category during FY 2025-26.

10.3.9 Additional benefit on advance payment to smart prepaid consumers (<20 kW) excluding govt. consumers

Petitioners’ submission

The main objective of the tariff initiative is to provide additional interest benefit to smart prepaid consumers (<20 kW) (excluding Government Consumers) & to improves DISCOMs receivables and improve its financials. It would also help to improve loan & interest portfolio of DISCOMs and pass on any benefit to the consumers in the long run.

The DISCOMs has proposed that if a consumer makes advance payment against his future bills, he shall be allowed for interest equivalent to the Bank Rate of RBI. Such amount of interest shall be adjusted in subsequent monthly regular electricity bills on reducing balance, provided that the minimum amount of advance payment shall not be less than Rs. 2,000/- (Rupees Two Thousand only) and this minimum amount is required to be maintained continuously for at least 3 consecutive months. The additional benefit to smart prepaid metered consumers (<20 kW), if the consumer can maintain their advance payment as follows:

Sr. No	Particulars	Details
1	Advance Amount \geq Rs 2000 and period minimum three (3) months	RBI Bank Rate as applicable from time to time (Currently it is 6.75%)
2	Advance Amount \geq Rs 2000 and period $>$ three (3) months & $<$ six (6) months	RBI Bank Rate as applicable from time to time plus 0.25% i.e. 7.00%
3	Advance Amount \geq Rs 2000 and period $>$ six (6) months	RBI Bank Rate as applicable from time to time plus 0.50% i.e. 7.25%

Commission's View

The Commission examined the proposal of the DISCOMs to provide interest benefit to smart prepaid consumers (<20 kW) (excluding Government Consumers). The Commission accepts the proposal as same appears to be beneficial to both consumers and licensees. The Commission approves aforementioned proposal as given below:

Sr. No	Particulars	Details
1	Advance Amount \geq Rs 2000 and period minimum three (3) months	RBI Bank Rate as applicable during period of advance
2	Advance Amount \geq Rs 2000 and period $>$ three (3) months & $<$ six (6) months	RBI Bank Rate as applicable during period of advance plus 0.25%
3	Advance Amount \geq Rs 2000 and period $>$ six (6) months	RBI Bank Rate as applicable during period of advance plus 0.50%

10.3.10 Provision of tariff for Cold Storage (Exclusively for Storing of Agriculture Products)

Petitioners' submission

The Petitioners submitted that Cold Storage is being proposed to be added under the IAS I metered consumers. This would only be applicable for LT consumers exclusively for storing of Agriculture Products. Further, the Consumers should produce certificate from Agriculture Department or Industry Department for availing any benefit under the cold storage facility. This would be applicable till connected load of 75 kW/100 HP.

A separate category is also proposed at HT level IAS (11 kV) Cold Storage (Exclusively for Storing of Agriculture Products). The Consumers should produce certificate from Agriculture Department or Industry Department for availing any benefit under this category. This would be applicable from 50 kVA to 1500 kVA of connected load.

Commission's View

Commission has examined the proposal of the DISCOMs and decides to accept the same.

10.3.11 Rationalization of Tariff structure as per the Net Revenue Gap/(surplus) for both the DISCOMs for FY 2025-26**Petitioners' submission**

The Petitioner submitted that based on the BERC (Multi Year Distribution Tariff) Regulations, 2024, the DISCOMs have prepared and submitted the Tariff Petition for True-Up of FY 2023-24, Annual Performance Review for FY 2024-25 and ARR for FY 2025-26 to FY 2027-28 & Tariff for FY 2025-26 wherein the DISCOMs have proposed zero tariff hike on the existing tariff for FY 2024-25 except HTSS.

As per the tariff structure of the Bihar DISCOMs, to rationalize the tariff, DISCOMs have proposed the following tariff:

- i. Zero hike in all categories except HTSS,
- ii. Domestic 1 (Rural) single slab being proposed as against double slab, with an Energy Charge of existing lowest slab (Rs 7.42/kWh),
- iii. High Tension Special Service (11/33 kV) – Hike of Rs 1 per unit,
- iv. Introduction of Tariff for Cold Storage for storing Agriculture Products.

Commission's View

As regards proposal at Sr No (i) and (iii) above, we find that the petitioners have not submitted any reasons for this increase (which is around 20% of energy charge) for this category of consumers, in absence of which we are not inclined to decide in favour of the proposal.

As regard other proposals listed above, appropriate decision has already been taken for determining the tariff for FY 2025-26.

10.4. Revenue gap/(Surplus) for FY 2025-26**Petitioner's submission**

NBPDCCL and SBPDCL, in their tariff petitions for FY 2025-26, have projected the total

revenue gap of Rs.717 Crore and Rs.4116 Crore respectively totalling Rs.4833 Crore which also includes the trued up revenue gap/(surplus) projected for FY 2023-24 along with carrying cost. NBPDC has proposed to recover Rs.5484.24 Crore and SBPDCL has proposed to recover Rs.6954.67 Crore through tariff hike. The Petitioners have proposed uniform tariff rates across whole State of Bihar. They have also proposed additional cost to be allowed through changes as given in the table below:

Tariff schedule considering 'Zero' GoB Subsidy

Category	Proposed Tariff- FY 2025-26			
	Fixed charge	Units	Energy Charge	Units
Domestic				
Kutir Jyoti				
Metered 0-50	20	Rs./Connection/Month	7.42	Rs./kWh
DS I Rural				
Metered (Demand Based)	-		-	
For Entire consumption	40	Rs./kW/Month	7.42	Rs./kWh
DS II Demand Based				
First 100 Units	80	Rs./kW/Month	7.42	Rs./kWh
Above 100 Units	80	Rs./kW/Month	8.95	Rs./kWh
DS III	80	Rs./kW/Month	9.03	Rs./kWh
Non-Domestic Service				
NDS I - Metered (Demand Based)				
First 100 Units	60	Rs./kW/Month	7.79	Rs./kWh
Above 100 Units	60	Rs./kW/Month	8.21	Rs./kWh
NDS II - Demand Based				
Contract Demand <0.5 kW	200	Rs./Connection/Month	7.73	Rs./kWh
Contract Demand >0.5 kW				
First 100 Units	300	Rs./kW/Month	7.73	Rs./kWh
Above 100 Units	300	Rs./kW/Month	8.93	Rs./kWh
Street Light Services				
SS Metered	100	Rs./kW/Month	9.03	Rs./kWh
SS Unmetered	4250	Rs./kW/Month	-	Rs./kWh
Irrigation & Allied Services				
IAS I				
Unmetered	1350	Rs./HP/Month	-	Rs./kWh
Metered	100	Rs./HP/Month	6.74	Rs./kWh
IAS II				
Metered (Demand Based)	500	Rs./kVA/Month	7.17	Rs./kVAh
Public Service Connections				
Public Water Works	630	Rs./kVA/Month	9.72	Rs./kVAh
Har Ghar Nal	100	Rs./HP/Month	8.16	Rs./kWh

Category	Proposed Tariff- FY 2025-26			
	Fixed charge	Units	Energy Charge	Units
	-		-	
Low Tension Industrial Services	-		-	
LTIS I (0-19 kW)	288	Rs./kVA/Month	7.79	Rs./kVAh
LTIS II (>19 kW - 74 kW)	360	Rs./kVA/Month	7.79	Rs./kVAh
	-		-	
LT Electric Vehicle Charging Station	-		8.72	Rs./kVAh
HTS I - 11 kV	550	Rs./kVA/Month	7.98	Rs./kVAh
HTS II - 33 kV	550	Rs./kVA/Month	7.92	Rs./kVAh
HTS III -132 kV	550	Rs./kVA/Month	7.85	Rs./kVAh
HTS IV - 220 kV	550	Rs./kVA/Month	7.79	Rs./kVAh
HTS V – 400 kV	550	Rs./kVA/Month	7.72	Rs./kVAh
	-		-	
HTIS- I - 11 kV	550	Rs./kVA/Month	7.98	Rs./kVAh
HTIS -II - 33 kV	550	Rs./kVA/Month	7.92	Rs./kVAh
HTIS - III -132 kV	550	Rs./kVA/Month	7.85	Rs./kVAh
HTIS- IV - 220 kV	550	Rs./kVA/Month	7.79	Rs./kVAh
HTIS V- 400 kV	550	Rs./kVA/Month	7.72	Rs./kVAh
HTSS (11/33 kV)	800	Rs./kVA/Month	5.94	Rs./kVAh
HTSS (132/220 kV)	800	Rs./kVA/Month	5.94	Rs./kVAh
HTIS (Oxygen Manufacturers) 11 KV	1000	Rs./kVA/Month	5.43	Rs./kVAh
HTIS (Oxygen Manufacturers) 33 kV	1000	Rs./kVA/Month	5.37	Rs./kVAh
Cold Storage (11 kV)	100	Rs./kVA/Month	6.74	Rs./kVAh
Railway Traction Services	-		-	
RTS	540	Rs./kVA/Month	8.16	Rs./kVAh
HT Electric Vehicle Charging Stations.			7.85	Rs./kVAh

Commission's analysis

The Commission, on detailed scrutiny and prudence check of the annual revenue requirement filed by the Discoms, has arrived at a net revenue gap of Rs.208.16 Crore (Rs.1803.14 Crore revenue surplus for NBPDCCL and Rs. 2011.30 Crore revenue gap for SBPDCL) for FY 2025-26 including trued up revenue gap of FY 2023-24, with existing tariff as detailed hereunder.

(in Rs Crore)

Sl. No	Particulars	NBPDCCL	SBPDCL	Total
1	ARR approved for FY 2025-26	13966.09	16679.18	30645.26
2	Less: Revenue from Existing tariff	14877.69	18774.36	33652.05
3	Revenue Gap/(Surplus) (1-2)	-911.60	-2095.19	-3006.78
4	Carried forward trued up revenue gap/(Surplus) of FY 2023-24	-733.25	3401.10	2667.85
5	Carrying cost	-158.29	705.39	547.09
6	Revenue Gap / (Surplus) for FY 2025-26 (3+4+5)	(1803.14)	2011.30	208.16

The Commission has been approving uniform retail supply tariff for both Discoms (NBPDCCL and SBPDCL) in order to have one tariff for one category of consumers in the State of Bihar.

Keeping in view the figures of ARR, the Commission decides as follows:

- i. Introduce kVAh based billing for NDS-I and NDS-II (having contract demand above 0.5 kW and up to 70 kW). The Petitioners are directed to make the concerned consumers properly aware about this arrangement of billing.
- ii. Zero hike in all categories
- iii. Merger of both slabs of Domestic 1 (Rural) into one slab, with the Energy Charge of existing lower slab. This will result in an effective reduction of tariff by Rs.0.25/unit for those consumers (approximately 60 lakh at present) who get smart pre-paid meter installed for themselves.
- iv. Introduction of Tariff for Cold Storage for storing Agriculture Products in the following manner.
 - a) Under IAS-I category (LT) for connected load up to 74 kW/100 HP.
 - b) Creating a new category at HT level as IAS (11 kV) Cold Storage. This would be applicable from 50 kVA to 1500 kVA of connected load.

The Consumers should produce certificate from Agriculture Department or Industry Department for availing any benefit under these categories.

- v. Introduction of green tariff @ Rs 0.42 /kWh. This will be applicable over and above the normal tariff of concerned category.

A table showing approved tariff retail rates of electricity for FY 2025-26 is placed at the end of this paragraph.

After the tariff revision the consolidated **revenue surplus of Rs. 107.55 Crore** (Rs 1980.74 Crore Revenue Surplus for NBPDCCL and Rs 1873.19 crore Revenue Gap in SBPDCL) is arrived at based on approval of Commission. It has been the experience of the Commission that the financial performance of the Discoms may vary with the actuals reported in the annual audited accounts of the concerned financial year.

Section 65 of the Electricity Act 2003 stipulates that if the State Govt. decides to give

subsidy to any consumer or class of consumers, it shall pay such subsidy amount in advance.

Regulation 36 of the BERC (Multi Year Distribution Tariff) Regulations, 2024 has the following provisions for subsidy:

“(a) The Commission shall determine the ARR and Tariff without considering subsidy.

Provided that if the State Government declares subsidy for the categories of consumers after notification of Tariff Order, the licensee shall incorporate the same in the tariff and intimate the Commission with the revised Tariff Schedule that shall be charged if the subsidy is received in advance.

Provided further that in case the State Government declares subsidy in advance or during tariff filing proceedings and the licensee incorporates the subsidy in the petition, the Commission shall notify two tariff schedules, one with subsidy and the other without subsidy.

Provided also that the Government’s subsidy provided for or declared shall be supported by documentary evidence of time schedule of payment, mode of the payment of the subsidy and categorization of the subsidy amount into subsidized consumer categories”

The Discoms have not projected any Tariff subsidy for FY 2025-26. The Commission, accordingly, has determined the ARR and subsequent Tariff Rates without taking into consideration the Tariff subsidy to consumers.

**Approved Retail Tariff (without Government Subsidy) for NBPDCCL and SBPDCL for
FY 2025-26**

SI No.	Category/Subcategory of Consumers	Approved Tariff for NBPDCCL and SBPDCL area for FY 2025-26		
		Fixed charge	Energy Charge	Unit slabs
A	LOW TENSION SUPPLY			
1		Domestic		
1.1	Kutir Jyoti	Rs.20/Month/Connection	Rs.7.42/kWh	0-50 units
			As per DS-I or DS-II	Above 50 units
1.2	DS-I Rural	Rs. 40/kW or part/month	Rs.7.42/ kWh	For entire consumption
1.3	DS-II (Demand based)	Rs.80/kW or part/month	Rs.7.42/ kWh	1-100
			Rs.8.95/ kWh	Above 100

SI No.	Category/Subcategory of Consumers	Approved Tariff for NBPDCCL and SBPDCL area for FY 2025-26		
		Fixed charge	Energy Charge	Unit slabs
1.4	DS-III (Demand based) (optional)	Rs.80/kW or part/month	Rs.9.03/ kWh	All Units
2	Non-Domestic			
2.1	NDS-I Rural (Metered)			
2.1.1	NDS-I Rural (Metered)	Rs. 60/kVA or part/month	Rs.7.79/kVAh Rs.8.21/kVAh	1-100 Above 100
2.2	NDS-II (Demand based)			
2.2.1	NDS-II Contract load upto 0.5 kW	Rs. 200/month/connection	Rs.7.73/ kWh	All Units
2.2.2	NDS-II Contract demand above 0.5 kW and upto 70kW	Rs. 300/kVA or part/month	Rs.7.73/kVAh Rs.8.93/kVAh	1-100 Above 100
3	Irrigation and Agriculture Services (Connected load based)			
3.1	IAS-I (Unmetered)	Rs.1350/HP or part/month	--	
3.2	IAS-I (Metered)	Rs. 100/HP or part/month	Rs.6.74/ kWh	All Units
3.3	IAS-II (Metered) (Demand based)	Rs. 500/kVA or part/month	Rs.7.17/kVAh	All Units
4	Low Tension Industrial (Demand based kVAh)			
4.1	LTIS-I	Rs.288/kVA or part/month	Rs.7.79/kVAh	All Units
4.2	LTIS-II	Rs 360/kVA or part/month	Rs.7.79/kVAh	All Units
5	Public Water Works			
5.1	PWW (Demand based, kVAh)	Rs 630/kVA or part/month	Rs.9.72/kVAh	All Units
5.2	Har Ghar Nal (Connected load based)	Rs 100/HP or part/month	Rs.8.16/ kWh	All Units
6	Street Light Services			
6.1	SS-Metered (Connected load based)	Rs 100/kW or part/month	Rs.9.03/ kWh	All Units
6.2	SS-Unmetered	Rs 4250 / KW or part/month	--	
7	LT Electrical Vehicle charging stations		Rs.8.72/ kWh	All Units
B	HIGH TENSION SUPPLY – GENERAL			
1	HT – General			
1.1	HTS-I (11 kV)	Rs.550/kVA /Month	Rs.7.98/kVAh	All Units
1.2	HTS-II (33 kV)	Rs.550/kVA/Month	Rs.7.92/kVAh	All Units
1.3	HTS-III (132 kV)	Rs.550/kVA/Month	Rs.7.85/kVAh	All Units
1.4	HTS-IV (220 kV)	Rs.550/kVA/Month	Rs.7.79/kVAh	All Units
1.5	HTS-V (400 kV)	Rs.550/kVA/Month	Rs.7.72/kVAh	All Units
1.6	HT cold storage (11 kV)	Rs.100/kVA/Month	Rs.6.74/kVAh	All Units
2	HIGH TENSION SUPPLY – INDUSTRIAL			
2.1	HTIS-I (11 kV)	Rs.550/kVA/Month	Rs.7.98/kVAh	All Units
2.2	HTIS-II (33 kV)	Rs.550/kVA/Month	Rs.7.92/kVAh	All Units
2.3	HTIS-III (132 kV)	Rs.550/kVA/Month	Rs.7.85/kVAh	All Units
2.4	HTIS-IV (220 kV)	Rs.550/kVA/Month	Rs.7.79/kVAh	All Units
2.5	HTIS-V (400 kV)	Rs.550/kVA/Month	Rs.7.72/kVAh	All Units
2.6	HTSS (11 kV/ 33kV)	Rs.800/kVA/Month	Rs.4.94/kVAh	All Units
2.7	HTSS (132 / 220 kV)	Rs.800/kVA/Month	Rs.4.94/kVAh	All Units
2.8	HTS-I (Oxygen manufacturers) 11kV	Rs.1000/kVA/Month	Rs.5.43/kVAh	All units
2.9	HTS-I (Oxygen	Rs.1000/kVA/Month	Rs.5.37/kVAh	All units

SI No.	Category/Subcategory of Consumers	Approved Tariff for NBPDCCL and SBPDCL area for FY 2025-26		
		Fixed charge	Energy Charge	Unit slabs
	manufacturers) 33kV			
3	Railway Traction Service (RTS)	Rs.540/kVA/Month	Rs.8.16/kVAh	All Units
4	HT Electrical Vehicle charging stations		Rs.7.85/kVAh	All Units

10.5. Tariff Schedule

The approved Tariff Schedule which shall be effective from 1st April, 2025 is given in Appendix – 1.

Part A: Tariff Schedule for Low Tension Supply

Part B: Tariff Schedule for High Tension Supply

Part C: Miscellaneous and General Charges

TARIFF SCHEDULE
FOR
RETAIL TARIFF RATES AND TERMS AND CONDITIONS OF SUPPLY FOR FY 2025-26
(Effective from 1st April, 2025)
PART - A: LOW TENSION SUPPLY
System of supply: Low Tension – Alternating Current, 50 cycles per second

Single Phase supply at 230 Volts

Three Phase supply at 400 Volts

The tariffs are applicable for supply of electricity to L.T consumers with a connected / contracted demand up to 70 kW for domestic, non-domestic and Street Light Category, up to 74 kW / 100 HP for industrial (LTIS), cold storage (under IAS-I) and for public water works (PWW) category and up to 100 HP for irrigation category under single or three phase supply as detailed below:

- Single Phase supply up to 7 kW
- Three Phase supply 5 kW and above.
- Consumers having load between 5 kW and 7 kW shall have the option to take single phase or three phase supply.
- LT Industrial and Agriculture load up to 5 kW shall have option to avail supply at single phase or three phase.

CATEGORY OF SERVICE AND TARIFF RATES

1.0. DOMESTIC

Service Applicability

This tariff is applicable for supply of electricity for domestic purposes such as lights, fans, televisions, heaters, air-conditioners, washing machines, air-coolers, geysers, refrigerators, ovens, mixers and other domestic appliances including motor pumps for lifting water for domestic purposes. Bed & Break Fast and Home Stay Establishments classified under the Ministry of Tourism Govt. of India, Guidelines dated 10.12. 2018 read with Mukhyamantri Homestay Motivation Scheme, 2024.

This is also applicable to the common facilities in the multistoried, purely residential

apartments, buildings. This Tariff also includes Kutir Jyoti connections in rural and urban areas.

1.1 Kutir Jyoti / BPL Connections (KJ/BPL) – Rural / Urban

This will be applicable to all dwelling houses of rural and urban families below the poverty line (BPL) as per the list/notification published by Rural Development Department, Government of Bihar from time to time.

- i). The total connected load of Kutir Jyoti connection in a rural and urban area should not exceed 250 watts and maximum consumption of 50 units per month shall be allowed under this category.
- ii). Use of LED / CFL both in rural areas and urban areas should be encouraged.
- iii). In case it is detected that the connected load and/or monthly consumption for any month exceeds the norms prescribed in para (i) above, the excess units consumed shall be billed at the tariff rates applicable to DS - I and DS- II category as the case may be.

1.2 Domestic Service – I (DS – I Rural)

This is applicable to all domestic premises in rural areas (i.e. areas not covered by areas indicated under DS-II). If any portion of the premises is used for other than domestic purpose, a separate connection shall be taken for that portion and NDS-I tariff schedule shall be applicable for that service.

1.3 Domestic Service – II (DS – II Urban)

This is applicable for all domestic premises in urban areas notified by Department of Urban Development, Government of Bihar from time to time. If any portion of the premises is used for other than domestic purposes, a separate connection shall be taken for that portion and NDS-II tariff schedule shall be applicable for that service.

1.4 Domestic Service – III (DS-III Group Connection) (Optional)

This is applicable for group residential consumers willing to avail supply at single point for the purpose of use of electricity in residential townships, registered societies, multi-storied residential complex (including lifts, water pumps and common lighting within the premises). The maximum allowable contract demand shall be 74KW. If any portion of the premises is used for other than domestic purposes, a separate connection shall be taken for that portion and NDS-II tariff schedule shall be applicable for that service.

TARIFF RATES**2.0 DOMESTIC****2.1 Kutir Jyoti - BPL Consumers (Connected load based)**

Sl. No	Category of consumer	Fixed charge (Rs.)	Energy charge (Paisha/ kWh.)
(i)	K.J. - (Consumption up to 50 units per month)		
1	Metered	Rs.20 / connection / per month	First 50 units at 742 Paisha/ kWh Remaining units, rate as per DS-I DS-II as applicable.
The fixed charges shall be recovered in full only if supply of power duly recorded by the consumer meter is maintained for at least 21 hours/day during the billing month. In any month if the supply of power is less than 21 hours/day, then the fixed charge for that month shall be levied on pro-rata basis.			

2.2 DS – I: (Demand based)

Sl. No	Category of consumer	Fixed charge (Rs.)	Energy charges	
			Consumption in a month (Units)	Rate (Paisha/ kWh)
1	Metered	Rs.40 / kW or part thereof per month	All units	742
<p>The billing demand shall be the maximum demand recorded during the month or 75% of the contract demand whichever is higher.</p> <p>If in any month the recorded maximum demand exceeds 105% of contract demand, that portion of the demand in excess of the contract demand shall be billed at twice the normal charges.</p> <p>The demand charges shall be recovered in full only if supply of power duly recorded by the consumer meter is maintained for at least 21 hours/day during the billing month. In any month if the supply of power is less than 21 hours/day, then the demand charge for that month shall be levied on pro-rata basis.</p>				

2.3 DS – II: (Demand based)

Sl. No	Category of consumer	Fixed charge (Rs.)	Energy charges	
			Consumption in a month (Units)	Rate (Paisha/ kWh)
1	Metered (Contract demand up to 70 kW)	Rs.80 / kW or part thereof per month	1-100 units	742
			Above 100 units	895
<p>The billing demand shall be the maximum demand recorded during the month or 75% of the contract demand whichever is higher.</p> <p>If in any month the recorded maximum demand exceeds 105% of contract demand,</p>				

that portion of the demand in excess of the contract demand shall be billed at twice the normal charges.

The demand charges shall be recovered in full only if supply of power duly recorded by the consumer meter is maintained for at least 21 hours/day during the billing month. In any month if the supply of power is less than 21 hours/day, then the demand charge for that month shall be levied on pro-rata basis.

2.4 DS – III: (Demand based) (Optional)

Sl. No	Category of consumer	Fixed charge (Rs.)	Energy charges	
			Consumption in a month (Units)	Rate (Paisa/kWh)
1	Metered (Contract demand up to 74 kW)	Rs.80 / kW or part thereof per month	All units	903
<p>The billing demand shall be the maximum demand recorded during the month or 75% of the contract demand whichever is higher.</p> <p>If in any month the recorded maximum demand exceeds 105% of contract demand, that portion of the demand in excess of the contract demand shall be billed at twice the normal charges.</p> <p>The demand charges shall be recovered in full only if supply of power duly recorded by the consumer meter is maintained for at least 21 hours/day during the billing month. In any month if the supply of power is less than 21 hours/day, then the demand charge for that month shall be levied on pro-rata basis.</p>				

3.0 NON-DOMESTIC SERVICE (NDS)

This is applicable for supply of electrical energy for non-domestic consumers having sanctioned/contracted load up to 70 kW, using electrical energy for light, fan and power loads for non-domestic purposes like shops, hospitals, nursing homes, clinics, dispensaries, restaurants, hotels, clubs, guest houses, marriage houses, public halls, show rooms, centrally air-conditioning units, offices, commercial establishments, cinemas, X- ray plants, non-government schools, colleges, libraries and research institutes, boarding/lodging houses, railway stations, fuel/oil stations, service stations, All India Radio/T.V. installations, printing presses, commercial trusts, societies, banks, theatres, circus, coaching institutes, common facilities in multistoried commercial office/buildings, Government and semi-government offices, public museums, Government educational institutions, their hostels and libraries, Government hospitals and government research institutions and non-profitable government aided

educational institutions their hostels and libraries, non-profitable recognized charitable cum public institutions, places of worship like temples, mosques, gurudwaras, churches etc. and burial/crematorium grounds, glow signboards, banners and hoardings for advertisement and other installations not covered under any other tariff schedule.

3.1 Non-Domestic Service (NDS – I) Rural (Demand based)

Applicable to non-domestic premises in rural areas i.e. areas not covered by areas indicated under NDS-II.

Sl. No	Category of consumer	Fixed charge (Rs.)	Energy charge	
			Consumption in a month (units)	(Paisa/ kWh)
1	Metered	Rs.60 /kVA or part thereof per month	1-100	779
			Above 100	821
<p>The billing demand shall be the maximum demand recorded during the month or 75% of the contract demand whichever is higher.</p> <p>If in any month the recorded maximum demand exceeds 105% of contract demand, that portion of the demand in excess of the contract demand shall be billed at twice the normal charges.</p> <p>The demand charges shall be recovered in full only if supply of power duly recorded by the consumer meter is maintained for at least 21 hours/day during the billing month. In any month if the supply of power is less than 21 hours/day, then the demand charge for that month shall be levied on pro-rata basis.</p>				

3.2 Non - Domestic Service – NDS – II (Demand based)

Applicable to contracted load up to 70 kW in urban areas notified by Department of Urban Development, Government of Bihar from time to time. This tariff shall also be applicable to places of worship like temples, mosques, gurudwaras, churches etc. burial/crematorium grounds, hoardings/glow sign boards/advertising boards.

Sl. No.	Category of Consumer	Fixed charge (Rs.)	Energy charges	
			Consumption in a month (Units)	(Paisa/Unit)
1.	Metered Contract load up to 0.5 kW	Rs.200/ month/connection	All Units	773 Paisa/kWh
2	Metered Contract demand	Rs. 300/ kVA or part thereof per month	1-100 Units	773 Paisa/kVAh

	above 0.5 kW and up to 70 kW		Above 100 Units	893 Paisa/kVAh
<p>The billing demand shall be the maximum demand recorded during the month or 75% of the contract demand whichever is higher.</p> <p>If in any month the recorded maximum demand exceeds 105% of contract demand, that portion of the demand in excess of the contract demand shall be billed at twice the normal charges.</p> <p>The demand charges shall be recovered in full only if supply of power duly recorded by the consumer meter is maintained for at least 21 hours/day during the billing month. In any month if the supply of power is less than 21 hours/day, then the demand charge for that month shall be levied on pro-rata basis.</p>				

4.0 IRRIGATION and AGRICULTURE SERVICE (IAS)

This is applicable for supply of electrical energy for bonafide use for agricultural purposes including processing of Agricultural Produce, confined to chaff-cutter, thrasher, cane crusher and rice Huller when operated by the agriculturist in the field or farm. This is also applicable to hatcheries, poultries (with more than 1000 birds), fisheries (fish ponds) and **cold storages (exclusively for Storing of Agriculture Products and connected load up to 74 kW/100 HP).**

4.1 IAS – I (Connected load based)

This is applicable for all purposes indicated above including private tube wells of load up to 100 HP.

Sl. No	Category of consumer	Fixed charge (Rs.)	Energy charge (Paisa/ kWh)	
1	Unmetered	Rs.1350 / HP or part thereof / month	X	
2	Metered	Rs.100 / HP or part thereof / month	All units	674

Note: There will be no un-metered connections for Hatcheries, poultries, cold storages and fisheries and it should be necessary to have metered connections.

4.2 IAS – II (Demand based)

This is applicable to state tube wells/ state lift irrigation pumps / state irrigation pumps up to 74 kW 100 HP.

Sl. No	Category of consumer	Fixed charge (Rs./kVA)	Energy charge (Paisa/ kVAh)	
1	Metered	Rs.500 / kVA or part thereof / month	All units (Paise)	717

			/ kVAh)	
<p>The billing demand shall be the maximum demand recorded during the month or 75% of the contract demand whichever is higher.</p> <p>If in any month the recorded maximum demand exceeds 105% of contract demand, that portion of the demand in excess of the contract demand shall be billed at twice the normal charges.</p> <p>The demand charges shall be recovered in full only if supply of power duly recorded by the consumer meter is maintained for at least 21 hours/day during the billing month. In any month if the supply of power is less than 21 hours/day, then the demand charge for that month shall be levied on pro-rata basis.</p>				

5.0 LOW TENSION INDUSTRIAL SERVICE (LTIS).

This is applicable for supply of electricity to low tension industrial consumers with connected load /contract demand up to 100 HP or 74 kW, which includes incidental lighting for industrial processing or agro – industries purposes, arc welding sets, flour mills, oil mills, rice mills, dal mills, atta chakki, Huller, expellers etc.

5.1 LTIS – I (Demand based)

All those consumers opting for LTIS-I category with contract demand up to 19 kW shall be required to pay at the rates indicated below:

Sl. No	Category of consumer	Demand charge (Rs./kVA)	Energy charges Paise / kVAh	
1	Metered Contract demand up to 19 KW	Rs. 288/kVA or part thereof per month.	All units (Paise / kVAh)	779
<p>The billing demand shall be the maximum demand recorded during the month or 75% of the contract demand whichever is higher.</p> <p>If in any month the recorded maximum demand exceeds 105% of contract demand, that portion of the demand in excess of the contract demand shall be billed at twice the normal charges.</p> <p>The demand charges shall be recovered in full only if supply of power duly recorded by the consumer meter is maintained for at least 21 hours/day during the billing month. In any month if the supply of power is less than 21 hours/day, then the demand charge for that month shall be levied on pro-rata basis.</p>				

5.2 LTIS –II (Demand based)

All those consumers under LTS-II category with 3 phase supply and with contract demand above 19kW and up to 74kW shall be required to pay at the rates indicated below:

Sl. No	Category of consumer	Demand charge (Rs./kVA)	Energy charges (Paise / kVAh)	
1	Metered Contract demand above 19 kW and up to 74KW	Rs.360/kVA or part thereof per month.	All units (Paise / kVAh)	779
<p>The billing demand shall be the maximum demand recorded during the month or 75% of the contract demand whichever is higher.</p> <p>If in any month the recorded maximum demand exceeds 105% of contract demand, that portion of the demand in excess of the contract demand shall be billed at twice the normal charges.</p> <p>The demand charges shall be recovered in full only if supply of power duly recorded by the consumer meter is maintained for at least 21 hours/day during the billing month. In any month if the supply of power is less than 21 hours/day, then the demand charge for that month shall be levied on pro-rata basis.</p>				

6.0 PUBLIC WATER WORKS

This is applicable to public water works, sewerage treatment plant and sewerage pumping stations functioning under state government, state government undertakings and/ or local bodies.

6.1 PWW (Demand Based)

Sl. No	Category of consumer	Demand charge (Rs./kVA)	Energy charges Paise / kVAh	
1	Metered Contract demand up to 74 kW	Rs. 630/kVA or part thereof per month.	All units (Paise / kVAh)	972
<p>The billing demand shall be the maximum demand recorded during the month or 75% of the contract demand whichever is higher.</p> <p>If in any month the recorded maximum demand exceeds 105% of contract demand, that portion of the demand in excess of the contract demand shall be billed at twice the normal charges.</p> <p>The demand charges shall be recovered in full only if supply of power duly recorded by the consumer meter is maintained for at least 21 hours/day during the billing month. In any month if the supply of power is less than 21 hours/day, then the demand charge for that month shall be levied on pro-rata basis.</p>				

6.2 Har Ghar Nal Ka Jal (Connected Load based)

Sl. No	Category of consumer	Fixed charge (Rs.)	Energy charge (Paise/ kWh.)	
1	Metered	Rs.100 / HP or part thereof / month	All units	816
<p>The fixed charges shall be recovered in full only if supply of power duly recorded by the consumer meter is maintained for at least 21 hours/day during the billing month.</p> <p>In any month if the supply of power is less than 21 hours/day, then the fixed charge for</p>				

that month shall be levied on pro-rata basis.

7.0 STREET LIGHT SERVICES (SS).

This is applicable for supply of electricity for street light system including signal system.

Also applicable for Traffic Lights, Mast lights/Blinkers etc.

7.1 SS Metered Supply (Connected load based)

Sl. No	Category of consumer	Fixed charge (Rs.)	Energy charge (Paissa/ kWh.)	
1	Metered	Rs. 100/kW or part thereof / month	All units	903

7.2 SS Unmetered Supply

Sl. No	Category of consumer	Fixed charge (Rs.)	Energy charge (Paissa/ Unit.)	
1	Unmetered	Rs.4250/kW or part thereof / month	X	

8.0 LT Electric Vehicle Charging Stations.

This Tariff category is applicable for Electric Vehicle Charging Station including battery swapping station for electric vehicle. In case the consumer uses the electricity supply for charging his own electric vehicle at his premises, the tariff applicable shall be as per the category of such premises. Electricity consumption for other facilities and purposes at Charging Station such as office, restaurant, rest rooms, convenience stores, public amenities, etc., shall be charged at tariff applicable to Non-Domestic Category.

Sl. No	Category of consumer	Energy charge (Paissa/ kWh.)
1	Metered	872

TERMS AND CONDITIONS OF LOW TENSION SUPPLY (LT) TARIFF

The above tariffs are subject to the following conditions:

(1) Demand based Tariff

The billing demand shall be the maximum demand recorded during the month or 75% of the contract demand whichever is higher.

If in any month the recorded maximum demand exceeds 105% of contract demand, that portion of the demand in excess of the contract demand shall be rounded off to the next whole number in terms of kW or kVA as the case may be, and the fixed charge on that incremental excess (and rounded off) contract demand shall be billed at twice the normal rates.

(2) Recovery of full Fixed / Demand Charge

The demand charges shall be recovered in full only if supply of power duly recorded by the consumer meter is maintained for at least 21 hours/day during the billing month. In any month if the supply of power is less than 21 hours/day, then the demand charge for that month shall be levied on pro-rata basis

Supply of power hours may be reckoned as recorded at 33/11 KV substation, in case where installed consumer meters do not have features of recording hours of supply.

This shall not be applicable to Street light, Agriculture as well as un-metered tariff categories of consumers.

(3) Fuel and Power Purchase Cost Adjustment (FPPCA)

In addition to the above tariff Fuel and Power Purchase Cost Adjustment (FPPCA) charges as applicable under the extant regulations will be charged extra.

(4) Rebate for prompt payment.

The due date for making payment of energy bills or other charges shall be 15 days from the date of issue of the bill. Rebate of 1.5% on the billed amount for timely payment of bills for all the consumers served in LT category shall be allowed.

In case a consumer makes full payment after due date but within 10 days after the due date, no DPS shall be levied for this period and rebate for prompt payment will not be admissible.

(5) Rebate for online payment

For encouraging the consumers to make online payment of the bills through online web portal, a rebate of 1% of the billed amount in addition to prompt payment rebate @ 1.5% shall be allowed. However, online payment rebate shall be applicable if the consumer makes full payment of the bill within due date.

(6) Rebate for pre-paid smart meter

For encouraging the consumers to avail pre-paid smart meter connection, a rebate of Rs.0.25/unit on energy charges shall be allowed. However, no any prompt payment rebate and / or online payment rebate will be allowed. However, rebate for online or digital payment shall not be applicable if the consumer purchases recharge coupons.

(7) Rebate for Rural Consumers for Consistent Payment

For encouraging rural consumers to make continuous prompt payment of bills, a rebate of 1% of the total monthly bill of last quarter in the coming next month.

For example: If a postpaid Rural consumer makes regular payment of their monthly bill within the due date during the previous quarter, then, such consumer will be entitled to a rebate of 1% of total amount of monthly bills of last Quarter in its next monthly bill amount

(8) Accounting for Partial Payment

Payments made by consumers in full or part shall be adjusted in the following order of priority:

- a). Statutory taxes and duties on current consumption
- b). Arrear of Statutory taxes and duties
- c). Delayed payment surcharge
- d). Balance of arrears
- e). Balance of current bill

(9) Delayed Payment Surcharge (DPS)

In case a consumer does not pay energy bills in full within 10 days grace period after due date specified in the bill, a delayed payment surcharge of one and half (1.5) percent per month on the outstanding principal amount of bill will be levied from the due date for payment until the payment is made in full without prejudice to right of the Licensee to

disconnect the supply in accordance with Section 56 of the Electricity Act, 2003. The licensee shall clearly indicate in the bill itself the total amount, including DPS, payable for different dates after the due date after allowing for the grace period of 10 days. No DPS shall be charged on DPS arrear. The bill shall indicate the energy charges for the month, arrears of energy charges and DPS separately.

(10) Duties and Taxes

Other statutory levies like electricity duty or any other taxes, duties etc., imposed by the State Government / Central Government or any other competent authority, shall be extra and shall not be part of the tariff as determined under this Order.

(11) Shunt Capacitor Installation and Rebate/surcharge for deviating from norm of Power factor

Any LT consumer, except Domestic category and categories having kVAh based billing, where the meter installed has power factor recording feature and who fails to maintain monthly average power factor of at least 90% shall pay/avail a surcharge/rebate in addition to his bills at normal tariff rates at the following rates.

(a) Power factor surcharge

(i) For each fall of 0.01 in power factor below 0.90 and up to 0.80	One percent on demand and energy charge (Actual Recorded)
(ii) For each fall of 0.01 in power factor below 0.80	1.5 (one and half) percent on demand and energy charge (Actual Recorded)

(b) Power factor Rebate

(i) For each increase of 0.01 in power factor above 0.90 and up to 0.95	0.5 (half) percent on demand and energy charge (Actual Recorded)
(ii) For each increase of 0.01 in power factor above 0.95	1.0 (one) percent on demand and energy charges. (Actual Recorded)

However, for Agricultural consumers (IAS-I) the PF surcharge will not be applicable during FY 2025-26.

(12) Advance Payment

(a) Other than smart pre-paid meter consumers (<20 kW): If a consumer makes advance payment against his future bills, he shall be allowed for interest equivalent to the Bank Rate of RBI. Such amount of interest shall be adjusted in subsequent monthly regular electricity bills on reducing balance, provided that the minimum amount of advance payment shall not be less than Rs.2000/- (Rupees Two thousand) for maximum period covering consecutive three months.

(b) Smart prepaid consumers (<20 kW) excluding govt. consumers:

The benefit to smart prepaid metered consumers (<20 kW), if the consumer can maintain their advance payment shall be as follows:

Sr. No	Particulars	Details
1	Advance Amount \geq Rs 2000 for continuous period of three (3) months	RBI Bank Rate as applicable during period of advance.
2	Advance Amount \geq Rs 2000 and period > three (3) months & < six (6) months	RBI Bank Rate as applicable during period of advance plus 0.25%.
3	Advance Amount \geq Rs 2000 and period > six (6) months	RBI Bank Rate as applicable during period of advance plus 0.50%.

(13) Time of Day tariff (ToD)

ToD tariff is applicable to all LT Consumers, except Agriculture consumers, like DS-I, DS-II, DS-III, NDS-I, NDS-II, LTIS-I, LTIS-II and PWW, having contract demand more than 10 KW.

Under the Time of Day (ToD) Tariff, electricity consumption and demand in respect of DS-I, DS-II, DS-III, NDS-I, NDS-II, LTIS-I, LTIS-II and PWW consumers for different periods of the day, i.e. normal period, peak load period and off-peak load period, shall be recorded by installing a ToD meter. The consumption recorded in different periods shall be billed at the following rates on the tariff applicable to the consumer.

Time of Use	Demand Charges	Energy Charges
(i) Off peak load period (9:00 a.m. to 5.00 p.m.)	Normal Rate	80% normal rate of energy charges
(ii) Evening peak load period (5.00 p.m. to 11.00 p.m.)	Normal Rate	I) 120% of normal rate of energy charges (applicable for NDS-I, NDS-II, LTIS-I, LTIS-II categories) II) 110% of normal rate of energy charges (other categories)
(iii) Normal load period (11.00 p.m. to 9.00 a.m.)	Normal Rate	Normal rate of energy charges

(14) Green Energy Tariff

Consumers availing Green Energy from Distribution Licensee shall be required to pay Green Energy Charges at the rate of Rs. 0.42/unit and such charges shall be applicable over and above the normal tariff for that category of consumers. The consumer may purchase on a voluntary basis, more renewable energy, than he is obligated to do and for

ease of implementation, this may be in steps of 25% going upto 100%. Any requisition for green energy from a distribution licensee shall be for a minimum period of one year. The quantum of green energy shall be pre-requisitioned for at least one month in advance.

The green energy provided by the licensee on request of any consumers shall also qualify to be taken into account for meeting the RPO compliance of the licensee.

PART – B: HIGH TENSION SUPPLY**Tariff Rates****9.0. HT - General****9.1. HTS (General) – I (11 kV)**

This is Applicable for supply of electricity for use in installations with a minimum contract demand of 50 kVA and maximum contract demand of 1500 kVA.

Character of service: AC, 50 cycles, 3 phase at 11 kV.

Demand charge Rs./ kVA / Month of billing demand	Energy charges (Paise / kVAh)
550	All units – 798
<p>The billing demand shall be the maximum demand recorded during the month or 75% of the contract demand whichever is higher.</p> <p>If in any month the recorded maximum demand exceeds 105% of contract demand, that portion of the demand in excess of the contract demand shall be billed at twice the normal charges.</p> <p>The demand charges shall be recovered in full only if supply of power duly recorded by the consumer meter is maintained for at least 21 hours/day during the billing month. In any month if the supply of power is less than 21 hours/day, then the demand charge for that month shall be levied on pro-rata basis.</p>	

9.2. HTS (General) – II (33 kV)

This is applicable for use in installations with a minimum contract demand of 500 kVA and maximum contract demand of 15,000 kVA.

Character of service: AC, 50 cycles, 3 phase at 33 kV

Demand charge Rs./ kVA / Month of billing demand	Energy charges (Paise / kVAh)
550	All units – 792
<p>The billing demand shall be the maximum demand recorded during the month or 75% of the contract demand whichever is higher.</p> <p>If in any month the recorded maximum demand exceeds 105% of contract demand, that portion of the demand in excess of the contract demand shall be billed at twice the normal charges.</p> <p>The demand charges shall be recovered in full only if supply of power duly recorded by the consumer meter is maintained for at least 21 hours/day during the billing month. In any month if the supply of power is less than 21 hours/day, then the demand charge for that month shall be levied on pro-rata basis.</p>	

9.3. HTS (General) – III (132 kV)

This is applicable for installations with a minimum contract demand of 7.5 MVA.

Character of service: AC, 50 cycles, 3-phase at 132 kV.

Demand charge Rs./ kVA / Month of billing demand	Energy charges (Paise / kVAh)
550	All units – 785
<p>The billing demand shall be the maximum demand recorded during the month or 75% of the contract demand whichever is higher.</p> <p>If in any month the recorded maximum demand exceeds 105% of contract demand, that portion of the demand in excess of the contract demand shall be billed at twice the normal charges.</p> <p>The demand charges shall be recovered in full only if supply of power duly recorded by the consumer meter is maintained for at least 21 hours/day during the billing month. In any month if the supply of power is less than 21 hours/day, then the demand charge for that month shall be levied on pro-rata basis.</p>	

9.4. HTS (General) -IV (220 kV)

This is applicable for installation with a minimum contract demand of 10 MVA.

Character of service: AC, 50 cycles, 3 phase at 220 kV

Demand charge Rs./ kVA / Month of billing demand	Energy charges (Paise / kVAh)
550	All units – 779
<p>The billing demand shall be the maximum demand recorded during the month or 75% of the contract demand whichever is higher.</p> <p>If in any month the recorded maximum demand exceeds 105% of contract demand, that portion of the demand in excess of the contract demand shall be billed at twice the normal charges.</p> <p>The demand charges shall be recovered in full only if supply of power duly recorded by the consumer meter is maintained for at least 21 hours/day during the billing month. In any month if the supply of power is less than 21 hours/day, then the demand charge for that month shall be levied on pro-rata basis.</p>	

9.5 HTS (General) -V (400 kV)

This is applicable for installation with a minimum contract demand of 20 MVA.

Character of service: AC, 50 cycles, 3 phase at 220 kV

Demand charge Rs./ kVA / Month of billing demand	Energy charges (Paise / kVAh)
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550	All units – 772
<p>The billing demand shall be the maximum demand recorded during the month or 75% of the contract demand whichever is higher.</p> <p>If in any month the recorded maximum demand exceeds 105% of contract demand, that portion of the demand in excess of the contract demand shall be billed at twice the normal charges.</p> <p>The demand charges shall be recovered in full only if supply of power duly recorded by the consumer meter is maintained for at least 21 hours/day during the billing month. In any month if the supply of power is less than 21 hours/day, then the demand charge for that month shall be levied on pro-rata basis.</p>	

9.6. HTS (General – Cold Storage) (11 kV)

[This is a new category]

This is applicable for installation with contract demand from 50 kVA to 1500 kVA.

Character of service: AC, 50 cycles, 3 phase at 11 kV

Demand charge Rs./ kVA / Month of billing demand	Energy charges (Paise / kVAh)
100	All units – 674
<p>The billing demand shall be the maximum demand recorded during the month or 75% of the contract demand whichever is higher.</p> <p>If in any month the recorded maximum demand exceeds 105% of contract demand, that portion of the demand in excess of the contract demand shall be billed at twice the normal charges.</p> <p>The demand charges shall be recovered in full only if supply of power duly recorded by the consumer meter is maintained for at least 21 hours/day during the billing month. In any month if the supply of power is less than 21 hours/day, then the demand charge for that month shall be levied on pro-rata basis.</p>	

10.0. HT – Industrial Services

10.1. HTIS (Industrial) – I (11 kV)

This is Applicable for supply of electricity for industries with installations of a minimum contract demand of 50 kVA and maximum contract demand of 1500 kVA.

Character of service: AC, 50 cycles, 3 phase at 11 kV.

Demand charge Rs./ kVA / Month of billing demand	Energy charges (Paise / kVAh)
550	All units – 798
<p>The billing demand shall be the maximum demand recorded during the month or 75% of the contract demand whichever is higher.</p> <p>If in any month the recorded maximum demand exceeds 105% of contract demand, that portion of the demand in excess of the contract demand shall be billed at twice the normal charges.</p> <p>The demand charges shall be recovered in full only if supply of power duly recorded by the consumer meter is maintained for at least 21 hours/day during the billing month. In any month if the supply of power is less than 21 hours/day, then the demand charge for that month shall be levied on pro-rata basis.</p>	

10.2. HTIS (Industrial)– II (33 kV)

This is applicable for supply of electricity for industries with a minimum contract demand of 500 kVA and maximum contract demand of 15,000 kVA. Character of service: AC, 50 cycles, 3 phase at 33 kV.

Demand charge Rs./ kVA / Month of billing demand	Energy charges (Paise / kVAh)
550	All units – 792
<p>The billing demand shall be the maximum demand recorded during the month or 75% of the contract demand whichever is higher.</p> <p>If in any month the recorded maximum demand exceeds 105% of contract demand, that portion of the demand in excess of the contract demand shall be billed at twice the normal charges.</p> <p>The demand charges shall be recovered in full only if supply of power duly recorded by the consumer meter is maintained for at least 21 hours/day during the billing month. In any month if the supply of power is less than 21 hours/day, then the demand charge for that month shall be levied on pro-rata basis.</p>	

10.3. HTIS (Industrial) – III (132 kV)

This is applicable for supply of electricity for industries with a minimum contract demand of 7.5 MVA. Character of service: AC, 50 cycles, 3-phase at 132 kV.

Demand charge Rs./ kVA / Month of billing demand	Energy charges (Paise / kVAh)
550	All units – 785
<p>The billing demand shall be the maximum demand recorded during the month or 75% of the contract demand whichever is higher.</p> <p>If in any month the recorded maximum demand exceeds 105% of contract demand, that portion of the demand in excess of the contract demand shall be billed at twice the normal charges.</p>	

The demand charges shall be recovered in full only if supply of power duly recorded by the consumer meter is maintained for at least 21 hours/day during the billing month. In any month if the supply of power is less than 21 hours/day, then the demand charge for that month shall be levied on pro-rata basis

10.4. HTIS (Industrial)-IV (220 kV)

This is applicable for supply of electricity for industries with a minimum contract demand of 10 MVA. Character of service: AC, 50 cycles, 3 phase at 220 kV

Demand charge Rs./ kVA / Month of billing demand	Energy charges (Paise / kVAh)
550	All units – 779
<p>The billing demand shall be the maximum demand recorded during the month or 75% of the contract demand whichever is higher.</p> <p>If in any month the recorded maximum demand exceeds 105% of contract demand, that portion of the demand in excess of the contract demand shall be billed at twice the normal charges.</p> <p>The demand charges shall be recovered in full only if supply of power duly recorded by the consumer meter is maintained for at least 21 hours/day during the billing month. In any month if the supply of power is less than 21 hours/day, then the demand charge for that month shall be levied on pro-rata basis.</p>	

10.5. HTIS (Industrial)-V (400 kV)

This is applicable for supply of electricity for industries with a minimum contract demand of 20 MVA. Character of service: AC, 50 cycles, 3 phase at 220 kV

Demand charge Rs./ kVA / Month of billing demand	Energy charges (Paise / kVAh)
550	All units – 772
<p>The billing demand shall be the maximum demand recorded during the month or 75% of the contract demand whichever is higher.</p> <p>If in any month the recorded maximum demand exceeds 105% of contract demand, that portion of the demand in excess of the contract demand shall be billed at twice the normal charges.</p> <p>The demand charges shall be recovered in full only if supply of power duly recorded by the consumer meter is maintained for at least 21 hours/day during the billing month. In any month if the supply of power is less than 21 hours/day, then the demand charge for that month shall be levied on pro-rata basis.</p>	

10.6. HTIS (Industrial) - Oxygen Manufacturers (11 kV)

This Tariff category is applicable for supply of electricity for Oxygen Manufacturing industries with installations of with minimum contract demand of 50 kVA to 1500 kVA

Demand charge Rs./ kVA / Month of billing demand	Energy charges (Paise / kVAh)
1000	All units – 543
<p>The billing demand shall be the maximum demand recorded during the month or 75% of the contract demand whichever is higher.</p> <p>If in any month the recorded maximum demand exceeds 105% of contract demand, that portion of the demand in excess of the contract demand shall be billed at twice the normal charges.</p> <p>The demand charges shall be recovered in full only if supply of power duly recorded by the consumer meter is maintained for at least 21 hours/day during the billing month. In any month if the supply of power is less than 21 hours/day, then the demand charge for that month shall be levied on pro-rata basis.</p>	

10.7. HTIS (Industrial) - Oxygen Manufacturers (33 kV)

This Tariff category is applicable for supply of electricity for Oxygen Manufacturing industries with installations of with minimum contract demand of 500 kVA to 15000 kVA as defined in the Bihar Electricity Supply Code (6th amendment) 2020.

Demand charge Rs./ kVA / Month of billing demand	Energy charges (Paise / kVAh)
1000	All units – 537
<p>The billing demand shall be the maximum demand recorded during the month or 75% of the contract demand whichever is higher.</p> <p>If in any month the recorded maximum demand exceeds 105% of contract demand, that portion of the demand in excess of the contract demand shall be billed at twice the normal charges.</p> <p>The demand charges shall be recovered in full only if supply of power duly recorded by the consumer meter is maintained for at least 21 hours/day during the billing month. In any month if the supply of power is less than 21 hours/day, then the demand charge for that month shall be levied on pro-rata basis.</p>	

10.8. HTSS – (33 kV/11 kV)

This is applicable for supply of electricity to all consumers who have contract demand of 300 kVA or more for induction furnace including Ferro Alloy loads. This tariff will not apply to casting units having induction furnace of melting capacity of 500 Kg or below. The capacity of induction furnace shall be 600 kVA per metric ton as existing for determining the contract demand of induction furnace in the existing HTSS service connections. However, for new connection and if the furnace is replaced with a new one for the existing connections, the contract demand shall be based on total capacity of the furnace and equipment as per manufacturer technical specifications, and in case

of difference of opinion, the provisions of Clause Nos. 6.39 and 6.40 of the Bihar Electricity Supply Code shall apply.

Those consumers who are having rolling/re-rolling mill in the same premises will take additional contract demand for the rolling/re-rolling mill over and above the contract demand required for induction furnace. The consumer will have the option to segregate the rolling/re-rolling mill and take separate new connection following all prescribed formalities with a separate transformer. This new connection, if taken by the consumer will be allowed to be billed in appropriate tariff schedule. Such rolling/re-rolling mill will be allowed to avail power at 33 kV /11 kV.

Character of service: AC, 50 cycles, 3-phase at 33 kV / 11kV upto 15000 kVA/ 1500 kVA, as the case may be.

Demand charge Rs./ kVA / Month of billing demand	Energy charges (Paise / kVAh)
800	All units – 494
<p>The billing demand shall be the maximum demand recorded during the month or 75% of the contract demand whichever is higher.</p> <p>If in any month the recorded maximum demand exceeds 105% of contract demand, that portion of the demand in excess of the contract demand shall be billed at twice the normal charges.</p> <p>The demand charges shall be recovered in full only if supply of power duly recorded by the consumer meter is maintained for at least 21 hours/day during the billing month. In any month if the supply of power is less than 21 hours/day, then the demand charge for that month shall be levied on pro-rata basis. If the power is availed at 11 kV a surcharge of five (5) % will be charged extra on demand and energy charges.</p>	

10.9. HTSS – (220 kV /132 kV)

This is applicable for supply of electricity to all consumers who have minimum demand of 10000 kVA and 7500 kVA, respectively for induction furnace including Ferro Alloy loads. This tariff will not apply to casting units having induction furnace of melting capacity of 500 Kg or below. The capacity of induction furnace shall be 600 kVA per metric ton as existing for determining the contract demand of induction furnace in the existing HTSS service connections. However, for new connection and if the furnace is replaced with a new one for the existing connections, the contract demand shall be based on total capacity of the furnace and equipment as per manufacturer technical specifications, and in case of difference of opinion, the provisions of Clause Nos. 6.39

and 6.40 of the Bihar Electricity Supply Code shall apply.

Those consumers who are having rolling/re-rolling mill in the same premises will take additional contract demand for the rolling/re-rolling mill over and above the contract demand required for induction furnace. The consumer will have the option to segregate the rolling/re-rolling mill and take separate new connection following all prescribed formalities with a separate transformer. This new connection, if taken by the consumer will be allowed to be billed in appropriate tariff schedule. Such rolling/re-rolling mill will be allowed to avail power at 220 kV / 132 kV .

Character of service: AC, 50 cycles, 3-phase at 220 kV/ 132 kV with a minimum demand of 10000 kVA and 7500 kVA, respectively.

Demand charge Rs./ kVA / Month of billing demand	Energy charges (Paise / kVAh)
800	All units – 494
<p>The billing demand shall be the maximum demand recorded during the month or 75% of the contract demand whichever is higher.</p> <p>If in any month the recorded maximum demand exceeds 105% of contract demand, that portion of the demand in excess of the contract demand shall be billed at twice the normal charges.</p> <p>The demand charges shall be recovered in full only if supply of power duly recorded by the consumer meter is maintained for at least 21 hours/day during the billing month. In any month if the supply of power is less than 21 hours/day, then the demand charge for that month shall be levied on pro-rata basis.</p>	

11.0. RTS (Railway Traction)

Applicable to Railway Traction loads only

Demand charge Rs. / kVA / Month of billing demand	Energy charges (Paise / kVAh)
540	All units – 816
<p>1). 13 Ps/kVAh of rebate shall be provided for availing supply at voltages higher than 132 kV.</p> <p>2). 13 Ps/kVAh of surcharge shall be billed for availing supply at lower voltages than 132 kV.</p> <p>3). The billing demand shall be the maximum demand recorded during the month or 75% of the contract demand whichever is higher.</p>	

12.0. HT Electric Vehicle Charging Stations

This Tariff category is applicable for Electric Vehicle Charging Station including battery

swapping station for electric vehicle. In case the consumer uses the electricity supply for charging his own electric vehicle at his premises, the tariff applicable shall be as per the category of such premises. Electricity consumption for other facilities and purposes at Charging Station such as office, restaurant, rest rooms, convenience stores, public amenities, etc., shall be charged at tariff applicable to Non-Domestic Category.

Sl. No	Category of consumer	Energy charge (Paissa/ kVAh.)
1	Metered	785

TERMS AND CONDITIONS OF HIGH-TENSION SUPPLY (HT) TARIFF

The above tariffs are subject to the following conditions:

1) Demand based Tariff

The billing demand shall be the maximum demand recorded during the month or 75% of the contract demand whichever is higher.

If in any month the recorded maximum demand exceeds 105% of contract demand, that portion of the demand in excess of the contract demand shall be rounded off to the next whole number in terms kVA, as the case maybe, and the fixed charge on that incremental excess (and round off) contract demand shall be billed at twice the normal rates.

2) Recovery of full Fixed/Demand Charge

The demand charges shall be recovered in full only if supply of power duly recorded by the consumer meter is maintained for at least 21 hours/day during the billing month. In any month if the supply of power is less than 21 hours/day, then the demand charge for that month shall be levied on pro-rata basis.

Supply of power may be reckoned as recorded at 33/11 kV substation, in case where installed consumers meters do not have features of recording hours of supply.

3) Fuel and Power Purchase Cost Adjustment (FPPCA)

In addition to the above tariff, Fuel and Power Purchase Cost Adjustment (FPPCA) charges as applicable under the extant regulations will be charged extra.

4) Rebate for prompt payment

The due date for making payment of energy bills or other charges shall be 15 days from the date of issue of the bill. Rebate of 1.5% on the billed amount for timely payment of the bills for all the consumers served in HT category shall be allowed.

In case a consumer makes full payment after due date but within 10 days after the due date, no delay payment surcharge (DPS) shall be levied for this period and rebate for prompt payment will not be admissible.

5) Rebate for online payment

To motivate the consumers to make online payment of the bills through online web portal a rebate of 1% of the billed amount shall be allowed in addition to prompt

payment rebate of 1.5%. However maximum rebate available under online or digital payment is of Rs 50,000. However, online payment rebate shall be applicable if the consumer makes full payment of the bill within due date.

6) Load Factor Incentive

To promote efficiency in the system and incentivize electricity consumption, Load factor incentive is as under:

A. Load factor incentive for all HT Industrial category consumers (excluding HTSS consumers)

Load Factor Range	Incentive
>40%-60%	10 paise per unit on energy charges for energy consumption over 40% and up to 60% load factor during the billing month
>60%-70%	20 paise per unit on energy charges for energy consumption over 60% and up to 70% load factor during the billing month
Above 70%	25 paise per unit on energy charges for energy consumption over and above 70% load factor during billing month

B. Load factor incentive for all HTSS Category Industries:

Load Factor range	Incentive
>65%-70%	10 paise per unit on energy charges for entire energy consumption during the billing month. [for load factor above 65% and up to 70%].
>70%-80%	15 paise per unit on energy charges for entire energy consumption during the billing month. [for load factor above 70% and up to 80%].
Above 80%	25 paise per unit on energy charges for entire energy consumption during the billing month. [for load factor above 80%].

7) Accounting of Partial payment

Payments made by consumers in full or part shall be adjusted in the following order of priority:

- a). Statutory taxes and duties on current consumption
- b). Arrear of Statutory taxes and duties
- c). Delayed payment surcharge

- d). Balance of arrears
- e). Balance of current bill

8) Delayed Payment Surcharge (DPS)

In case, consumer does not pay energy bills in full within 10 days grace period after due date specified in the bill, a delayed payment surcharge of one and half (1.5) percent per month on the outstanding principal amount of bill will be levied from the original due date for payment until the payment is made in full without prejudice to right of the licensee to disconnect the supply in accordance with Section 56 of the Electricity Act, 2003. The licensee shall clearly indicate in the bill itself the total amount, including DPS, payable for different dates after the due date after allowing for the grace period of 10 days. No DPS shall be charged on DPS arrear. The bill shall indicate the energy charges for the month, arrears of energy charges and DPS separately.

9) Duties and Taxes

Statutory levies like electricity duty or any other taxes, duties etc., imposed by the State Government / Central Government or any other competitive authority, shall be extra and shall not form part of the tariff as determined under this Order.

10) Contract Demand for Induction Furnaces

The prevailing practice will continue for determining the contract demand of induction furnaces in the existing services connections. However, for new connections and where the furnaces are replaced in existing connections, contract demand shall be based on the total capacity of the furnace and equipment as per manufacturer technical specifications and in case of difference of opinion, the provisions of clause No.6.39 and 6.40 of Bihar Electricity Supply Code shall apply.

11) Advance Payment:

If a consumer makes advance payment against his future bills, the consumer shall be allowed for interest equivalent to the Bank Rate of RBI. Such amount of interest shall be adjusted in subsequent monthly regular electricity bills on reducing balance, provided that the minimum amount of advance payment shall not be less than Rs.2000/- (Rupees Two thousand).

12) Time of Day tariff (ToD) (for all HT consumers)

ToD tariff shall be mandatory for all HT consumers. Under the Time of Day (ToD) Tariff, electricity consumption and demand in respect of HT consumers for different periods of the day, i.e. normal period, peak load period and off-peak load period, shall be recorded by installing a ToD meter. The consumption recorded in different periods shall be billed at the following rates on the tariff applicable to the consumer.

Time of Use	Demand Charges	Energy Charges
(i) off peak load period (9:00 a.m. to 5.00 p.m.)	Normal Rate	80% normal rate of energy charges
(ii) Evening peak load period (5.00 p.m. to 11.00 p.m.)	Normal Rate	120% of normal rate of energy charges
(iii) Normal period (11.00 p.m. to 9.00 a.m.)	Normal Rate	Normal rate of energy charges

13) Green Energy Tariff

Consumers availing Green Energy from Distribution Licensee shall be required to pay Green Energy Charges at the rate of Rs. 0.42/unit and such charges shall be applicable over and above the normal tariff for that category of consumers. The consumer may purchase on a voluntary basis, more renewable energy, than he is obligated to do and for ease of implementation, this may be in steps of 25% going upto 100%. Any requisition for green energy from a distribution licensee shall be for a minimum period of one year. The quantum of green energy shall be pre-requisitioned for at least one month in advance.

The green energy provided by the licensee on request of any consumers shall also qualify to be taken into account for meeting the RPO compliance of the licensee.

TERMS AND CONDITIONS OF TEMPORARY SUPPLY (LT and HT)**1) Applicability**

This tariff is for connection of temporary in nature for period of less than one year. The applicability shall be as given in the respective category tariff rate schedule. Temporary supply cannot be claimed by a prospective consumer as a matter of right but will normally be arranged by the Licensee when a requisition is made giving due notice subject to technical feasibility and in accordance with electricity supply code issued by the Commission.

2) Tariff

Fixed charge and energy charge shall be chargeable at 1.25 times the normal tariff as applicable to the appropriate tariff category.

3) Terms of Supply

- a). Temporary supply under any category of service may be given for a period not exceeding 30 days in the first instance, the duration of which, however may be extended on month-to-month basis subject to maximum of one year.
- b). In addition to the charges mentioned above, the consumer shall have to deposit the following charges before commencement of the temporary supply
 - i). Estimated cost of erection of temporary service line and dismantling. The cost of dismantling can be calculated on case to case basis as per the terms of supply for such temporary connection and while doing so it should be ensured that the establishment charges are not considered in framing estimates for dismantling.
 - ii). Cost of irretrievable materials which cannot be taken back to service.
 - iii). Miscellaneous and General Charges as per appropriate tariff schedule.
 - iv). Rental on the cost of materials as per estimate framed but not payable by the consumer shall be payable at the rate of Rs.15/- per month on every Rs.100/- or part thereof.
 - v). Ten per cent (10%) on the total cost of the estimate for the temporary service connection to cover as security for loss of materials and contingencies. In case such loss is not noticed, the amount will be refunded.
- c). The applicants for temporary supply shall be required to make a deposit in advance of the cost as detailed above including the energy consumption charges estimated

for full period on the basis of connected load. This will however, be adjusted against the final bill that will be rendered on disconnection of supply on month to month basis.

- d). If the consumer intends to extend the temporary supply beyond the period originally applied for, he will have to deposit in advance all charges as detailed above including the estimated electricity consumption charges, for the period to be extended and final bill for the previous period, as well.
- e). The temporary supply shall continue as such and be governed by the terms and conditions specified above until the supply is terminated or converted into permanent supply at the written request of the consumer. The supply will be governed by the terms and conditions of permanent supply only after the consumer has duly completed all the formalities like execution of agreement, deposit of security money, cost of service connection and full settlement of the account in respect of the temporary supply etc.

TERMS AND CONDITIONS OF SEASONAL SUPPLY (LT and HT)

- 1) Seasonal supply shall be given to any consumer on written request to the Licensee subject to the following conditions.

Period of Supply	Tariff Rate
Up to 3 consecutive months in a year	Appropriate tariff plus 30 percent
More than 3 consecutive months and up to 6 consecutive months in a year	Appropriate tariff plus 20 percent
More than 6 consecutive months and up to 9 consecutive months in a year	Appropriate tariff plus 15 percent
More than 9 consecutive months but less than one year	Appropriate tariff plus 5 percent.

- 1). Miscellaneous and General Charges as applicable to the appropriate tariff category are applicable for seasonal loads and would be charged extra for the entire period of supply.
- 2). The supply would be disconnected after the end of the period unless the consumer wants the supply to be continued. Any reconnection charges have to be borne by the consumer.
- 3). Consumer proposing to avail seasonal supply shall sign an agreement with the Licensee to avail power supply for a minimum period as specified in Bihar Electricity Supply Code, 2007, as amended from time to time.
- 4). The consumers must avail supply in terms of whole calendar month continuously.

PART – C: MISCELLANEOUS AND GENERAL CHARGES

1.0. Miscellaneous and General Charges

The Commission has issued an order in Case No 19/2024, dated 10.12.2024, in the matter of "Determination of Service Connection Charges" in exercise of Power under section 45 & 46 of Electricity Act, 2003, Rule 4 of (13) of Electricity (Right of Consumer), Rules, 2020, Section 36 & 39 of BERC (Conduct of Business) Regulations, 2005 and its further amendments & Regulation 4.4 & 4.19 (b) of the Bihar Electricity Supply Code, 2007 and its further amendments. The service connection charges as approved in the order dated 10.12.2024 are applicable for electrified areas and upto 150 kW load only. The Commission, in the aforesaid order, while approving the Service Connection Charges decided the following about 'Supervision, Labour & establishment charge for service connection':

"It is observed that Part C of the tariff schedule under chapter 9 of the tariff order has the provision for miscellaneous and general charges, which inter-alia contains schedule of charges for new connections including application fee, testing/inspection of consumer's installation, meter testing fee (from the consumers opting to provide their own meters) and Supervision, Labour & establishment charge for service connection. We find that the proposal submitted by the petitioner in the instant petition has been framed alongwith consideration of Supervision, labour and establishment charge also for each category and therefore it may not be proper to allow the same to be recovered twice by taking shelter of tariff order. "

Hence, 'Supervision, Labour & establishment charge for service connection', as given in this Section are not separately applicable under Service Connection Charges for new connection in electrified areas and / or load upto 150 kW.

The Miscellaneous and General charges approved by the Commission are as below:

1.1. Application fee for new connection / reduction of load / enhancement of load / request for permanent disconnection:

Sl. No.	Category / class	Rate
(i)	Kutir Jyoti	Rs.20.00
(ii)	LT Single phase except Kutir Jyoti	Rs. 75.00
(iii)	LT Three phase	Rs. 200.00
(iv)	LT Industrial	Rs. 300.00

(v)	HT Connection	Rs. 750.00
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1.2. Testing / Inspection of consumer's Installation:

Sl. No.	Category / class	Rate
(i)	Initial Test / Inspection	Free of cost
(ii)	Subsequent test and inspection necessitated by fault in installation or by not complying with terms and conditions of supply	Rs.100.00 for single phase connection Rs.200.00 for three phase LT connection Rs.800.00 for HT connection.

1.3. Meter Testing Fee:

The meter testing fee at the following rates shall be charged from the consumers opting to provide their own meters

Sl. No.	Category /Class	Rate
(i)	Single Phase meter (L.T.)	Rs. 100.00
(ii)	Three Phase meter (L.T.)	Rs. 200.00
(iii)	Three Phase meter with CT	Rs. 300.00
(iv)	Tri-vector and special type meter	Rs. 1800.00
(v)	33 kV or 11 kV metering equipment	Rs. 5000.00
(vi)	132 kV/220 kV/400 kV metering equipment	Rs. 8000.00

Note:

- 1). No meter testing fee shall be charged from the consumers if the meter has been provided by the licensee.
- 2). If the meter is tested at third party testing laboratory at the request of the consumer then the fees charged by the testing laboratory shall be payable by the consumer.

1.4. Meter Testing Fees for Bi-directional Meters

The meter testing fees for bi-directional meters at the following rates shall be charged from the consumers opting to provide their own meters

Sl. No.	Category / class	Rate
1	Single Phase bi-directional meter	Rs. 200.00
2	Three phase LT CT Operated Bidirectional meter	Rs. 800.00
3	Three Phase meter (L.T.) Bidirectional meter	Rs. 400.00
4	Three Phase meter with CT Bidirectional meter	Rs. 600.00

5	Tri-vector and special type Bidirectional meter	Rs. 2,000.00
6	Three phase HT ToD Bidirectional	Rs. 1,100.00

Note:

- 1). No meter testing fee shall be charged from the consumers if the meter has been provided by the licensee.
- 2). If the meter is tested at third party testing laboratory at the request of the consumer then the fees charged by the testing laboratory shall be payable by the consumer.

1.5. Removing / Re-fixing / Changing of Meter on consumer's request:

Sl. No.	Category / class	Rate	Cost of material, as required, will be borne by the consumer
(i)	Single Phase meter	Rs. 200.00	
(ii)	Three Phase meter	Rs. 400.00	
(iii)	Three Phase meter with CT	Rs. 500.00	
(iv)	Tri-vector and special type meter	Rs. 600.00	
(v)	High tension metering equipment	Rs. 1200.00	

1.6. Reconnection charge:

Sl. No.	Category/class	Rate
(i)	Single Phase supply, LT	Rs. 100.00
(ii)	Three Phase supply other than LT industrial	Rs. 200.00
(iii)	Three Phase LT industrial supply	Rs. 900.00
(iv)	HT supply	Rs. 3000.00

Note: In case pre-paid smart meter reconnection, the reconnection charges would be applicable only if the consumer would have been permanently disconnected prior to the reconnection request.

1.7. Supervision, Labour and Establishment charge for service connection*:

Sl. No.	Category/class	Rate
(i)	Single Phase LT	Rs. 400.00
(ii)	Three Phase LT other than industrial	Rs. 900.00
(iii)	Three Phase industrial	Rs. 1500.00
(iv)	HT	As per approved estimate

*These charges are not applicable under service connection charges for new connection in electrified areas and / or load upto 150 kW.

1.8. Duties and Taxes

Statutory levies (like GST or any other taxes, duties like electricity duty etc.) imposed by the State Government / Central Government or any other competent authority, shall be charged extra and shall not be part of the tariff as determined under this Order.

1.9. Security Deposit

All Consumers, except for (i) BPL (Kutir Jyoti), (ii) prepaid smart meter connections and (iii) Central / State Government departments, shall pay security deposit in accordance with provisions under Bihar Electricity Supply Code, 2007 as amended from time to time.

1.10. Other Terms and Conditions:

The other terms and conditions of supply of electricity not specially provided in this tariff order shall continue to be regulated by the provisions specified in the Bihar Electricity Supply Code, 2007 as amended time to time.

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11. Directives

11.1 Introduction

The sub-clause (c) of Section 61 of Electricity Act 2003 stipulates that the Commission shall be guided by the factors which would encourage competition, efficiency, economical use of the resources, performance and optimum investments. Therefore, under Section 23 of the Electricity Act, 2003, the Commission has been giving certain directions to the Discoms in the Tariff Orders for improvement of their operational and financial performance, reduction in distribution losses, improvement in service to the consumers etc. Commission has also been monitoring the compliance of the given directives.

The Commission had issued certain directives in the Discoms tariff order dated 01st March, 2024. The Discoms have submitted their status of compliance for 1st and 2nd quarters of FY 2024-25. On review of the compliance status of the directives submitted by Discoms, it is noted that many directives are either fully or partially complied and some are yet to be complied.

The Commission has reviewed the compliance of those directives and give fresh directives clubbing the earlier partially or un-complied directives to the Discoms in this tariff order and the Commission shall critically monitor the compliance status of each directive at the end of every quarter for the year FY 2025-26.

The Discoms are directed for submit compliance reports on quarterly basis starting from 1st quarter of FY 2025-26.

11.2 Directives

Directive 1: Billing Efficiency and Collection Efficiency

The Discom have submitted the details of billing and collection efficiency for the 1st and 2nd Quarter of FY 2024-25. The analysis of data submitted by the DISCOM reveals Billing Efficiency and Collection Efficiency of Discoms at the end of second quarter of FY 2024-25 as given below:

Discoms	Billing Efficiency%	Collection Efficiency (%)
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NBPDC	78.62%	92.13%
SBPDCL	80.98%	97.13%

Note: NBPDC has submitted the month wise data in their quarterly report as directed by the Commission

SBPDCL directed to submit the month-wise data circle -wise in quarterly report henceforth without fail. The target of achieving 100% Billing efficiency and 100% collection efficiency (including arrears collection) is yet to be achieved by both the Discoms.

The Commission directs the Discoms to improve their performance in billing and collection activity and submit the following information in the quarterly report to be submitted to the Commission during FY 2025-26.

Particulars	Unit	Month 1	Month 2	Month 3
Revenue Billed	Rs. Crore			
Revenue Collected	Rs. Crore			
Collection Efficiency	%			
Energy Input to the Discoms	MU			
Energy Sales	MU			
Billing Efficiency	%			

Directive 2: Cent percent Consumer Metering

The Commission has noted the status of installation of meters in IAS-I and street light (un-metered) categories (as on 30.09.2024) as shown below:

DISCOM	IAS-I			SS (Street Light)		
	No. of Connections	No. of Connections with meter	%	No. of Connections	No. of Connections with meter	%
NBPDC	3,06,126	2,88,293	94%	3437	987	29%
SBPDCL	4,00,124	1,55,071	39%	1339	0	0

FY 2023-24 (as on 30.9.2023)

DISCOM	IAS-I			SS (Street Light)		
	No. of Connections	No. of Connections with meter	%	No. of Connections	No. of Connections with meter	%
NBPDC	231688	224920	97%	2461	969	39%
SBPDCL	324440	169555	52%	1296	--	--

It is surprising to note that as against 94% metered connection in IAS-I category for NBPDCCL, the SBPDCL has provided only 39% metered connection which is beyond any reasonable explanation. Similar trend is also noted for street light connections, where against 29% metered connection in NBPDCCL, there is no metered connection provided by SBPDCL in that category. The Commission views the above action seriously and repeats earlier direction for providing 100% metered connection to all consumers. Both the DISCOMs are also directed to submit a timeframe along with roadmap for 100%-meter connection along with the next quarterly report.

The Commission directs that the monthly progress of metering of IAS-I and Street Light categories should be submitted in the quarterly report in the following format.

Category	Number of Connections existing	Number of Connections provided with meters	Balance connections to be provided with meters
IAS –I			
Street Light (Unmetered)			

Directive 3: Reduction of AT&C Loss

The AT&C loss trajectory for FY 2024-25 is fixed at 16% for NBPDCCL and 20% for SBPDCL under RDSS scheme. The Commission in Tariff Order for FY 2024-25 directed the Discoms to monitor reduction of distribution loss and AT&C loss at Division / circle every month and share the information through the quarterly report to the Commission. The DISCOMs have submitted 2 quarters data for FY 2024-25. The analysis of AT&C loss data submitted by Discoms reveals that following 5 divisions from NBPDCCL & SBPDCL recorded highest AT&C loss

SNo	Divisions reporting highest AT&C losses			
	NBPDCCL	AT&C loss	SBPDCL	AT&C loss
1	Chakia	40.50%	Jagdishpur	34%
2	Motihari	36.88%	Arrah	34%
3	Araria	36.73%	Manpur	31%
4	Mirganj	36.20%	Jehanabad	30%
5	Begusarai	36.17%	Sherghati	30%

The Commission notes that the AT&C losses reported by NBPDCCL & SBPDCL are substantially higher than the target approved by the Commission for FY 2024-25. The Commission observed that some of the divisions in SBPDCL reported negative AT&C losses (Rajendra Nagar, Kankarbagh-1, Bankipur ect). The Commission directs the

DISCOM to take suitable measures to reduce the AT&C losses in above circles and submit action taken report in this regard in first quarterly report during FY 2025-26. SBPDCL is directed to submit explanation about the negative AT&C losses reported in some of the divisions.

Discoms are directed to submit the month-wise details of AT&C loss in the quarterly report in the following format.

Circle	Name of the Division	Energy Input (MU)	Units Sold (MU)	Units Loss		Revenue Billed (Rs. Cr)	Revenue Collected (Rs. Cr)	% of Revenue Collected	AT&C loss (%)
				(MU)	(%)				

Directive 4: Interest on Security Deposit of Consumers

In response to directives on this subject matter, Discoms have submitted that the security deposit is refunded to those consumers who are provided with Smart Prepaid Meters. Discoms further submitted that Interest on SD is not passed on to those LT consumers served with the conventional meters and Discoms are in the process of developing IT system-based module for passing on the accumulated interest to LT consumers.

The Commission observed that this statement is being repeated by Discoms year on year without reporting any progress, if any, made on developing IT system module, which is not acceptable.

The Commission has noted that in spite of repeated instructions, Discoms are still not passing on the accumulated interest on security deposit to many LT consumers.

The Commission directs the Discoms to expedite the process and arrange regular payment of interest on the Security Deposit amount for the LT consumers without further delay. The Commission directs the Discoms to submit the action taken report on the matter in next quarterly reports. Also, a Standard Operating procedure for refund of Security Deposit (along with interest to those consumers who are provided with pre-paid meters be prepared and followed. This refund may be done in cash or kind.

Directive 5: Asset Register

The Commission has noted that NBPDCCL has submitted its Asset Register; however, SBPDCL have not yet started preparation of Asset Register inspite of repeated directives.

SBPDCL submitted that they are going to implement ERP (Enterprise Resource Planning) which is mandatory under Revamped Distribution Sector Scheme (RDSS) of Government of India. It is endeavoring to create and maintain component wise fixed asset register same will be submitted after ERP implementation is done. It is submitted that ERP implementation of tune to around 80% has been completed.

SBPDCL submitted that they are in process of preparation of Fixed Assets Register (FAR) on the basis of financial records of the Company and endeavor to finalize the same and submit before the Commission by the end of March'2025.

The Commission directs SBPDCL to expedite the process of preparation of Fixed Asset Register without further delay and submit the status in the quarterly progress report to be submitted.

It has been observed that in spite of repeated direction of the Commission issued vide various tariff orders, the petitioner has not submitted the Asset Register, in absence of which it is very difficult to ascertain whether allowing depreciation on estimated Asset value will be justified under applicable Regulations as well as in the consumer interest. The Commission viewed it seriously and may disallow the depreciation claim of the petitioner in future.

Directive 6: Voltage-wise Cost of Supply

In quarterly report , Discoms have submitted that energy accounting is being done on few 33/11 kV feeders and defective meters are being replaced. Once ERP is implemented and fixed asset register is completed, voltage wise cost of supply would be submitted to the Commission in a detailed manner as directed by the Commission.

The Commission has noted that the Discoms have not made required study to assess technical losses for all 33 kV, 11 kV feeders and LT lines. In FY 2025-26 proposal also Discoms have computed Voltage wise cost of supply based on assumed technical

losses. The Commission directs the Discoms to submit voltage-wise cost of supply with next tariff petition based on technical losses calculated at various voltage levels by conducting a detailed study. The status of progress on the study shall be reported in the quarterly report.

Directive 7: Regulatory Accounts

The Petitioners submitted that currently nowhere in India similar kind of work is being done. Hence, they are not in a position to derive any insight on how to start with the process of regulatory accounting. Under such circumstances, appointing a consultancy firm to carry out such activity and with such experience seems remote. Hence it has become challenging to initiate the process of regulatory accounting.

The Commission has noted that the Discoms have not yet started preparation of Regulatory Accounts in accordance with BERC (Power Regulatory Accounting) Regulations, 2018. The Commission feel that Regulatory accounts are essential to verify the certain claims of the licensees which.

The Commission directs the Discoms to submit Audited Regulatory Accounts in next tariff petition and status of progress shall be submitted in quarterly report .

Directive 8: Outstanding Arrears

The information provided by Discoms in quarterly report reveal that there are huge amounts of outstanding arrears to be collected primarily from the Govt. Departments, Semi-Govt. Departments and Local Bodies.

Summary of outstanding dues of government department, semi-govt. departments and local bodies for the quarter ending on 30th September 2024 is given below.

(Rs.Crore)

DISCOM	Outstanding arrears at the beginning of the quarter	Revenue Billed during the quarter	Revenue Collected during the quarter	Balance outstanding arrears at the end of quarter
NBPDCCL	444.69*	113.23	77.88	430.03
SBPDCL	649.13	216.92	261.66	604.39

The Commission directs the Discoms to pursue with defaulting departments and make efforts to realize the outstanding dues. A quarterly report on the progress to be

submitted in this regard .

Directive 9: Consumers Grievance Redressal

The Commission has noted the status resolving of consumer grievances at the end of 2nd quarter of FY 2024-25 as below:

DISCOM	No. of Complaints at beginning of Quarter	No. of Complaints received during the quarter	No. of complaints resolved in the quarter	No. of complaints pending at the end of quarter
NBPDCCL	5798	95388	97693	3493
SBPDCL	49	52901	52890	60

It has been noted that the pendency of unresolved cases is more in case of NBPDCCL. The Commission directs NBPDCCL to review Division-wise number of complaints being received every month and to take appropriate action to reduce the complaints being received. The Commission directs the Discoms to submit the report on consumer's grievance redressal in the quarterly basis which shall contain following information:

- 1). Number of complaints pending at the beginning of the quarter
- 2). Number of complaints received during the quarter
- 3). Number of complaints resolved in the quarter
- 4). Number of complaints pending at the end of the quarter

Directive 10: Release of New Connections

The Commission has noted the status of releasing new service connection to the end of 2nd quarter of FY 2024-25 as below:

DISCOM	No. of applications Pending at the beginning of Quarter	No. of applications received during the quarter	No. of Connections released during the quarter	No. of applications pending at the end of quarter
NBPDCCL	492,863	171,866	171,257	493,472
SBPDCL	69,314	119,304	140,888	47,730

Pending applications are increasing at the end of the quarter for NBPDCCL. Discoms should put forth more efforts to speed up releasing of new service connections and to

reduce pending applications.

The Commission directs, the Discoms to submit the report on release of new connections in the quarterly report along with following details as given below :

- Number of applications pending at the beginning of the quarter
- Number of application received during the quarter
- Number of connections released during the quarter
- Number of applications pending the end of quarter.

Directive 11: Power Procurement

The Commission directs the Discoms to submit the following details related to power purchase from each source, month-wise in the quarterly report.

- 1). Source of Purchase
- 2). Available Capacity (MW)
- 3). Energy Purchased (MU)
- 4). Fixed Charges Paid (Rs. Crore)
- 5). Energy Rate (Rs / kWh)
- 6). Energy Charges Paid (Rs. Crore)
- 7). Any other Charges Paid (Rs. Crore)
 - i). Open Access Charges
 - ii). Other Charges
- 8). Total Cost Paid (Rs. Crore)

Directive 12: Category wise Tariff Subsidy Provided

In response to this directive, the Discoms has submitted the quarterly data (subsidy claimed and subsidy provided). The Commission directs the Discoms to continue to submit details of category-wise tariff subsidy claimed and provided by Govt. of Bihar, month-wise in the quarterly report to be submitted.

Directive 13: Surplus Power

The Commission has observed that the Discoms have tied-up huge quantum of PPAs as per the demand projection under power for all scheme. It is reported that Bihar has an allocation of around 11899 MW of Power during FY 2024-25 from Central Generating Station, Independent Power Producers and Renewable Energy Power Stations from Intra / Inter-state generating stations. However, the demand has not increased as per the estimated projections as well as due to the movement of consumers to Open Access. As a result, the Discoms are currently in power surplus situation. It is also reported by the Discoms that this surplus power situation has led to unnecessary fixed cost burden even though energy is not drawn as per allocation. The power purchase cost is unnecessarily increasing.

Discoms are directed to submit the following month-wise particulars along with power procurement cost in the quarterly report.

- Contracted capacity of Discom (MW)
- Available capacity during the month (MW)
- Scheduled capacity during the month (MW)
- Open Access allowed during the month (MW)
- Capacity stranded during the month (MW)

Directive 14: Sale of Surplus Power

The Commission has directed the Discoms to explore opportunities to optimize the revenue accrued from sale of surplus power.

Discoms have submitted that based on the continuous monitoring of the power portfolio (viz power available viz-a-viz power demand) on the RTC basis, the surplus power wherever is available managed judiciously on best effort basis through power surrender (As per the IEGC grid code) and/or Sale of power mainly in spot market with an overall objective of optimizing the power purchase cost in terms of BERC (Power Purchase and Procurement Process of Licensee) Regulations.

For management surplus power, the Commission directs the Petitioners to explore all the options for sale of surplus power including but not limited to bi-lateral sale to the other Distribution Licensees, sale to other Distribution Licensees by participating in

tenders floated by them for procurement of power on short-term basis, banking arrangement with other Distribution Licensees, sale on Power Exchanges, PushP portal, HP-DAM and OTC Platform, etc. in consonance with the parent company BSP(H)CL such that the revenue accrued from sale of surplus power are optimized and in line with Commission's previous directives.

Directive 15: ToD Tariff for LT Industries

For FY 2024-25, ToD tariff was optional for NDS, LT Industries and Public Water Works. Discoms have reported that the existing meters for LTIS-II category of consumers are ToD compatible. The Commission decides to implement ToD tariff for LT consumers excluding Agricultural consumers having contracted demand greater than 10 kW. This will help to control the demand during peak hours.

The Commission directs the Discoms to start ToD billing to all eligible LT & HT consumers wef 1st April 2025 . If required the ToD compatible meters should be installed immediately as per need.

Directive 16: Demand side management (DSM)

It has been noticed that the Discoms have not submitted the details with regard to the utilization of funds approved for Demand Side Management during FY 2024-25 and the intended outcomes of the same .

Commission directs DISCOM to file Demand Side Management (DSM) action plan duly highlighting the objectives and benefits to be achieved in terms of savings in power consumption and other benefits indicating the element-wise/head-wise quantitative figures and cost details in terms of Regulation 4, 5 and 6.3 of the BERC (Demand Side Management) Regulations 2014.

Directive 17: Power portfolio optimization

It is incumbent upon Discoms to supply reliable power to its consumers. The Discoms are duty bound to tie up sufficient capacity to meet the demand of consumers. Rights of Electricity Consumers Rules, 2020 prescribe payment of compensation to consumers for avoidable load shedding. The Ministry of Power Govt. of India has issued guidelines on 28.06.2023, for Resource Adequacy Planning framework which

outlines important actions required to be taken by all institutions and stakeholders, in order to ensure sufficient tie-up of capacities to meet resource adequacy requirement on different time horizons. The Discoms are directed to analyse their power portfolio and prepare an action plan to meet the requirements of the 24X7 power to all by following guidelines of the Union Government and submit the same to the Commission along with next year tariff Petition.

Directive 18: Agricultural consumption and corresponding load mapping

The Commission has reviewed the energy sale and corresponding connected load data submitted by DISCOMs for FY 2023-24. It has been observed that the reported energy sale for IAS-I and IAS -II category of consumers (metered and un-metered) during FY 2023-24 for NBPDCCL and SBPDCL is not in conformity with the normal hours of operation and connected load.

Commission directs the Petitioners to do proper load mapping of for IAS-I and IAS-II consumers, up to the point of consumption. The progress of work should be reported in quarterly reports. This exercise should be completed before next tariff filing for FY 2026-

Directive 19: Preparation of Standard Operating Procedures for Supplementary Power Bills of Generators

The Petitioners are directed to develop a Standard Operating Procedure for mapping supplementary bills, including all relevant supporting documents, generating station-wise. The Petitioners should also ensure that mapping of supplementary bills along with all relevant supporting documents is accessible with IT tools to facilitate retrieving of all relevant information related therewith. A comprehensive chart in MS Excel format be submitted along with next tariff filing for true-up year showing detailed calculation of claimed amount along with supporting documents, clearly specifying the reason for such claim.

11.3 General

The Commission shall review and monitor progress of the compliance of the aforesaid directives on quarterly basis. Therefore, the Discoms are directed to send quarterly progress report on each directive at the beginning of July, 2025 (for quarter ending

June 2025), October 2025 (for quarter ending September 2025) and January 2026 (for quarter ending December, 2025) and April 2026 (for quarter ending March, 2026).

Sd/-
Parshuram Singh Yadav
Member (Legal)

Sd/-
Arun Kumar Sinha
Member (Technical)

Sd/-
Amir Subhani
Chairman

SAC Meeting

**Bihar Electricity Regulatory Commission (BERC)
Vidyut Bhawan-II, J. L. Nehru Marg, Patna 800 021**

Time: 11:30 A:M Dated: 15.1.2025

Minutes of the meeting of the State Advisory Committee (SAC) held on 15.1.2025 to discuss the various points including Tariff petitions of NBPDCL, SBPDCL, BSPTCL, SLDC and BGCL for the FY 2025-26.

1. The meeting of the State Advisory Committee (SAC) was held on 15.1.2025 under the Chaird by of ShriAmir Subhani, IAS (Retd.), Chairman, BERC. The list of participants of the meeting is enclosed with this minute of meeting.
2. The Chairman welcomed all the members and other participants of the meeting and emphasised the contribution of the members towards the holistic development of the electricity sector of the State. The Chairman underlined the objectives of the Committee which includes advise to the Commission on matter of policy relating to electricity supply, quality, continuity and extent of services provided by the licensees, protection of consumers interest, overall standards of performance by utilities, etc. The Commission decided to conduct the SAC meeting with annual tariff determination exercise every year. The Chairman requested the members to participate in the meeting for meaningful discussion on the listed agenda items.
3. It was explained that although the agenda of this meeting as circulated earlier is related to the discussion on tariff petitions for FY 2025-26, which also includes Business Plan for next control period (FY 2025-26 to FY 2027-28), submitted by BSPTCL, SLDC, BGCL, NBPDCL and SBPDCL, yet, the members may put up any policy matters for discussion which comes under the purview of the State Advisory Committee.
4. The Chairman briefed the SAC members that the Commission shall conduct public hearing at Patna for BSPTCL, BGCL and SLDC on 19.02.2025 and for Discoms on 20.02.2025. The details of public hearings of Discoms to be conducted in different places in the state were also informed to the members. It was mentioned that

Objections/suggestions on the petitions received from stakeholders shall be considered by the Commission before finalizing the tariff. It was further stated that the suggestions of SAC shall also be taken into consideration in finalizing the tariff for FY 2025-26.

After introductory session, agenda items as circulated earlier were taken up for discussion.

5. Presentation on Tariff Petitions by NBPDCCL and SBPDCL:

- a. The Discoms jointly made PowerPoint presentation on the tariff petitions for true up for 2023-24, APR of 2024-25 and ARR& Tariff proposal for FY 2025-26 along with Business Plan for FY 2025-26 to FY 2027-28. The Discoms while highlighting the gist of petitions disclosed before the Committee that although they have proposed overall surplus in the ARR of FY 2025-26 including gap in the true up of FY 2023-24 which shall be bridged by the tariff proposal submitted by the Discoms. The main tariff proposals proposed by Discoms are - no tariff hike for FY 2025-26, except hike for HTSS by Rs.1/KVAh in energy charge and (DSI, Rural), merger of both slabs of DSI (Rural) category with the value of lower slab for entire consumption.

After the general discussion on the tariff proposals, following listed agenda items pertaining to Discoms tariff petitions were taken up.

b. Initiatives proposed in Tariff Petitions:

- i. Facilitating the prospective consumers through introduction of “Green Tariff”. Discoms mentioned that there is continuous pressing demand from industries and other consumer categories for determination of Green tariff in the state of Bihar. Based on the methodology adopted by states for determination of green tariff, a green tariff at Rs.1.17/kWh is proposed for all categories in the state of Bihar for FY 2025-26.
- ii. Incentivizing increased consumption through improvement in load factor. Discoms submitted that HTSS industries already operate at higher load factor levels (around 90%) by the nature of operations of their businesses. Therefore,

provisioning of load factor incentive for HTSS on the entire consumption for load above 60% amounts to providing benefit to HTSS category at the cost of burdening the other category consumers. Hence, Discoms proposed the incentive of 30 paise per unit on energy charges for energy consumption during the billing month for incremental load factor above 60%.

- iii. Applicability of Time of Day (TOD) tariff structure for smart prepaid consumers and Revision in duration for TOD tariff.

DISCOMs have proposed the TOD tariff for all consumer categories for which Prepaid Smart meters are installed and are having Maximum Demand > 10kW (excluding Agriculture consumer) for FY 2025-26. The following TOD charges have been proposed:

Time of Day (Proposed for FY 2025-26)	Demand Charges	Energy Charges
(i) off-peak load Period (09:00 am - 04:00 pm)	Normal Rate	80% Normal rate of energy charges
(i) Evening Peak load Period (04:00 pm - 11:00 pm)	Normal Rate	120% normal rate of energy charges
(iii) Normal Period (11:00 pm - 09:00 am)	Normal Rate	Normal rate of energy charges

- iv. Rationalizing the online payment incentive for each consumer category.

It was submitted that amount of online payment rebate paid to the consumers is being passed on in the Aggregate Revenue Requirement (ARR) and loaded on all the consumers while the major benefit of online payment rebate is availed by large HT consumers only who are very few in numbers. DISCOMs proposed to limit the online payment rebate for HT consumers upto Rs 20,000 or 1% of the billed amount whichever is lower.

- v. Rebate on recharge of Smart Prepaid meter by consumers.

DISCOMs proposed to change the existing rebate of 3% by a rebate of Rs.0.25/kWh on

energy charge for smart prepaid meter consumers for FY 2025-26.

vi. Tariff Rationalization – DS-I (Rural).

Discoms mentioned that the existence of two different slabs under DS-I needs to be removed by merger both the slabs so as to remove disparity and billing related issues. In line with MoP emphasis on tariff rationalization, simplification of tariff and providing clarity to the consumers, it is proposed by Discoms to keep single slab (with lower tariff) as against the two existing slabs for DS-I Rural category for FY 2025-26.

vii. Relaxation in Penalty provision for Smart Prepaid meter consumers. Discoms mentioned that the Commission had issued the Bihar Electricity Supply Code (7th Amendment), 2023 wherein consumers were provided with a period of six months post installation of smart meter to get attuned to this system without levying any penalty in case their actual drawl exceeds beyond contracted demand. Further, it was mentioned that DISCOMs have also prayed in a separate petition (case no. 32/2024) that Consumers may be provided a period of six month or till 31st March 2026, whichever is later, post installation of smart meter, to get attuned to this system without levying any penalties in case the actual demand exceeds the opted demand for smart meter consumer. The same request is included in the tariff Petition also.

viii. Non-applicability of Power factor surcharge for Agricultural and NDS category.

Discoms mentioned that for smooth implementation of Smart Pre-paid meters, non-applicability of Power Factor surcharge to Agricultural and NDS consumer categories is essential (during the initial phase of PSM roll-out) and there are several instances wherein Agricultural and NDS consumer categories are protesting due to levying of Power factor surcharge. Hence, DISCOMs requested that PF surcharge may not be applicable to the Agricultural and NDS consumer categories for FY 2025-26.

ix. Additional benefit on advance payment to consumers for smart prepaid consumers (<20 kW) excluding govt. consumer.

Discoms submitted that the Main objective of this initiative is to provide additional interest benefit to smart prepaid consumers <20 kW (excluding

Government Consumers) & to improve DISCOMs receivables and its financials. The additional benefit to smart prepaid metered consumers (<20 kW), if the consumer maintain their advance payment as proposed is given below:

Sr. No	Particulars	Details
1	Advance Amount \geq Rs 2000 and period minimum three (3) consecutive months	RBI Bank Rate as applicable from time to time (Currently it is 6.75%)
2	Advance Amount \geq Rs 2000 and period > three (3) months & < six (6) consecutive months	RBI Bank Rate as applicable from time to time plus 0.25% i.e. 7.00%
3	Advance Amount \geq Rs 2000 and period > six (6) consecutive months	RBI Bank Rate as applicable from time to time plus 0.50% i.e. 7.25%

x. Introduction of Cold Storage (Exclusively for Storing of Agriculture Products). Cold Storage is being proposed to be added under the LT IAS I metered consumers. This would be applicable till connected load of 75 KW/100 HP. Separate category is being proposed at HT level IAS (11 kV) Cold Storage, which would be applicable from 50 kVA to 1500 kVA of connected load.

6. Resource adequacy

Discoms mentioned that as per Resource Adequacy (RA) Guidelines, Central Electricity Authority (CEA) is entrusted to prepare Long term –National Resource Adequacy Plan (LT-NRAP). Further, Distribution utilities need to carry out LTDRAP (Long term DISCOMs Resource Adequacy Plan) to meet the utility peak and energy requirement reliably. LT-DRAP studies have been carried out of Bihar (up to FY 2033-34) in alignment with the RPO trajectory notified by Ministry of Power and National Resource Adequacy framework. CEA has issued Resource Adequacy framework for Bihar vide letter no. CEA-PL-11-37/14/2024-IRP dated 06th May'24.

The peak demand and energy requirement over the years along with suggested

capacity addition (source-wise) were presented. Based on tied-up capacities and upcoming projects, revised capacity addition requirement under normal and delayed capacity addition scenario was submitted. The major points highlighted are as below:

- The state is dependent primarily on coal-based tie-ups from Central Generating stations for meeting their demand. The current capacity mix in Bihar has 66% of Installed Capacity from fossil fuel sources. This share is likely to decrease to as low as 25% by 2033-34.
- The state has sufficiently surplus coal-based capacity planned so as to meet the projected future demand. Bihar is Unlikely to witness energy deficit throughout the period of study i.e. from 2023-24 to 2033-34 with the existing and planned capacity addition. However, Bihar is in deficit in fulfilment of its Renewable Purchase Obligation (RPO) as per the MoP notification dated 20th October 2023 and needs to contract additional renewable capacities. The projected capacity and generation mix fulfils the RPO obligation.
- Peak demand of the state occurs during July to August. On daily basis, peak demand is observed during night hours (non-solar hours). Variation of the peak and off-peak demand is high throughout the year.
- State is likely to require storage of about 5.56 GW/22.24 GWh by 2033-34 in order to meet the demand during the non-solar hours in peak summer months. State may prioritize DSM (Demand Side Management) policy measures to be able to shift the demand from non-solar to solar hours.
- In case of delay of the RE based capacity, additional coal tie-ups along with year-on-year STOA/MTOA arrangements may be utilized for meeting the anticipated peak demand in the upcoming months.
- PLF of Coal based thermal generating units is expected to reduce from 71% to as low as 52% till 2033-34 to ensure higher absorption of renewable energy.
- In case the coal based expected capacity addition considered by state is

delayed in upcoming years, increased coal based tie-ups is required for the state (from the year 2028-29 onwards).

7. Distribution Transformer level metering status

DISCOMs mentioned that they have awarded work to AMISP for the installation smart DT meter (except agriculture) within the jurisdiction of Discom under RDSS scheme. The said project is scheduled to be completed by April 2025. Current DT metering status is 69% and 63% for NBPDCCL and SBPDCL, respectively. It may be verified from directives also.

8. Pre Paid Smart Meter –

DISCOMs submitted that on request of the consumers, pursuant to verification by DISCOMs, security deposit of Consumers having Smart Prepaid meters is adjusted in their electricity account as credit in the form of recharge or is adjusted against their dues (if any), instead of upfront refund of security deposit. For consumers of R-APDRP area the above arrangement is working successfully whereas for non-RAPRP area the software is also being developed for Smart Prepaid Meter consumer with necessary IT arrangements, in order to facilitate refund of security deposit.

Further, DISCOMs have adopted the recharge mechanism for Prepaid Smart metering system in accordance with the model framework specified by Ministry of Power (Model Contract for Appointment of AMI Service Provider for Smart Prepaid Metering in India on DBFOOT basis).

For connection / disconnection, Discoms mentioned, that when the balance of the prepaid smart meter is less than the average consumption of 7 days, the consumer is first informed through SMS/APP/Automated Call. Such Consumers are informed

multiple times on regular basis before their balance becomes zero.

Even if, the recharge is not done till the fifth day of exhaustion of balance in rural areas and till the third day in urban areas, the electricity is disconnected (only on working days, that too between 10 AM and 1 PM).

Apart from above, prepaid meter consumers of rural areas have been given the facility to consume electricity for 72 hours through use of push button of the meter even if the balance is less than zero. In this way, the consumers of rural areas have the time of 8 days (5+3) available for recharging even after the balance becomes zero. Also, push button facility for urban area consumers shall be launched soon. The electricity supply to such consumers gets connected automatically after recharging.

For smart meter testing, Discoms submitted that post manufacturing, the routine Pre-Dispatch test of each meter is carried out by the meter suppliers. Only after successful testing, the meters are supplied and installed in the consumer's premises. In case there is a need for testing, the prepaid smart meter is sent for testing to MRT lab of Discoms where meter is tested at automatic test bench having NABL calibrated reference meter for this purpose. In case there is need for testing at third party laboratory, meter is sent to third party Government accredited NABL lab for testing, on request of consumers.

9. **Presentation by transmission on Tariff Petitions of BSPTCL, SLDC and BGCL:**

During the meeting, Power Point presentations on the Transmission Tariff Petitions of BSPTCL, SLDC and BGCL were also made.

In the end the Chairman BEREC thanked all the Members and officials present in the meeting for attending and giving valuable suggestions. The Chairman assured the

members that the Commission would consider the suggestions while passing the tariff orders of the Transmission, SLDC and Distribution companies.

The meeting ended with vote of thanks to the Chair.

List of Participants in SAC Meeting

Sl.	Name	Designation	Organization
1.	Shri. Amir Subhani, IAS (Retd.)	Chairman	BERC
2.	Shri. Arun Kumar Sinha	Member	BERC
3.	Shri. Parshuram Singh Yadav	Member	BERC
4.	Shri Raamish Tauseef	Secretary	BERC
5.	Shri. Mahendra Kumar	Managing Director	SBPDCL
6.	Shri Nilesh Deore	Managing Director	NBPDCCL
7.	Shri R.K. Choudhary	Member	SAC
8.	Shri Ashok Kumar Jiwaraika	Advisory Member	SAC
9.	Md. Nasim Egbal	Director (O)	NBPDCCL
10.	Shri Vijay Kumar	Director (O)	SBPDCL
11.	Shri S.K. P Singh	Consultant	BSPHCL
12.	Smt. Kalpana Kumari	Add. Secretary	
13.	Shri Shashi Bhushan Parsad	Adl/Director	UDHD
14.	Shri Sushant Kumar	Add. Secretary	MWRD
15.	Shri KPS Keshri	President	BIA
16.	Shri Subhash Patwari	President	BCCI
17.	Shri A.K.P Sinha		BCCI
18.	Shri Kumar Pushpraj	OSD	BCCI
19.	Shri Arvind Kumar	G.M (Revn.)	SBPDCL
20.	Shri Jayit Ray	G.M (Revn.)	NBPDCCL
21.	Shri Pravin Kumar	Add/ Secretary	Transport Deptt.
22.	Shri Ravi .S. Prasad	ESE(STU)	BSPTCL
23.	Shri Murtaza Helal	C.E/PMC	BSPHCL
24.	Shri Nadeem Ahmad	ESE/PMC	BSPHCL
25.	Shri Sanjiv Chandra Singh	DGM/O&M	BGCL
26.	Shri Prabhat Kumar	G.M/Finance	BGCL
27.	Shri Rajesh Kumar	Sr. G.M (Comml)	BGCL
28.	Shri KR Prasant	C.E(P&E)	BSPTCL
29.	Shri Perwez Alam	C.E/STU	BSPTCL
30.	Shri A.K Chaudhary	C.E/S.O	BSPTCL
31.	Shri Madhaw Kumar Pandit	S.E(Mon)	MWRD
32.	Shri Rohit Rayaw	AEE	SBPDCL
33.	Shri Prachi Gupta	AEE	SLDC
34.	Shri Deepak Kr. Ram	EEE	SLDC
35.	Shri Arvind Kumar	ESE	SLDC
36.	Shri Arvind Tewar		BSPTCL
37.	Shri Purushottam Prasad	C.E/Comml.	SBPDCL
38.	Shri Ravi Shankar	ESE(P&E)	BSPTCL
39.	Shri Surinder Kumar		BREDA
40.	Shri Jayant Kr. Dubey	ESE/Comml.	NBPDCCL
41.	Shri Rajeev Kr. Singh	ESE	BSPGCL
42.	Shri Irshad Akhtar	ESE	SBPDCL
43.	Shri A.K. Singh	Director(O)	BSPTCL
44.	Shri Saurav Srivastava	Sr. Manager	IEX

Public Hearing at Chapra 08.02.2025**Case No. 29/2024 & 33/2024****Appearance on behalf of NBPDC**

1.	Shri J.K Bhanu	Chief Engineer (project)NBPDC
2.	Shri Prabha Shankar	Senior Manager (Revenue) NBPDC
3.	Shri Jayant Kumar Dubey	E.S.E (Comml.) NBPDC
4.	Shri Ajay Kumar Mishra	E.S.E (Revn.)NBPDC
5.	Shri Ritesh Kumar	E.S.E Circle, Chapra
6.	Shri Rahul Kumar	Revenue Officer, (Smart Metering)
7.	Shri Dhiraj Kumar Sinha	EEE/ESD/Division, Chapra
8.	Shri Madan Kumar	EEE/Division, Chapra
9.	Shri Dheeraj sati	AEE/S/Chapra (Urban)
10.	Shri Amarjeet Kumar	AEE/ESD/Baniyapur, Chapra
11.	Shri Prabhat	Chairperson, CGRF Chapra
12.	Shri Amod Prakash	2 nd Member, CGRF Chapra

Appearance on behalf of stakeholder/Public

1.	Shri P.K Agarwal	North Western Bihar Chamber of Commerce & Industries
2.	General Manager	Vishnu Sugar Mills. Ltd. Gopalganj
3.	Shri Ajay Kr. Yadav	Consumer
4.	Shri Satyam Jee	
5.	Shri Umesh Sharma	
6.	Shri Bablu Kumar	
7.	Shri Shailesh Kumar	
8.	Shri Sanjay Sharma	
9.	Shri Sonu Kumar	
10.	Shri Basant Lal Sah	
11.	Shri Sushil Kumar	
12.	Shri Sumit Kumar	
13.	Shri Sanjeev Kumar	
14.	Shri Awadhesh Kumar	
15.	Shri Ramnath Majhi	

16.	Shri Appu Kumar	
17.	Shri Stendera Singh	
18.	Shri Sureshan Singh	
19.	Shri Chanchal Kumar	
20.	Shri Dilip Kumar	
21.	Shri Akshay Singh	
22.	Shri Ajit Kumar Gupta	
23.	Shri Prabhakar Kumar	
24.	Shri S.K Md. Nijam	
25.	Shri Abhi Monu Kumar	
26.	Shri Sujeet Kr. Bhati	
27.	Shri Vikash Kr. Singh	
28.	Shri Satyendra Kumar	
29.	Shri Nagendra Sahani	
30.	Shri Ajit Kr. Gupta	
31.	Shri Shyam Bihari Agrawal	
32.	Shri Brajesh Kumar	
33.	Shri Manoj Kr. Shrivastav	
34.	Shri Vikash Kumar	

Public Hearing at Munger 11.02.2025

Case No. 30/2024 & 34/2024

Appearance on behalf of SBPDCL

1.	Shri Arvind Kumar	G.M (Revenue), SBPDCL
2.	Shri Purushottam Prasad	C.E (Comml.), SBPDCL
3.	Md. Rizwan Ahmad	C.E P(II), SBPDCL
4.	Shri Abhay Kumar	AEE (Comml.), SBPDCL
5.	Shri Pramanand Prasad	Sr. Manager (HR), ESD, Munger
6.	Shri Anand Kr. Sharma	DBA(IT), ESD, Lakhisarai
7.	Shri Deepak Kumar	RDSS, ESD, Munger
8.	Shri Pankaj Kumar	EEE/S/Munger
9.	Shri Sumit Sourav	EEE/Lakhisarai
10.	Shri Anurag Kumar	AEE/EWD/Munger
11.	Shri Shashi Kant	AEE/ESSD/Kharagpur
12.	Shri Rishikesh Gupta	AEE/Munger
13.	Shri Amit Kumar	AEE/Munger
14.	Shri Dileep Kumar	AEE/Jamalpur
15.	Shri Shaukat Ali Jauhar	AEE (Revenue)/Munger
16.	Shri Shivnandan Kumar	Circle Incharge/Rdss Project
17.	Shri Manoj Kumar	JEE/Rev./Tarapur
18.	Shri Ankit Kumar Sharma	JEE/Rev./AITM
19.	Shri Naval Kishore	IT Manager, ESD/Munger
20.	Kumar DEO	Sr. Consultant(PWC)

Appearance on behalf of stakeholder/Public

1	Shri Vinod Podaar	Chamber of Commerce, Munger
2	Shri Sharan Kumar	
3	Shri Dinesh Kumar Singh	
4	Shri Ashok Kumar Soni	
5	Shri Anuranjan Kumar	
6	Shri Ashok Sitaria	
7	Shri Basudeo Puri	Chamber of Commerce, Jamalpur
8	Shri Sandeep SinghGandhi	
9	Shri Girdhar Sanghai	
10	Shri Shivnandan Kumar	Medhaj Techno Solution
11	Shri Vineet Kumar	CREDAI
12	Shri Nitesh Sontholie	BIA
13	Shri Sanjay Keshry	ASA Party
14	Shri Bibhash Chandra Roy	Teacher Association, Munger

15	Shri Mukesh Kr. Kar	ITC Ltd. (Dairy Plant)
16	Shri Niraj Mani	
17	Shri Nitish Kumar	Intellismart Infrastructure Pvt. Ltd., Munger
18	Shri Randhir Kumar	
19	Shri Ajit Kumar	
20	Shri Dhananjay Kumar	
21	Shri Dharmandra Kr. Gaur	
22	Shri Keshari Nandan	Consumer
23	Shri Binod Kumar	
24	Shri Ravi Shankar Prasad	
25	Shri Shrikant Kumar Yadav	
26	Md. Shamis Javed	
27	Shri Rakesh Kumar	
28	Shri Ashish Kumar	
29	Shri Vibahakar Singh	
30	Shri Shivnandan Kumar	

Public Hearing at Darbhanga 13.02.2025**Case No. 29/2024 & 33/2024****Appearance on behalf of NBPDC**

1.	Shri Jayant Kumar Dubey	E.S.E (Comml.) NBPDC
2.	Shri Ajay Kumar Mishra	E.S.E (Revn.), NBPDC
3.	Md. Nazmul Hasan Ansari	E.E.E, NBPDC
4.	Shri Rahul Kumar	Revenue Officer
5.	Shri Chintoo Panday	AEE, NBPDC
6.	Shri Vishal Kumar	AEE (Revn.), NBPDC
7.	Shri Rahul Kumar	EEE/MRT
8.	Shri Manoj Kumar Rajan	EEE/ESD/Jainagar
9.	Shri Ramesh Kumar	EEE/S/Jhanjharpur
10.	Shri Chandan Kumar	AEE/ESD/Bahadurpur
11.	Shri Rakesh Ranjan	AEE/Darbhanga
12.	Shri Binod Kumar	Chairperson, CGRF Darbhanga
13.	Shri Manoj Kumar	2 nd Member, CGRF Darbhanga
14.	Shri Vikas Kr. Gupta	3 rd Member, CGRF Darbhanga

Appearance on behalf of stakeholder/Public

1.	Shri Binod Kumar	Chamber of Commerce Darbhanga
2.	Shri Dilip Kr. Chaudhary	Sidharth Enterprise & New Mamta Engeenigazi
3.	Shri Manmohan	Divisional Chamber of Commerce & Industries
4.	Shri Sushil Kumar Jain	
5.	Shri Pawan Kumar Sureka	
6.	Shri Arun Kumar	Unique Foods, Muzaffarpur
7.	Shri Mukesh Kr. Singh	Consumer
8.	Shri Bablu Gupta	
9.	Shri Chandramoly Kumar	
10.	Shri Rajesh Kr. Jha	
11.	Shri Amit Kumar	

Public Hearing at Jehanabad 15.02.2025**Case No. 30/2024 & 34/2024****Appearance on behalf of SBPDCL**

1.	Shri Arvind Kumar	G.M (Revenue), SBPDCL
2.	Shri Purushottam Prasad	C.E (Comml.), SBPDCL
3.	Shri Brajesh Kushwaha	Project Manager
4.	Shri Irshad Akhtar	ESE (Comml.), SBPDCL
5.	Shri Prakash Kumar	EEE (Project-I, Urban)
6.	Shri Abhay Kumar	AEE (Comml.), SBPDCL
7.	Shri Mahesh Kumar	AEE (Revenue), SBPDCL
8.	Kumar DEO	Sr. Consultant(PWC)
<u>Appearance on behalf of stakeholder/Public</u>		
1.	Shri Manoj Kumar Singh	Rose rise Industries, Jehanabad
2.	Shri Raghbendra Kumar	Indian Group of Industries
3.	Shri Yogindra Kumar Mishra	Vidyut Consumer Sanghars Samiti, Gaya
4.	Shri Uttam keshri	Palan-G Industries Pvt. Ltd.
5.	Shri Kailash Todder	khatu Shyam Poly Plast Ind
6.	Md. Rijwan Alam	Bombay Bazaar
7.	Shri Sonu Kumar	Consumer
8.	Shri Akash Kumar	
9.	Shri Rahul Kumar	
10.	Shri Arvind Kumar	
11.	Shri Ajay Kumar	
12.	Shri Mitilesh Kumar	
13.	Shri Rajkishore Singh	
14.	Shri Sanjeet Kumar	
15.	Shri Praveen Kr. Sharma	
16.	Shri Manish Kumar	
17.	Shri Rajesh Prasad	
18.	Shri Gajendra Kumar	
19.	Shri Narendra Prasad	
20.	Shri Bindu Bhushan Prasad	

Annexure 7.1

Revenue from Sale of Power FY 2025-26 - NBPDC (Approved Tariff)													
Sr. No	Category of Consumers	Tariff Schedule				Approved Data							
		Fixed/Dem and Charge (Rs)	Unit	Energy Charge (Rs)	Unit	Sales (MUs)	No of Consumers	Connected Load (kW/kVA/HP)	Fixed Charges (Rs Crores)	Energy Charges (Rs Crores)	Others (Rs Crores)	Total (Rs Crores)	ABR (Rs/kWh)
1	Domestic					9,468.00	1,18,09,188	98,97,640	651.49	7077.87	0.00	7729.37	8.16
A	Kutir Jyoti					2,638.64	43,97,735	10,99,434	105.55	1957.87	0.00	2063.42	7.82
i	Unmetered (Now Metered)	20.00	Connection /Month	7.42		-	-	-	0.00	0.00		0.00	-
ii	Metered 0-50	20.00	Connection /Month	7.42	kWh	2,638.64	43,97,735	10,99,434	105.55	1957.87		2063.42	7.82
B	DS I Rural					4,850.24	59,37,324	62,22,470	298.68	3598.88	0.00	3897.56	8.04
i	Metered (Now Demand Based)					-	-	62,22,470	298.68	3598.88	0.00	3897.56	-
a	First 50 Units	40.00	kW/Month	7.42	kWh	3,630.63	-	34,73,670	166.74	2693.93		2860.66	7.88
b	Above 50 Units	40.00	kW/Month	7.42	kWh	1,219.61	-	27,48,800	131.94	904.95		1036.89	8.50
C	DS II Demand Based					1,978.71	14,74,032	25,75,150	247.21	1520.75	0.00	1767.97	8.93
i	First 100 Units	80.00	kW/Month	7.42	kWh	1,635.24	-	17,70,177	169.94	1213.35		1383.29	8.46
ii	Above 100 Units	80.00	kW/Month	8.95	kWh	343.47	-	8,04,973	77.28	307.40		384.68	11.20
D	DS III	80.00	kW/Month	9.03		0.41	97	586	0.06	0.37		0.43	10.40
2	Non_Domestic Service					2,130.74	10,62,208	21,63,579	550.89	1885.74	0.00	2436.64	11.44
A	NDS I - Metered Now Demand					897.16	6,36,912	9,83,122	78.65	784.01	0.00	862.66	9.62

Revenue from Sale of Power FY 2025-26 - NBPDC (Approved Tariff)													
Sr. No	Category of Consumers	Tariff Schedule				Approved Data							
		Fixed/Dem and Charge (Rs)	Unit	Energy Charge (Rs)	Unit	Sales (MUs)	No of Consumers	Connected Load (kW/kVA/HP)	Fixed Charges (Rs Crores)	Energy Charges (Rs Crores)	Others (Rs Crores)	Total (Rs Crores)	ABR (Rs/kWh)
	Based												
i	First 100 Units	60.00	kVA/Month	7.79	kVAh	737.06	-	8,07,690	64.62	637.97		702.59	9.53
ii	Above 100 Units	60.00	kVA/Month	8.21	kVAh	160.09	-	1,75,432	14.03	146.04		160.07	10.00
B	NDS II - Demand Based					1,233.59	4,25,296	11,80,457	472.24	1101.73	0.00	1573.98	12.76
i	Contract Demand <0.5 kW	200.00	Connection /Month	7.73	kWh	1.81	2,676	1,453	0.64	1.40		2.04	11.28
ii	Contract Demand >0.5 kW					1,231.77	4,22,620	11,79,004	471.60	1100.33	0.00	1571.93	12.76
a	First 100 Units	300.00	kVA/Month	7.73	kVAh	913.96	-	8,74,808	349.92	784.99		1134.92	12.42
b	Above 100 Units	300.00	kVA/Month	8.93	kVAh	317.81	-	3,04,196	121.68	315.34		437.02	13.75
						-	-	-					
3	Street Light Services					102.41	3,147	32,868	140.90	17.98	0.00	158.88	15.51
A	SS Metered	100.00	kW/Month	9.03	kWh	19.91	812	5,366	0.64	17.98		18.62	9.35
B	SS Unmetered	4250.00	kW/Month	0.00	kWh	82.50	2,335	27,501	140.26	0.00		140.26	17.00
						-	-	-					
4	Irrigation & Allied Services					2,013.30	3,18,111	6,72,902	201.91	1362.39	0.00	1564.30	7.77
A	IAS I					1,859.27	3,11,071	6,12,769	161.82	1239.69	0.00	1401.50	7.54

Revenue from Sale of Power FY 2025-26 - NBPDC (Approved Tariff)													
Sr. No	Category of Consumers	Tariff Schedule				Approved Data							
		Fixed/Dem and Charge (Rs)	Unit	Energy Charge (Rs)	Unit	Sales (MUs)	No of Consumers	Connected Load (kW/kVA/HP)	Fixed Charges (Rs Crores)	Energy Charges (Rs Crores)	Others (Rs Crores)	Total (Rs Crores)	ABR (Rs/kWh)
i	Unmetered	1350.00	HP/Month	0.00	kWh	19.97	13,792	31,423	68.27	0.00		68.27	34.18
ii	Metered	100.00	HP/Month	6.74	kWh	1,839.30	2,97,279	5,81,346	93.55	1239.69		1333.24	7.25
B	IAS II					154.03	7,040	60,133	40.09	122.71	0.00	162.80	10.57
i	Metered (Now Demand Based)	500.00	kVA/Month	7.17	kVAh	154.03	7,040	60,133	40.09	122.71		162.80	10.57
						-	-	-					
5	Public Service Connections					594.51	73,334	1,99,869	54.60	495.96	0.00	550.55	9.26
A	Public Water Works	630.00	kVA/Month	9.72	kVAh	41.03	2,127	33,035	27.75	44.32		72.07	17.56
B	Har Ghar Nal	100.00	HP/Month	8.16	kWh	553.48	71,207	1,66,834	26.85	451.64		478.49	8.65
						-	-	-					
6	Low Tension Industrial Services					527.80	1,05,482	9,80,269	386.45	456.84	0.00	843.29	15.98
A	LTIS I (0-19 kW)	288.00	kVA/Month	7.79	kVAh	479.34	1,03,239	8,75,839	336.32	414.90		751.22	15.67
B	LTIS II (>19 kW - 74 kW)	360.00	kVA/Month	7.79	kVAh	48.46	2,243	1,04,430	50.13	41.94		92.07	19.00
						-	-	-					
7	LT Electric Vehicle Charging Station	0.00		8.72	kVAh	16.09	110	1,881	0.00	15.59		15.59	9.69
						-	-	-					
8	HT-General					1,127.97	1,868	6,00,400	443.55	983.91		1427.46	12.66
A	HTS (General)- I (11 kV)	550.00	kVA/Month	7.98	kVAh	684.60	1,773	3,88,109	284.61	607.01		891.63	13.02
B	HTS (General)- II (33 kV)	550.00	kVA/Month	7.92	kVAh	289.47	88	1,20,143	88.11	254.74		342.84	11.84

Revenue from Sale of Power FY 2025-26 - NBPDCCL (Approved Tariff)													
Sr. No	Category of Consumers	Tariff Schedule				Approved Data							
		Fixed/Dem and Charge (Rs)	Unit	Energy Charge (Rs)	Unit	Sales (MUs)	No of Consumers	Connected Load (kW/kVA/HP)	Fixed Charges (Rs Crores)	Energy Charges (Rs Crores)	Others (Rs Crores)	Total (Rs Crores)	ABR (Rs/kWh)
C	HTS (General)- III (132 kV)	550.00	kVA/Month	7.85	kVAh	116.56	6	69,363	50.87	101.67		152.53	13.09
D	HTS (General)- IV (220 kV)	550.00	kVA/Month	7.79	kVAh	-	1	13,005	9.54	0.00		9.54	-
	HTS (General)- V (400 kV)	550.00	kVA/Month	7.72		-	-	-	0.00	0.00			
E	HTSS – (33 kV/11 kV)	800.00	kVA/Month	4.94	kVAh	37.33	3	9,780	10.43	20.49		30.92	8.28
						-	-	-					
9.00	HT-Industrial Services					19.00	11	6,916	5.19	16.71	0.00	21.90	11.53
A	HTIS (Industrial) – I (11 kV)	550.00	kVA/Month	7.98	kVAh	6.94	3	2,021	1.48	6.15		7.64	11.00
B	HTIS (Industrial)– II (33 kV)	550.00	kVA/Month	7.92	kVAh	11.85	4	4,697	3.44	10.43		13.87	11.71
C	HTIS (Industrial) – III (132 kV)	550.00	kVA/Month	7.85	kVAh	-	-	-	0.00	0.00		0.00	-
D	HTIS (Industries)-IV (220 kV)	550.00	kVA/Month	7.79	kVAh	-	-	-	0.00	0.00		0.00	-
	HTIS (Industries)-V (400 kV)	550.00	kVA/Month	7.72		-	-	-	0.00	0.00			
E	HTIS (Oxygen Manufacturers)- 11 KV	1000.00	kVA/Month	5.43	kVAh	0.21	1	198	0.26	0.12		0.39	18.83
F	HTIS (Oxygen Manufacturers)- 33 KV	1000.00	kVA/Month	5.37	kVAh	-	-	-	0.00	0.00		0.00	-
						-	-	-					
8	Railway Traction Services					129.58	8	63,654	45.83	117.48	0.00	163.31	12.60
A	RTS	540.00	kVA/Month	8.16	kVAh	129.58	8	63,654	45.83	117.48		163.31	12.60
						-	-	-					

Revenue from Sale of Power FY 2025-26 - NBDCL (Approved Tariff)													
Sr. No	Category of Consumers	Tariff Schedule				Approved Data							
		Fixed/Dem and Charge (Rs)	Unit	Energy Charge (Rs)	Unit	Sales (MUs)	No of Consumers	Connected Load (kW/kVA/HP)	Fixed Charges (Rs Crores)	Energy Charges (Rs Crores)	Others (Rs Crores)	Total (Rs Crores)	ABR (Rs/kWh)
9	Nepal			8.10	kVAh	160.00	-	-	0.00	144.00		144.00	9.00
A	Nepal	0.00		8.10	kVAh	160.00	-	-	0.00	144.00		144.00	9.00
						-	-	-					
10	DF					-	-	-					
						-	-	-					
11	HT Electric Vehicle Charging Stations.			7.85	kVAh	-	-	-	0.00	0.00		0.00	-
10	Total					16,129.40	1,33,73,467	1,46,19,978	2480.81	12574.47		15055.29	9.33

Annexure 7.2

Revenue from Sale of Power FY 2025-26 - SBPDCL (Approved tariff)													
Sr. No	Category of Consumers	Tariff Schedule				Approved Data							
		Fixed/Dem and Charge (Rs)	Unit	Energy Charge (Rs)	Unit	Sales (MUs)	No of Consumers	Connected Load (kW/kVA/HP)	Fixed Charges (Rs Crores)	Energy Charges (Rs Crores)	Others (Rs Crores)	Total (Rs Crores)	ABR (Rs/k Wh)
1	Domestic					8,381.56	66,14,885	86,11,217	654.65	6505.79	0.00	7160.43	8.54
A	Kutir Jyoti					947.55	15,79,252	3,94,813	37.90	703.08	0.00	740.99	7.82
i	Unmetered (Now Metered)	20.00	Connection /Month	7.42		-	-	-	0.00	0.00		0.00	-
ii	Metered 0-50	20.00	Connection /Month	7.42	kWh	947.55	15,79,252	3,94,813	37.90	703.08		740.99	7.82
B	DS I Rural					4,080.55	33,42,598	35,83,936	172.03	3027.77	0.00	3199.80	7.84
i	Metered (Now Demand Based)					4,080.55	-	35,83,936	172.03	3027.77	0.00	3199.80	7.84
a	First 50 Units	40.00	kW/Month	7.42	kWh	1,964.46	-	14,12,910	67.82	1457.63		1525.45	7.77
b	Above 50 Units	40.00	kW/Month	7.42	kWh	2,116.09	-	21,71,026	104.21	1570.14		1674.35	7.91
C	DS II Demand Based					3,353.18	16,92,872	46,32,086	444.68	2774.68	0.00	3219.36	9.60
i	First 100 Units	80.00	kW/Month	7.42	kWh	1,479.83	-	20,44,237	196.25	1098.03		1294.28	8.75
ii	Above 100 Units	80.00	kW/Month	8.95	kWh	1,873.35	-	25,87,849	248.43	1676.65		1925.08	10.28
D	DS III	80.00	kW/Month	9.03		0.28	163	382	0.04	0.25		0.29	10.36
2	Non_Domestic Service					1,951.92	7,40,832	21,06,185	684.39	1847.35	0.00	2531.74	12.97
A	NDS I - Metered Now Demand Based					495.21	2,80,832	4,94,096	39.53	443.67	0.00	483.20	9.76
i	First 100 Units	60.00	kVA/Month	7.79	kVAh	172.93	-	1,72,539	13.80	149.68		163.48	9.45
ii	Above 100 Units	60.00	kVA/Month	8.21	kVAh	322.28	-	3,21,557	25.72	293.99		319.72	9.92
B	NDS II - Demand Based					1,456.71	4,60,000	16,12,088	644.86	1403.67	0.00	2048.54	14.06
i	Contract Demand <0.5 kW	200.00	Connection /Month	7.73	kWh	6.73	11,466	6,809	2.75	5.20		7.96	11.82
ii	Contract Demand >0.5 kW					1,449.98	4,48,534	16,05,280	642.11	1398.47	0.00	2040.58	14.07

a	First 100 Units	300.00	kVA/Month	7.73	kVAh	301.72	-	3,34,033	133.61	259.14		392.75	13.02
b	Above 100 Units	300.00	kVA/Month	8.93	kVAh	1,148.26	-	12,71,247	508.50	1139.33		1647.83	14.35
						-	-	-					
3	Street Light Services					164.47	2,795	40,975	142.32	73.79	0.00	216.11	13.14
A	SS Metered	100.00	kW/Month	9.03	kWh	81.72	1,355	13,384	1.61	73.79		75.40	9.23
B	SS Unmetered	4250.00	kW/Month	0.00	kWh	82.75	1,440	27,591	140.71	0.00		140.71	17.00
						-	-	-					
4	Irrigation & Allied Services					5,310.71	5,10,056	10,13,892	1059.81	2832.33	0.00	3892.14	7.33
A	IAS I					4,923.92	5,04,929	9,68,618	1029.63	2524.19	0.00	3553.82	7.22
i	Unmetered	1350.00	HP/Month	0.00	kWh	1,178.83	2,08,329	4,34,373	943.66	0.00		943.66	8.01
ii	Metered	100.00	HP/Month	6.74	kWh	3,745.09	2,96,600	5,34,245	85.97	2524.19		2610.16	6.97
B	IAS II					386.79	5,127	45,274	30.18	308.14	0.00	338.32	8.75
i	Metered (Now Demand Based)	500.00	kVA/Month	7.17	kVAh	386.79	5,127	45,274	30.18	308.14		338.32	8.75
						-	-	-					
5	Public Service Connections					551.21	38,025	1,39,741	58.79	492.28	0.00	551.07	10.00
A	Public Water Works	630.00	kVA/Mont h	9.72	kVAh	160.95	3,497	53,463	44.91	173.82		218.73	13.59
B	Har Ghar Nal	100.00	HP/Month	8.16	kWh	390.27	34,528	86,279	13.88	318.46		332.34	8.52
						-	-	-					
6	Low Tension Industrial Services					603.60	1,05,243	11,56,172	478.52	522.45	0.00	1000.96	16.58
A	LTIS I (0-19 kW)	288.00	kVA/Mont h	7.79	kVAh	373.50	98,392	7,96,318	305.79	323.28		629.07	16.84
B	LTIS II (>19 kW - 74 kW)	360.00	kVA/Mont h	7.79	kVAh	230.10	6,851	3,59,854	172.73	199.16		371.89	16.16
						-	-	-					
7	LT Electric Vehicle Charging Station	0.00		8.72	kVAh	7.05	534	3,970	0.00	6.83		6.83	9.69
						-	-	-					
8	HT-General					2,849.24	3,101	12,14,553	936.62	2245.24		3181.86	11.17
A	HTS (General)- I (11 kV)	550.00	kVA/Mont h	7.98	kVAh	1,010.06	2,847	6,50,750	477.22	895.59		1372.80	13.59
B	HTS (General)- II (33 kV)	550.00	kVA/Mont h	7.92	kVAh	749.05	236	3,47,412	254.77	659.17		913.94	12.20
C	HTS (General)- III (132 kV)	550.00	kVA/Mont	7.85	kVAh	284.92	5	78,550	57.60	248.51		306.12	10.74

			h										
D	HTS (General)- IV (220 kV)	550.00	kVA/Mont h	7.79	kVAh	-	-	-	0.00	0.00		0.00	-
	HTS (General)- V (400 kV)	550.00	kVA/Mont h	7.72		-	-	-	0.00	0.00			
E	HTSS – (33 kV/11 kV)	800.00	kVA/Mont h	4.94	kVAh	805.21	13	1,37,842	147.03	441.97		589.00	7.31
						-	-	-					
9	HT-Industrial Services					6.61	33	7,003	9.34	3.99	0.00	13.32	20.16
A	HTIS (Industrial) – I (11 kV)	550.00	kVA/Mont h	7.98	kVAh	-	-	-	0.00	0.00		0.00	-
B	HTIS (Industrial)– II (33 kV)	550.00	kVA/Mont h	7.92	kVAh	-	-	-	0.00	0.00		0.00	-
C	HTIS (Industrial) – III (132 kV)	550.00	kVA/Mont h	7.85	kVAh	-	-	-	0.00	0.00		0.00	-
D	HTIS (Industries)-IV (220 kV)	550.00	kVA/Mont h	7.79	kVAh	-	-	-	0.00	0.00		0.00	-
	HTIS (Industries)-V (400 kV)	550.00	kVA/Mont h	7.72		-	-	-	0.00	0.00			
E	HTIS (Oxygen Manufacturers)- 11 KV	1000.00	kVA/Mont h	5.43	kVAh	6.61	33	7,003	9.34	3.99		13.32	20.16
F	HTIS (Oxygen Manufacturers)- 33 KV	1000.00	kVA/Mont h	5.37	kVAh	-	-	-	0.00	0.00		0.00	-
						-	-	-					
8	Railway Traction Services					310.19	10	1,06,620	76.77	281.23	0.00	358.00	11.54
A	RTS	540.00	kVA/Mont h	8.16	kVAh	310.19	10	1,06,620	76.77	281.23		358.00	11.54
						-	-	-					
10	Total					20,136.55	80,15,514	1,44,00,328	4101.20	14811.27		18912.47	9.39