



Bihar State Power Transmission Company Limited (BSPTCL)

Petition

For

**Truing up for FY 2022-23,
Annual Performance Review for FY 2023-24,
Aggregate Revenue Requirement (ARR)
&
Transmission Charges for FY 2024-25**

Submitted to

Bihar Electricity Regulatory Commission

Submitted By,

**Bihar State Power Transmission Company Limited (BSPTCL)
4th Floor, Vidyut Bhawan - I,
Jawaharlal Nehru Marg,
Patna - 800 021**

13th November 2023



Before the Hon'ble Bihar Electricity Regulatory Commission,
Patna, Bihar

Filing No.:

Case No.:

IN THE MATTER OF:

Filing of the Petition for approval of True-up of FY 2022-23, Annual Performance Review (APR) for FY 2023-24 and Aggregate Revenue Requirement (ARR) for the FY 2024-25, and Tariff for FY 2024-25 under BERC (Multi-Year Transmission Tariff and SLDC Charges) Regulations, 2021 along with the other guidelines and directions issued by the Hon'ble BERC from time to time and under Sections 45, 46, 47, 61, 62, 64 and 86 of the Electricity Act, 2003 read with the relevant guidelines.

AND

IN THE MATTER OF THE APPLICANT

Bihar State Power Transmission Company Limited (herein after referred to as 'BSPTCL' or 'The Petitioner'), which shall mean for the purpose of this Petition the Licensee, having its registered office at Vidyut Bhawan -I, Jawaharlal Nehru Marg, Patna - 800 021.



The Petitioner respectfully submits as under:

1. Bihar State Power Company Limited (herein after referred to as “BSPTCL” or “Petitioner”) is responsible to build, maintain and operate an efficient, co-ordinated and economical intra-State transmission system for smooth flow of electricity from a generating station to the load centres under section 39 of the Electricity Act, 2003.
2. Pursuant to the enactment of Electricity Act, 2003, Bihar State Power Transmission Company Limited is filing this Petition, under Sections 61, 62 and 64 of the Electricity Act, 2003 and the governing Regulations thereof, for approval of True-up of FY 2022-23, Annual Performance Review (APR) for FY 2023-24, Aggregate Revenue Requirement (ARR) & Transmission Tariff Petition for FY 2024-25.
3. The Multi-Year Tariff (MYT) Petition for the Control Period from FY 2013-14 to FY 2015-16 was filed by BSPHCL on behalf of all successor Companies on 14th November 2012 and accordingly, the Hon’ble Commission had issued common Order for all entities (Tariff Order dated 15th March 2013).
4. Thereafter, BSPTCL has been filing separate Tariff Petition for subsequent years. Following is the list of Tariff Petitions filed by BSPTCL and the corresponding Tariff Orders issued by the Hon’ble Commission till date.

Particulars	Petition filed on	Tariff Order issued on
Petition for APR for FY 2013-14 and Revised ARR for FY 2014-15	14 th November 2013	28 th February 2014
True-up for FY 2013-14, APR for FY 2014-15, Revised ARR for FY 2015-16	3 rd December 2014	12 th March 2015
True-up for FY 2014-15, APR for FY 2015-16 and approval of ARR for the period FY 2016-17 and Determination of Multi-Year Transmission Tariff for FY 2016-17, 2017-18 and 2018-19	28 th December 2015	21 st March 2016
True-up for FY 2015-16, APR for FY 2016-17 and Determination of ARR and Tariff for FY 2017-18	30 th November 2016	9 th March 2017
True-up for FY 2016-17, APR for FY 2017-18 and Determination of ARR and Tariff for FY 2018-19	24 th November 2017	24 th April 2018



Particulars	Petition filed on	Tariff Order issued on
True-up for FY 2017-18, APR for FY 2018-19 and approval of ARR for the Multi-Year Tariff period from FY 2019-20 to FY 2021-22 and Determination of Transmission Tariff for FY 2019-20	30 th November 2018	15 th February 2019
True-up for FY 2018-19, APR for FY 2019-20 and approval of ARR and Tariff for FY 2020-21	15 th November 2019	20 th March 2020
True-up for FY 2019-20, APR for FY 2020-21 and approval of ARR and Tariff for FY 2021-22	24 th December 2020	19 th March 2021
True-up for FY 2020-21, APR for FY 2021-22 and approval of ARR for the Multi-Year Tariff period from FY 2022-23 to FY 2024-25 and Determination of Transmission Tariff for FY 2022-23	14 th December 2021	25 th March 2022
True-up for FY 2021-22, APR for FY 2022-23 and approval of ARR and Tariff for FY 2023-24	15 th November 2022	21 st March 2023

5. BSPTCL has filed appeals before the Hon'ble APTEL against certain Tariff Orders issued by the Hon'ble Commission. Following is the list of appeals pending before Hon'ble APTEL:

Appeal No.	Appeal Against Tariff Order dated	Date of Filing	Current Status
APL 383/2019	The Appellant has filed the Appeal under Section 111 of EA 2003 praying for the modification of Tariff Order dated 07.03.2018 drawn on the grounds of the appeal and setting aside of impugned Order dated 20.11.2018 passed in Review Petition No. 15 of 2018.	12.02.2019	Matter was heard on 18.10.2022
APL 59/2022	The Appellant, in the Appeal, has challenged the legality, validity and propriety of the impugned Tariff Order dated 15.02.2019 in Case No. 51	14.10.2019	Matter was heard on 15.07.2022



Appeal No.	Appeal Against Tariff Order dated	Date of Filing	Current Status
	of 2018 and impugned Order dated 25.07.2019 passed in Review Case No. 12 of 2019.		

6. It is submitted that in case the Judgment of the Hon'ble APTEL in the above-mentioned Appeals is in favour of BSPTCL, the Hon'ble Commission may kindly provide the impact of the desired relief on all the issues raised by BSPTCL in these Appeals, entirely for previous Control Period (i.e., FY 2016-17, FY 2017-18, FY 2018-19) where the same Regulations were applicable, along with carrying cost in subsequent Tariff Order(s).
7. BSPTCL has filed a Review Petition No 20 of 2022 against the Tariff Order Dt. 21st March 2023 issued by the Hon'ble Commission.
8. It is submitted that in case the order of the Hon'ble Commission in the above-mentioned Review Petition is in favour of BSPTCL, the Hon'ble Commission may kindly provide the impact of the desired relief on all the issues raised by BSPTCL in the petition along with carrying cost in subsequent Tariff Order(s).
9. It is further submitted that in the instant petition, BSPTCL has considered the norms for calculation of O&M in line with the BERC (Multi-Year Transmission Tariff and SLDC charges) Regulation, 2021 and further revised norms as approved in the Tariff Order dated 21st March 2023.
10. This present petition being filed by the BSPTCL has been prepared in accordance with the provisions of BERC (Multi-Year Transmission Tariff and SLDC charges) Regulation, 2021 along with the other guidelines and directions issued by the Hon'ble Commission from time to time and under Sections 61, 62 and 64, of the Electricity Act 2003 read with relevant guidelines as amended from time to time by the Hon'ble BERC for approval of:
 - Truing-up of FY 2022-23
 - Annual Performance Review of FY 2023-24
 - Aggregate Revenue Requirement of FY 2024-25 and
 - Transmission Charges for the FY 2024-25
11. The regulatory formats with data and information to the extent applicable is being submitted along with this petition and the petitioner would make available any further information/additional data required by the Hon'ble Commission during the course of the proceedings.



12. In order to align the thoughts and principles behind the petition of ARR and Tariff Proposal, BSPTCL respectfully seeks an opportunity to present their case prior to the approval of the same. BSPTCL believes that such an approach would go a long way towards providing a fair treatment to all the stakeholders and may eliminate the need for a review or clarification.

13. BSPTCL may also be permitted to propose suitable changes to the petition and the mechanism of meeting the revenue requirement on further analysis, prior to the final approval by the Hon'ble Commission.



14. In view of the above, BSPTCL respectfully prays that the Hon'ble Commission may be pleased to consider and approve the following:
- Admit this Petition;
 - Examine the proposal submitted by the Petitioner in the enclosed Petition for a favourable dispensation;
 - Pass suitable Orders with respect to the True-up of ARR for FY 2022-23, APR for FY 2023-24, ARR and Tariff Proposal for FY 2024-25 according to applicable provisions under BERC (Multi-Year Transmission Tariff and SLDC Charges) Regulations, 2021;
 - Approve Open Access Charges in Tariff Order of BSPTCL which is to be recovered from open access consumers.
 - Permit to propose suitable changes to the respective True-up/APR/ARRs, prior to the final approval by the Hon'ble Commission;
 - Condone any inadvertent omission/errors/short comings and permit the petitioner to add/change/modify/alter this filing and make further submissions as may be required at a future date;
 - Pass desired impact of issues raised by BSPTCL in appeals & review along with carrying cost in ensuing Tariff Order in case the appeals & review are ruled in favour of BSPTCL;
 - Pass such Order as the Hon'ble Commission may deem fit and appropriate keeping in view the facts and circumstances of the case.

Bihar State Power Transmission Company Limited (BSPTCL)
Patna, Bihar

Dated: _____ November 2023.

Perwez Alam.
Chief Engineer (STU)
Bihar State Power Transmission Company Limited



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LIST OF ABBREVIATIONS

ADB	Asian Development Bank
A&G	Administrative & General
APR	Annual Performance Review
ARR	Aggregate Revenue Requirement
ATC	Annual Transmission Charges
BERC	Bihar Electricity Regulatory Commission
BRGF	Backward Regions Grant Fund
BSEB	Bihar State Electricity Board
BSPHCL	Bihar State Power (Holding) Company Limited
BSPTCL	Bihar State Power Transmission Company Limited
CAGR	Compounded Aggregate Growth Rate
CEA	Central Electricity Authority
CPI	Consumer Price Index
CWIP	Capital Work in Progress
EA	Electricity Act
FY	Financial Year
GFA	Gross Fixed Asset
GoB	Government of Bihar
GSS	Grid Sub-station
IDC	Interest During Construction
IRF	Internal Resource Fund
IoWC	Interest on Working Capital
kV	kilo Volt
MAT	Minimum Alternate Tax
MCLR	Marginal Cost of Funds based Lending Rate
MU	Million Units
MVA	Mega Volt Ampere
MW	Mega Watt
MYT	Multi Year Tariff
NBPDCL	North Bihar Power Distribution Company Limited
O&M	Operation & Maintenance
PSDF	Power System Development Fund
R&M	Repair & Maintenance
RoE	Return on Equity
SBPDCL	South Bihar Power Distribution Company Limited
SLDC	State Load Despatch Centre



SBI	State Bank of India
STOA	Short Term Open Access
STU	State Transmission Utility
TAF	Transmission Availability Factor
TSU	Transmission System User
WPI	Wholesale Price Index



(1) Introduction

1.1 Historical Background of Bihar State Power Transmission Company Limited (BSPTCL)

The erstwhile Bihar State Electricity Board (hereinafter referred to as 'Board' or 'BSEB') was originally constituted on 1st April 1958 under Section 5 of the Electricity (Supply) Act, 1948 and was engaged in the management of electricity generation, transmission, distribution, and related activities in the State of Bihar.

Under the 'Bihar State Electricity Reforms Transfer Scheme, 2012', the BESB was unbundled into five Companies, viz., Bihar State Power (Holding) Company Limited (BSPHCL), Bihar State Power Transmission Company Limited (BSPTCL), Bihar State Power Generation Company Limited (BSPGCL), South Bihar Power Distribution Company Limited (SBPDCL), and North Bihar Power Distribution Company Limited (NBPDCCL), with effect from 1st November 2012 vide Notification No. 17 dated 30th October 2012.

- **"Bihar State Power (Holding) Company Limited" or "BSP(H)CL"**

BSP(H)CL is the Apex Holding Company that owns the share of the other four companies i.e., Bihar State Power Generation Company Limited, Bihar State Power Transmission Company Limited, South Bihar Power Distribution Company Limited and North Bihar Power Distribution Company Limited.

- **"Bihar State Power Generation Company Limited" or "BSPGCL"**

BSPGCL is the Generating Company to which the Generating Undertakings of the Board have been transferred in accordance with this scheme.

- **"Bihar State Power Transmission Company Limited" or "BSPTCL"**

BSPTCL is the Transmission Company to which the Transmission Undertakings of the Board have been transferred in accordance with this scheme.

- **"South Bihar Power Distribution Company Limited" or "SBPDCL" and "North Bihar Power Distribution Company Limited" or "NBPDCCL"**



SBPDCL and NBPDCCL are the Distribution Companies to which the Distribution Undertakings of the Board have been transferred in accordance with this scheme.

1.2 Approach to Filing of Current Petition

Section 62 of the Electricity Act, 2003 requires the Licensee to furnish details as may be specified by the Hon'ble Commission for determination of tariff.

Further, Regulation 11.3 of MYT Regulations, 2021, requires BSPTCL to file an application before the Hon'ble Commission for determination of tariff.

Regulation 11.3 of MYT Regulations, 2021 stipulates as follows:

"11.3 An application (along with soft copy) for determination of tariff and charges shall be made by 15th November every year, for Truing up of expenses of previous years, for Annual Performance Review (APR) of the Aggregate Revenue Requirement (ARR) for the current year and determination of ARR and transmission tariff or SLDC charges for the ensuing years of the control period. The application should contain the data relating to each item of the ARR supported with the information/data in the formats Form no- SI to Form no-P12 appended to these Regulations and accompanied by such fees as may be specified under the BERC (Fees, Fines and Charges) Regulations, 2019 as amended from time to time. All the information as required in the formats appended to these Regulations along with justification shall be provided in the main petition.

Provided that the Commission may require submission of additional information/data required for determination of ARR and tariff."

The Hon'ble Commission vide Tariff Order dated 21st March 2023 approved the Truing-up of FY 2021-22 as per the provisions of MYT Regulations, 2018, Annual Performance Review (APR) of FY 2022-23 and ARR & Transmission Tariff for FY 2023-24 as per the provisions of MYT Regulations, 2021.

This petition contains Truing-up of FY 2022-23 based on the audited annual accounts of FY 2022-23, Performance Review of FY 2023-24 based on estimates for the current year and Aggregate Revenue Requirement and transmission charges for the FY 2024-25 based on projections for the ensuing year & as per provisions of BERC MYT Regulations, 2021.

BSPTCL has made genuine efforts for compiling all relevant information relating to the True-up/APR/ARR as required in the Regulations issued by the Hon'ble Commission and has also made every effort to ensure that the information provided to the Hon'ble Commission are accurate and free from material errors.



However, there may be certain deficiencies/infirmities in the Petitions owing to the different aspects related with the operations of Transmission Company on independent basis. Hence, BSPTCL prays to the Hon'ble Commission that the information provided be accepted for the current filing and deficiencies, if any, may please be condoned. BSPTCL assures the Hon'ble Commission that appropriate measures have been taken to improve the management information system for improved data collection.

1.3 Contents of the Petition

The current Petition consist of the following main sections namely:

Chapter 1: Introduction of the Present Petition (Present Chapter);

Chapter 2: Summary of the Present Petition;

Chapter 3: Truing-up of FY 2022-23;

Chapter 4: Annual Performance Review (APR) of FY 2023-24;

Chapter 5: Aggregate Revenue Requirement for FY 2024-25;

Chapter 6: Transmission Charges for FY 2024-25; and

Chapter 7: Prayers

Chapter 8: Compliance to Directives.



(2) Overview of the Present Petition:

2.1 Transmission Infrastructure of BSPTCL:

BSPTCL likes to submit that the power supply position in the State of Bihar is improving and the Petitioner is taking all the required steps to strengthen and develop the electricity infrastructure for end-to-end transmission of power within the State.

The number of Grid Sub-Stations (GSS) and transformation capacity at 220 kV and 132 kV voltage levels in MVA as on 31st March 2023 are provided in the table below:

Table 2-1: Summary of GSS and Power Transformer Capacity (in MVA)

Sub-Station	FY 2022-23 (Upto March, 2023)	
	No. of GSS	Capacity (MVA)
220/132 KV	24	9,850
132/33 KV	127	15,780
Total	151	25,630

Further, transmission line in Ckt. Km. at 220 kV and 132 kV voltage levels as on 31st March 2023 are provided in the table below:

Table 2-2: Summary of Transmission Line length (in Ckt. Km.)

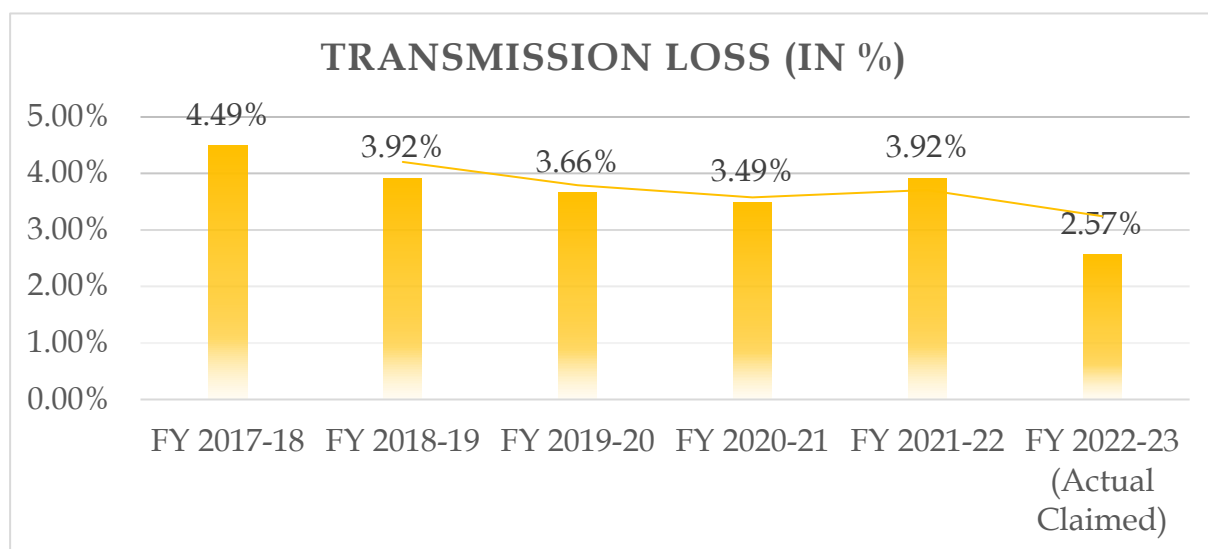
Transmission Line	FY 2022-23 (Upto March, 2023)
	220 KV
132 KV Double Circuit	12,182.16

2.2 Transmission Loss:

BSPTCL likes to submit that it is undertaking all efforts to reduce transmission loss in the system. Improvement in actual Transmission Losses for past few years is as follows:



Table 2-3: Transmission Losses over past years



* Note: Transmission Loss of FY 2022-23 as proposed by BSPTCL for Truing-up in this Petition.

2.3 Aggregate Revenue Requirement (ARR):

BSPTCL submits that it has prepared the true up for the FY 2022-23 based on audited accounts for the FY 2022-23 and APR for the FY 2023-24, ARR & Transmission Charges for the FY 2024-25 in accordance with BERC MYT Regulations 2021. The summary of the petition is as follows:

Table 2-4: Summary of Aggregate Revenue Requirements (Rs. Cr.)

Particulars	True up of FY 2022-23	Review of FY 2023-24	ARR of FY 2024-25
Employee Expenses	228.82	249.37	262.84
R&M Expenses	64.84	73.97	95.47
A&G Expenses	45.96	49.53	52.46
Share of Holding Company Expenses	16.08	16.08	16.08
Return on Equity	264.18	321.21	303.64
Depreciation	410.65	520.57	634.07
Interest on Loan Capital and Finance Charges	348.21	447.48	543.38
Interest on Working Capital	19.54	25.38	29.92
Incentive for Transmission Availability	12.27	0.00	0.00
Sharing of Losses/(Gains) on O&M expenses	12.72	-	-
Sharing of Losses/(Gains) on Interest on Working Capital	(9.77)	-	-



Particulars	True up of FY 2022-23	Review of FY 2023-24	ARR of FY 2024-25
Sharing of Losses/(Gains) on Incentives on Transmission Availability Factor	(6.14)	-	-
Non-Tariff Income	71.87	75.46	79.24
Income From Other Business (OPGW Cable)	1.03	1.03	1.03
Net ARR	1,334.48	1,627.10	1,857.59

Further, BSPTCL submits that, all the details, computation along with applicable Regulations and norms considered for the preparation of the petition are discussed in the subsequent sections.



(3) True up for FY 2022-23

3.1. Introduction

BSPTCL is filing the current petition for the true-up of FY 2022-23 based on the actual technical & financial details. Audited accounts of FY 2022-23 are available in the consolidated accounts for the BSPTCL which is inclusive of SLDC function. Accordingly, the financial data has been allocated and expenditures of SLDC & Transmission function have been identified for the purpose of truing up for the FY 2022-23. BSPTCL has considered the values approved in the ARR of FY 2022-23 vide Tariff Order dated 25th March 2022 vis-à-vis values as per financial statement of FY 2022-23 for Truing up. It is further submitted that the Hon'ble Commission had approved the revised estimates of ARR for FY 2022-23 in the APR vide Tariff Order dated 21st March 2023. However, the Hon'ble Commission had not passed through the computed Revenue Gap/(Surplus) for FY 2022-23 in the ARR order of FY 2023-24. Hence, the true-up for FY 2022-23 has been claimed with respect to the values approved in the Tariff Order for FY 2022-23 dated 25th March 2022.

The True-up of FY 2022-23 is carried out in accordance with Regulation 7 and Regulation 13 (a) to (e) of the BEREC (Multi-Year Transmission Tariff and SLDC Charges) Regulations, 2021, which are as follows:

"7. Annual Review of Performance and True-up

7.1 Where the Aggregate Revenue Requirement and expected revenue from tariff and charges of a Transmission Licensee or SLDC, as the case may be, are covered under a Multi-Year Tariff framework, such Transmission Licensee or SLDC shall be subject to an annual review of performance and True-up during the Control Period in accordance with these Regulations."

"13. True-Up and Annual Performance Review

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 Transmission Licensee or SLDC, as the case may be, 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

As submitted previously, since the separate accounts for Transmission and SLDC functions are not maintained, BSPTCL has submitted the Truing-up of FY 2022-23 based on the financial statement and allocation statement for Transmission function & SLDC of FY 2022-23. A copy of audited financial statement of BSPTCL along with allocation statement of SLDC and Transmission function for FY 2022-23 is attached as **Annexure I**. It is submitted that all the Income and Expenses considered under SLDC function have been deducted from the total expenses as per the audited accounts for proposed claims of BSPTCL Transmission Utility, in the True-up for FY 2022-23.

3.2. Transmission Losses

It is submitted that the Hon'ble Commission had approved transmission loss of 3.00% for the FY 2022-23 in the MYT Order dated 25th March 2022. BSPTCL further submits that it has been able to restrict transmission losses of FY 2022-23, at the level lower than that approved by the Hon'ble BERC.

It is further submitted that the transmission loss of 2.62% for the FY 2022-23 as reflected in the Audited Accounts was subsequently revised by the SLDC to 2.57% post audit of Accounts. Accordingly, BSPTCL has claimed the revised transmission loss based on SLDC Certification for truing up of FY 2022-23.

The following table shows actual transmission loss in BSPTCL system for the FY 2022-23:

Table 3-1: Actual Transmission Loss for the FY 2022-23 (in %)

Particulars	Approved in Tariff Order dated 25.03.2022	Claimed in Truing-up of FY 2022-23
Energy Input (in MU)	-	38,747.13
Energy Output (in MU)	-	37,752.43
Transmission Loss (in MU)	-	994.70
Transmission Loss (%)	3.00%	2.57%



Accordingly, BSPTCL requests the Hon'ble Commission to consider and approve the revised actual transmission loss for the FY 2022-23 as claimed.

Further, Voltage level wise Transmission Loss for FY 2022-23, i.e., from April 2022 to March 2023 with details of energy input and energy output, as certified by SLDC, is attached as **Annexure II**.

3.3. Capital Work in Progress (CWIP)

The Hon'ble Commission has approved the closing CWIP balance for the FY 2021-22 vide Tariff Order dated 21st March 2023. BSPTCL has considered the same as opening balance of CWIP for truing up the FY 2022-23.

Further, BSPTCL has undertaken several schemes for augmentation & strengthening of the existing transmission system. Therefore, addition to CWIP during the FY 2022-23 has been considered as per actual.

Further, BSPTCL has filed a separate Petition (Case No. 17 of 2023) for seeking of prior regulatory approval for the projects which were not the part of the MYT Tariff Order for the Control Period of FY 2022-23 to FY 2024-25 as per the direction of the Hon'ble Commission in the Tariff Order dated 21st March 2023. The Order of the Hon'ble Commission on the aforesaid Petition is still awaited. However, BSPTCL has considered actual expenses of these projects to compute the Closing CWIP of FY 2022-23.

BSPTCL has provided the work-wise break-up of capitalization for FY 2022-23 as **Annexure III**. The summary of the approved and actual capital expenditure & capitalization of FY 2022-23 are tabulated below:

Table 3-2: Capital Expenditure for the FY 2022-23 (Rs. Cr.)

Sl. No.	Particulars	Approved in Tariff Order dated 25.03.2022	Claimed in Truing-up of FY 2022-23
1	Opening CWIP (A)	2,398.97	3,050.63
2	Capital Investment during the Year (B)	1,146.22	1,694.02
3	Less: Capitalization ('C)	1,429.67	1,258.77
4	Less: IDC Capitalized (D)	0.00	59.54
5	Closing CWIP (A+B-C-D)	2,115.52	3,426.34

Accordingly, BSPTCL requests the Hon'ble Commission to consider and allow the capital work in progress (CWIP) as claimed above.



3.4. Gross Fixed Asset (GFA)

BSPTCL has arrived at the net capitalization during the year by deducting disposal/sale/transfer of assets based on audited accounts of FY 2022-23. BSPTCL has claimed the capitalization for Transmission function only and capitalization pertaining to SLDC function has been claimed separately in the True-up petition for SLDC. The following Table shows the scheme-wise capitalisation during the year.

Table 3-3: Scheme Wise Net GFA addition of FY 2022-23 (Rs. Cr.)

Sl. No.	Particulars	Claimed in Truing-up of FY 2022-23
1	Schemes under State Plan	804.31
2	Schemes under BRGF	10.48
3	Schemes under IRF	29.13
4	Schemes under ADB	0.10
5	Schemes under Deposit Works	80.70
6	Schemes under PSDF	0.00
7	Schemes under Special Central Fund	334.05
	Total Scheme-wise Capitalization	1,258.77
8	Interest during Construction (IDC)	59.54
	Total Capitalization transferred from CWIP	1,318.31

Further, The Hon'ble Commission has approved the closing GFA balance for the FY 2021-22 vide Tariff Order dated 21st March 2023. BSPTCL has considered the same as opening balance of Gross Fixed Assets for truing up the FY 2022-23. Further, addition to GFA during the year as detailed above has been considered. Accordingly, BSPTCL has arrived at the Closing GFA for FY 2022-23 as shown below:

Table 3-4: Gross Fixed Assets of FY 2022-23 (Rs. Cr.)

Sl. No.	Particulars	FY 2022-23	
		Approved in Tariff Order dated 25.03.2022	Claimed in Truing-up of FY 2022-23
1	Opening GFA (A)	11,475.78	10,785.97
2	Add: Addition to GFA (excluding Land & IDC) (B)	1,429.67	1,248.29
3	Add: Direct Addition to GFA ('C)	-	-
4	Add: Net Value of Land (D)	-	10.48
5	Less: Disposal/Sale/Transfer of Asset ('E)	-	3.00



Sl. No.	Particulars	FY 2022-23	
		Approved in Tariff Order dated 25.03.2022	Claimed in Truing-up of FY 2022-23
6	Add: Interest During Construction (F)	-	59.54
7	Closing GFA (A+B+C+D-E+F)	12,905.45	12,101.28

Therefore, BSPTCL requests the Hon'ble Commission to consider and approve the GFA for the FY 2022-23 as claimed.

3.5. Depreciation

BSPTCL has computed depreciation of FY 2022-23 in accordance with Regulation 23 of the MYT Regulations, 2021. The relevant provisions are as follows:

"23 Depreciation

(i) Depreciation shall be calculated for each year of the control period on the original cost of the fixed assets of the corresponding year.....

(ii) Depreciation shall not be allowed on assets funded by capital subsidies, beneficiary contributions or grants.

(iii) 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 and at the rate not exceeding the rate specified by the Central Electricity Regulatory Commission from time to time as provided in Appendix-III of these Regulations.....

.....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.....

BSPTCL submits that it has considered the approved closing GFA balance for the FY 2021-22 vide Tariff Order dated 21st March 2023 as opening balance and GFA addition as per audited accounts of FY 2022-23 for computation of weighted average rate of Depreciation. Further, Rate of Depreciation has been considered in line with the Clause 23 (iii) of BERC MYT Regulations, 2021. The computation of weighted average rate of Depreciation is provided below:

Table 3-5: Calculation of Weighted Average Rate of Depreciation on opening GFA

Sl. No.	Particulars	Rate of Depreciation	Opening Balance FY 2022-23	Depreciation for the year
1	Land & Land Rights	0.00%	1,523.27	0.00



Sl. No.	Particulars	Rate of Depreciation	Opening Balance FY 2022-23	Depreciation for the year
2	Buildings	3.34%	70.82	2.37
3	Hydraulic Works	5.28%	0.06	0.00
4	Other Civil Works	3.34%	313.06	10.46
5	Plant and Machinery	5.28%	4,703.02	248.32
6	Lines and Cable Network	5.28%	4,285.40	226.27
7	Vehicles	6.33%	0.45	0.03
8	Furniture and Fixtures	6.33%	10.80	0.68
9	Office Equipment	6.33%	3.72	0.24
10	Computers & Accessories	15.00%	30.28	4.54
11	Intangible Assets	15.00%	0.00	0.00
12	Total other than Land & Land Rights		9,417.61	492.90
13	Weighted average rate of Depreciation on Opening GFA (in %)			5.23%

Further, Regulation 23 (v) of the BERC MYT Regulations, 2021 provides:

(v) Depreciation shall be chargeable from the first year of operation of the asset. For part of the year, depreciation shall be charged on pro rata basis....."

Accordingly, BSPTCL has computed weighted average rate of Depreciation on pro-rata basis for GFA addition of FY 2022-23. Detailed computation of weighted average rate of depreciation on GFA addition are as follows:

Table 3-6: Calculation of Weighted Average Rate of Depreciation on GFA addition

Sl. No.	Particulars	Rate of Depreciation	Addition during the year	Depreciation charged on addition
1	Land & Land Rights	0.00%	10.48	0.00
2	Buildings	3.34%	0.50	0.01
3	Hydraulic Works	5.28%	0.00	0.00
4	Other Civil Works	3.34%	3.00	0.05
5	Plant and Machinery	5.28%	346.04	9.14
6	Lines and Cable Network	5.28%	952.72	25.15
7	Vehicles	6.33%	0.00	0.00
8	Furniture and Fixtures	6.33%	0.48	0.02
9	Office Equipment	6.33%	1.64	0.05
10	Computers & Accessories	15.00%	3.18	0.24
11	Intangible Assets	15.00%	0.27	0.02



Sl. No.	Particulars	Rate of Depreciation	Addition during the year	Depreciation charged on addition
12	Total other than Land & Land Rights		1,307.83	34.67
13	Weighted average rate of Depreciation on GFA addition (in %)			2.65%

BSPTCL submits that it has reduced the net amount of land from the opening balance approved by the Hon'ble Commission to arrive at the depreciable GFA.

Further, BSPTCL has separately computed depreciation on assets created out of Grants/Consumer Contribution/deposit works and adjusted the same from the gross depreciation to arrive at net depreciation for truing up of FY 2022-23. Details of depreciation along with the approved figures for FY 2022-23 are as shown in table below:

Table 3-7: Depreciation for the FY 2022-23 (Rs. Cr.)

Sl. No.	Particulars	Approved in Tariff Order dated 25.03.2022	Claimed in Truing-up of FY 2022-23
1	Opening GFA	11,475.78	10,785.97
2	Less: Value of Land	1,448.32	1,523.27
3	Value of GFA net of Land (1-2)	10,027.46	9,262.70
4	Addition during the Year (excluding land and IDC)	1,429.67	1,248.29
5	Add: IDC	0.00	59.54
6	Less: Adjustment for assets sold/disposed	0.00	3.00
7	Closing GFA (3+4+5-6)	11,457.13	10,567.53
8	Average GFA	10,742.30	9,915.11
9	Weighted average rate of depreciation on opening GFA	5.21%	5.23%
10	Weighted average rate of depreciation on addition during the year	3.89%	2.65%
11	Depreciation ((3*9) + ((4+5-6) *10))	577.86	519.39
12	Opening Grants**	2,136.05	2,036.65
13	Assets capitalised funded through grants	79.54	0.00
14	Assets capitalised through deposit works	0.00	80.70



Sl. No.	Particulars	Approved in Tariff Order dated 25.03.2022	Claimed in Truing-up of FY 2022-23
15	Total Grants**	2,215.59	2,117.35
16	Average Grants**	2,175.82	2,077.00
17	Weighted average rate of depreciation on opening GFA	5.21%	5.23%
18	Weighted average rate of depreciation on addition during the year	3.89%	2.65%
19	Depreciation on Grants ((12*17) + (13+14) *18))	114.34	108.73
20	Net Depreciation considered in ARR (11-19)	463.53	410.65

* Grants include consumer contribution and deposit works.

Accordingly, BSPTCL requests the Hon'ble Commission to consider and approve the Depreciation of FY 2022-23.

3.6. Operation and Maintenance Expenses

BSPTCL submits that it has claimed Operation and Maintenance Expenses on Normative Basis for the FY 2022-23 in line with BERC MYT Regulation 2021.

Further, BSPTCL submits that the audited annual accounts of BSPTCL for the FY 2022-23 has been prepared. However, annual accounts of FY 2022-23 are consolidated accounts for the BSPTCL which is inclusive of SLDC function. Therefore, BSPTCL has arrived at the actual O&M expenses for the FY 2022-23 pertaining to transmission function based on Annual accounts and allocation of expenses for Transmission and SLDC functions as certified by the statutory auditor.

Details of O&M Expenses on Normative and actual basis are provided below for consideration of the Hon'ble Commission.

3.6.1. Normative Operation and Maintenance (O&M) Expenses

Regulation 21.1 of BERC MYT Regulations, 2021, specifies that the Hon'ble Commission shall stipulate a separate trajectory of norms for each of the components. The relevant extracts are as follows:

"21. Operation and Maintenance Expenses

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 Transmission Licensee or a class of Transmission Licensees.

(b) Norms shall be defined in terms of number of personnel per ckt/km (for different categories of transmission lines for e.g. 400 KV, 220 KV, 132 KV etc. Lines) and number of personal per bay (for different categories of bay for e.g. 400 KV, 220 KV, 132 KV etc. Bays) along with annual expenses per personnel for Employee expenses; combination of A&G expense per personnel and A&G expense per substation for A&G expenses and R&M expense as percentage of gross fixed assets for estimation of R&M expenses....."

3.6.1.a. Normative Employee Expenses

The Hon'ble Commission adopted a ratio of 45% of the total no. of the employees as a part of norms for substation and 55% personnel as a part of norms per CKt-Km for the purpose of calculation of norms. The Hon'ble Commission has revised the norms for Employee Expenses of FY 2022-23 vide its Tariff Order dated 21st March, 2023. Accordingly, BSPTCL has considered the same for computing the Normative Employee Expenses of FY 2022-23.

The following Table shows the revised base value of norms computed by the Hon'ble Commission in Tariff Order dated 21st March 2023 for FY 2022-23:

Table 3-8: Base Value considered for Normative Employee Expenses of FY 2022-23

Sl. No.	Particulars	FY 2022-23
1	Number of personnel per Ckt-Km (55%)	0.0823
2	Number of personnel per substation (45%)	7.2218
3	Annual expenses per personnel (Rs. Lakh)	8.8320

Regulation 21.1 of BERC MYT Regulations, 2021 provides for an escalation of base value norms for consideration of employee expenses. The relevant extracts are as follows:

"21.1 Employee Cost

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 Transmission 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.....”

In accordance with the MYT Regulations 2021, BSPTCL has considered average of CPI inflation of preceding three years (i.e., FY 2019-20, FY 2020-21, and FY 2021-22) for escalating the base norms of employee expenses. The following Table shows the escalation considered on base norms for computation of employee expenses:

Table 3-9: Computation of CPI inflation considered for FY 2022-23

Particulars	Actual				
	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23
Annual Average CPI	300	323	339	356	378
CPI Inflation		7.53%	5.02%	5.13%	
Average CPI Inflation for last three years					5.89%

The following table shows the employee expenses considered in Truing-up of FY 2022-23 on normative basis.

Table 3-10: Normative Employee Expenses of FY 2022-23 (Rs. Cr.)

Sl. No.	Particulars	Base Norm	FY 2022-23	
			Approved in Tariff Order dated 25.03.2022	Claimed in Truing-up of FY 2022-23
1	Average annual CPI index		6.00%	5.89%
2	Norms-Number of personnel per Ckt-Km	0.0823	0.0823	0.0823
3	Norms-Number of personnel per substation	7.2218	7.2207	7.2218
4	Transmission line in Ckt Km		17,285	16,653
5	No. of Substations		152	149
6	Norms-Annual expenses per personnel (Rs. Lakh)	8.8320	7.72	9.3525
7	Employee Cost (Number of personnel per Ckt-Km basis) (2*4*6)/100 (Rs. Crore)		109.85	128.18



Sl. No.	Particulars	Base Norm	FY 2022-23	
			Approved in Tariff Order dated 25.03.2022	Claimed in Truing-up of FY 2022-23
8	Employee Cost (Number of personnel per substation basis) (3*5*6)/100 (Rs. Crore)		84.73	100.64
9	Total Employee cost for the year (7+8) (Rs. Crore)		194.59	228.82

Accordingly, BSPTCL requests the Hon'ble Commission to consider and approve Normative Employee Cost in Truing-up of FY 2022-23 as shown in the above Table.

3.6.1.b. Normative Repairs and Maintenance (R&M) Expenses

Regulation 21.2 of the MYT Regulations, 2021 specifies R&M expenses as percentage of opening gross fixed assets (excluding land cost) for estimation of R&M expenses. Regulation 21 (i) specifies that the norms shall be determined based on audited accounts of last three years.

The Hon'ble Commission in MYT Order dated 25th March 2022 considered 'K factor' of 0.70% for the Control Period from FY 2022-23 to FY 2024-25. BSPTCL has applied the same principle for arriving at the normative R&M Expenses for the FY 2022-23. The following table shows the R&M expenses considered in Truing-up of FY 2022-23 in line with the above approach.

Table 3-11: Normative R&M Expenses of FY 2022-23 (Rs. Cr.)

Sl. No.	Particulars	FY 2022-23	
		Approved in Tariff Order dated 25.03.2022	Claimed in Truing-up of FY 2022-23
1	Opening GFA Excluding Land (Net of Land)	10,027.46	9,262.70
2	% of GFA	0.70%	0.70%
3	R&M Expenses for the Year	70.19	64.84

Therefore, Hon'ble Commission is requested to consider and approve the Normative R&M Expenses for Truing-up of FY 2022-23 as claimed by BSPTCL.



3.6.1.c. Normative Administration and General (A&G) Expenses

The Hon'ble Commission in MYT Tariff Order dated 25th March 2022 has computed norms for A&G expenses in terms of A&G expense per personnel and A&G expense per substation and escalated the same as per the regulations to arrive at the norms applicable for the control period of FY 2022-23 to FY 2024-25. The following Table shows the norms stipulated by the Hon'ble Commission for the FY 2022-23 in the MYT Tariff Order dated 25th March 2022.

Table 3-12: Base Value considered for Normative A&G Expenses (Rs. Cr.)

Sl. No.	Particulars	FY 2022-23 Actual
1	A&G Expenses per personnel (Rs. Lakh)	1.0400
2	A&G Expenses per substation (Rs. Lakh)	13.6600

BSPTCL has considered the above norms as base values for computation of A&G expenses for FY 2022-23. Further, Regulation 21.3 of MYT Regulations, 2021 provides for escalation of base value norms for consideration of A&G expenses. The relevant extracts are as follows:

"21.3 Administrative and General (A&G) Expense

A&G expense shall be computed as per the norm escalated by wholesale price index (WPI) and Consumer Price Index (CPI) in the ratio 60:40 and adjusted by provisions for confirmed initiatives (IT etc. initiatives as proposed by the Transmission Licensee and validated by the Commission) or other expected one-time expenses, and shall be governed by following formula:

$$A\&G_n = (A\&G_b * WPI \text{ inflation}) + \text{Provision}$$

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....."

BSPTCL has considered average escalation of CPI and WPI indices with weightage of 40:60 respectively for immediately preceding three years (i.e., FY 2019-20, FY 2020-21 and FY 2021-22) on base norm of A&G expenses to compute Normative A&G Expenses of FY 2022-23, as shown in the Table below:



Table 3-13: WPI: CPI inflation considered for A&G Expenses of FY 2022-23

Particulars	Actual				
	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23
Annual Average CPI Index	300	323	339	356	
CPI Inflation		7.53%	5.02%	5.13%	5.89%
Annual Average WPI Index	120	122	123	139	
WPI Inflation		1.68%	1.29%	13.00%	5.32%
Average WPI : CPI (60:40) Inflation for preceding three years					5.55%

The following table shows the Normative A&G Expenses considered in Truing-up of FY 2022-23 in line with the methodology specified in Regulation 21.3 of MYT Regulations, 2021:

Table 3-14: Normative A&G Expenses of FY 2022-23 (Rs. Crore)

Sl. No.	Particulars	Base Norms	FY 2022-23	
			Approved in Tariff Order dated 25.03.2022	Claimed in Truing-up of FY 2022-23
1	Average annual CPI&WPI index		3.85%	5.55%
2	Norms-A&G Expenses per personnel (Rs. Lakh)	1.0400	1.0800	1.0977
3	Norms-A&G Expenses per substation (Rs. Lakh)	13.6600	14.1859	14.4182
4	No. of Employees		2,298.00	2,230.00
5	No. of Substations		152.00	149.00
6	A&G Expenses (No. of employee basis) (2*4) (Rs. Crore)		24.81	24.48
7	A&G Expenses (No. of substations basis) (3*5) (Rs. Crore)		21.56	21.48
8	Total A&G Expenses for the year (Rs. Crore) (6+7)		46.37	45.96

Therefore, BSPTCL requests the Hon'ble Commission to consider the Normative A&G Expenses for Truing-up of FY 2022-23 as claimed in table above.

3.6.1.d. Normative O&M Expenses

Based on above paras, BSPTCL has summarised Normative O&M Expenses as tabulated below:



Table 3-15: Normative O&M Expenses of FY 2022-23 (Rs. Cr.)

Sl. No.	Particulars	FY 2022-23 Actual
1	Employee Expenses	228.82
2	R&M Expenses	64.84
3	A&G Expenses	45.96
4	Holding Cost Expenses	16.08
5	Total O&M Expenses	355.70

Therefore, BSPTCL requests the Hon'ble Commission to consider and approve the Normative O&M Expenses for Truing-up of FY 2022-23 as claimed.

3.6.2. Actual Operation and Maintenance (O&M) Expenses

BSPTCL submits that the Annual Accounts of BSPTCL for the FY 2022-23 has been prepared & audited. Therefore, BSPTCL has computed Operation and Maintenance Expenses of FY 2022-23 based on audited annual accounts for consideration of Hon'ble Commission.

Further, BSPTCL has deducted the expenses pertaining to SLDC function based on Allocation statement for the FY 2022-23 certified by the statutory auditor for arriving at the actual O&M Expenses of the Transmission function.

3.6.2.a. Actual Employee Expenses

BSPTCL submits that employee expenses comprise costs towards salaries, dearness allowances, medical expense reimbursement, other allowances, staff welfare expenses and terminal benefits. Details of actual Employee Cost incurred by BSPTCL for the FY 2022-23 are as shown in the table below:

Table 3-16: Actual Employee Expenses of FY 2022-23 (Rs. Cr.)

Sl. No.	Particulars	FY 2022-23 Actual
1	Salaries	133.36
2	Overtime	6.28
3	Dearness Allowance	49.27
4	Other Allowance	20.95
5	Medical Expenses Re-imburement	1.10
6	Staff welfare Expenses	0.44
7	Terminal Benefit	37.63
	Total Other Employee Cost	249.04
8	Less: Employee cost of SLDC	6.24
9	Total Actual Employee Cost of BSPTCL	242.80



3.6.2.b. Actual R&M Expenses

Repair & Maintenance Expenses include expenses on repair and maintenance of Plant and Machinery, Transformers, Lines, cable network, etc. It is important for BSPTCL to incur the R&M expenses in order to maintain and strengthen the transmission system for maintaining the quality of power supply in the region and achieve system availability as specified in BEREC MYT Regulations, 2021. The actual R&M expense for the FY 2022-23 incurred by BSPTCL is tabulated below:

Table 3-17: Actual R&M Expenses of FY 2022-23 (Rs. Cr.)

Sl. No.	Particulars	FY 2022-23 Actual
1	Plant and Machinery	28.97
2	Building	5.48
3	Civil Works	4.06
4	Hydraulic Works	0.00
5	Line Cable Networks	11.68
6	Vehicles	0.00
7	Furniture & Fixture	0.05
8	Office Equipment	3.34
	Total R&M Expenses	53.59
9	Less: R&M Cost of SLDC	1.37
10	Total R&M Expenses of BSPTCL	52.22

3.6.2.c. Actual A&G Expenses

A&G Expenses comprise expense towards Conveyance and Travelling, Electricity Charges, Miscellaneous Expenses, Telephone Expenses, Fees and Subscriptions, Legal Charges, and Printing and Stationery. Following table shows Actual A&G expenses claimed by the BSPTCL based on annual accounts for the FY 2022-23:

Table 3-18: Actual A&G Expenses of FY 2022-23 (Rs. Cr.)

Sl. No.	Particulars	FY 2022-23 Actual
1	Rent, rates & taxes	1.88
2	Insurance	5.21
3	Telephone, postage & Telegrams	0.50
4	Legal Charges	0.00
5	Audit Charges	0.14
6	Consultancy fees	0.00
7	Director's Sitting Fee	0.00
8	Interest on Statutory Dues	0.00



Sl. No.	Particulars	FY 2022-23 Actual
9	Holding Charges	0.00
10	Other professional charges	2.15
11	Conveyance & travel expenses	13.87
12	Fees & Subscription	0.65
13	Books & Periodicals	0.02
14	Printing & Stationary	0.49
15	Advertisement	1.54
16	Expenditure on CSR	6.00
17	Electricity & Water charges	14.21
18	Freight	0.00
19	Entertainment Charges	0.23
20	Commission for sale of scrap	0.00
21	Home Guard/ Security Guard	11.97
22	Miscellaneous Expenses	1.05
23	Contribution to CM Relief Fund-Company	10.00
24	Compensation/Injuries/Dath/Damages	0.21
25	Loss Due to Cyclone/Flood/Theft	0.00
26	Store Handling Exp.	0.00
27	Loss on sale of Scrap	0.50
28	CST/VAT on demand	0.00
29	Total expenses	70.62
30	Less SLDC Expenses	0.58
31	Total Actual A&G Expenses	70.04

3.6.2.d. Actual O&M Expenses

Based on above submission, BSPTCL has summarised actual O&M Expenses of FY 2022-23 as provided below:

Table 3-19: Actual O&M Expenses of FY 2022-23 (Rs. Cr.)

Sl. No.	Particulars	FY 2022-23 Actual
1	Employee Expenses	242.80
2	R&M Expenses	52.22
3	A&G Expenses	70.04
4	Total O&M Expenses	365.07

Therefore, BSPTCL requests the Hon'ble Commission to consider Actual O&M Expenses in Truing-up of FY 2022-23 as shown in the above Table.



3.7. Holding Company Expenses

BSPTCL submits that expenses of BSP(H)CL, which is the Holding Company of all the State Utilities and Generating Company, is recovered from its subsidiary Companies. The cost sharing between the subsidiary Companies including BSPTCL is as per the amount of equity shares issued by the Holding Company to the Subsidiary Company.

In light of the above, all the Utilities have to bear the cost of the Holding Company. BSPTCL is claiming Holding Company expenses separately in line with the methodology adopted in previous Tariff Orders. BSPTCL has claimed the Holding Company Expenses as per the actual amount reflecting in annual accounts of FY 2022-23, as shown in the Table below:

Table 3-20: Actual Holding Company Expenses of FY 2022-23 (Rs. Cr.)

Sl. No.	Particulars	Approved in Tariff Order dated 25.03.2022	Claimed in Truing-up of FY 2022-23
1	Holding Company Expenses	11.44	16.08

Accordingly, BSPTCL requests the Hon'ble Commission to consider and approve the Holding Company Expenses on actual basis for Truing-up of FY 2022-23 as shown in the table above.

3.8. Means of Finance

Regulation 22 (a) of BERC MYT Regulations, 2021, provides as follows:

"22. Return on Equity

(a) Return on equity shall be computed on 30% of the capital cost or actual equity, whichever is lower....."

Further, Regulation 24 (b) of MYT Regulations, 2021 specifies provisions for computing the interest on loan. The relevant extracts are as follows:

"24. Interest and finance charges on loan capital

.....(b) If the equity actually deployed is more than 30 % of the capital cost, equity in excess of 30 % shall be treated as normative loan:

Provided that where equity actually deployed is less than 30% of the capital cost, the actual loan shall be considered for determination of interest on loan."



BSPTCL submits that for the purpose of arriving at the means of finance for the year, it has computed Net Asset capitalized during FY 2022-23 as per annual accounts after deducting disposal/sale/transfer of asset and has further reduced the amount capitalised on account of grant received from PSDF and Deposit works.

Further, BSPTCL has considered capitalization under the category Special Central Assistance funded schemes for computing normative debt equity addition because of the same has been received by BSPTCL as Equity addition from GoB.

Further, BSPTCL has considered the Debt Equity ratio in line with the approach adopted by the Hon'ble Commission in previous Tariff Orders. The details of Debt-Equity of capitalised projects of FY 2022-23 for the purpose of Loan and Equity addition is shown in the Table below:

Table 3-21: Means of Finance of FY 2022-23 (Rs. Cr.)

Sl. No.	Particulars	FY 2022-23 Actual
1	Capitalization during FY 2021-22	1,318.31
2	Less: Grant & Deposit Works	80.70
3	Net Capitalization	1,237.61
4	12th Plan Projects	
5	Equity Considered	8.74
6	Debt Considered	20.49
7	13th Plan Projects and New Projects	
8	Equity Considered	275.08
9	Debt Considered	933.30
10	Total Equity addition considered	283.82
11	Total Debt addition considered	953.79

Therefore, BSPTCL requests the Hon'ble BERC to consider and approve the above calculation for Equity and Loan addition for Truing up of FY 2022-23.

3.9. Interest and Finance Charges

BSPTCL has computed the interest and finance charges of FY 2022-23 in accordance with the Regulation 24 of BERC MYT Regulations, 2021. The relevant extracts are as follows:

"24. Interest and finance charges on loan capital

.....(e) The repayment for the control period shall be deemed to be equal to the depreciation allowed for the year.



.....(g) The rate of interest shall be the weighted average rate of interest 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:.....”

The Hon’ble Commission vide Tariff Order dated 21st March 2023 has computed Rate of Interest based on actual outstanding and applicable MCLR during the year. BSPTCL submits that it has adopted the same methodology for computing the applicable Rate of Interest for truing up of FY 2022-23. The detail computation of the applicable Rate of Interest is as follows:

Table 3-22: Weighted Average Rate of Interest for FY 2022-23

Sl. No.	Particulars	Amount Outstanding (Rs. Crore)	Applicable Interest
1	Loans from Financial Institutions	2,550.00	7.85%
2	Loans from ADB	464.13	13.00%
Weighted Average Interest Rate			8.56%

BSPTCL further submits that it has considered the closing loan of FY 2021-22 approved by the Hon’ble BERC vide order dated 21st March 2023 as normative opening loan balance for the FY 2022-23. In accordance with Regulation 24 of BERC MYT Regulations, 2021, repayment of loans equivalent to Depreciation worked out in Truing-up of FY 2022-23 has been considered and Loan addition has been considered as per means of finance for the FY 2022-23 discussed in the previous para. Based on above submissions, BSPTCL submits detail computation of interest on loan as below:

Table 3-23: Interest and Finance Charges of FY 2022-23 (Rs. Cr.)

Sl. No.	Particulars	FY 2022-23	
		Approved in Tariff Order dated 25.03.2022	Claimed in Truing-up of FY 2022-23
1	Opening Loan	4,169.17	3,782.63
2	Addition during the year	1,094.94	953.79
3	Normative Repayment (Equal to Depreciation)	463.53	410.65
4	Closing Loan (1+2-3)	4,800.58	4,325.77
5	Average Loan	4,484.88	4,054.20
6	Interest Rate (%)	7.93%	8.56%
7	Interest on Loan	355.65	347.17
8	Other Finance Charges	0.04	1.04
9	Interest and Finance Charges (7+8)	355.69	348.21



Therefore, BSPTCL requests the Hon'ble Commission to consider and approve the Interest on Loan and Finance Charges for truing-up of FY 2022-23 as submitted above.

3.10. Return on Equity

Regulation 22 of BERC MYT Regulations, 2021, provides as follows:

"22. Return on Equity

.....(b) The return on the equity invested shall be allowed from the date of start of commercial operation and after put to use:

(c) Return on equity shall be computed at the rate of 15.5% for the project which is commissioned w.e.f. 01.04.2015 and further incentive equivalent to 0.5% will be allowed in the form of RoE, if the project is completed within schedule as per the Annexure A or original schedule period as the case may be. However, Return on Equity for the project commissioned prior to 01.04.2015 shall be allowed at the rate of 14%."

Further, Regulation 27 (2) of the BERC MYT Regulations, 2021, specifies as under:

"27. Tax on Return on Equity

.....(2) Rate of return on equity shall be rounded off to two decimal places and shall be computed as per the formula given below:

Rate of pre-tax return on equity = Base rate / (1-t)

Where "t" is the effective tax rate in accordance with Clause (1) of this regulation and shall be calculated at the beginning of every financial year based on the estimated profit and tax to be paid estimated in line with the provisions of the relevant Finance Act applicable for that financial year to the company on pro-rata basis by excluding the income of non-generation or non-transmission business, as the case may be, and the corresponding tax thereon. In case of licensee/SLDC paying Minimum Alternate Tax (MAT), "t" shall be considered as MAT rate including surcharge and cess."

BSPTCL has considered the closing equity balance of FY 2021-22 as approved by the Hon'ble BERC vide Order dated 21st March 2023 as opening equity base for the FY 2022-23. Further, BSPTCL had already proposed lower Rate of Return of 10% in its MYT Petition for FY 2022-23 against the approved rate of 15.5%, the Hon'ble Commission has also approved the same vide MYT Tariff Order dated 25th March 2022. Therefore, in line with the above, BSPTCL has claimed Rate of Return at 10% for truing up. Further, BSPTCL has considered the MAT rate of 17.47% in line with the actual MAT rate applicable for FY 2022-23 as per annual accounts. The details of RoE claimed by BSPTCL for the FY 2022-23 are tabulated as follows:



Table 3-24: Return on Equity of FY 2022-23 (Rs. Cr.)

Sl. No.	Particulars	FY 2022-23	
		Approved in Tariff Order dated 25.03.2022	Claimed in Truing-up of FY 2022-23
1	Equity as on 31.03.2015	375.41	375.41
2	Rate of Return on Equity	10.00%	10.00%
3	Tax/MAT Rate %	17.47%	17.47%
4	Pre-tax Rate of Return on Equity (2/(1-3))	12.12%	12.12%
5	Return on Equity (1*4)	45.50	45.49
6	Opening Equity	1,792.73	1,662.91
7	Addition during the year	255.19	283.82
8	Closing Equity (6+7)	2,047.92	1,946.73
9	Average Equity (6+8)/2	1,920.33	1,804.82
10	Rate of Return on Equity	10.00%	10.00%
11	Tax/MAT Rate %	17.47%	17.47%
12	Pre-tax Rate of Return on Equity (10/ (1-11))	12.12%	12.12%
13	Return on Equity (9*12)	232.74	218.69
14	Total Return on Equity (5+13)	278.24	264.18

Accordingly, BSPTCL requests the Hon'ble Commission to consider and approve Return on Equity for Truing-up of FY 2022-23 as claimed in the table above.

3.11. Interest on Working Capital

Regulation 26 of the MYT Regulations, 2021 specifies the method for computation of Interest on Working Capital for the Control Period. The relevant extracts are as follows:

"26. Interest on working capital

(a) The Transmission Licensee shall be allowed interest on the estimated level of working capital for the financial year, computed as follows:

(i) Receivables equivalent to two (2) month of transmission charges calculated on target availability level.

(ii) O&M Expenses of one (01) month.

(iii) Maintenance spares @ 40% of R&M expenses for one month.

Less:



- (iv) Return on equity and contribution to contingency reserves equivalent to two months.
- (v) Amount of security deposits from Transmission System users, if any, held during the year except the security deposits held in the form of Bank Guarantee from Transmission System Users.
- (b) Interest on working capital shall be on normative basis and rate of interest shall be equal to the State Bank (one-year tenor) 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.
- (c) Interest shall be allowed on the amount held as security deposit (except the security deposit held in the form of Bank Guarantee) from Transmission System Users at the Bank Rate (RBI Base Rate) as at the date on which the application for determination of tariff is filed. The interest allowed shall be subject to true up at weighted average Bank Rate of the concern Financial Year.
- (d) If the State Government is providing resource gap grant and/or subsidy, the working capital shall be reduced by two months equivalent of that amount."

In accordance with the above provisions, BSPTCL has considered the weighted average rate of interest based on State Bank of India (SBI) one-year MCLR for FY 2022-23 and added 150 basis point to compute interest rate for Working Capital. The weighted average of SBI 01-year MCLR for the FY 2022-23 is 7.80%. Accordingly, interest rate has been considered as 9.30% (07.80%+1.50%). The calculation of interest rate as per the principles discussed above is detailed below for the FY 2022-23.

Table 3-25: Weighted Average Rate of SBI MCLR One Year Tenure

Sl. No.	From Date	To Date	No. of Days	Base Rate	Amount
1	01-04-2022	14-04-2022	14	7.00%	0.98
2	15-04-2022	14-05-2022	30	7.10%	2.13
3	15-05-2022	14-06-2022	31	7.20%	2.23
4	15-06-2022	14-07-2022	30	7.40%	2.22
5	15-07-2022	14-08-2022	31	7.50%	2.33
6	15-08-2022	14-09-2022	31	7.70%	2.39
7	15-09-2022	14-10-2022	30	7.70%	2.31
8	15-10-2022	14-11-2022	31	7.95%	2.46
9	15-11-2022	14-12-2022	30	8.05%	2.42
10	15-12-2022	14-01-2023	31	8.30%	2.57
11	15-01-2023	14-02-2023	31	8.40%	2.60
12	15-02-2023	14-03-2023	28	8.50%	2.38
13	15-03-2023	31-03-2023	17	8.50%	1.45
14	Weighted Average Rate of Interest				7.80%



Sl. No.	From Date	To Date	No. of Days	Base Rate	Amount
15	Add: 150 Basis Point for computing of Interest rate of Working Capital				9.30%

The calculation of interest on Working Capital as per the applicable interest rate & principles discussed above is detailed below along with the approved figures for the FY 2022-23.

Table 3-26: Interest on Working Capital of FY 2022-23 (Rs. Cr.)

Sl. No.	Particulars	FY 2022-23	
		Approved in Tariff Order dated 25.03.2022	Claimed in Truing-up of FY 2022-23
1	Receivables equivalent to two (2) months of Transmission Charges	228.71	222.41
2	O&M Expenses of one month	26.88	29.64
3	Maintenance spares@ 40% of R&M Expenses for one month	2.34	2.16
4	Less: RoE, and Contribution to Contingency Reserves for 2 months	46.37	44.03
5	Total Working Capital	211.55	210.19
6	Rate of Interest on working Capital (%)	8.50%	9.30%
7	Interest on Working Capital to be claimed	17.98	19.54

Therefore, BSPTCL requests the Hon'ble Commission to consider and approve the Interest on Working Capital for truing-up of FY 2022-23 as shown in the table above.

3.12. Incentive/Disincentive

Regulation 38 of the BERC MYT Regulations, 2021 provides that BSPTCL is entitled to incentive/disincentive on account of deviation from target availability set by the Hon'ble Commission. The relevant extracts are as follows:

"38. Incentive/Disincentive

38.1 The Transmission Licensee shall be entitled to incentive/disincentive on account of deviation from target availability set by commission. The transmission charges referred to in Regulation 33 of these Regulations are inclusive of such incentives and disincentives on account of availability of system."



In line with above Regulations, BSPTCL has computed Incentive/Disincentive on account of Transmission Availability Factor for the FY 2022-23.

3.12.1. Incentive on Transmission Availability Factor

BSPTCL has claimed incentive on Transmission Availability Factor (TAF) for FY 2022-23 as per Regulation 16 of the MYT Regulations, 2021. The incentive computation is as per the Formula prescribed in Regulation 16.3 of MYT Regulations, 2021 for FY 2022-23. The following table shows the month-wise Transmission availability achieved by BSPTCL during FY 2022-23:

Table 3-27: Month-wise Transmission Availability of FY 2022-23

Sl. No.	Particulars	Transmission Availability
1	Apr-22	99.26%
2	May-22	99.45%
3	Jun-22	99.50%
4	Jul-22	99.64%
5	Aug-22	99.33%
6	Sep-22	99.42%
7	Oct-22	99.46%
8	Nov-22	99.58%
9	Dec-22	99.10%
10	Jan-23	99.51%
11	Feb-23	99.10%
12	Mar-23	99.69%

BSPTCL submits that it has achieved the actual TAF higher than the target availability for incentive of 98.50% as prescribed in Regulation 16 (1) of BERC MYT Regulations, 2021. The SLDC Certificate for actual TAF achieved by BSPTCL in FY 2022-23 is annexed as **Annexure IV**.

Accordingly, BSPTCL has computed Incentive on account of achieving TAF higher than target availability in FY 2022-23, as shown in table below:

Table 3-28: Incentive on Transmission Availability of FY 2022-23 (Rs. Cr.)

Sl. No.	Particulars	Claimed in Truing-up of FY 2022-23
1	Transmission Availability for FY 2022-23	99.42%
2	Target Availability	98.50%
3	Additional Achievement	0.92%



Sl. No.	Particulars	Claimed in Truing-up of FY 2022-23
4	Annual Transmission Charges	1,334.48
5	Incentive for Target Availability	12.27

Therefore, BSPTCL requests the Hon'ble Commission to approve Incentive on Target availability for truing-up of FY 2022-23 as shown in the table above.

3.13. Non-Tariff Income

The Hon'ble Commission vide Order dated 20th March 2020 had excluded the Deferred Income from the total Non-Tariff Income. In line with the approach, BSPTCL has not considered Deferred Income for computing Non-Tariff Income of FY 2022-23. Further, BSPTCL has also deducted Non-Tariff Income of SLDC. The following Table shows the break-up of Non-Tariff Income based on annual accounts of FY 2022-23.

Table 3-29: Non-Tariff Income of FY 2022-23 (Rs. Cr.)

Sl. No.	Particulars	FY 2022-23	
		Approved in Tariff Order dated 25.03.2022	Claimed in Truing-up of FY 2022-23
1	Income from sale of Scrap		0.00
2	Lease Rental Income		0.00
3	Deferred Income		0.00
4	Interest Income		45.83
5	Other Transmission/Open Access Charges		15.11
6	Income from Tax Refund		3.14
7	Supervision Charges		5.56
8	Interest on Loan and Advances to Staff		0.00
9	STU Charges		0.42
10	Miscellaneous Receipts		1.24
11	Application fee Received		0.08
12	Administrative Charges - Deposit Head		0.49
	Total Non-Tariff Income	65.80	71.87

Accordingly, BSPTCL requests the Hon'ble Commission to consider and approve Non-Tariff Income for truing up of FY 2022-23 as shown in the table above.



3.14. Income from Other Business (OPGW Cable)

BSPTCL submits that it has leased out Dark Fiber of OPGW Network laid on EHV Line of BSPTCL transmission network of existing link.

The Hon'ble Commission vide order dated 20.10.2023 (Case No. 11 of 2023) has given its regulatory Approval for the OPGW Cable business and has also specified the sharing mechanism of the revenue derived from the business.

The relevant extract is as follows:

"..... and accordingly it is decided that "Two third of the amount of Gain from the other business as proposed in the instant petition be allowed to pass through as an adjustment in the tariff of the petitioner and the balance one third of the amount of such gain shall be on account of the petitioner and shall be liable to be utilised at the discretion of the petitioner, BSPTCL."

In this regard, BSPTCL submits that it has to incur O&M expenses in respect of the OPGW cable business. This includes AMC and other O&M expenses. The O&M expenditures are directly related to the OPGW cable business and are certain to be incurred. However, BSPTCL is in the process of tendering for the above AMC and O&M activities. Hence, BSPTCL has not incurred any expenses relating to OPGW Cable business for the FY 2022-23.

The approval of the Hon'ble Commission vide order dated 20.10.2023 (Case No. 11 of 2023) provides for sharing of gains from the other business. Since, gains from the OPGW cable business cannot be quantified with certainty at this stage, BSPTCL has claimed sharing of income derived from other business for the True-up of FY 2022-23 on the basis of actual receipt of the year. However, BSPTCL submits that it shall calculate the gains from OPGW business after accounting for the expenditures from FY 2023-24 onwards and claim the sharing of same in True-up of the respective financial years.

Based on the above, the detail computation of net sharing of the gains derived from the other business is as follows:

Table 3-30: Sharing of Gain of Other Business for the FY 2022-23 (Rs. Cr.)

Sl. No.	Particulars	FY 2022-23	
		Approved in Tariff Order dated 25.03.2022	Claimed in Truing-up of FY 2022-23
1	Income From Other Business	0.00	1.54
2	Expenses of Other Business		0.00



Sl. No.	Particulars	FY 2022-23	
		Approved in Tariff Order dated 25.03.2022	Claimed in Truing-up of FY 2022-23
3	Net Gain/(Loss) from Other Business (1-2)		1.54
4	Sharing of Gain (2/3 of Gain) as per Order dated 20.10.2023 (Case No. 11/2023)		1.03
5	Net Amount pass through Tariff	0.00	1.03

Accordingly, BSPTCL requests the Hon'ble Commission to consider and approve the sharing of gains derived from other business for truing up of FY 2022-23 as shown in the table above.

3.15. Sharing of Gains and Losses

Regulation 10 of BERC MYT Regulations, 2021 specifies the mechanism for sharing of gains and losses on account of controllable factors. The relevant extracts are as follows:

"10.1 The approved aggregate gain or loss to the Licensee or SLDC, as the case may be, on account of controllable factors shall be dealt with separately for aggregate gain and aggregate loss in the following manner:

(a) Aggregate gain:

(i) 50% of the amount of such gain shall be a pass through as an adjustment in the tariff of the Licensee or SLDC, as the case may be, as specified in these Regulations and as may be determined in the Order of the Commission passed under these Regulations;

(ii) The balance 50% of the amount of such gain shall be on account of Licensee or SLDC, as the case may be, and such amount shall be utilized at the discretion of Licensee or SLDC, as the case may be.

(b) Aggregate Loss:

(i) 50% of the amount of such loss shall normally be a pass through as an adjustment in the tariff of the Licensee or SLDC, as the case may be, 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 Licensee or SLDC, as the case may be;

(ii) The balance 50% of the amount of such loss shall be on account of Licensee or SLDC and shall be absorbed by the Licensee or SLDC, as the case may be....."



In accordance with the above Regulations, BSPTCL has claimed sharing of gains and losses on account of O&M expenses, Interest on Working Capital and Incentive on Transmission Availability Factor in True-up of FY 2022-23 as discussed below:

3.14.1. Sharing of Losses/(Gains) on account of variation in O&M expenses

BSPTCL has claimed the sharing of Losses/(Gains) on O&M expenses with respect to the difference between the actual and normative O&M expenses as shown in the Table below:

Table 3-31: Sharing of Losses/(Gains) on account of O&M Expenses (Rs. Cr.)

Sl. No.	Particulars	Basis	Claimed in True up
1	Normative Expenses	A	339.62
2	Actual Expenses	B	365.07
3	Losses/(Gains)	C=B-A	25.45
4	Losses/(Gains) to be passed on as adjustment in Tariff	D=50% of C	12.72
5	Net sharing Losses/(Gains) on O&M Expenses	E=D	12.72

Accordingly, BSPTCL requests the Hon'ble Commission to allow Losses/(Gains) on account of O&M Expenses as an adjustment in truing up of FY 2022-23.

3.14.2. Sharing of Losses/(Gains) on account of variation in Working Capital Requirement

BSPTCL submits that there is no actual working capital for FY 2022-23. Therefore, the **actual working capital has been considered as Nil** and the sharing of Losses/(Gains) has been worked out accordingly. Detail computation of sharing of gains and losses on account of variation in Interest on Working Capital for FY 2022-23 is shown in the Table below:

Table 3-32: Sharing of Losses/(Gains) on account of variation in Interest on Working Capital (Rs. Cr.)

Sl. No.	Particulars	Basis	Claimed in True up
1	Normative Interest on Working Capital	A	19.54
2	Actual Interest on Working Capital	B	0.00
3	Interest on Working Capital Losses/(Gains)	C=B-A	(19.54)
4	50% of gains to be retained by the Licensee	D=50% of C	(9.77)



Sl. No.	Particulars	Basis	Claimed in True up
5	50% of gain to be passed through as an adjustment in Tariff	E=50% of C	(9.77)

Accordingly, BSPTCL requests the Hon'ble Commission to allow losses/(Gains) on account of variation in Interest on Working Capital as an adjustment in truing up of FY 2022-23.

3.14.3. Sharing of Losses/(Gains) on account of Incentives on Transmission Availability Factor

BSPTCL has computed incentives on Transmission Availability for Truing-up of FY 2022-23 earlier in the petition. Accordingly, BSPTCL has computed the sharing of Losses/(Gains) towards incentives on Transmission Availability as shown in the Table below:

Table 3-33: Sharing of Losses/(Gains) on Incentives on Transmission Availability Factor for FY 2022-23 (Rs. Cr.)

Sl. No.	Particulars	Basis	Claimed in True up
1	Incentives on Transmission Availability Factor	A	12.27
2	50% of gains to be on account of Licensee	B=50% of A	6.14
3	50% of gains to be passed-on as adjustment through Tariff	C=50% of A	6.14

Accordingly, BSPTCL requests the Hon'ble Commission to consider the Losses/(Gains) on account of Transmission Availability Factor for truing up of FY 2022-23 as shown in the table above.

3.16. Revenue from Transmission Charges

The Hon'ble Commission has approved Annual Transmission Charges of FY 2022-23 vide MYT Tariff Order dated 25th March 2022. Accordingly, BSPTCL earned revenue on account of Transmission Charges from DISCOM's and Railway during FY 2022-23. The following table shows Revenue earned by BSPTCL as Transmission Charges based on annual accounts of FY 2022-23:



Table 3-34: Revenue from Transmission Charges of FY 2022-23 (Rs. Cr.)

Sl. No.	Particulars	FY 2022-23	
		Approved in Tariff Order dated 25.03.2022	Claimed in Truing-up of FY 2022-23
1	Revenue from NBPDC		557.31
2	Revenue from SBPDCL		654.23
3	Revenue from Railways		19.82
4	Total Revenue from Transmission Charges	1,231.36	1,231.36

Accordingly, BSPTCL requests the Hon'ble Commission to approve Revenue from Transmission charges based on annual accounts for Truing-up of FY 2022-23 as shown in the table above.

3.17. Annual Revenue Requirement of FY 2022-23

Based on above paras, BSPTCL submits the summary of Aggregate Revenue Requirement for truing up of FY 2022-23.

Table 3-35: Aggregate Revenue Requirement of FY 2022-23 (Rs. Cr.)

Sl. No.	Particulars	FY 2022-23	
		Approved in Tariff Order dated 25.03.2022	Claimed in Truing-up of FY 2022-23
1	Employee Expenses	194.59	228.82
2	R&M Expenses	70.19	64.84
3	A&G Expenses	46.37	45.96
4	Share of Holding Company Expenses	11.44	16.08
5	Total O&M Expenses	322.59	355.70
6	Return on Equity	278.24	264.18
7	Depreciation	463.53	410.65
8	Interest on Loan Capital and Finance Charges	355.69	348.21
9	Interest on Working Capital	17.98	19.54
10	Incentive for Transmission Availability	0.00	12.27
11	Add: Sharing of Losses/ (Gains) on O&M expenses	0.00	12.72
12	Add: Sharing of Losses/ (Gains) on Interest on Working Capital	0.00	(9.77)



Sl. No.	Particulars	FY 2022-23	
		Approved in Tariff Order dated 25.03.2022	Claimed in Truing-up of FY 2022-23
13	Add: Sharing of Losses/ (Gains) on Incentives on Transmission Availability Factor	0.00	(6.14)
14	Total Expenditure	1,438.03	1,407.38
15	Less: Non-Tariff Income	65.80	71.87
16	Less: Income From Other Business (OPGW Cable)	0.00	1.03
17	Net ARR for Transmission	1,372.23	1,334.48

Accordingly, BSPTCL requests the Hon'ble Commission to consider and approve the Annual Revenue Requirement for Truing-up of FY 2022-23 as shown in the table above

3.18. Revenue Gap / (Surplus) for FY 2022-23

The Hon'ble Commission vide MYT Tariff Order dated 25th March 2022 approved the ARR for FY 2022-23 as Rs. 1,372.23 Crore and revenue surplus for FY 2020-21 along with carrying cost as Rs. 140.87 Crore, which was carried forward to FY 2022-23. Accordingly, the Hon'ble Commission approved Annual Transmission Charges for FY 2022-23 as Rs. 1,231.36 Crore. BSPTCL submits that during FY 2022-23, it has booked revenue of Rs. 1,231.36 Crore as approved by the Hon'ble Commission. Further, based on above submission, BSPTCL has computed the Revenue Gap/ (Surplus) for FY 2022-23 as summarised below.

Table 3-36: Revenue Gap/(Surplus) of FY 2022-23 (Rs. Cr.)

Sl. No.	Particulars	Approved in Tariff Order dated 25.03.2022	Claimed in Truing-up of FY 2022-23
1	Net ARR for Transmission	1,372.23	1,334.48
2	Add: Revenue Gap/ (Surplus) of FY 2020-21 as approved by BERC Tariff Order dated: 25.03.2022	(140.87)	(140.87)
3	Revenue earned from Transmission Charges	1,231.36	1,231.36
4	Revenue Gap/(Surplus)	0.00	(37.75)

Therefore, BSPTCL requests the Hon'ble Commission to approve Revenue Surplus as shown in the table above for Truing-up of FY 2022-23.



Further, BSPTCL submits that the Revenue Gap/(Surplus) is to be passed on in the ARR and Tariff of FY 2024-25 along with holding cost/ carrying cost.



(4) Annual Performance Review (APR) for FY 2023-24

4.1 Background

BSPTCL has filed Annual Performance Review (APR) for FY 2023-24 as compared to the ARR approved for FY 2023-24 vide Tariff Order dated 21st March 2023. The APR is filed in accordance with relevant provisions of MYT Regulations, 2021. Regulation 7 and Regulation 13 of the BERC (Multi Year Transmission Tariff and SLDC Charges) Regulations, 2021 provides for the Annual Performance Review to be undertaken under MYT framework. The relevant extracts are as follows:

“7 Annual Review of Performance and True-up

7.1 Where the Aggregate Revenue Requirement and expected revenue from tariff and charges of a Transmission Licensee or SLDC, as the case may be, are covered under a Multi-Year Tariff framework, such Transmission Licensee or SLDC shall be subject to an annual review of performance and True-up during the Control Period in accordance with these Regulations....

13 True-Up and Annual Performance Review

..... (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.....”

BSPTCL has estimated the APR for FY 2023-24 as per the above principles provided in the MYT Regulations, 2021 and the same is detailed in the following sections.

4.2 Transmission Losses

The Hon’ble Commission vide MYT order dated 25th March, 2022 has approved Transmission Loss in the BSPTCL system at 3% for each year of the Control Period FY 2022-23 to FY 2024-25. BSPTCL submits that it has made best efforts to restrict the Transmission loss within the range approved by the Hon’ble Commission. The following table shows the Transmission Losses for first half of FY 2023-24:



Table 4-1: Actual Transmission Loss for H1 of FY 2023-24

Sl. No.	Total Losses in the Transmission system	Current Year FY 2023-24 (upto Aug'23)
1	Total Energy delivered by generating Stations and Inter State / Intra State tie - links at the interface points of the Intra State Transmission system - As received from Energy Accounting	19,777.35
2	Sum of all the energy delivered to the state Distribution System- From energy meter readings in GSS	19,262.62
3	Transmission loss in System (1-2)	514.72
4	Transmission loss in (Transco) system (%) (3/1) x100	2.60%

The voltage level wise Transmission Losses from April 2023 to September 2023 is attached as **Annexure V**.

Accordingly, BSPTCL requests the Hon'ble Commission to consider and approve transmission loss in line with the loss approved for the year in the MYT order. It is further submitted that BSPTCL shall submit the actual Transmission Losses for FY 2023-24 at the time of Truing-up.

4.3 Capital Work in Progress (CWIP) and Capitalization

BSPTCL submits that it has taken up new projects during FY 2022-23 and also has planned to take up new projects during FY 2023-24 & FY 2024-25. Accordingly, BSPTCL has filed its Petition for Prior Regulatory Approval of the Hon'ble BEREC (Case No. 17 of 2023). The Order of the Hon'ble Commission on said petition is still awaited.

However, BSPTCL has considered those projects to compute the closing CWIP for the FY 2023-24.

Further, BSPTCL has projected capital expenditure and capitalization for FY 2023-24 based on the current status of all ongoing projects. The following Table shows the approved and estimated capital expenditure and capitalization considered in APR of FY 2023-24:



Table 4-2: Capital Expenditure and Capitalization of FY 2023-24 (Rs. Cr.)

Sl. No.	Particulars	FY 2023-24	
		Approved in Tariff Order dated 21.03.2023	Claimed in APR FY 2023-24
1	Opening CWIP (A)	2,980.06	3,426.34
2	Investment during the Year (B)	803.63	1,247.69
3	Less: Capitalization (C)	2,311.51	3,070.52
4	Less: IDC (D)	0.00	0.00
5	Closing CWIP (A+B-C-D)	1,472.18	1,603.51

The detailed list of projects, which are expected to be completed & capitalized by March 2024 is provided as **Annexure III**.

Accordingly, BSPTCL requests the Hon'ble Commission to consider and approve the Capex and Capitalization for Review of FY 2023-24 as shown in the table above.

4.4 Gross Fixed Asset (GFA)

BSPTCL has considered the closing balance of FY 2022-23 as the opening balance of GFA for FY 2023-24. The following table shows the details of GFA addition estimated for FY 2023-24 and approved GFA vide Tariff Order dated 21st March 2023.

Table 4-3: Gross Fixed Assets (GFA) of FY 2023-24 (Rs. Cr.)

Sl. No.	Particulars	FY 2023-24	
		Approved in Tariff Order dated 21.03.2023	Claimed in APR FY 2023-24
1	Opening GFA	12,429.21	12,101.28
2	Add: Addition to GFA from CWIP (excluding IDC)	2,311.51	3,070.52
3	Add: IDC	0.00	0.00
4	Add: Land Cost	0.00	0.00
5	Closing GFA	14,740.72	15,171.79

Therefore, BSPTCL requests the Hon'ble Commission to consider and approve the asset addition & closing GFA in revised APR for FY 2023-24.



4.5 Depreciation

BSPTCL submits that it has calculated Depreciation in accordance with Regulation 23 of BERC MYT Regulations, 2021. The relevant extract of the Regulation is as follows:

“23. Depreciation

(i) Depreciation shall be calculated for each year of the control period on the original cost of the fixed assets of the corresponding year. No advance shall be granted against depreciation.

(ii) Depreciation shall not be allowed on assets funded by capital subsidies, beneficiary contributions or grants.

*(iii) 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 and at the rate not exceeding the rate specified by the **Central Electricity Regulatory Commission** from time to time as provided in Appendix-III of these Regulations. 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.
..... (iv)*

(v) Depreciation shall be chargeable from the first year of operation of the asset. For part of the year, depreciation shall be charged on pro rata basis.....”

Above Regulation provides that the rate of depreciation should be considered as specified by the Central Electricity Regulatory Commission. BSPTCL has calculated the weighted average rate of depreciation for truing up of FY 2022-23 considering the depreciation rates specified by the Central Electricity Regulatory Commission and detailed in the True-up section of the instant petition.

Accordingly, BSPTCL has considered the weighted average rate of depreciation considered in the truing up of FY 2022-23 for calculating the depreciation for the FY 2023-24.

Further, BSPTCL has also separately computed depreciation on assets created out of Grants/Consumer Contribution/deposit works and adjusted the same in the gross depreciation to arrive at net depreciation for review of FY 2023-24. Details of depreciation along with the approved figures for FY 2023-24 are as shown in table below:



Table 4-4: Depreciation for the FY 2023-24 (Rs. Cr.)

Sl. No.	Particulars	Approved in Tariff Order dated 21.03.2023	Claimed in APR FY 2023-24
1	Depreciable GFA net of Land	10,960.69	10,567.53
2	Addition during the year (excluding IDC)	2,311.51	3,070.52
3	Add: IDC	0.00	0.00
4	Closing GFA	13,272.20	13,638.05
5	Average GFA	12,116.45	12,102.79
6	Weighted average rate of depreciation on opening depreciable GFA	4.55%	5.23%
7	Weighted average rate of depreciation on addition to depreciable GFA	2.77%	2.65%
8	Depreciation	562.79	634.49
9	Opening Grants*	2,105.33	2,117.35
10	Grants during the year including deposit works	469.21	117.04
11	Total Grants*	2,574.54	2,234.39
12	Weighted average rate of depreciation on opening Grants	4.55%	5.23%
13	Weighted average rate of depreciation on addition to Grants	2.77%	2.65%
14	Depreciation on Asset created out of Grants	108.80	113.92
15	Net Depreciation considered for Review	453.99	520.57

Accordingly, BSPTCL requests the Hon'ble Commission to consider and approve Depreciation for review of FY 2023-24 as claimed.

4.6 Operation and Maintenance Expenses

Regulation 21 of the BERC (Multi-Year Transmission Tariff and SLDC Charges) Regulations, 2021 provides that the Operation and Maintenance (O&M) Expenses shall comprise of the following elements:

- a) Employee Expenses
- b) Repair and Maintenance (R&M) Expenses
- c) Administrative and General (A&G) Expenses

The relevant extracts are as follows:

"21. Operation and Maintenance Expenses



(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 Transmission Licensee or a class of Transmission Licensees.

(b) Norms shall be defined in terms of number of personnel per ckt/km (for different categories of transmission lines for e.g. 400 KV, 220 KV, 132 KV etc. Lines) and number of personal per bay (for different categories of bay for e.g. 400 KV, 220 KV, 132 KV etc. Bays) along with annual expenses per personnel for Employee expenses; combination of A&G expense per personnel and A&G expense per substation for A&G expenses and R&M expense as percentage of gross fixed assets for estimation of R&M expenses."

In line with the above provisions, BSPTCL submits the details of O&M expenses under the above heads based on the norms approved by the Hon'ble Commission in the MYT Order Dt. 25th March 2022 and as specified in BERC MYT Regulations, 2021 for consideration & approval of the Hon'ble Commission.

Further, the Hon'ble Commission has revised the Base Norms for Employee Expenses vide Tariff Order dated 21st March 2023. Therefore, BSPTCL has considered the same for computing the Normative Employee Expenses of FY 2023-24.

4.5.1. Employee Expenses

The Hon'ble Commission has approved base norms for the control period of FY 2022-23 to FY 2024-25 vide MYT Tariff Order dated 25th March 2022.

Further, the Hon'ble Commission has revised the Base Norms for Employee Expenses vide Tariff Order dated 21st March 2023. Therefore, BSPTCL has considered the same as base norms and escalated it in accordance with the Regulations & methodology adopted by Hon'ble BERC in the past orders to compute Normative Employee Expenses for Review of FY 2023-24. The following Table shows the norms considered for projecting Employee Expenses of FY 2023-24:

Table 4-5: Base Value considered for Normative Employee Expenses of FY 2023-24

Sl. No.	Particulars	FY 2023-24
1	Number of personnel per Ckt-Km (55%)	0.0823
2	Number of personnel per substation (45%)	7.2218
3	Annual expenses per personnel (Rs. Lakh)	9.3525



Further, BSPTCL has estimated transmission lines (Ckt-Km) and number of sub-stations based on actuals and lines/sub-stations projected to be commissioned during the FY 2023-24.

Table 4-6: Estimated Transmission Lines, No. of Substations and No. of Employee of FY 2023-24

Sl. No.	Particulars	As on Mar-24 (Est.)
1	Transmission Line in Ckt. Km	17,312
2	No. of Sub-stations	153
3	Number of Employees	2,211

Further, Regulation 21.1 of MYT Regulations, 2021 provides for escalation of base value norms for consideration of employee expenses. The relevant extracts are as follows:

“21.1 Employee Cost

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 Transmission 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 Transmission 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.”

In accordance with the above Regulations, BSPTCL has considered the escalation of CPI indices up to March 2023 and accordingly computed rate of escalation of base year employee expenses. The detail computation are as follows:



Table 4-7: Computation of CPI inflation considered for FY 2023-24

Particulars	Actuals				Estimate
	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
Annual Average CPI Index	323	339	356	378	
CPI Inflation		5.02%	5.13%	6.05%	5.40%

Based on above submissions, BSPTCL has computed Normative Employee Expenses for FY 2023-24 as tabulated below:

Table 4-8: Employee Expenses of FY 2023-24 (Rs. Cr.)

Sl. No.	Particulars	Base Norms	FY 2023-24	
			Approved in Tariff Order dated 21.03.2023	Claimed in APR FY 2023-24
1	CPI Inflation		5.89%	5.40%
2	Norms-Number of personnel per Ckt. Km	0.082	0.0823	0.0823
3	Norms-Number of personnel per substation	7.222	7.222	7.2218
4	Transmission line length in Ckt. Km		16,608	17,312
5	No. of Sub-stations		150	153
6	Norms-Annual expenses per personnel (Rs. lakh)	9.352	9.900	9.858
7	Employee cost (Number of personnel per Ckt. Km (2*4*6)/100 (Rs. Crore)		135.36	140.45
8	Employee cost (Number of personnel per substation (3*5*6)/100 (Rs. Crore)		107.28	108.92
9	Total Employee cost for the year (7+8) (Rs. Crore)		242.64	249.37

Accordingly, BSPTCL requests the Hon'ble Commission to consider and approve Employee Cost for review of FY 2023-24 as shown in the table above.



4.5.2. Repairs and Maintenance Expenses (R&M)

Regulation 21.2 of BERC MYT Regulations, 2021 specifies provisions for computation of R&M expenses. The relevant extract of the Regulation is as follows:

"21.2 Repairs and Maintenance (R&M) 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:

$$R\&M_n = K_b * GFA_n$$

Where:

$R\&M_n$: Repairs & Maintenance expense for nth year

GFA_n : Opening Gross Fixed Assets for nth year

K_b : Percentage point as per the norm."

The Hon'ble Commission vide MYT Tariff Order dated 25th March 2022 has approved "K Factor" at 0.70% for each year of the Control Period of FY 2022-23 to FY 2024-25. The R&M expenses for the FY 2023-24 has been computed based on the approved "K Factor" and opening GFA (Net of Land) for the year. The computation of R&M Expenses for review of FY 2023-24 is shown in the table below:

Table 4-9: R&M Expenses of FY 2023-24 (Rs. Cr.)

Sl. No.	Particulars	Approved in Tariff Order dated 21.03.2023	Claimed in APR FY 2023-24
1	Opening GFA (Net of Land)	10,960.69	10,567.53
2	% of GFA	0.70%	0.70%
3	R&M Expenses on Opening GFA (1*2)	76.72	73.97

Accordingly, the Hon'ble Commission is requested to consider and approve R&M Expenses in APR of FY 2023-24 as claimed by BSPTCL.

4.5.3. Administration and General Expenses (A&G)

The Hon'ble Commission has approved base norms of A&G for the control period of FY 2022-23 to FY 2024-25 vide MYT Tariff Order dated 25th March 2022. Accordingly, the applicable norms as considered in the True up for the FY 2022-23 has been



escalated further as per provisions stipulated in the BERC MYT Regulations 2021 to arrive at the applicable norm for the FY 2023-24.

The following Table shows the norms considered for projecting A&G Expenses of FY 2023-24:

Table 4-10: Norms considered for Normative A&G Expenses of FY 2023-24

Sl. No.	Particulars	FY 2023-24
1	A&G Expenses per Personnel (Rs. Lakh)	1.0977
2	A&G Expenses per Sub-station (Rs. Lakh)	14.4182

Regulation 21.3 of BERC MYT Regulations, 2021 provides for escalation of base value norms for consideration of A&G Expenses. The relevant extracts are as follows:

"21.3 Administration and General (A&G) Expense

A&G expense shall be computed as per the norm escalated by wholesale price index (WPI) and Consumer Price Index (CPI) in the ratio 60:40 and adjusted by provisions for confirmed initiatives (IT etc. initiatives as proposed by the Transmission Licensee and validated by the Commission) or other expected one-time expenses, and shall be governed by following formula:

$$A\&G_n = (A\&G_b * WPI \text{ inflation}) + \text{Provision}$$

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....."

In line with the above provisions, BSPTCL has considered average escalation of CPI and WPI indices with weightage of 40:60 respectively for immediately preceding three years (i.e., FY 2020-21, FY 2021-22 & FY 2022-23) on base norm of A&G expenses to compute Normative A&G Expenses of FY 2023-24, as shown in the Table below:

Table 4-11: WPI: CPI inflation considered for A&G Expenses of FY 2023-24

Particulars	Actual				Estimate
	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
Annual Average CPI Index	323	339	356	378	
CPI Inflation		5.02%	5.13%	6.05%	5.40%



Particulars	Actual				Estimate
	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
Annual Average WPI Index	122	123	139	153	
WPI Inflation		1.29%	13.00%	9.41%	7.90%
WPI: CPI (60:40)					6.90%

Based on above, the following Table shows the computation of A&G expenses for review of FY 2023-24.

Table 4-12: A&G Expenses of FY 2023-24 (Rs. Cr.)

Sl. No.	Particulars	Base Value	FY 2023-24	
			Approved in Tariff Order dated 21.03.2023	Claimed in APR FY 2023-24
1	Average annual WPI & CPI Index		5.89%	6.90%
2	Norms-A&G Expenses per personnel	1.0977	1.1590	1.1735
3	Norms-A&G Expenses per substation (Rs. Lakh)	14.4182	15.2180	15.4130
4	No. of Employees		2,200.00	2,211.00
5	No. of Sub-stations		150.00	153.00
6	A&G Expenses (No. of employees) (2*4) (Rs. Crore)		25.49	25.95
7	A&G Expenses (No of substations) (3*5) (Rs. Crore)		22.83	23.58
8	Total A&G Expenses for the year (Rs. Crore) (6+7)		48.32	49.53

Accordingly, BSPTCL requests the Hon'ble Commission to consider and approve the A&G Expenses for review of FY 2023-24 as claimed.

4.5.4. Holding Company Expenses

BSPTCL submits that expenses of BSP(H)CL, which is the Holding Company of all the State Utilities and Generating Company, is recovered from its subsidiary Companies. In line with the methodology adopted in Tariff Order dated 25th March 2022, BSPTCL has claimed Holding Company expenses for review of FY 2023-24 on the basis of actual



expenses of FY 2022-23. However, BSPTCL also submits that any variation with respect to the submitted expenses shall be claimed in True-up for the year.

Table 4-13: Holding Company Expenses of FY 2023-24 (Rs. Cr.)

Sl. No.	Particulars	Approved in Tariff Order dated 21.03.2023	Claimed in APR FY 2023-24
1	Holding Company Expenses	16.40	16.08

Therefore, BSPTCL requests the Hon'ble Commission to consider and approve Holding Company Expenses for APR of FY 2023-24 as shown in the table above.

4.5.5. Summary of O&M Expenses of FY 2023-24

Based on above paras, BSPTCL has summarised O&M Expenses for review of FY 2023-24 as follows:

Table 4-14: Summary of O&M Expenses of FY 2023-24 (Rs. Cr.)

Sl. No.	Particulars	FY 2023-24	
		Approved in Tariff Order dated 21.03.2023	Claimed in APR FY 2023-24
1	Employee Expenses	242.64	249.37
2	Repairs and Maintenance Expenses	76.72	73.97
3	Administration and General Expenses	48.32	49.53
4	Holding Company Expenses	16.40	16.08
5	Total Operation and Maintenance Expenses	384.08	388.95

Accordingly, the Hon'ble Commission is requested to approve O&M Expenses in APR of FY 2023-24 as claimed by BSPTCL.

4.7 Means of Finance

Regulation 22 (a) of BERC MYT Regulations, 2021, provides as follows:

"22. Return on Equity

- (a) Return on equity shall be computed on 30% of the capital cost or actual equity, whichever is lower....."



Further, Regulation 24 (b) of BERC MYT Regulations, 2021 specifies provisions for loan addition of Normative Loan. The relevant extracts are as follows:

“24. Interest and finance charges on loan capital

.....(b) If the equity actually deployed is more than 30 % of the capital cost, equity in excess of 30 % shall be treated as normative loan: Provided that where equity actually deployed is less than 30% of the capital cost, the actual loan shall be considered for determination of interest on loan....”

BSPTCL has arrived at the means of finance for the projects in accordance with the above Regulations. Accordingly, BSPTCL submits that for the purpose of funding, it has computed Net Asset expected to be capitalized during FY 2023-24 after deducting the amount estimated to be capitalised on account of grant received from PSDF and Deposit works. Further, BSPTCL has considered the Debt Equity ratio in line with the approach adopted by the Hon’ble Commission in previous Tariff Orders. The scheme wise Debt Equity of capitalised projects of FY 2023-24 for the purpose of Loan and Equity addition is shown in the Table below:

Table 4-15: Scheme-wise Means of Finance of FY 2023-24 (Rs. Cr.)

Sl. No.	Particulars	FY 2023-24 Estimate
1	Capitalization during FY 2023-24	3,070.52
2	Less: Grant and Deposit Works	117.04
3	Net Capitalization (A)	2,953.48
4	12th Plan Projects	
5	Equity Considered	20.62
6	Debt Considered	53.48
7	13th Plan & Other Projects	
8	Equity Considered	636.87
9	Debt Considered	2,242.52
10	Total Equity addition considered	657.48
11	Total Debt addition considered	2,296.00

Accordingly, BSPTCL requests the Hon’ble BERC to consider and approve the above calculation for Normative Equity and Loan addition for Review of FY 2023-24.

4.8 Interest and Finance Charges

BSPTCL has considered the closing balance of normative loan in Truing-up of FY 2022-23 as the normative opening balance of loan for FY 2023-24 and Normative loan addition has been claimed as per the Means of Finance discussed above.



Further, in accordance with Regulation 24(e) of MYT Regulations, 2021 normative repayment of loans has been considered equivalent to Depreciation of FY 2023-24.

The Hon'ble Commission vide Tariff Order dated 21st March 2023 has considered Rate of Interest based on applicable MCLR and actual Loan Portfolio for approval of Truing up of expenses and further considered the same for approval of APR and ARR of the respective years. BSPTCL has considered the same methodology to arrive at the applicable weighted average rate of interest for the FY 2023-24. The details of actual loans outstanding at the beginning of FY 2023-24 and applicable interest rates are as shown in the Table below:

Table 4-16: Weighted Average Rate of Interest for FY 2023-24

Sl. No.	Particulars	Amount Outstanding (Rs. Crore)	Applicable Interest Rate
1	Loans from Financial Institution	3,200.00	7.85%
2	Loans from ADB	464.13	13.00%
Weighted Average Interest Rate			8.56%

BSPTCL has considered the weighted average rate of interest as shown in the table above for computing Normative Interest on Loans for review of FY 2023-24 as tabulated below. Further, estimated finance charges for the year are also included to arrive at the total interest & finance charges for the year.

Table 4-17: Interest and Finance Charges of FY 2023-24 (Rs. Cr.)

Sl. No.	Particulars	FY 2023-24	
		Approved in Tariff Order dated 21.03.2023	Claimed in APR FY 2023-24
1	Opening Loan (A)	4,670.62	4,325.77
2	Addition during the year	1,482.56	2,296.00
3	Normative Repayment (Equal to Depreciation)	453.99	520.57
4	Closing Loan	5,699.19	6,101.20
5	Average Loan	5,184.90	5,213.48
6	Interest Rate (%)	7.87%	8.56%
7	Interest on Loan	408.05	446.44
8	Other Finance Charges	0.16	1.04
9	Interest and Finance Charges (7+8)	408.21	447.48



Accordingly, the Hon'ble Commission is requested to consider and approve the Interest and Finance Charges in APR of FY 2023-24 as claimed by BSPTCL.

4.9 Return on Equity

BSPTCL submits that it has calculated RoE in accordance with Regulation 22 and 27 of BERC MYT Regulations, 2021, as reproduced below:

"22. Return on Equity

...(b) *The return on the equity invested shall be allowed from the date of start of commercial operation and after put to use:*

(c) Return on equity shall be computed at the rate of 15.5% for the project which is commissioned w.e.f. 01.04.2015 and further incentive equivalent to 0.5% will be allowed in the form of RoE, if the project is completed within schedule as per the Annexure A or original schedule period as the case may be. However, Return on Equity for the project commissioned prior to 01.04.2015 shall be allowed at the rate of 14%."

27. Tax on Return on Equity

.....(2) *Rate of return on equity shall be rounded off to two decimal places and shall be computed as per the formula given below:*

Rate of pre-tax return on equity = Base rate / (1-t)

Where "t" is the effective tax rate in accordance with Clause (1) of this regulation and shall be calculated at the beginning of every financial year based on the estimated profit and tax to be paid estimated in line with the provisions of the relevant Finance Act applicable for that financial year to the company on pro-rata basis by excluding the income of non-generation or non-transmission business, as the case may be, and the corresponding tax thereon. In case of licensee/SLDC paying Minimum Alternate Tax (MAT), "t" shall be considered as MAT rate including surcharge and cess."

BSPTCL submits that it has considered closing equity balance of FY 2022-23 as opening equity base for FY 2023-24. The addition of equity is in line with normative means of finance computed for FY 2023-24 and detailed above in this section. BSPTCL proposes to claim RoE at 10% as approved in the MYT order for the year. It is submitted that claiming lower ROE at 10% for the FY 2023-24 shall not imply that BSPTCL shall continue to claim ROE at 10% in perpetuity. At the time of filing the next Tariff Petition, BSPTCL shall be at liberty to claim ROE either at the reduced rate of 10% or 15.5% as per MYT Regulations, 2021. Further, BSPTCL has considered the MAT rate of 17.47% in line with the actual MAT rate applicable for FY 2022-23. RoE for the FY 2023-24 calculated in line with the above principles is summarised in the table below:



Table 4-18: Return on Equity of FY 2023-24 (Rs. Cr.)

Sl. No.	Particulars	FY 2023-24	
		Approved in Tariff Order dated 21.03.2023	Claimed in APR FY 2023-24
1	Opening Equity as on 01.04.2015	375.41	375.41
2	Rate of Return on Equity	10.00%	10.00%
3	Tax/MAT rate %	17.47%	17.47%
4	Rate of Return on Equity (Pre-tax)	12.12%	12.12%
5	Return on Equity (1*4)	45.50	45.49
	Equity on projects commissioned w.e.f. 1.4.2015		
6	Opening Equity	1,974.55	1,946.73
7	Addition during the year	359.74	657.48
8	Closing Equity (6+7)	2,334.29	2,604.21
9	Average Equity	2,154.42	2,275.47
10	Rate of Return on Equity	10.00%	10.00%
11	Tax/MAT rate %	17.47%	17.47%
12	Rate of Return on Equity (Pre-tax)	12.12%	12.12%
13	Return on Equity (9*12)	261.12	275.72
14	Total Return on Equity (5+13)	306.61	321.21

Therefore, BSPTCL requests the Hon'ble Commission to approve the pre-tax Return on Equity for review of FY 2023-24 as shown in the table above.

4.10 Interest on Working Capital

BSPTCL has arrived at the working capital requirement in accordance with Regulation 26 of BERC MYT Regulations, 2021. The relevant extracts are as follows:

"26 Interest on working Capital

(a) The Transmission Licensee shall be allowed interest on the estimated level of working capital for the financial year, computed as follows:

(i) Receivables equivalent to two (2) month of transmission charges calculated on target availability level.

(ii) O&M Expenses of one (01) month.

(iii) Maintenance spares @ 40% of R&M expenses for one month.

Less:



(iv) Return on equity and contribution to contingency reserves equivalent to two months.

.....(b) 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....."

BSPTCL has arrived at the normative working capital requirement in accordance with the above regulation. Further, BSPTCL has considered the State Bank of India (SBI) one-year MCLR as on 15.09.2023 and added 150 basis point to compute interest rate for Working Capital. The SBI 01-year (tenure) MCLR as on 15.09.2023 is 8.55%. Accordingly, interest rate has been considered as 10.05% (8.55%+1.50%). The computation of weighted average rate of interest is shown in the Table below:

Table 4-19: Weighted Average Rate of SBI MCLR One Year Tenure

Particulars	Rate of Interest
SBI MCLR effective from 15 September 2023	8.55%
ADD: 150 Basis Point	1.50%
Interest Rate for Working Capital	10.05%

The calculation of interest on Working Capital as per the principles discussed above is detailed below along with the approved figures for the FY 2023-24.

Table 4-20: Interest on Working Capital of FY 2023-24 (Rs. Cr.)

Sl. No.	Particulars	FY 2023-24	
		Approved in Tariff Order dated 21.03.2023	Claimed in APR FY 2023-24
1	Receivables equivalent to two (2) months of Transmission Charges	252.66	271.18
2	O&M Expenses of one month	32.01	32.41
3	Maintenance spares @ 40% of 1-month R&M expenses	2.56	2.47
4	Less: RoE and Contribution to Contingency Reserve for 2 months	51.10	53.53
	Total Working Capital	236.13	252.53
5	Interest on Working Capital (%)	9.55%	10.05%
6	Interest on Working Capital	22.55	25.38



Therefore, BSPTCL requests the Hon'ble Commission to approve the Interest on Working Capital in APR of FY 2023-24 as shown in the table above.

4.11 Non-Tariff Income

BSPTCL submits that it has considered Non-Tariff Income for FY 2023-24 after escalating 5% on actual NTI of FY 2022-23 as per methodology adopted by Hon'ble Commission in the MYT Order. Any variation in Non-Tariff Income shall be submitted at the time of true-up for FY 2023-24.

The calculation of Non-Tariff Income claimed for review of FY 2023-24 is shown below:

Table 4-21: Non-Tariff Income of FY 2023-24 (Rs. Cr.)

Sl. No.	Particulars	FY 2023-24	
		Approved in Tariff Order dated 21.03.2023	Claimed in APR FY 2023-24
1	Non-Tariff Income of FY 2022-23	56.63	71.87
2	Escalation (%)	5.00%	5.00%
3	Increase	2.83	3.59
4	Non-Tariff Income for the Year	59.46	75.46

Therefore, BSPTCL requests the Hon'ble Commission to consider and approve the Non-Tariff Income in review of FY 2023-24 as claimed.

4.12 Income from Other Business (OPGW Cable)

The Hon'ble Commission vide order dated 20.10.2023 (Case No. 11 of 2023) has given its regulatory Approval for the OPGW Cable business and has also specified the sharing mechanism of the revenue derived from the business.

The relevant extract is as follows:

"..... and accordingly it is decided that "Two third of the amount of Gain from the other business as proposed in the instant petition be allowed to pass through as an adjustment in the tariff of the petitioner and the balance one third of the amount of such gain shall be on account of the petitioner and shall be liable to be utilised at the discretion of the petitioner, BSPTCL."

In this regard, BSPTCL submits that it has to incur O&M expenses in respect of the OPGW cable business. This includes AMC and other O&M expenses. The O&M expenditures are directly related to the OPGW cable business and are certain to be incurred. However, BSPTCL is in the process of tendering for the above AMC and O&M activities. Hence, the costs involved are yet to be firmed up. Further, since, there



are no past data in respect of the OPGW cable business, estimation is also difficult. Therefore, BSPTCL has not been able to calculate the gains that may accrue on account of the CPGW cable business.

The approval of the Hon'ble Commission vide order dated 20.10.2023 (Case No. 11 of 2023) provides for sharing of gains from the other business. Since, gains from the OPGW cable business cannot be quantified with certainty at this stage, BSPTCL has claimed sharing of gains derived from other business in the APR of FY 2023-24 on the basis of actual receipt of FY 2022-23. However, BSPTCL submits that it shall calculate the gains from OPGW business and claim the variation in respect of the same based on the audited figures in True-up for the year.

Table 4-22: Sharing of gain from Other Business for the FY 2023-24 (Rs. Cr.)

Sl. No.	Particulars	FY 2023-24	
		Approved in Tariff Order dated 21.03.2023	Claimed in APR FY 2023-24
1	Sharing of Gain from Other Business (OPGW Cable)	0.00	1.03

Therefore, BSPTCL requests the Hon'ble Commission to consider and approve the sharing of revenue from other business in review of FY 2023-24 as claimed.

4.13 Aggregate Revenue Requirement of FY 2023-24

Based on the above paras, BSPTCL has summarised Aggregate Revenue Requirement along with approved figures for review of FY 2023-24 as follows.

Table 4-23: Aggregate Revenue Requirement of FY 2023-24 (Rs. Cr.)

Sl. No.	Particulars	FY 2023-24	
		Approved in Tariff Order dated 21.03.2023	Claimed in APR FY 2023-24
1	O&M expenses (a+ b+ c+ d)	384.08	388.95
	a. Employee cost	242.64	249.37
	b. R&M expenses	76.72	73.97
	c. A&G Expenses	48.32	49.53
	d. Holding Company expenses	16.40	16.08
2	Depreciation	453.99	520.57
3	Interest on Loan Capital	408.21	447.48
4	Interest on Working Capital	22.55	25.38
5	Return on Equity	306.61	321.21



Sl. No.	Particulars	FY 2023-24	
		Approved in Tariff Order dated 21.03.2023	Claimed in APR FY 2023-24
6	Less: Non-Tariff Income	59.46	75.46
7	Less: Income From Other Business (OPGW Cable)	0.00	1.03
8	ARR for Transmission	1,515.98	1,627.10
9	Add: Revenue Gap/(Surplus) of Previous Year	(339.36)	(339.36)
10	Net ARR	1,176.62	1,287.74

Accordingly, BSPTCL requests the Hon'ble Commission to consider and approve the Annual Revenue Requirement for review of FY 2023-24 as shown in the table above.

4.14 Revenue Gap/(Surplus) for FY 2023-24

The Hon'ble Commission vide Tariff Order dated 21st March 2023 approved Annual Transmission Charges of Rs. 1,515.98 Crore for FY 2023-24 and surplus of FY 2021-22 along with holding cost as Rs. 339.36 Cr. Accordingly, the Hon'ble Commission approved Annual Transmission Charges for FY 2023-24 as Rs. 1,176.62 Cr. Therefore, BSPTCL has considered the approved transmission charges as above as revenue in APR of FY 2023-24.

Table 4-24: Revenue Gap/(Surplus) of FY 2023-24 (Rs. Cr.)

Sl. No.	Particulars	Approved in Tariff Order dated 21.03.2023	Claimed in APR FY 2023-24
1	ARR for Transmission	1,515.98	1,627.10
2	Add: Revenue Gap/(Surplus) of FY 2021-22 along with Holding Cost	(339.36)	(339.36)
3	Revenue approved in Tariff Order of FY 2023-24	1,176.62	1,176.62
4	Revenue Gap/(Surplus)	0.00	111.12

Accordingly, BSPTCL requests the Hon'ble Commission to consider and approve the Revenue Gap in review of FY 2023-24 as shown in the table above.

In regards to the carry forward/passing of gap/surplus for the year under review, Regulation 13 (f) stipulates that,



“13. True-Up and Annual Performance Review...

... (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.**

In view of the above regulation and principle adopted by the Hon'ble BERC in previous tariff orders, the Revenue Gap worked out in the APR of FY 2023-24 is not proposed to be passed through in the Tariff for FY 2024-25.



(5) Annual Revenue Requirement for FY 2024-25

5.1. Background

BSPTCL has filed the revised ARR for FY 2024-25 in accordance with relevant provisions of BERC MYT Regulations, 2021. The Hon'ble Commission has already approved the ARR for FY 2024-25 in the MYT Tariff Order dated 25th March 2022. However, BSPTCL has filed for approval of revised ARR and accordingly Tariff for FY 2024-25 based on actuals of FY 2022-23 and revised estimates of FY 2023-24.

Regulation 11.3 of BERC MYT Regulations, 2021 requires the Transmission Licensee to file for revised ARR for each year of the Control Period. The relevant extracts are as follows:

"11.3 An application (along with soft copy) for determination of tariff and charges shall be made by 15th November every year, for Truing up of expenses of previous years, for Annual Performance Review (APR) of the Aggregate Revenue Requirement (ARR) for the current year and determination of ARR and transmission tariff or SLDC charges for the ensuing years of the control period. The application should contain the data relating to each item of the ARR supported with the information/data in the formats Form no-SI to Form no-P12 appended to these Regulations and accompanied by such fees as may be specified under the BERC (Fees, Fines and Charges) Regulations, 2005 as amended from time to time. All the information as required in the formats appended to these Regulations along with justification shall be provided in the main petition... (Emphasis Added)."

Regulation 4 of the MYT Regulations, 2021 also provides for determination of the Transmission Charges for each year of the Control Period. The relevant extract of the Regulation is as follows:

"4.1 The Commission shall determine the tariff for Transmission business or charges of SLDC operations under a Multi-Year Tariff framework with effect from April 1st of each financial year subject to provisions under these Regulations..... (Emphasis Added)."

Accordingly, BSPTCL has proposed for re-determination of ARR for FY 2024-25, as discussed in the subsequent paragraphs.

5.2. Transmission Losses

The Hon'ble BERC vide MYT order dated 25th March, 2022 has approved Transmission Loss at 3% for each year of the Control Period of FY 2022-23 to FY 2024-25. BSPTCL submits that it has taken various initiatives to reduce transmission losses and to achieve the transmission loss target of 3% as approved by the Hon'ble Commission.



Accordingly, BSPTCL has proposed the Transmission Loss of 3% for the FY 2024-25 as approved by the Hon'ble Commission in the MYT order.

Table 5-1: Transmission Loss of FY 2024-25

Particulars	FY 2024-25 (Approved in MYT Order)	FY 2024-25 (Projection)
Transmission Loss (%)	3.00%	3.00%

Therefore, it is requested to kindly approve transmission loss of FY 2024-25 as approved in MYT Tariff Order dated 25th March 2022. It is further submitted that BSPTCL shall claim the actual transmission loss at the time of Truing-up of FY 2024-25.

5.3. Capital Work in Progress (CWIP) and Capitalization

BSPTCL has projected capital expenditure and capitalization for FY 2024-25, based on the status of all ongoing Projects. BSPTCL proposes to complete significant number of the projects within FY 2024-25. The detailed list of projects expected to be commissioned & capitalized in FY 2024-25, i.e., by March 2025, is attached as **Annexure III**.

BSPTCL has considered the closing CWIP of FY 2023-24 estimated in APR of FY 2023-24 as the opening CWIP for FY 2024-25. The following Table shows the projected capital expenditure and capitalization of FY 2024-25:

Table 5-2: Capital Expenditure and Capitalization of FY 2024-25 (Rs. Cr.)

Sl. No.	Particulars	FY 2024-25	
		Approved in MYT Order	Projected in ARR FY 2024- 25
1	Opening CWIP (A)	1,496.20	1,603.51
2	Investment during the Year (B)	541.65	645.17
3	Less: Capitalization (C)	1,795.64	1,413.48
4	Less: IDC (D)	0.00	0.00
5	Closing CWIP (A+B-C-D)	242.21	835.20

Accordingly, BSPTCL requests the Hon'ble Commission to approve the Capital Expenditure and Capitalization for FY 2024-25 as projected above.



5.4. Gross Fixed Asset (GFA)

BSPTCL has considered the opening GFA for FY 2024-25 equal to the closing GFA estimated in APR of FY 2023-24. The addition to GFA is considered based on the estimated capitalisation for FY 2024-25 as discussed in the above para. The following Table shows the schedule of Gross Fixed Asset as projected for ARR of FY 2024-25:

Table 5-3: Gross Fixed Assets (GFA) of FY 2024-25 (Rs. Cr.)

Sl. No.	Particulars	FY 2024-25	
		Approved in MYT Order	Projected in ARR FY 2024-25
1	Opening GFA	14,582.40	15,171.79
2	Add: Additions to GFA from CWIP (excl. IDC)	1,795.64	1,413.48
3	Add: IDC	0.00	0.00
4	Add: Land Cost	0.00	0.00
5	Closing GFA	16,378.04	16,585.27

Therefore, it is requested that the Hon'ble Commission may consider and approve the addition and Closing GFA as projected for the FY 2024-25.

5.5. Depreciation

BSPTCL has projected depreciation for FY 2024-25 in accordance with Regulation 23 of the BERC MYT Regulations, 2021. The relevant provisions are as follows:

"23. Depreciation

- i. Depreciation shall be calculated for each year of the control period on the original cost of the fixed assets of the corresponding year. No advance shall be granted against depreciation.*
- ii. Depreciation shall not be allowed on assets funded by capital subsidies, beneficiary contributions or grants.*
- iii. 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 and at the rate not exceeding the rate specified by the Central Electricity Regulatory Commission from time to time. 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.....*

..... 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."



BSPTCL has considered opening depreciable GFA equal to the closing depreciable GFA considered in APR of FY 2023-24. Further, BSPTCL has considered additions to GFA equal to projected capitalisation as discussed in above para. The rate of depreciation has been considered same as the weighted average rate of Depreciation considered for truing up of FY 2022-23. The following Table shows the Depreciation projected by BSPTCL for FY 2024-25:

Table 5-4: Depreciation for the FY 2024-25 (Rs. Cr.)

Sl. No.	Particulars	FY 2024-25	
		Approved in MYT Order	Projected in ARR FY 2024-25
1	Value of GFA net of Land	13,134.08	13,638.05
2	Addition during the year (excluding land and IDC)	1,795.64	1,413.48
3	Add: IDC	0.00	0.00
4	Closing GFA	14,929.72	15,051.52
5	Average GFA	14,031.90	14,344.78
6	Weighted average rate of depreciation on opening depreciable GFA	5.21%	5.23%
7	Weighted average rate of depreciation on addition to depreciable GFA	3.89%	2.65%
8	Depreciation	753.89	751.27
9	Opening Grants	2,215.59	2,234.39
10	Grants during the year	0.00	9.60
11	Total Grants	2,215.59	2,243.99
12	Average Grants	2,215.59	2,239.19
13	Weighted average rate of depreciation on opening Grants	5.21%	5.23%
14	Weighted average rate of depreciation on addition to Grants	3.89%	2.65%
15	Depreciation on Asset created out of Grants	115.38	117.20
16	Net Depreciation considered in ARR (9-15)	638.51	634.07

Therefore, BSPTCL requests the Hon'ble Commission to consider and approve the Depreciation for the FY 2024-25 as shown in the above table.

5.6. Operation and Maintenance Expenses

BSPTCL submits that it has projected each of the heads under Operation and Maintenance Expenses of FY 2024-25 as per provisions of the BERC MYT Regulations,



2021. The detail computations of each of the heads of O&M Expenses is discussed below:

5.6.1. Employee Expenses

The Hon'ble Commission has approved norms for Employee Expenses for each year of the control period of FY 2022-23 to FY 2024-25 vide Tariff Order dated 25th March, 2022.

Further, the Commission has revised its norms for Employee Expenses vide Tariff Order dated 21st March 2023. Accordingly, BSPTCL has considered the same and has further escalated it for arriving the base norm of Employee Expenses of FY 2024-25. The following Table shows the base value of norms approved to compute Normative Employee Expenses for the FY 2024-25.

Table 5-5: Base Value considered for Normative Employee Expenses of FY 2024-25

Sl. No.	Particulars	FY 2024-25 Projection
1	Number of personnel per Ckt. km (55%)	0.0823
2	Number of personnel per substation (45%)	7.2218
3	Annual expenses per personnel (Rs. Lakh)	9.8576

BSPTCL has considered the escalation on the above base value norms for computing Normative Employee Expenses of FY 2024-25. Further, BSPTCL has projected Transmission Line in Ckt. Km & number of sub-stations based on projections of ongoing projects to be completed by FY 2024-25. The number of employees for FY 2024-25 has been considered based on retirements & planned recruitments during the year. The details of these parameters are provided in the following Table:

Table 5-6: Projected Transmission Lines, No. of Substations and No. of Employee of FY 2024-25

Sl. No.	Particulars	As on Mar, 2025 (Projected)
1	Transmission Line in Ckt. Km	17,312
2	No. of sub-stations	153
3	No. of employees	2,172

Further, Regulation 21.1 of BERC MYT Regulations, 2021 specifies that the employee cost shall be computed as per the approved norms escalated by average increase in CPI for immediately preceding three years. The relevant excerpt of the regulation is as follows:



“21.1 Employee Cost 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 Transmission 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.....”

In accordance with the above Regulations, BSPTCL has considered the increase in the CPI indices up to March 2023 and accordingly computed rate of escalation of base year employee expenses. The detail computation are as follows:

Table 5-7: Computation of CPI Inflation considered for FY 2024-25

Particulars	Actual				Projected	
	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
Annual Average CPI Index	323	339	356	378		
CPI Inflation		5.02%	5.13%	6.05%	5.40%	5.40%

Further, BSPTCL has considered the escalation on the base value norms of Annual expenses per personnel as per methodology adopted by the Hon'ble Commission in the previous tariff order.

In line with above submissions, the following Table shows the computation of Normative Employee Expenses of FY 2024-25:

Table 5-8: Employee Expenses of FY 2024-25 (Rs. Cr.)

Sl. No.	Particulars	Norms considered for FY 2024-25	FY 2024-25	
			Approved in MYT Order	Projected in ARR FY 2024-25
1	Average annual CPI Inflation		6.00%	5.40%
2	Norms-Number of personnel per Ckt. Km	0.082	0.0824	0.0823



Sl. No.	Particulars	Norms considered for FY 2024-25	FY 2024-25	
			Approved in MYT Order	Projected in ARR FY 2024-25
3	Norms-Number of personnel per substation	7.2218	7.2245	7.2218
4	Transmission line length in Ckt. Km		19,850	17,312
5	No. of Sub-stations		165	153
6	Norms-Annual expenses per personnel (Rs. lakh)	9.8576	8.6700	10.3900
7	Employee cost (Number of personnel per Ckt. Km (2*4*6)/100 (Rs. Crore)		141.75	148.03
8	Employee cost (Number of personnel per substation (3*5*6)/100 (Rs. Crore)		103.35	114.80
9	Total Employee cost for the year (7+8) (Rs. Crore)		245.10	262.84

Accordingly, the Hon'ble Commission is requested to consider and approve the Normative Employee Expenses as claimed in the above table for ARR of FY 2024-25.

5.6.2. Repairs and Maintenance Expenses (R&M)

Regulation 21.2 of MYT Regulations, 2021 specifies provisions for computation of R&M expenses, the relevant extract of the Regulation is as follows:

"21.2 Repairs and Maintenance (R&M) 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:

$$R\&M_n = K_b * GFAn$$

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 Hon'ble Commission has approved "K Factor" of 0.70% for each year of the Control Period of FY 2022-23 to FY 2024-25 vide Tariff Order dated 25th March, 2022.



The R&M expenses for the FY 2024-25 has been computed based on the approved “K Factor” and opening GFA (Net of Land) for the year. The computation of R&M expenses for the FY 2024-25 is shown in the following Table:

Table 5-9: R&M Expenses of FY 2024-25 (Rs. Cr.)

Sl. No.	Particulars	Approved in MYT Order	Projected in ARR FY 2024-25
1	Opening GFA (net of Land)	13,134.08	13,638.05
2	% on GFA	0.70%	0.70%
3	R&M Expenses on Opening GFA (1*2)	91.94	95.47

Therefore, BSPTCL requests the Hon’ble Commission to approve the R&M Expenses of 2024-25 as claimed in the table above.

5.6.3. Administration and General Expenses (A&G)

A&G Expenses mainly comprise of rent charges, telephone and other communication expenses, professional charges, conveyance and travelling allowances and other debits.

The Hon’ble Commission vide MYT Tariff Order dated 25th March 2022 has approved Base Norms for the control period for computing Normative A&G Expenses. The applicable/escalated norms as considered in the APR for the FY 2023-24 has been escalated further as per provisions stipulated in the BERC MYT Regulations 2021 to arrive at the applicable norm for the FY 2024-25. The following table shows the norms considered by BSPTCL for computing Normative A&G Expenses.

Table 5-10: Base Value considered for Normative A&G Expenses of FY 2024-25

Sl. No.	Particulars	FY 2024-25 Projection
1	A&G Expenses per personnel (Rs. Lakh)	1.1735
2	A&G Expenses per sub-station (Rs. Lakh)	15.4130

BSPTCL has considered the escalation on the above base value norms for computing A&G expenses for FY 2024-25. Regulation 21.3 of the BERC MYT Regulations, 2021 provides for escalation of base value norms for consideration of A&G Expenses. The relevant extracts are as follows:

“21.3 Administrative and General (A&G) Expense



A&G expense shall be computed as per the norm escalated by wholesale price index (WPI) and Consumer Price Index (CPI) in the ratio 60:40 and adjusted by provisions for confirmed initiatives (IT etc. initiatives as proposed by the Transmission Licensee and validated by the Commission) or other expected one-time 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 ...”

In accordance with the above Regulation, BSPTCL has calculated the weighted average inflation rate of WPI & CPI Indices in the ratio of 60:40 as provided in the following table:

Table 5-11: WPI: CPI inflation considered for A&G Expenses of FY 2024-25

Particulars	Actual				Projected	
	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
Annual Average CPI Index	323	339	356	378		
CPI Inflation		5.02%	5.13%	6.05%	5.40%	5.40%
Annual Average WPI Index	122	123	139	153		
WPI Inflation		1.29%	13.00%	9.41%	7.90%	7.90%
WPI : CPI (60:40)					6.90%	6.90%

BSPTCL has computed A&G expenses in accordance with Regulation 21.3 of BERC MYT Tariff Regulations, 2021 considering the base norms & escalation factor as discussed above. The calculation of A&G expenses is provided in the following table:

Table 5-12: A&G Expenses of FY 2024-25 (Rs. Cr.)

Sl. No.	Particulars	Norms considered in FY 2024-25	FY 2024-25	
			Approved in MYT Order	Projected in ARR FY 2024-25
1	Average annual WPI & CPI Index		3.85%	6.90%
2	Norms-A&G Expenses per personnel	1.1735	1.1644	1.2544



Sl. No.	Particulars	Norms considered in FY 2024-25	FY 2024-25	
			Approved in MYT Order	Projected in ARR FY 2024-25
3	Norms-A&G Expenses per substation (Rs. Lakh)	15.4130	15.3000	16.4765
4	No. of Employees		2,263	2,172
5	No. of Sub-stations		165	153
6	A&G Expenses (No. of employees) (2*4) (Rs. Crore)		26.35	27.25
7	A&G Expenses (No of substations) (3*5) (Rs. Crore)		25.24	25.21
8	Total A&G Expenses for the year (Rs. Crore) (6+7)		51.59	52.46

Therefore, BSPTCL requests the Hon'ble Commission to consider and approve the A&G Expenses for the ensuing year as claimed.

5.6.4. Holding Company Expenses

BSPTCL submits that BSP(H)CL, which is the Holding Company of all the State Utilities and Generating Company, recovers its expenses from its subsidiary Companies. BSPTCL is claiming holding expenses separately in line with the methodology adopted by the Hon'ble Commission.

In absence of Norms, BSPTCL has claimed Holding Company expenses of FY 2024-25 on the basis of actual expenses incurred in FY 2022-23 and has not claimed any escalation in Holding Expenses. Further, any variation with respect to the Holding Company Expenses shall be claimed in Truing up of FY 2024-25.

Table 5-13: Holding Company Expenses of FY 2024-25 (Rs. Cr.)

Sl. No.	Particulars	Approved in MYT Order	Projected in ARR FY 2024-25
1	Holding Company Expenses for FY 2021-22	11.44	16.08
2	Inflationary Increase	0.00	0.00
3	Holding Company Expenses	11.44	16.08

Therefore, BSPTCL requests the Hon'ble Commission to approve the Holding Company Expenses as claimed in the above table for ARR of FY 2024-25.



5.6.5. Summary of O&M Expenses

Based on above details, BSPTCL has summarised the O&M expenses claimed in revised ARR of FY 2024-25 as shown in the Table below:

Table 5-14: Summary of O&M Expenses of FY 2024-25 (Rs. Cr.)

Sl. No.	Particulars	Approved in MYT Order	Projected in ARR FY 2024-25
1	Employee Expenses	245.10	262.84
2	Repairs and Maintenance Expenses	91.94	95.47
3	Administration and General Expenses	51.59	52.46
4	Holding Company Expenses	11.44	16.08
5	Total Operation and Maintenance Expenses	400.06	426.84

Therefore, BSPTCL requests the Hon'ble Commission to approve the Operation and Maintenance Expenses as claimed in the above table for revised ARR of FY 2024-25.

5.7. Means of Finance

Regulation 22 (a) of MYT Regulations, 2021, provides that:

"22. Return on Equity

(a) Return on equity shall be computed on 30% of the capital cost or actual equity, whichever is lower."

Further, Regulation 24 (b) specifies as under:

"(b) If the equity actually deployed is more than 30 % of the capital cost, equity in excess of 30 % shall be treated as normative loan: Provided that where equity actually deployed is less than 30% of the capital cost, the actual loan shall be considered for determination of interest on loan..."

BSPTCL has arrived at the means of finance for the projects in accordance with the above Regulations. Accordingly, BSPTCL submits that for the purpose of funding, it has computed Net Asset expected to be capitalized during FY 2024-25 after deducting the amount estimated to be capitalised on account of grant received from PSDF and Deposit works. Further, BSPTCL has considered the Debt Equity ratio in line with the approach adopted by the Hon'ble Commission in previous Tariff Orders. The details of the Debt Equity of capitalised projects of FY 2024-25 for the purpose of Loan and Equity addition is shown in the Table below:



Based on above Regulations, BSPTCL submits that it has computed Equity and Loan addition by considering scheme wise net GFA addition for the FY 2024-25. The detail computation for Normative Equity and Loan addition of FY 2024-25 is provided below:

Table 5-15: Means of Finance of FY 2024-25 (Rs. Cr.)

Sl. No.	Particulars	FY 2024-25 Projection
1	Capitalization during FY 2024-25	1,413.48
2	Less: Deposit Work and Grants	9.60
3	Net Capitalization (A)	1,403.88
4	13th Plan Projects	
5	Equity Considered	0.00
6	Debt Considered	0.00
7	New Projects	
8	Equity Considered	305.52
9	Debt Considered	1,098.36
10	Total	
11	Total Equity addition Considered	305.52
12	Total Debt addition Considered	1,098.36

Accordingly, The Hon'ble Commission is requested to consider and approve the Normative Equity and Loan addition of FY 2024-25.

5.8. Interest and Finance Charges

BSPTCL has considered normative opening balance of loan for FY 2024-25 equal to the closing balance of normative loan considered in APR of FY 2023-24. Normative Loan addition has been considered as the per means of finance computed above. Further, the rate of interest has been considered same as that claimed for the Truing up of Expenses for the FY 2022-23 and Review of FY 2023-24. Accordingly, BSPTCL has computed Interest and Finance Charges of FY 2024-25 as shown in the following Table:

Table 5-16: Interest and Finance Charges of FY 2024-25 (Rs. Cr.)

Sl. No.	Particulars	FY 2024-25	
		Approved in MYT Order	Projected in ARR FY 2024-25
1	Opening Loan (A)	5,595.59	6,101.20
2	Addition during the year	1,436.51	1,098.36
3	Normative Repayment (Equal to Depreciation)	638.51	634.07



Sl. No.	Particulars	FY 2024-25	
		Approved in MYT Order	Projected in ARR FY 2024-25
4	Closing Loan	6,393.59	6,565.49
5	Average Loan	5,994.59	6,333.34
6	Interest Rate (%)	7.93%	8.56%
7	Interest on Loan	475.38	542.34
8	Other Finance Charges	0.04	1.04
9	Interest and Finance Charges (7+8)	475.42	543.38

Therefore, BSPTCL requests the Hon'ble Commission to consider and approve the Normative Interest on Loan and Finance Charges for the revised ARR of FY 2024-25 as shown in the table above.

5.9. Return on Equity

BSPTCL has calculated RoE in accordance with Regulation 22 of MYT Regulations, 2021, as reproduced below:

"22. Return on Equity

.....(c)Return on equity shall be computed at the rate of 15.5% for the project which is commissioned w.e.f. 01.04.2015 and further incentive equivalent to 0.5% will be allowed in the form of RoE, if the project is completed within schedule as per the Annexure A or original schedule period as the case may be. However, Return on Equity for the project commissioned prior to 01.04.2015 shall be allowed at the rate of 14%."

Further Clause 2 of Regulation 27 specifies the formula for computation of RoE. The relevant extract of the Regulation is as follows:

"27. Tax on Return on Equity

..... 2) Rate of return on equity shall be rounded off to two decimal places and shall be computed as per the formula given below:

$Rate\ of\ pre\text{-}tax\ return\ on\ equity = Base\ rate / (1-t)$

Where "t" is the effective tax rate in accordance with Clause (1) of this regulation and shall be calculated at the beginning of every financial year based on the estimated profit and tax to be paid estimated in line with the provisions of the relevant Finance Act applicable for that financial year to the company on pro-rata basis by excluding the income of non-generation or non-transmission business, as the case may be, and the corresponding tax thereon. In case of licensee/SLDC paying Minimum Alternate Tax (MAT), "t" shall be considered as MAT rate including surcharge and cess."



BSPTCL has considered the opening balance of equity for FY 2024-25 same as the closing balance of equity of FY 2023-24. Equity addition has been considered as per the means of finance computed in above para.

BSPTCL proposes to claim RoE at 8% against that approved in the MYT order for the control Period of FY 2022-23 to FY 2024-25. It is submitted that claiming lower ROE at 8% for the FY 2024-25 shall not imply that BSPTCL shall continue to claim ROE at 8% in perpetuity. At the time of filing the next Tariff Petition, BSPTCL shall be at liberty to claim ROE either at the reduced rate of 8% or 15.5% as per MYT Regulations, 2021 Further, BSPTCL has considered the MAT rate of 17.47% in line with the actual MAT rate applicable for FY 2022-23. The detail computation of RoE for the FY 2024-25 calculated in line with the above principles is summarised in the table below:

Table 5-17: Return on Equity of FY 2024-25 (Rs. Cr.)

Sl. No.	Particulars	FY 2024-25	
		Approved in MYT Order	Projected in ARR FY 2024-25
1	Opening Equity as on 1.4.2015	375.41	375.41
2	Rate of Return on Equity	10.00%	8.00%
3	Tax/MAT rate %	17.47%	17.47%
4	Rate of Return on Equity (Pre-tax)	12.12%	9.69%
5	Return on Equity (1*4)	45.50	36.39
	Equity on projects commissioned w.e.f.1.4.2015		
6	Opening Equity	2,383.31	2,604.21
7	Addition during the year	359.13	305.52
8	Closing Equity (6+7)	2,742.44	2,909.73
9	Average Equity	2,562.88	2,756.97
10	Rate of Return on Equity	10.00%	8.00%
11	Tax/MAT rate %	17.47%	17.47%
12	Rate of Return on Equity (Pre-tax)	12.12%	9.69%
13	Return on Equity (9*12)	310.62	267.25
14	Total Return on Equity (5+13)	356.12	303.64

Therefore, the Hon'ble Commission is requested to approve the Return on Equity as shown in the above table for revised ARR of FY 2024-25.

5.10. Interest on Working Capital

BSPTCL has computed the working capital requirement in accordance with Regulation 26 of MYT Regulations, 2021, as follows:



“26 Interest on working Capital

(a) The Transmission Licensee shall be allowed interest on the estimated level of working capital for the financial year, computed as follows:

(i) Receivables equivalent to two (2) month of transmission charges calculated on target availability level.

(ii) O&M Expenses of one (01) month.

(iii) Maintenance spares @ 40% of R&M expenses for one month.

Less:

(iv) Return on equity and contribution to contingency reserves equivalent to two months.

(v) Amount of security deposits from Transmission System users, if any, held during the year except the security deposits held in the form of Bank Guarantee from Transmission System Users.....

b) Interest on working capital shall be on normative basis and rate of interest shall be equal to the State Bank (one-year tenure) 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.....”

In accordance with above provisions, BSPTCL has considered State Bank of India (SBI) one-year MCLR as on 15th September, 2023 and added 150 basis point to compute the applicable interest rate for Working Capital. The SBI 01-year (tenure) MCLR as on 15th September 2023 is 8.55%. Accordingly, interest rate has been considered as 10.05% (8.55%+1.50%).

Accordingly, BSPTCL has projected the interest on working capital for revised ARR of FY 2024-25, as tabulated below:

Table 5-18: Interest on Working Capital of FY 2024-25 (Rs. Cr.)

Sl. No.	Particulars	FY 2024-25	
		Approved in MYT Order	Projected in ARR FY 2024-25
1	Receivables equivalent to two (2) month of transmission charges	303.57	309.60
2	O&M Expenses of one month	33.34	35.57
3	Maintenance spares @ 40% of 1-month R&M expenses	3.06	3.18



Sl. No.	Particulars	FY 2024-25	
		Approved in MYT Order	Projected in ARR FY 2024-25
4	Less: RoE and Contribution to Contingency Reserve for 2 months	59.35	50.61
5	Total Working Capital	280.62	297.74
6	Interest on Working Capital (%)	8.50%	10.05%
7	Interest on Working Capital	23.85	29.92

Therefore, BSPTCL requests the Hon'ble Commission to consider and approve the Interest on Working Capital for revised ARR of FY 2024-25 as projected.

5.11. Non-Tariff Income

BSPTCL submits that it has considered the Non-Tariff Income for FY 2024-25 by escalating estimated NTI of FY 2023-24 by 5% as per the methodology adopted by Hon'ble Commission in the MYT Order. Any variation in Non-Tariff Income shall be submitted at the time of true-up for FY 2024-25. The calculation of Non-Tariff Income claimed for review of FY 2024-25 is shown below:

Table 5-19: Non-Tariff Income of FY 2024-25 (Rs. Cr.)

Sl. No.	Particulars	FY 2024-25	
		Approved in MYT Order	Projected in ARR FY 2024-25
1	Non-Tariff Income of FY 2023-24	69.09	75.46
2	Escalation (in %)	5%	5%
3	Increase (in Rs. Cr.)	3.45	3.77
4	Non-Tariff Income for the Year	72.54	79.24

Therefore, BSPTCL requests the Hon'ble Commission to consider and approve the Non-Tariff Income as computed in the table above for revised ARR of FY 2024-25.

5.12. Income from Other Business (OPGW Cable)

The Hon'ble Commission vide order dated 20.10.2023 (Case No. 11 of 2023) has given its regulatory Approval for the OPGW Cable business and has also specified the sharing mechanism of the revenue derived from the business.

The relevant extract is as follows:

“..... and accordingly it is decided that “Two third of the amount of Gain from the other business as proposed in the instant petition be allowed to pass through as an adjustment in the



tariff of the petitioner and the balance one third of the amount of such gain shall be on account of the petitioner and shall be liable to be utilised at the discretion of the petitioner, BSPTCL."

In this regard, BSPTCL submits that it has to incur O&M expenses in respect of the OPGW cable business. This includes AMC and other O&M expenses. The O&M expenditures are directly related to the OPGW cable business and are certain to be incurred. However, BSPTCL is in the process of tendering for the above AMC and O&M activities. Hence, the costs involved are yet to be firmed up. Further, since, there are no past data in respect of the OPGW cable business, estimation is also difficult. Therefore, BSPTCL has not been able to calculate the gains that may accrue on account of the CPGW cable business.

The approval of the Hon'ble Commission vide order dated 20.10.2023 (Case No. 11 of 2023) provides for sharing of gains from the other business. Since, gains from the OPGW cable business cannot be quantified with certainty at this stage, BSPTCL has claimed sharing of gains derived from other business in the ARR of FY 2024-25 on the basis of actual receipt of FY 2022-23. However, BSPTCL submits that it shall calculate the gains from OPGW business and claim the variation in respect of the same based on the audited figures in True-up for the year.

Table 5-20: Sharing of gain from Other Business for the FY 2024-25 (Rs. Cr.)

Sl. No.	Particulars	FY 2024-25	
		Approved in MYT Order	Projected in ARR FY 2024-25
1	Sharing of Gain from Other Business (OPGW Cable)	0.00	1.03

Therefore, BSPTCL requests the Hon'ble Commission to consider and approve the sharing of gain derived from other business as computed in the table above for revised ARR of FY 2024-25.

5.13. Aggregate Revenue Requirement

Based on the discussions made in previous sections of this Chapter, BSPTCL has summarised the Aggregate Revenue Requirement for Transmission Business of FY 2024-25, as shown in the Table below:



Table 5-21: Aggregate Revenue Requirement of FY 2024-25 (Rs. Cr.)

Sl. No.	Particulars	FY 2024-25	
		Approved in MYT Order	Projected in ARR FY 2024-25
1	O&M expenses (a+ b+ c+ d)	400.06	426.84
	<i>a. Employee cost</i>	245.10	262.84
	<i>b. R&M expenses</i>	91.94	95.47
	<i>c. A&G Expenses</i>	51.59	52.46
	<i>d. Holding Company expenses</i>	11.44	16.08
2	Depreciation	638.51	634.07
3	Interest on Loan Capital	475.42	543.38
4	Interest on Working Capital	23.85	29.92
5	Return on Equity	356.12	303.64
6	Less: Non-Tariff Income	72.54	79.24
7	Less: Income From Other Business (OPGW Cable)	0.00	1.03
8	Net ARR	1,821.42	1,857.59

Accordingly, the Hon'ble Commission is requested to consider and approve the Net Revised ARR as claimed by BSPTCL for FY 2024-25.



(6) Annual Transmission Charges

6.1. Trued-up Revenue Gap/ (Surplus) of FY 2022-23

BSPTCL had computed Net Revenue Gap/ (Surplus) in the previous section of truing up of FY 2022-23. In accordance with the BERC MYT Regulations, 2021, BSPTCL has adjusted the Trued-up Gap/ (Surplus) of FY 2022-23 along with holding cost to the revised ARR of FY 2024-25. The following table shows the Revenue Gap/ (Surplus) considered by BSPTCL after computing the carrying cost as per the methodology adopted by the Hon'ble Commission in previous Tariff orders:

Table 6-1: Revenue Gap/(Surplus) of FY 2024-25 (Rs. Cr.)

Sl. No.	Particulars	Amount (Rs. Crore)
1	Revenue Surplus in True Up of 2022-23	(37.75)
2	Interest for FY 2022-23 [(SBI MCLR +1.50%) @ 9.30%] for 6 months	(1.75)
3	Interest for FY 2023-24 [(SBI MCLR +1.50%) @10.05%]] for 1 year	(3.79)
4	Interest for FY 2024-25 [(SBI MCLR +1.5%) @10.05%] for 6 months	(1.90)
5	Total Interest to be adjusted in ARR of FY 2024-25	(7.45)
6	Total Revenue Gap to be adjusted in ARR of FY 2024-25	(45.19)

Therefore, BSPTCL requests the Hon'ble Commission to consider and approve the Revenue Gap/ (Surplus) along with Holding Cost as computed in the table above for Revised ARR of FY 2024-25.

Further, BSPTCL submits that it has also computed Revenue Gap/(Surplus) in APR of FY 2023-24 as detailed in the previous section of the instant petition. However, in accordance with the provisions of MYT Regulations, 2021 and principle adopted by the Hon'ble BERC in previous tariff orders, BSPTCL has not adjusted the same in the revised ARR of FY 2024-25.

6.2. Net Aggregate Revenue Requirement

Based on above submission, BSPTCL has computed Net Revised Aggregate Revenue Requirement for FY 2024-25. The details of Net ARR for FY 2024-25 are as follows:



Table 6-2: Net Aggregate Revenue Requirement of FY 2024-25 (Rs. Cr.)

Sl. No.	Particulars	FY 2024-25 Projection
1	Net ARR considered for FY 2024-25	1,857.59
2	Less: Revenue Surplus of FY 2022-23 along with Holding cost	(45.19)
3	Annual Transmission Charges for FY 2024-25 (1+2)	1,812.40

Accordingly, BSPTCL requests the Hon'ble Commission to allow the proposed Annual Transmission Charges for the FY 2024-25 and pass such orders for recovery of the same.

6.3. Methodology of Recovery of ARR

Regulation 33 and 34 specifies the procedure for recovery of Annual Transmission Charges, as reproduced below:

“33. Annual Transmission Charges (ATC)

33.1 The annual Transmission charges of the transmission system shall be computed on annual basis, in accordance with norms contained in these regulations, aggregated as appropriate, and recovered on monthly basis as transmission charge from the users.

33.2 The Transmission charge (inclusive of incentive/29disincentive) for AC system payable for a calendar month shall be:

$$ARR \times (NDM/NDY) \times (TAFM/NATAF)$$

Where;

$$NATAF = 98\%$$

$$NDM = \text{Number of days in the month}$$

$$NDY = \text{Number of days in the year}$$

TAFM = Transmission System availability factor for the month, in percent computed in accordance with Appendix-II.

34. Sharing of charges for Intra-State Transmission Network

34.1 The Aggregate Revenue Requirement of the Transmission Licensee, as approved by the Commission, shall be shared by all long-term users and medium-term users of the transmission system on monthly basis in the ratio of their respective contracted transmission capacities to the total contracted transmission capacity, in accordance with the following formula:



$$TC_n = (\text{Transmission ARR net of incentive/disincentive}) \times (NDM/NDY) \times CC_n/SCC$$

Where,

TC_n = transmission charges for the month payable by the n th long-term user or medium-term user of the transmission system;

Transmission ARR = Aggregate Revenue Requirement of the Transmission Licensee, determined in accordance with Regulation 68 of these Regulations;

CC_n = capacity contracted in MW by the n th long-term user or medium-term user of the transmission system during the month;

SCC = sum of capacities contracted in MW by all long-term users and medium-term users of the transmission system during the month;

NDM=Number of days in the month

NDY=Number of days in the year

Provided that the TC_n shall be payable on monthly basis by each long-term user or medium-term user of the transmission system and shall be collected by the State Transmission Utility (STU)."

In accordance with the above Regulation, BSPTCL requests the Hon'ble Commission to permit BSPTCL to recover the Annual Transmission Charges in 12 monthly instalments, subject to achievement of normative transmission availability of 98%.

For the purpose of determination of Transmission Charges, BSPTCL has allocated the proposed Annual Transmission Charges between NBPDC/ SBPDCL and Railways based on the Maximum Projected Load during FY 2024-25. The Details of expected maximum projected load of NBPDC, SBPDCL and Railways during FY 2024-25 are provided in the following table:

Table 6-3: Maximum Projected Load during FY 2024-25 (in MW)

Sl. No.	Particulars	Contracted Capacity (MW)
1	North Bihar Power Distribution Company Limited	3,706.22
2	South Bihar Power Distribution Company Limited	4,350.78
3	Total DISCOMs	8,057.00
4	Railway	100.00
5	Total DISCOMs+ Railway	8,157.00

BSPTCL submits that it has considered the Maximum Projected load for computation of Transmission Charges of the FY 2024-25.



6.4. Transmission Charges for NBPDC and SBPDCL

BSPTCL has bifurcated the total ARR based on the maximum projected load of individual long-term consumers. The combined maximum load of NBPDC and SBPDCL is considered as detailed in above para. Accordingly, the Monthly Transmission Charges of BSPTCL is proposed to be recovered from both the Distribution Companies is as follows:

Table 6-4: Transmission Charges for NBPDC and SBPDCL (Rs. Cr.)

Sl. No.	Particulars	FY 2024-25 Projection
1	Annual Transmission Charges for FY 2024-25 (Rs. Crore)	1,812.40
2	Total Maximum Projected Load (in MW)	8,157.00
3	Total Maximum Load of NBPDC and SBPDCL	8,057.00
4	Annual Transmission Charges to be levied to NBPDC and SBPDCL (Rs. Crore)	1,790.18
5	Monthly Transmission Charges to be levied to NBPDC and SBPDCL (Rs. Crore)	149.18

Accordingly, the Hon'ble Commission is requested to allow BSPTCL to recover monthly Transmission Charges from NBPDC and SBPDCL as computed in the table above in proportion to the power sharing ratio, subject to target availability.

6.5. Transmission Charges for Railways

BSPTCL has bifurcated the total ARR based on the maximum projected load of individual long-term open access consumers. The maximum load of Railway is considered at 100 MW based on contracted capacity. Accordingly, the Monthly Transmission Charges of BSPTCL to be recovered from Railways is as follows:

Table 6-5: Transmission Charges for Railways (Rs. Cr.)

Sl. No.	Particulars	FY 2024-25 Projection
1	Annual Transmission Charges for FY 2024-25 (Rs. Crore)	1,812.40
2	Total Maximum Projected Load (in MW)	8,157.00
3	Total Contracted Capacity of Railways	100.00
4	Annual Transmission Charges to be levied to Railways (Rs. Crore)	22.22
5	Monthly Transmission Charges to be levied to Railways (Rs. Crore)	1.85



Therefore, the Hon'ble Commission is requested to allow BSPTCL to recover monthly Transmission Charges from Railways as computed in the table above, subject to target availability.

6.6. Transmission Charges for Short Term Open Access Consumers

BSPTCL has determined Short Term Open Access charges in accordance with the methodology adopted by the Hon'ble Commission in the previous Tariff Order.

Transmission Charges payable by Short Term Open Access Consumer shall be determined by the following formula.

$$\text{Transmission Charges} = \text{ATC} / (\text{PLST} \times 8760)$$

Where,

ATC = Annual Transmission Charges arrived for FY 2023-24 for BSPTCL in Rs. Crore

PLST = Peak Load Projected to be served by the State Transmission System. "

Accordingly, BSPTCL has computed Transmission Charges for Short Term Open Access Consumers as follows:

Table 6-6: Transmission Charges for Short Term Open Access Consumers (Rs./MWh)

Sl. No.	Particulars	FY 2024-25 Projection
1	Annual Transmission Charges for FY 2024-25 (Rs. Crore)	1,812.40
2	Total Maximum Projected Load (in MW)	8,157.00
3	Transmission Charges for Short Term Open Access Consumer (Rs./MWh)	253.64

Further, BSPTCL submits that the Transmission Charges for Short Term Open Access consumers shall be payable on the basis of energy actually scheduled for short-term transactions.



(7) Prayers

BSPTCL respectfully prays that the Hon'ble Commission may be pleased to consider and approve the following:

- a. Admit this Petition;
- b. Examine the proposal submitted by the Petitioner in the enclosed Petition for a favourable dispensation;
- c. Pass suitable Orders with respect to the True-up of ARR for FY 2022-23, APR for FY 2023-24, ARR and Tariff Proposal for FY 2024-25 according to applicable provisions under BERC (Multi-Year Transmission Tariff and SLDC Charges) Regulations, 2021;
- d. Approve Open Access Charges in Tariff Order of BSPTCL which is to be recovered from open access consumers.
- e. Permit to propose suitable changes to the respective True-up/APR/ARRs, prior to the final approval by the Hon'ble Commission;
- f. Condone any inadvertent omission/errors/short comings and permit the petitioner to add/change/modify/alter this filing and make further submissions as may be required at a future date;
- g. Pass desired impact of issues raised by BSPTCL in appeals & review along with carrying cost in ensuing Tariff Order in case the appeals & review are ruled in favour of BSPTCL;
- h. Pass such Order as the Hon'ble Commission may deem fit and appropriate keeping in view the facts and circumstances of the case.



(8) Compliance to Directives

The Hon'ble Commission in Tariff Order dated 21st March 2023, had issued certain directives to BSPTCL. This Chapter deals with the compliance status of directives for compliance and implementation by the Petitioner.

Directive 1: Energy Auditing and Transmission Loss

a) **Hon'ble Commission's direction:**

"..... The audited accounts depict quantitative details of transmission loss for the year; however, the month-wise energy account details are not incorporated. The Commission directs the petitioner to incorporate the same for certification by the auditor."

b) **Compliance Status and Actions**

BSPTCL submits that it has maintained the month-wise State Energy Account and the same has been annexed as **Annexure VI**. Further, BSPTCL also submits that it has incorporated State Energy Accounting details in Annual Accounts.

Directive 2: Maintenance of Asset / Property Register

a) **Hon'ble Commission's direction:**

".....The Commission again directs the BSPTCL to submit the property register showing all the particulars along with subsequent tariff petition for trueing up for FY 2022-23 without fail. Failing which, the Commission shall deduct 0.01% of revised ARR (true up) for FY 2022-23 as a penalty."

b) **Compliance Status and Actions**

BSPTCL submits that it had floated tender for Identification, Valuation, Preparation of Fixed Asset Register and Physical Verification of Fixed Assets of Bihar State Power Transmission Company Limited. However, in absence of sufficient No. of bids, BSPTCL had to cancel it. Further, SAP-ERP system in BSPTCL was implemented in phased manner to streamline various business processes, including asset management and it is in full-fledged operation from 2022. Since, adoption of ERP system's functionalities in Asset Register was crucial for integrated centralized asset database along-with real-time asset management across the company, as such comprehensive tender for FAR could be prepared incorporating modalities of ERP. It is submitted that only few Power utilities have undertaken preparation of Asset Register considering SAP-ERP and have faced similar challenge of identification and consideration of Assets prior to unbundling. Such, documents have been considered for preparing draft tender of BSPTCL.



It is further submitted that BSPTCL has taken the following steps to prepare the Fixed Assets Register.

1. BSPTCL has prepared Tender Documents by referring to the specifications of other successful power sector utilities having SAP-ERP system and has undertaken similar project to implement the best practice of assets management and further attract more competent bidders.
2. BSPTCL has also interacted with the potential bidders for a comprehensive overview of the project requirements and to learn constraints faced by them in implementing FAR in different utilities and identifying such areas of improvement required in instant tender.
3. Considering the scope of work and quantum of assets, the entire project is expected to be completed within 24 months from the date of award.

In view of the above, it is humbly requested to the Hon'ble Commission to kindly consider & allow appropriate time for finalization & submission of FAR of BSPTCL.

Directive 3: Meters at interface points of BSPTCL & BGCL

a) Hon'ble Commission's direction:

".....The Commission again directs the petitioner to take joint meter readings at the interface points of BGCL/BSPTCL/DISCOMs and authenticated monthly report shall be submitted to the Commission every month."

b) Compliance Status and Actions

BSPTCL had earlier submitted that the representatives of BSPTCL and BGCL have agreed on joint meter readings and any issues/discrepancies arising from the same would be resolved by senior officers of BGCL and BSPTCL jointly. In this regard, regular meetings between representatives of BSPTCL and BGCL are being held.

Accordingly, BSPTCL submits the month-wise report of State Energy Account as **Annexure - VI**.

Directive 4: Auxiliary Consumption and Electricity Charges

a) Hon'ble Commission's direction:

".....The Commission directs the petitioner to regularly monitor the auxiliary consumption is within the specified limit/level."

b) Compliance Status and Actions

BSPTCL submits that as on 30.09.2023, BSPTCL has obtained 203 No. of meters from DISCOM for auxiliary consumption of the Grid Sub-stations. Further, BSPTCL has also



applied for new meter connection for newly constructed 03 No. of GSS and 03 No. of existing GSS.

Further, BSPTCL submits that, out of 150 No. of GSS, only 72 No. of GSS have colonies for BSPTCL employees. However, all individual houses of the colonies have obtained separate meters from DISCOMs for metering own consumption.

Further, BSPTCL submits the details of GSS wise meters for measuring auxiliary consumption, auxiliary consumption for one month and status of availability of meters in the colonies as **Annexure - VII**.

Directive 6: Standalone Accounting Statement

a) Hon'ble Commission's direction:

".....BSPTCL is directed to prepare separate books of accounts for Transmission Business and SLDC Business and submit for tariff proceedings of subsequent year onwards duly audited and certified by the Statutory auditor....."

The Commission has noted the compliance and reiterates the directive"

b) Compliance Status and Actions:

BSPTCL submits that it has prepared joint annual accounts for BSPTCL and SLDC for the FY 2022-23. However, Allocation Statement of expenses and income of SLDC duly certified by the Statutory Auditor is submitted as **Annexure - I**.

Previously, the Hon'ble Commission has determined tariff/charges for SLDC considering the allocation statement of expenses and income.

Accordingly, BSPTCL requests the Hon'ble Commission to consider allocation statement for truing up.

Directive 7: Submission of Peak and Average Loading of Transmission Elements

a) Hon'ble Commission's direction:

"BSPTCL was directed to submit details of peak and average loading of transmission lines and substations on quarterly basis....."

.....The Commission has noted the compliance and reiterates the directive"

b) Compliance Status and Actions:



BSPTCL submits that the required information on average as well as peak loading of various 220 kV, 132 kV and 33 kV sub-stations in BSPTCL network for the 1st quarter of FY 2023-24 has already been submitted to the Hon'ble Commission.

Further, information regarding 1st Quarter of FY 2023-24 has been submitted as **Annexure - VIII** of this Petition.

Directive 8: Direct Capitalization

a) Hon'ble Commission's direction:

"BSPTCL was directed to strictly adhere to Regulation 6.6 of the BERC (Procedure for filing Capital investment and capitalization plan), 2018 and obtain approval for assets capitalized directly....."

.....The Commission has noted the compliance and reiterates the directive."

b) Compliance Status and Actions:

BSPTCL submits that it has not capitalized any asset directly. BSPTCL has taken regulatory approval from the Hon'ble Commission for all ongoing projects in the past. The list of projects approved by the Hon'ble Commission in past Tariff Order have been enlisted in **Annexure - III** of this Petition.

Directive 9: Regulatory Accounting

a) Hon'ble Commission's direction:

"BSPTCL was directed was directed to prepare and submit the Regulatory Accounts as per BERC (Power Regulatory Accounting) Regulations 2018 in the next tariff proceeding....."

..... The reply furnished by the utility is not tenable. No action is taken by the utility till to date from the date of notification of regulations, which is highly objectionable. The Commission reiterates the directive"

b) Compliance Status and Actions:

BSPTCL submits that the process of preparation of Regulatory Accounts for BSPTCL shall be taken up after full implementation of SAP/ERP system.

Directive 12: Transmission losses reporting/computation:

a) Hon'ble Commission's direction:



“Transmission loss is calculated by SLDC considering the data from ABT meters installed on LV side of 33 kV transformers. Whereas the Discoms considers the data from feeder meters. It was reported, meters for more than half the feeders are yet to be installed and BSPTCL is in the process of installation of meters on un-metered feeders. In the absence of complete feeder metering and meter readings on LV side of transformers there are errors in computation transmission losses. The Commission directs the BSPTCL to prepare and maintain the energy account on monthly basis depicting the following details;

1. Energy input in to the state transmission system/network of BSPTCL.
2. Energy input in to the state transmission system/network of BGCL.
3. Energy input in to the transmission network of BSPTCL from BGCL network.
4. Energy input in to the transmission network of BSPTCL at 220kV (source-wise).
5. Energy input in to the transmission network of BSPTCL at 132kV (source-wise).
6. Energy input into the BSPTCL network before the Discoms input/interface metering point.
7. Transmission losses in the BSPTCL transmission network.
8. Joint meter readings of all interface points relating to input of BSPTCL network and output at BSPTCL and input interface points of Discoms network shall be furnished duly authenticated by the BSPTCL, BGCL and Discoms as the case may be.
9. The metering arrangement shall be made as per the CEA installation and operation of meters regulations 2006 and its amendments thereof.”

b) Compliance Status and Actions

BSPTCL submits the required information as **Annexure - IX**.

**Truing-up for FY 2022-23, Annual Performance Review (APR) for FY
2023-24 And Aggregate Revenue Requirement (ARR) & Tariff
Proposal for the FY 2024-25 For Bihar State Power Transmission
Company Limited**

PETITION FORMATS

INDEX OF FORMATS S1 TO P12 FOR ARR & TARIFF FILING			
Summary Formats			
1	Sheet	S1	Profit & Loss Account
2	Sheet	S2	Balance Sheet
3	Sheet	S3	Cash flow statement
Financial Formats			
4	Sheet	F1	Annual Revenue Requirement
5	Sheet	F2	Alloted Transmission Capacity and Charges to be paid by Long Term Transmission Customers
6	Sheet	F3	Projection of Sales, Connected Load and Demand
7	Sheet	F4	Revenue at current tariif rates and at proposed tariif rates
8	Sheet	F5	Details of Transmission Lines and Substations including Investment plan
9	Sheet	F6	Normative Parameters Considered for Tariff Computations
10	Sheet	F7	Gross Fixed Assets(GFA) and Depreciation
11	Sheet	F8	User contributions and grants towards cost of capital assets
12	Sheet	F9	Details of Loans
13	Sheet	F10	Details of Equity
14	Sheet	F11	Interest, IDC & Financing Charges
15	Sheet	F12	Details of Lease
16	Sheet	F13	Operations & Maintenance Cost
17	Sheet	F14	Employee expenses
18	Sheet	F15	R&M Expenses
19	Sheet	F16	Administrative & General Expenses
20	Sheet	F17	Short Term Open access consumers
21	Sheet	F18	Details of Non-tariff Income
22	Sheet	F19	Working Capital Interest
23	Sheet	F20	Details of Income from Other Business
24	Sheet	F21	Details of Expenses Capitalised
25	Sheet	F22	Net Prior Period Expenses/Income & Extraordinary Items
26	Sheet	F23	Contribution to Contingency Reserve, details of grant
27	Sheet	F24	Allocation Statement of Expenses of SLDC

INDEX OF FORMATS S1 TO P12 FOR ARR & TARIFF FILING			
Performance Formats			
28	Sheet	P1	Transmission Losses (For Transmission Licensee)
29	Sheet	P2	Energy Delivered by Transmission licensee to the distribution Distribution Licensees/ Bulk consumers at interface points
30	Sheet	P3	Details of Electrical Accidents
31	Sheet	P4	Abstract of Outages due to feeder tripping
32	Sheet	P5	Major System Disturbances
33	Sheet	P6	Frequency Variation
34	Sheet	P7	Voltage Fluctuation
35	Sheet	P8	Licensee wise Load shedding carried out during the year
36	Sheet	P9	Detailss of Overloaded Feeders
37	Sheet	P10	Details of over loaded Transformers
38	Sheet	P11	Failure of Transformers
39	Sheet	P12	Key Ratios

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED**Statement of Projected Profit and Loss**

Form No: S1

Rs Crores

Particulars		Previous Year	Current Year	Ensuing Year
		FY 2022-23	FY 2023-24	FY 2024-25
A	Revenue/Income			
	Revenue from operations			
1	a)Revenue from Transmission/Wheeling charges	557.31	530.21	844.02
	-NBPDCCL			
	SBPDCL	654.23	622.42	990.80
	Railway	19.82	24.00	22.77
2	Non-tariff income	71.87	76.49	80.26
3	Revenues through subsidies & grants (If any)			
4	Any other Income			
	Total Revenue*	1,303.23	1,253.11	1,937.85
B	Expenditure			
1	Repair and Maintenance Cost	64.84	73.97	95.47
2	Employee costs	228.82	249.37	262.84
3	Administration expenses	45.96	49.53	52.46
4	Other Expenses	16.08	16.08	16.08
6	Less: Expenses Capitalized	0.00	0.00	0.00
7	Interest on Working Capital	19.54	25.38	29.92
8	Incentive on Transmission Availability	12.27		
9	Incentive on Transmission Losses	0.00		
10	Sharing of Losses/(Gains)	(3.19)		
11	Income Tax	0.00		

C	Depreciation and Related debits	410.65	520.57	634.07
D	Interest & Finance Charges	348.21	447.48	543.38
	Less: Interest Capitalized			
E	Return on Equity	264.18	321.21	303.64
G	TOTAL EXPENDITURE (B+C+D)*	1,407.38	1,703.59	1,937.85
I	Add: Previous Year Gap	(140.87)	(339.36)	0.00
J	Profit/Loss (A-G)	36.72	(111.12)	(0.00)

* Pertaining to Transmission Business Only, SLDC shall file seperately

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED						
Projected Balance Sheet		Form No: S2				
		Rs Crores				
Particulars	Previous Year	Current Year	Ensuing Year			
	FY 2022-23	FY 2023-24	FY 2024-25			
Assets						
Non-current assets	Regulatory Account for the purpose of calculation of Normative Loan , Equity etc as per prescribed regulation is under progress					
₹-----						
₹-----						
₹-----						
Current assets						
₹-----						
₹-----						
₹-----						
Total Assets						
EQUITY AND LIABILITIES						
Equity	Regulatory Account for the purpose of calculation of Normative Loan , Equity etc as per prescribed regulation is under progress					
₹-----						
₹-----						
₹-----						
LIABILITIES						
₹-----						
₹-----						
₹-----						
Total Equity and Liabilities						
Signature of Petitioner						

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED			
Projected Cash Flow Statement		Form No: S3	
		Rs Crores	
Particulars		Previous Year	Current Year
		FY 2022-23	FY 2023-24
		FY 2024-25	FY 2024-25
A	Cash flows from operating activities		
	i Net (loss) / Profit		
	Adjustments For		
	ii ₹-----		
	iii ₹-----		
	iv ₹-----		
B	Net Cash flows from operating activities		
	Cash Flow from Investing Activities		
	i ₹-----		
	ii ₹-----		
	iii ₹-----		
C	Net Cash used in Investing Activities		
	Cash Flow from Financing Activities		
	i ₹-----		
	ii ₹-----		
	iii ₹-----		
	Net Cash generated from Financing Activities		
D	Total Cash generated/(lost)		
E	Cash & Cash Equivalants as at beginning of the Financial Year		
F	Cash & Cash Equivalants as at end of the Financial Year		
Regulatory Account for the purpose of calculation of Normative Loan , Equity etc as per prescribed regulation is under progress			
Signature of Petitioner			

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED**Annual Revenue Requirement****(Rs. Crore)**

	Particulars	Forms	FY 2022-23 (Actual)		FY 2023-24 (Revised)		FY 2024-25 (Estimated)	
			Approved in TO	Audited	Approved in TO	Revised	Approved in MYT	Estimated
I.	Energy Available (MU)							
II.	Energy Transmitted/Wheeled (MU)	F2						
III.	Loss %							
IV.	Transmission Cost per unit (Rs/U)							
V	Total Transmission System Capacity (in MW)							
VI.	Transmission Cost per MW							
VII.	Max Demand handled by the transmission system (in MW)							
A.	Income from Transmission Function							
1	Receipts							
a	Transmission/Wheeling Charges at current tariff rates	F4	1,231.36	1,231.36	1,176.62	1,176.62	1,821.42	1,857.59
b	Subsidy from Govt. (If any)		0.00	0.00	0.00	0.00	0.00	0.00
	Total Receipts (A)		1,231.36	1,231.36	1,176.62	1,176.62	1,821.42	1,857.59
B	Expenditure							
1	O&M Expenses							
i	Employee Expenses		194.59	228.82	242.64	249.37	245.10	262.84
ii	R&M Expense		70.19	64.84	76.72	73.97	91.94	95.47
iii	A&G Expense		46.37	45.96	48.32	49.53	51.59	52.46
iv.	Share of Holding Company Expenses		11.44	16.08	16.40	16.08	11.44	16.08
	Total O&M expenses (i+ii+iii+iv)		322.59	355.70	384.08	388.95	400.06	426.84
2	Return on Equity		278.24	264.18	306.61	321.21	356.12	303.64
3	Depreciation		463.53	410.65	453.99	520.57	638.51	634.07
4	Interest and finance charges on Loan Capital		355.69	348.21	408.21	447.48	475.42	543.38
	Less: IDC, if any		0.00					
5	Interest on Working Capital		17.98	19.54	22.55	25.38	23.85	29.92
6	Contribution towards Contingency Reserve							
7	Bad Debts							
8	Incentive for Transmission Availability			12.27				
9	Sharing of Losses/(Gains) on O&M expenses			12.72				

10	Sharing of Losses/(Gains) on Interest on Working Capital			(9.77)				
11	Sharing of Losses/(Gains) on Incentives on Transmission Availability Factor			(6.14)				
	Total Expenditure (B)		1,438.03	1,407.38	1,575.45	1,703.59	1,893.97	1,937.85
C	Other Deductions							
1	Income from other Business (OPGW Cable)			1.03		1.03		1.03
2	Non-Tariff Income		65.80	71.87	59.46	75.46	72.54	79.24
3	Revenue from Short Term transmission charges							
	Total Other Deductions (C)		65.80	72.90	59.46	76.49	72.54	80.26
D	Net ARR for Transmission Function (B-C)		1,372.23	1,334.48	1,515.98	1,627.10	1,821.42	1,857.59
	Add: Revenue Gap/(Surplus) of Previous Year		(140.87)	(140.87)	(339.36)	(339.36)		0.00
E	Gap/(Surplus) before tariff revision impact (A-D)		0.00	(37.75)	0.00	111.12	0.00	
F	Tariff Revision Impact							
G	(Shortfall)/Excess after tariff revision impact (E-F)							1,812.40
<i>Note:</i>	<i>The ARR of SLDC shall be filed separately by SLDC. Expenses will be net of Expenditure capitalized.</i>				1,176.62	1,287.74	1,821.42	
Signature of Petitioner								

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED		
Carrying cost of Revenue Gap		
Sl. No.	Particulars	FY 2022-23
		Rs. Crore
1	Revenue Surplus in True Up of 2022-23	(37.75)
2	Interest for FY 2022-23 [(SBI MCLR +1.50%) @ 9.30%] for 6 months	(1.75)
3	Interest for FY 2023-24 [(SBI MCLR +1.50%) @10.05%]] for 1 year	(3.79)
4	Interest for FY 2024-25 [(SBI MCLR +1.5%) @10.05%] for 6 months	(1.90)
5	Total (shortfall)/surplus with carrying cost/interest	(45.19)
6	Total Gap/(Surplus) to be adjusted in ARR of FY 2024-25	(45.19)
Signature of Petitioner		

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED

Form No: F2

Alloted Transmission Capacity and Charges to be paid by Long Term Transmission Customers**Alloted Transmission Capacity of Long Term Transmission Customers (CL)**

In MW

	Particulars	FY 2022-23		FY 2023-24		FY 2024-25	
		Approved in MYT/RE	Actual	Approved in MYT/RE	Apr-Mar (Revised)	Approved in MYT/RE	Estimate
A	Distribution Licensees						
1	North Bihar Power Distribution Company Limited		3,402		3,719		3,706
2	South Bihar Power Distribution Company Limited		3,993		4,365		4,351
B	Bulk Consumers/Long Term Open Access Customers (If any)						
1	Railway		100		100		100
	Sum of Total Alloted Transmission Capacity to all the long term Transmission system customers (SCL)		7,495		8,184		8,157

Charges to be paid by Long Term Transmission Customers/month

A	Distribution Licensees						
1	North Bihar Power Distribution Company Limited	554.87	557.31	530.21	530.21	1,821.42	844.02
2	South Bihar Power Distribution Company Limited	651.37	654.23	622.42	622.42	-	990.80
B	Bulk Consumers/Long Term Open Access Customers (If any)						
1	Railway	25.11	19.82	24.00	24.00	-	22.77
	Total	1,231.36	1,231.36	1,176.62	1,176.62	1,821.42	1,857.59

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED							
Projection of Sales , Connected Load and Demand							
							Form No:F3
A) Projection of Sales (MU)							
	Particulars	FY 2022-23		FY 2023-24		FY 2024-25	
		Approved in MYT	Actual	Approved in MYT	Apr-Mar (Revised)	Approved in MYT	Estimate
A	Distribution Licenses						
1	North Bihar Power Distribution	13,779	13,361		14,919		16,621
2	South Bihar Power Distribution	16,055	15,719		18,204		19,679
B	Bulk Consumers /Long Term						
1	Railway						
	TOTAL		29,079		33,123		36,300

B) Projection of Connected Load (in KW)							
	Particulars	FY 2022-23		FY 2023-24		FY 2024-25	
		Approved in MYT	Actual	Approved in MYT	Apr-Mar (Revised)	Approved in MYT	Estimate
A	Distribution Licenses						
1	North Bihar Power Distribution	1,22,20,540	1,21,52,255		1,32,40,538		1,42,65,716
2	South Bihar Power Distribution	1,27,18,801	1,18,33,827		1,27,01,745		1,32,95,499
B	Bulk Consumers /Long Term						
1	Railway		0		0		0
	TOTAL	2,49,39,341	2,39,86,082		2,59,42,283		2,75,61,215
C) Projection Of Maxmium or Peak Demand (in MW)(Unrestricted)							
	Particulars	FY 2022-23		FY 2023-24		FY 2024-25	
		Approved in MYT	Actual	Approved in MYT	Apr-Mar (Revised)	Approved in MYT	Estimate
A	Distribution Licenses						
1	North Bihar Power Distribution		3402		3719		3706
2	South Bihar Power Distribution		3993		4365		4351
B	Bulk Consumers /Long Term						
1	Railway		100		100		100
	TOTAL		7495		8184		8157

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED							
Revenue						Form No: F4	
At Current Tariff Rates						Rs. Crores	
	Particulars	FY 2022-23		FY 2023-24		FY 2024-25	
		Approved in MYT	Actual	Approved in MYT	Apr-Mar (Revised)	Approved in MYT	Estimate
A	Distribution Licensees						
1	North Bihar Power Distribution Company Limited	554.87	557.31	530.21	530.21	1,821.42	844.02
2	South Bihar Power Distribution Company Limited	651.37	654.23	622.42	622.42	-	990.80
3	Others (Railway)						
	TOTAL	1,206.25	1,211.54	1,152.62	1,152.62	1,821.42	1,834.82
B	Bulk Consumers/Long Term Open Access Consumers (If any)						
1	Railway	25.11	19.82	24.00	24.00		22.77
	TOTAL	25.11	19.82	24.00	24.00	-	22.77
	Grand Total	1,231.36	1,231.36	1,176.62	1,176.62	1,821.42	1,857.59

At Proposed Tariff Rates after adjusting Gap/(Surplus)		
Sl. No.	Particulars	FY 2024-25
A	Distribution Licensees	
1	North Bihar Power Distribution Company Limited	823.48
2	South Bihar Power Distribution Company Limited	966.70
	TOTAL	1,790.18
B	Bulk Consumers/Long Term Open Access Consumers (If any)	
1	Railway	22.22
	TOTAL	22.22
	Grand Total	1,812.40
Less	Tariff at Current Rates	
	Impact of Tariff Revision	
	Transmission Charges for Short Term Open Access Consumer	253.64

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED

(a) Details of Transmission Lines and Substations

Transmission Lines

No	Name of line	Type of Line AC/HVDC	S/C OR D/C	No. Of Sub- conductors	Voltage level KV	Line length Ckt.-Km.
1	220 kV Biharsharif(PG) - Biharsharif Ckt - I	AC	S/C	2	220kV	1.67
2	220 kV Biharsharif(PG) - Biharsharif Ckt - II	AC	S/C	2	220kV	1.67
3	220 kV Biharsharif(PG) - Biharsharif Ckt - III	AC	S/C	2	220kV	1.67
4	220 kV Biharsharif(PG) - Biharsharif Ckt - IV	AC	S/C	1	220kV	1.67
5	220 kV Patna(PG) - Gaurichak Ckt - I	AC	S/C	1	220kV	0.45
6	220 kV Patna(PG) - Gaurichak Ckt - II	AC	S/C	1	220kV	0.45
7	220 kV Patna(PG) - Gaurichak Ckt - III	AC	S/C	2	220kV	0.30
8	220 kV Patna(PG) - Fatuha Ckt.	AC	S/C	1	220kV	30.00
9	220 kV Patna(PG) - Khagaul Ckt.	AC	S/C	1	220kV	30.00
10	220 kV Pusauli(PG) - Dehri Ckt.	AC	S/C	1	220kV	60.00
11	220 kV Pusauli(PG) - Nadokhar Ckt. - I	AC	S/C	1	220kV	4.75
12	220 kV Pusauli(PG) - Nadokhar Ckt. - II	AC	S/C	1	220kV	4.20
13	220 kV Gaya(PG) - Bodhgaya Ckt. I	AC	S/C	1	220kV	17.00
14	220 kV Gaya(PG) - Bodhgaya Ckt. II	AC	S/C	1	220kV	17.00
15	220 kV Gaya(PG) - Bodhgaya Ckt- III (ckt-1)	AC	S/C	1	220kV	
16	220 kV Bodhgaya-Chandauti (PG) ckt-I	AC	S/C	1	220kV	31.00
17	220 kV Gaya(PG) - Bodhgaya Ckt- IV (ckt-2)	AC	S/C	1	220kV	
18	220 kV Bodhgaya-Chandauti (PG) ckt-II	AC	S/C	1	220kV	31.00
19	220 kV Chandauti PG-Sonenagar New Ckt-I	AC	S/C	1	220kV	75.48
20	220 kV Chandauti PG-Sonenagar New Ckt-II	AC	S/C	1	220kV	75.48
21	220 kV Gaya(PG) - Dehri Ckt. I	AC	S/C	1	220kV	81.95
22	220 kV Gaya(PG) - Dehri Ckt. II	AC	S/C	1	220kV	81.95
23	220 kV Gaurichak - Fatuha ckt-I	AC	S/C	1	220kV	29.00
24	220 kV Gaurichak-Bihta(new) ckt-I	AC	S/C	1	220kV	41.60
25	220 kV Gaurichak-Bihta(new) ckt-II	AC	S/C	1	220kV	41.60
26	220 kV Biharsharif - Fatuha ckt-I	AC	S/C	1	220kV	47.00
27	220 kV Biharsharif - Fatuha ckt-II	AC	S/C	1	220kV	47.00
28	220 kV Muzaffarpur(PG) - Hajipur Ckt. I	AC	S/C	1	220kV	52.00
29	220 kV Muzaffarpur(PG) - Hajipur Ckt. II	AC	S/C	1	220kV	52.00
30	220 kV Purnea(PG) - Madhepura Ckt. I	AC	S/C	1	220kV	100.09
31	220 kV Purnea(PG) - Madhepura Ckt. II	AC	S/C	1	220kV	100.09
32	220 kV Purnea(PG) - Khagaria (New) Ckt. I	AC	S/C	1	220kV	102.00
33	220 kV Purnea(PG) - Khagaria (New) Ckt. II	AC	S/C	1	220kV	102.00
34	220 kV Khagaria (New)-Begusarai Ckt. I	AC	S/C	1	220kV	98.00
35	220 kV Khagaria (New)-Begusarai Ckt. II	AC	S/C	1	220kV	98.00

36	220 kV Kishanganj (PG) - Kishanganj(New) I	AC	S/C	1	220kV	4.26
37	220 kV Kishanganj (PG) - Kishanganj(New) II	AC	S/C	1	220kV	4.26
38	220 kV Kishanganj (PG) - Kishanganj(New) III	AC	S/C	1	220kV	4.50
39	220 kV Kishanganj (PG) - Kishanganj(New) IV	AC	S/C	1	220kV	4.50
40	220 kV DMTCL(Darbhangha) - Motipur ckt - I	AC	S/C	1	220kV	109.00
41	220 kV DMTCL(Darbhangha) - Motipur ckt - II	AC	S/C	1	220kV	109.00
42	220 kV DMTCL(Darbhangha)-Darbhanga ckt - I	AC	S/C	1	220kV	2.93
43	220 kV DMTCL(Darbhangha)-Darbhanga ckt - II	AC	S/C	1	220kV	2.93
44	220 kV DMTCL(Darbhangha) - Laukhi ckt - I	AC	S/C	1	220kV	89.00
45	220 kV DMTCL(Darbhangha) - Laukhi ckt - II	AC	S/C	1	220kV	89.00
46	220 kV DMTCL(Darbhangha) - Samastipur (New)/Ujiarpur ckt.	AC	S/C	1	220kV	48.00
47	220 kV TIPS(Tenughat) - Biharsharif Ckt	AC	S/C	2	220kV	73.00
48	220 kV MTPS-Gopalganj ckt-I	AC	S/C	1	220kV	101.35
49	220 kV MTPS-Gopalganj ckt-II	AC	S/C	1	220kV	101.35
50	220 kV MTPS-Motipurckt-I	AC	S/C	1	220kV	37.80
51	220 kV MTPS-Motipurckt-II	AC	S/C	1	220kV	37.80
52	220 kV MTPS-Samastipur(New)/Ujiarpur ckt-I	AC	S/C	1	220kV	85.00
53	220 kV MTPS-Samastipur(New)/Ujiarpur ckt-II	AC	S/C	1	220kV	85.00
54	220 kV BTPS-Begusarai ckt-I	AC	S/C	1	220kV	15.00
55	220 kV BTPS-Begusarai ckt-II	AC	S/C	1	220kV	15.00
56	220 kV BTPS-Hajipur ckt-I	AC	S/C	1	220kV	108.00
57	220 kV BTPS-Hajipur ckt-II	AC	S/C	1	220kV	108.00
58	220 kV Begusarai-Samastipur(New)/Ujiarpur ckt-I	AC	S/C	1	220kV	55.00
59	220 kV Begusarai-Samastipur(New)/Ujiarpur ckt-II	AC	S/C	1	220kV	55.00
60	220 kV Kishanganj (New)-Madhepura ckt-I	AC	S/C	1	220kV	146.00
61	220 kV Kishanganj (New)-Madhepura ckt-II	AC	S/C	1	220kV	146.00
62	220 kV Motipur-Mushahri ckt-I	AC	S/C	1	220kV	96.20
63	220 kV Motipur-Mushahri ckt-II	AC	S/C	1	220kV	90.00
64	220 kV Mushahri - Darbhanga ckt-I	AC	S/C	1	220kV	58.00
65	220 kV Mushahri - Darbhanga ckt-II	AC	S/C	1	220kV	55.00
66	220 kV Madhepura- Laukahi ckt-I	AC	S/C	1	220kV	66.00
67	220 kV Madhepura- Laukahi ckt-II	AC	S/C	1	220kV	66.00
68	220 kV Pusauli (PG)-Karamnasa New	AC	S/C	1	220kV	29.00
69	220 kV Karamnasa (New)-Sahupuri	AC	S/C	1	220kV	9.00
70	220 kV Sitamarhi PG- Motipur ckt-I	AC	S/C	1	220kV	52.10

71	220 kV Sitamarhi PG- Motipur ckt-II	AC	S/C	1	220kV	52.10
72	220 kV Saharsa (PG)-Khagaria (New) ckt-1	AC	S/C	1	220kV	73.00
73	220 kV Saharsa (PG)-Khagaria (New) ckt-2	AC	S/C	1	220kV	73.00
74	220 kV Biharsharif-Asthawan Ckt-1	AC	S/C	1	220kV	20.00
75	220 kV Biharsharif-Asthawan Ckt-2	AC	S/C	1	220kV	20.00
76	220 kV Bakhtiyarpur (New)-Sheikhpura (New) Ckt-1	AC	S/C	1	220kV	42.37
77	220 kV Bakhtiyarpur (New)-Sheikhpura (New) Ckt-2	AC	S/C	1	220kV	42.37
78	220 kV Muzaffarpur (PG)-Garaul ckt-1	AC	S/C	1	220kV	20.00
79	220 kV Muzaffarpur (PG)-Garaul ckt-2	AC	S/C	1	220kV	20.00
80	220 kV Saharsa(PG)-Begusarai ckt-1	AC	S/C	1	220kV	93.00
81	220 kV Saharsa(PG)-Begusarai ckt-2	AC	S/C	1	220kV	93.00
82	220 kV Karamnasa (New)-Pusauli Ckt-1	AC	S/C	2	220kV	35.60
83	220 kV Karamnasa (New)-Pusauli Ckt-2	AC	S/C	2	220kV	35.60
84	220 kV Raxaul (New)-Sitamarhi (New) Ckt-I	AC	S/C	1	220kV	88.34
85	220 kV Raxaul (New)-Sitamarhi (New) Ckt-II	AC	S/C	1	220kV	88.34
86	132 kV Sonenagar(New)-Sonenagar ckt-I	AC	S/C	1	132kV	0.50
87	132 kV Sonenagar(New)-Sonenagar ckt-II	AC	S/C	1	132kV	0.10
88	132 kV Chandauti-Chandauti (PG) (L-30)	AC	S/C	1	132kV	34.70
89	132 kV Chandauti (PG)-Sonenagar (L-30)	AC	S/C	1	132kV	95.50
90	132 kV Chandauti-Chandauti (PG) (L-31)	AC	S/C	2	132kV	34.70
91	132 kV Chandauti (PG)-Rafiganj (L-31)	AC	S/C	2	132kV	54.40
92	132 kV Rafiganj-Sonenagar (L-31)	AC	S/C	1	132kV	44.00
93	132 kV Rafiganj-Rafiganj TSS ckt-1	AC	S/C	1	132kV	4.60
94	132 kV Rafiganj-Rafiganj TSS ckt-2	AC	S/C	1	132kV	4.60
95	132 kV Rafiganj-Bahupura solar ckt-1	AC	S/C	1	132kV	14.56
96	132 kV Darbhanga(old)-Gangwara ckt-1	AC	S/C	1	132kV	11.60
97	132 kV Darbhanga(old)-Gangwara ckt-2	AC	S/C	1	132kV	11.60
98	132 kV Darbhanga(old)-Gangwara	AC	S/C	1	132kV	22.50
99	132 kV Gangwara - Pandaul	AC	S/C	1	132kV	23.80
100	132 kV Kusheshwarsthan-Rosera	AC	S/C	1	132kV	26.40
101	132 kV Kusheshwarsthan-Dalsinghsarai	AC	S/C	1	132kV	69.46
102	132 kV Sonebarsa-Kusheshwarsthan ckt-I	AC	S/C	1	132kV	70.40
103	132 kV Sonebarsa-Kusheshwarsthan ckt-II	AC	S/C	1	132kV	70.40
104	132 kV Jainagar-Benipatti(LILO)	AC	S/C	1	132kV	51.44
105	132 kV Benipatti(LILO)-Madhubani	AC	S/C	1	132kV	21.85
106	132 kV Darbhanga- Madhubani ckt-1	AC	S/C	1	132kV	46.00
107	132 kV Darbhanga- Madhubani ckt-2	AC	S/C	1	132kV	44.00
108	132 kV Madhubani-Pandaul ckt-I	AC	S/C	1	132kV	14.49

109	132 kV Madhubani-Pandaul ckt-II	AC	S/C	1	132kV	14.49
110	132 kV Jainagar-Madhubani	AC	S/C	1	132kV	40.00
111	132 kV Phulparas-Jainagar	AC	S/C	1	132kV	55.00
112	132 kV Jainagar-Jhanjharpur (LILO)	AC	S/C	1	132kV	83.00
113	132 kV Jhanjharpur (LILO)-Phulparas	AC	S/C	1	132kV	34.00
114	132 kV Supaul-Phulparas	AC	S/C	1	132kV	39.00
115	132 kV Pandaul-Phulparas ckt-1	AC	S/C	1	132kV	62.70
116	132 kV Pandaul-Phulparas ckt-2	AC	S/C	1	132kV	66.17
117	132 kV Bodhgaya-Imamganj	AC	S/C	1	132kV	56.00
118	132 kV Sherghati-Imamganj T/L	AC	S/C	1	132kV	30.14
119	132 kV Bodhgaya-Sherghati	AC	S/C	1	132kV	27.28
120	132 kV Bodhgaya-Chandauti (Line-I) ckt-I	AC	S/C	1	132kV	18.00
121	132 kV Bodhgaya-Chandauti (Line-I) ckt-II	AC	S/C	1	132kV	18.00
122	132 kV Bodhgaya-Chandauti (Line-II) ckt-I	AC	S/C	1	132kV	11.79
123	132 kV Bodhgaya-Chandauti (Line-II) ckt-II	AC	S/C	1	132kV	11.79
124	132 kV Chandauti-Tekari	AC	S/C	1	132kV	29.00
125	132 kV Chandauti-Gaurichak	AC	S/C	1	132kV	94.00
126	132 kV Chandauti-Belaganj	AC	S/C	1	132kV	28.00
127	132 kV Belaganj-Tehta	AC	S/C	1	132kV	26.00
128	132 kV Jehanabad-Masaurhi	AC	S/C	1	132kV	19.00
129	132 kV Masaurhi-Gaurichak	AC	S/C	1	132kV	30.00
130	132 kV Tehta-Jehanabad	AC	S/C	1	132kV	14.00
131	132 kV Jehanabad-Ataula ckt-I	AC	S/C	1	132kV	28.00
132	132 kV Jehanabad-Ataula ckt-II	AC	S/C	1	132kV	28.00
133	132 kV Jehanabad-Jehanabad TSS	AC	S/C	1	132kV	0.05
134	132 kV Bodhgaya-Paharpur TSS ckt-1	AC	S/C	1	132kV	35.00
135	132 kV Bodhgaya-Paharpur TSS ckt-2	AC	S/C	1	132kV	35.00
136	132 kV Sherghati-Sawkala Solar plant	AC	S/C	1	132kV	17.31
137	132 kV Wazirganj-Nawada	AC	S/C	1	132kV	32.00
138	132 kV Chandauti-Goh	AC	S/C	1	132kV	48.32
139	132 kV Goh-Tekari	AC	S/C	1	132kV	24.32
140	132 kV Ekangarsarai-Hulasganj	AC	S/C	1	132kV	30.00
141	132 kV Biharsharif-Hulasganj	AC	S/C	1	132kV	55.00
142	132 kV Goh-Ataula ckt-I	AC	S/C	1	132kV	38.50
143	132 kV Goh-Ataula ckt-II	AC	S/C	1	132kV	38.50
144	132 kV Dehri-Kerpa (LILO)	AC	S/C	1	132kV	24.46
145	132 kV Kerpa-Banjari	AC	S/C	1	132kV	16.80
146	132 kV Dehri-Bikramganj	AC	S/C	1	132kV	45.00
147	132 kV Dehri-Sonenagar ckt-I	AC	S/C	1	132kV	14.45
148	132 kV Dehri-Sonenagar ckt-II	AC	S/C	1	132kV	14.45

149	132 kV Dehri-Kochas	AC	S/C	1	132kV	87.60
150	132 kV Dehri-Sasaram	AC	S/C	1	132kV	30.00
151	132 kV Banjari-Sasaram ckt-I	AC	S/C	1	132kV	47.50
152	132 kV Banjari-Sasaram ckt-II	AC	S/C	1	132kV	47.50
153	132 kV Banjari-Dalmia Cement (formerly KCL)	AC	S/C	1	132kV	1.00
154	132 kV Bikramganj-Dumraon	AC	S/C	1	132kV	40.00
155	132 kV Bikramganj-Piro	AC	S/C	1	132kV	21.00
156	132 kV Sasaram- Pusaui(BSPTCL)	AC	S/C	1	132kV	39.00
157	132 kV Kochas-Pusaui	AC	S/C	1	132kV	30.50
158	132 kV Kudra- Kochas	AC	S/C	1	132kV	29.00
159	132 kV Sonenagar -Aurangabad ckt-I	AC	S/C	1	132kV	21.00
160	132 kV Sonenagar -Aurangabad ckt-II	AC	S/C	1	132kV	21.00
161	132 kV Aurangabad-Shree Cement	AC	S/C	1	132kV	0.75
162	132 kV Sonenagar-Nagaruttari-Rihand Ckt-I	AC	S/C	1	132kV	34.00
163	132 kV Sonenagar-Japla-Garhwa-Rihand ckt-II	AC	S/C	1	132kV	34.00
164	132 kV Sonenagar (old)-Japala TSS ckt-1	AC	S/C	1	132kV	52.00
165	132 kV Sonenagar (old)-Japala TSS ckt-2	AC	S/C	1	132kV	52.00
166	132 kV Sonenagar-Sonenagar TSS	AC	S/C	1	132kV	4.00
167	132 kV Saharsa-Udakishanganj ckt-I	AC	S/C	1	132kV	50.50
168	132 kV Saharsa-Udakishanganj ckt-II	AC	S/C	1	132kV	50.50
169	132 kV Sonebarsa-Uda Kishanganj ckt-I	AC	S/C	1	132kV	35.50
170	132 kV Sonebarsa-Uda Kishanganj ckt-II	AC	S/C	1	132kV	35.50
171	132 kV Banmankhi-Saharsa	AC	S/C	1	132kV	76.00
172	132 kV Supaul-Madhepura ckt-I	AC	S/C	1	132kV	30.00
173	132 kV Supaul-Madhepura ckt-II	AC	S/C	1	132kV	30.00
174	132 kV Madhepura-Saharsa (PG)	AC	S/C	1	132kV	37.56
175	132 kV Saharsa (PG)-Sonebarsa	AC	S/C	1	132kV	52.36
176	132 kV Madhepura-Saharsa	AC	S/C	1	132kV	35.05
177	132 kV Saharsa-Sonebarsa	AC	S/C	1	132kV	42.35
178	132 kV Madhepura-Saharsa ckt-I	AC	S/C	1	132kV	52.00
179	132 kV Madhepura-Saharsa ckt-II	AC	S/C	1	132kV	52.00
180	132 kV Madhepura-Rail Engine Factory ckt-1	AC	S/C	1	132kV	15.00
181	132 kV Madhepura-Rail Engine Factory ckt-2	AC	S/C	1	132kV	15.00
182	132 kV Kusheshwarshant-Sonebarsa ckt-I	AC	S/C	1	132kV	-
183	132 kV Kusheshwarshant-Sonebarsa ckt-II	AC	S/C	1	132kV	-
184	132 kV Sonebarsa-Simri Bakhtiyarpur	AC	S/C	1	132kV	16.54
185	132 kV Supaul-Raghopur	AC	S/C	1	132kV	35.00
186	132 kV Raghopur-Laukhi	AC	S/C	1	132kV	46.00
187	132 kV Supaul-Laukhi ckt-1	AC	S/C	1	132kV	42.00
188	132 kV Kataiya-Supaul ckt-I	AC	S/C	1	132kV	59.50

189	132 kV Kataiya-Supaul ckt-II	AC	S/C	1	132kV	59.50
190	132 kV Supaul - Nirmali	AC	S/C	1	132kV	42.60
191	132 kV Forbisganj-Kataiya Ckt-II	AC	S/C	1	132kV	40.00
192	132 kV Forbisganj-Kataiya Ckt-III	AC	S/C	1	132kV	40.00
193	132 kV Forbisganj-Kataiya Ckt-I	AC	S/C	1	132kV	51.00
194	132 kV Kataiya- Dohabi	AC	S/C	1	132kV	3.50
195	132 kV Kataiya-Kushaha T/L	AC	S/C	1	132kV	5.50
196	132 kV Nirmali-Phulparas	AC	S/C	1	132kV	32.00
197	132 kV Muzaffarpur- Garaul ckt-I	AC	S/C	1	132kV	30.00
198	132 kV Muzaffarpur- Garaul ckt-II	AC	S/C	1	132kV	30.00
199	132 kV Garaul-Vaishali Ckt-I	AC	S/C	1	132kV	17.00
200	132 kV Garaul-Vaishali ckt-II	AC	S/C	1	132kV	17.00
201	132 kV Vaishali-Sheetalpur	AC	S/C	1	132kV	33.00
202	132 kV Vaishali- Bela rail factory	AC	S/C	1	132kV	30.00
203	132 kV Samastipur(old)-Jandaha	AC	S/C	1	132kV	56.00
204	132 kV Hajipur(new) - Jandaha	AC	S/C	1	132kV	50.00
205	132 kV Jandaha-Mahnar	AC	S/C	1	132kV	15.00
206	132 kV Hajipur(new) - Hajipur(old) ckt-I	AC	S/C	1	132kV	1.00
207	132 kV Hajipur(new) - Hajipur(old) ckt-II	AC	S/C	1	132kV	1.00
208	132 kV Hajipur - Hajipur TSS	AC	S/C	1	132kV	3.00
209	132 kV Hajipur- Chapra	AC	S/C	1	132kV	57.00
210	132 kV Samastipur(old)- Hajipur(new)	AC	S/C	1	132kV	61.50
211	132 kV Jamalpur-Tarapur (L.I.L.O)	AC	S/C	1	132kV	45.00
212	132 kV Tarapur(L.I.L.O)-Sultanganj	AC	S/C	1	132kV	23.50
213	132 kV Lakhisarai(PG) - Jamui Ckt - I	AC	S/C	1	132kV	25.49
214	132 kV Lakhisarai(PG) - Jamui Ckt - II	AC	S/C	1	132kV	25.49
215	132 kV Jamui-Jhajha TSS ckt-I	AC	S/C	1	132kV	33.00
216	132 kV Jamui-Jhajha TSS ckt-II	AC	S/C	1	132kV	33.00
217	132 kV Sheikhpura-Jamui ckt-I	AC	S/C	1	132kV	52.00
218	132 kV Sheikhpura-Jamui ckt-II	AC	S/C	1	132kV	52.00
219	132 kV Jamui-Jamui(new) ckt-I	AC	S/C	1	132kV	25.00
220	132 kV Jamui-Jamui(new) ckt-II	AC	S/C	1	132kV	25.00
221	132 kV Lakhisarai-Jamui	AC	S/C	1	132kV	35.00
222	132 kV Jamui(New)-Banka(New) ckt-I	AC	S/C	1	132kV	36.22
223	132 kV Jamui(New)-Banka(New) ckt-II	AC	S/C	1	132kV	36.22
224	132 kV Lakhisarai-Jamalpur	AC	S/C	1	132kV	46.60
225	132 kV Hathidah-Lakhisarai	AC	S/C	1	132kV	32.00
226	132 kV Lakhisarai - Lakhisarai TSS	AC	S/C	1	132kV	6.00
227	132 kV Lakhisarai-Sheikhpura	AC	S/C	1	132kV	26.70
228	132 kV Lakhisarai(PG) - Lakhisarai Ckt - I	AC	S/C	1	132kV	16.00

229	132 kV Lakhisarai(PG) - Lakhisarai Ckt - II	AC	S/C	1	132kV	16.00
230	132 kV Begusarai- Balia	AC	S/C	1	132kV	38.50
231	132 kV Balia-Bakhri	AC	S/C	1	132kV	25.35
232	132 kV Begusarai-Manjhaul	AC	S/C	1	132kV	16.30
233	132 kV Manjhaul-Bakhri	AC	S/C	1	132kV	19.17
234	132 kV Purnea-Khagaria New (L-23)	AC	S/C	1	132kV	108.00
235	132 kV Khagaria (New)- Khagaria (Old)	AC	S/C	1	132kV	57.00
236	132 kV Khagaria OLD-BTPS L23	AC	S/C	1	132kV	56.00
237	132 kV Samastipur(new)- Samastipur ckt-I	AC	S/C	1	132kV	8.00
238	132 kV Samastipur(new)- Samastipur ckt-II	AC	S/C	1	132kV	8.00
239	132 kV Samastipur(New)-Shahpurpatori	AC	S/C	1	132kV	27.00
240	132 kV Dalsingsarai-Samastipur (L-10)	AC	S/C	1	132kV	30.00
241	132 kV Samastipur-Darbhanga	AC	S/C	1	132kV	38.00
242	132 kV Samastipur-Railways TSS Samastipur S/C	AC	S/C	1	132kV	3.00
243	132 kV Khagaria TSS (T of BTPS-Khagaria line)	AC	S/C	1	132kV	1.50
244	132 kV MTPS-Samastipur ckt-I	AC	S/C	1	132kV	75.00
245	132 kV MTPS-Samastipur ckt-II	AC	S/C	1	132kV	75.00
246	132 kV (MTPS-Samastipur ckt-2)-T-connection to Turki TSS	AC	S/C	1	132kV	5.00
247	132 kV Begusarai-Samastipur (L-9)	AC	S/C	1	132kV	67.00
248	132 kV Dalsingsarai- Bachhwara(TSS)	AC	S/C	1	132kV	15.00
249	132 kV Dalsinghsarai-Rosera	AC	S/C	1	132kV	42.00
250	132 kV Begusarai-Dalsingsarai (L-10)	AC	S/C	1	132kV	40.00
251	132 kV Rosera-Hasanpur Sugar Mill S/C	AC	S/C	1	132kV	19.50
252	132 kV Begusarai- Teghra	AC	S/C	1	132kV	36.00
253	132 kV BTPS-Begusarai ckt-I L9	AC	S/C	1	132kV	10.02
254	132 kV BTPS-Begusarai ckt-II L10	AC	S/C	1	132kV	10.02
255	132 kV Begusarai-Kuseswarsthan ckt-I	AC	S/C	1	132kV	67.27
256	132 kV Begusarai-Kuseswarsthan ckt-II	AC	S/C	1	132kV	67.27
257	132 kV Ramgarh-Mohania	AC	S/C	1	132kV	33.00
258	132 kV Pusauli (BSPTCL)- Ramgarh	AC	S/C	1	132kV	27.00
259	132 kV Ara(PG) - Dumraon Ckt. - II	AC	S/C	1	132kV	60.00
260	132 kV Kochas-Dumraon	AC	S/C	1	132kV	60.00
261	132 kV Dumraon-Buxar ckt-I	AC	S/C	1	132kV	18.00
262	132 kV Dumraon-Buxar ckt-II	AC	S/C	1	132kV	18.00
263	132 kV Dumraon-TSS Dumraon	AC	S/C	1	132kV	1.00
264	132 kV Pusauli(PG) - Mohania Ckt.	AC	S/C	1	132kV	1.00
265	132 kV Karamnasa-Mohania Ckt-II	AC	S/C	1	132kV	1.00
266	132 kV Pusauli- Bhabhua(Mundeshwari)	AC	S/C	1	132kV	34.00

267	132 kV Ara(PG) - Jagdishpur Ckt-I	AC	S/C	1	132kV	26.30
268	132 kV Ara(PG) - Jagdishpur Ckt-II	AC	S/C	1	132kV	26.30
269	132 kV Karamnasha - Chandauli Ckt.	AC	S/C	1	132kV	2.83
270	132 kV Karamnasha - Sahupuri Ckt.	AC	S/C	1	132kV	2.83
271	132 kV Karamnasha-Kudra TSS	AC	S/C	1	132kV	41.00
272	132 kV Pusauli(BSPTCL) -TSS Kudra	AC	S/C	1	132kV	15.43
273	132 kV Ara(PG) - Ara Ckt.	AC	S/C	1	132kV	7.00
274	132 kV Ara-Ara TSS	AC	S/C	1	132kV	4.01
275	132 kV Pusauli(PG) - Kudra Ckt.	AC	S/C	1	132kV	1.00
276	132 kV Dehri-Kudra	AC	S/C	1	132kV	1.00
277	132 kV Bettiah - Raxaul ckt-I	AC	S/C	1	132kV	37.20
278	132 kV Bettiah - Raxaul ckt-II	AC	S/C	1	132kV	37.20
279	132 kV DMTCL(Motihari) - Raxaul Ckt - I	AC	S/C	1	132kV	58.60
280	132 kV DMTCL(Motihari) - Raxaul Ckt - II	AC	S/C	1	132kV	58.60
281	132 kV Motipur- Chakia	AC	S/C	1	132kV	18.20
282	132 kV Dhaka- Pakridayal	AC	S/C	1	132kV	18.80
283	132 kV Areraj-Gopalganj	AC	S/C	1	132kV	48.00
284	132 kV Motipur-Motihari	AC	S/C	1	132kV	55.00
285	132 kV Motihari-Sugauli (Sugar Mill) S/C	AC	S/C	1	132kV	26.00
286	132 kV DMTCL(Motihari) - Motihari Ckt - I	AC	S/C	1	132kV	39.00
287	132 kV DMTCL(Motihari) - Motihari Ckt - II	AC	S/C	1	132kV	39.00
288	132 kV Motihari-Bettiah	AC	S/C	1	132kV	43.00
289	132 kV Sheohar-Dhaka	AC	S/C	1	132kV	27.00
290	132 kV Sitamarhi-Dhaka	AC	S/C	1	132kV	55.00
291	132 kV Motihari - Dhaka ckt-I	AC	S/C	1	132kV	27.00
292	132 kV Motihari - Dhaka ckt-II	AC	S/C	1	132kV	27.00
293	132 kV Bettiah-Gopalganj	AC	S/C	1	132kV	71.00
294	132 kV Bettiah-Areraj	AC	S/C	1	132kV	35.00
295	132 kV Bettiah-Majhauilya TSS	AC	S/C	1	132kV	8.50
296	132 kV DMTCL(Motihari) - Bettiah Ckt - I	AC	S/C	1	132kV	40.00
297	132 kV DMTCL(Motihari) - Bettiah Ckt - II	AC	S/C	1	132kV	40.00
298	132 kV Bettiah-Ramnagar	AC	S/C	1	132kV	80.00
299	132 kV Ramnagar-Dhanaha	AC	S/C	1	132kV	70.00
300	132 kV Bettiah-Dhanaha	AC	S/C	1	132kV	38.00
301	132 kV Bettia - Narkatiyaganj	AC	S/C	1	132kV	35.85
302	132 kV Narkatiyaganj - Ramnagar	AC	S/C	1	132kV	80.00
303	132 kV Ramnagar-Valmikinagar-Surajpura S/C	AC	S/C	1	132kV	60.00
304	T point to valmikinagar	AC	S/C	1	132kV	3.00
305	132 kV Ramnagar-Lauriya Sugar mills	AC	S/C	1	132kV	20.00

306	132 kV Ramnagar-Narkatiyaganj Sugar mills	AC	S/C	1	132kV	17.00
307	132 kV Ramnagar-Harinagar Sugar mills	AC	S/C	1	132kV	3.00
308	132 kV Ramnagar-Harinagar TSS	AC	S/C	1	132kV	2.19
309	132 kV Gaurichak- Jakkanpur ckt-I	AC	S/C	1	132kV	18.00
310	132 kV Gaurichak- Jakkanpur ckt-II	AC	S/C	1	132kV	18.00
311	132 kV Jakkanpur-Karbighaia	AC	S/C	1	132kV	4.67
312	T from Gaurichak-Mithapur T/L to Karbighaia	AC	S/C	1	132kV	2.47
313	132 kV Khagaul-Digha ckt-I	AC	S/C	1	132kV	17.60
314	132 kV Khagaul-Digha ckt-II	AC	S/C	1	132kV	-
315	132 kV Bihta(new)-Bihta(old) ckt-I	AC	S/C	1	132kV	18.00
316	132 kV Bihta(new)-Bihta(old) ckt-II	AC	S/C	1	132kV	18.00
317	132 kV Khagaul-Bihta ckt-I	AC	S/C	1	132kV	17.50
318	132 kV Khagaul-Bihta ckt-II	AC	S/C	1	132kV	17.50
319	132 kV Khagaul-TSS	AC	S/C	1	132kV	1.50
320	132 kV Dhamdaha-Banmankhi	AC	S/C	1	132kV	20.50
321	132 kV Purnea-Dhamdaha	AC	S/C	1	132kV	23.00
322	132 kV Purnea-Manihari	AC	S/C	1	132kV	66.00
323	132 kV Katihar TSS (T of Purnea-Manihari line)	AC	S/C	1	132kV	2.50
324	132 kV Manihari-Katihar	AC	S/C	1	132kV	38.00
325	132 kV Kishanganj (New)- Barsoi	AC	S/C	1	132kV	72.00
326	132 kV Forbisganj-Triveniganj	AC	S/C	1	132kV	38.00
327	132 kV Kishanganj(New)-Forbisganj ckt-I	AC	S/C	1	132kV	85.91
328	132 kV Kishanganj(New)-Forbisganj ckt-II	AC	S/C	1	132kV	85.91
329	132 kV Kishanganj-Forbisganj	AC	S/C	1	132kV	88.80
330	132 kV Araria-Forbisganj	AC	S/C	1	132kV	32.00
331	132 kV Kishanganj-Baisi	AC	S/C	1	132kV	31.60
332	132 kV Baisi - Dalkola Ckt.	AC	S/C	1	132kV	1.20
333	132 kV Kishanganj(New)-Kishanganj ckt-I	AC	S/C	1	132kV	9.78
334	132 kV Kishanganj(New)-Kishanganj ckt-II	AC	S/C	1	132kV	9.78
335	132 kV Purnea(PG) - Kishanganj old	AC	S/C	1	132kV	70.00
336	132 kV Kishanganj-Araria	AC	S/C	1	132kV	58.50
337	132 kV Purnea(PG) - Purnea Ckt. I	AC	S/C	1	132kV	0.85
338	132 kV Purnea(PG) - Purnea Ckt. II	AC	S/C	1	132kV	0.85
339	132 kV Purnea(PG) - Purnea Ckt. III	AC	S/C	1	132kV	0.75
340	132 kV Purnea-Triveniganj	AC	S/C	1	132kV	105.00
341	132 kV Purnea-Naugachia (L-16)	AC	S/C	1	132kV	60.00
342	132 kV Naugachia-Khagaria (New)	AC	S/C	1	132kV	45.00
343	132 kV Khagaria (New)-BTPS	AC	S/C	1	132kV	109.00

344	132 kV Banka(PG) - Sabour Ckt. - I	AC	S/C	1	132kV	41.58
345	132 kV Banka(PG) - Sabour Ckt. - II	AC	S/C	1	132kV	41.58
346	132 kV Kahalgaon(NTPC) - Sabour Ckt.	AC	S/C	1	132kV	33.00
347	132 kV Sabour-Sultanganj Ckt-I	AC	S/C	1	132kV	34.80
348	132 kV Sabour-Jagdishpur (New)	AC	S/C	1	132kV	20.00
349	132 kV Jagdishpur (new)-Sultanganj	AC	S/C	1	132kV	42.00
350	132 kV Sabour-Kahalgaon	AC	S/C	1	132kV	29.00
351	132 kV Kehalgaon(NTPC) - Kahalgaon Ckt.	AC	S/C	1	132kV	6.00
352	132 kV Kahalgaon - Lalmatiya	AC	S/C	1	132kV	20.00
353	132 kV Banka(PG) - Sultanganj Ckt. - I	AC	S/C	1	132kV	47.00
354	132 kV Banka(PG) - Sultanganj Ckt. - II	AC	S/C	1	132kV	47.00
355	132 kV Sultanganj - Deoghar Ckt.	AC	S/C	1	132kV	86.00
356	132 kV Gopalganj - Mashrakh	AC	S/C	1	132kV	77.00
357	132 kV Gopalganj/ Bettia Line- SUGAR MILL Sidhwalia	AC	S/C	1	132kV	12.00
358	132 kV Gopalganj - Hathua	AC	S/C	1	132kV	24.91
359	132 kV Chapra- Sheetalpur	AC	S/C	1	132kV	33.00
360	132 kV Sheetalpur- Bela rail factory	AC	S/C	1	132kV	14.00
361	132 kV Hathua-Siwan	AC	S/C	1	132kV	43.91
362	132 kV SKMCH-Belsand(LILO at loc. 110/111, 11.74 kM)	AC	S/C	1	132kV	42.40
363	132 kV Muzaffarpur-SKMCH	AC	S/C	1	132kV	20.32
364	132 kV Mushahri-SKMCH ckt-I	AC	S/C	1	132kV	21.12
365	132 kV Mushahri-SKMCH ckt-II	AC	S/C	1	132kV	21.12
366	132 kV MTPS-SKMCH ckt-I	AC	S/C	1	132kV	15.00
367	132 kV MTPS-SKMCH ckt-II	AC	S/C	1	132kV	15.00
368	132 kV Mushahri-Sitamarhi ckt-I	AC	S/C	1	132kV	60.50
369	132 kV Mushahri-Sitamarhi ckt-II	AC	S/C	1	132kV	60.50
370	132 kV Benipatti-Sursand(Pupri)	AC	S/C	1	132kV	34.67
371	132 kV Belsand-Runnisaidpur	AC	S/C	1	132kV	16.50
372	132 kV MTPS-Motipur ckt-I	AC	S/C	1	132kV	48.00
373	132 kV MTPS-Motipur ckt-II	AC	S/C	1	132kV	45.00
374	132 kV Motipur-Muzaffarpur ckt-I	AC	S/C	1	132kV	49.00
375	132 kV Motipur-Muzaffarpur ckt-II	AC	S/C	1	132kV	48.50
376	132 kV Runnisaidpur-Sitamarhi	AC	S/C	1	132kV	22.00
377	132 kV Sitamarhi-Sheohar(LILO at loc. 79, 0.7 kM)	AC	S/C	1	132kV	32.00
378	132 kV MTPS-Motipur	AC	S/C	1	132kV	51.00
379	132 kV Motipur-TSS Mahwal	AC	S/C	1	132kV	1.55
380	132 kV Katra-Gaighat	AC	S/C	1	132kV	15.60

381	132 kV Fatuah-Katra	AC	S/C	1	132kV	22.20
382	132 kV Fatuha-Gaighat	AC	S/C	1	132kV	23.00
383	132 kV Biharsharif (SG)-Barh Ckt-I	AC	S/C	1	132kV	58.00
384	132 kV Barh-Hathidah Ckt-I	AC	S/C	1	132kV	54.00
385	132 kV Khusrupur TSS (Fatuha to Khusrupur)	AC	S/C	1	132kV	7.20
386	132 kV Fatuha-Ultratech	AC	S/C	1	132kV	17.20
387	132 kV Ultratech-Harnaut	AC	S/C	1	132kV	33.20
388	132 kV Gaurichak- Mithapur	AC	S/C	1	132kV	16.00
389	132 kV Baripahari-Harnaut	AC	S/C	1	132kV	27.00
390	132 kV Biharsharif (SG)-Nalanda (L28)	AC	S/C	1	132kV	15.00
391	132 kV Nalanda - Barhi Ckt.	AC	S/C	1	132kV	62.00
392	132 kV Biharsharif (SG)-Ekangarsarai	AC	S/C	1	132kV	37.73
393	132 kV Biharsharif (SG)-Baripahari ckt-I	AC	S/C	1	132kV	5.00
394	132 kV Biharsharif (SG)-Baripahari ckt-II	AC	S/C	1	132kV	5.00
395	132 kV Biharsharif (SG)-Sheikhpura ckt-I	AC	S/C	1	132kV	40.00
396	132 kV Biharsharif (SG)-Sheikhpura ckt-II	AC	S/C	1	132kV	40.00
397	132 kV Biharsharif (SG)-Nawada	AC	S/C	1	132kV	48.89
398	132 kV Biharsharif-Rajgir (L-29)	AC	S/C	1	132kV	27.00
399	132 kV Rajgir - Barhi Ckt.	AC	S/C	1	132kV	49.00
400	T of 132 kV Nalanda-Barhi line at Rajgir	AC	S/C	1	132kV	7.00
401	132 kV Biharsharif (SG)-Hathidah Ckt-II	AC	S/C	1	132kV	58.00
402	132 kV Biharsharif-Warsaliganj	AC	S/C	1	132kV	41.20
403	132 kV Warsaliganj -Nawada	AC	S/C	1	132kV	32.00
404	132 kV Mashrakh-Maharajganj S/C	AC	S/C	1	132kV	18.00
405	132 kV Masrakh-Marharura DLF ckt-I	AC	S/C	1	132kV	24.50
406	132 kV Masrakh-Marharura DLF ckt-II	AC	S/C	1	132kV	24.50
407	132 kV Mashrakh - Siwan	AC	S/C	1	132kV	55.00
408	132 kV Siwan-Siwan(new)/Raghunathpur	AC	S/C	1	132kV	34.00
409	132 kV Siwan-Panchrukhi TSS	AC	S/C	1	132kV	10.00
410	132 kV Chapra - Siwan(new)/Raghunathpur	AC	S/C	1	132kV	82.00
411	T conection' of 132 kV Chapra-Siwan(new) line at Ekma	AC	S/C	1	132kV	0.80
412	132 kV Chapra - Chapra TSS	AC	S/C	1	132kV	1.00
413	132 kV Hathidah-Sheikhpura	AC	S/C	1	132kV	30.00
414	132 kV Mokama Railway TSS (T of Barh-Hathidah at TSS)	AC	S/C	1	132kV	8.00
415	132 kV Benipur-Kusheshwarsthan	AC	S/C	1	132kV	36.29
416	132 kV Motihari-Jivdhara TSS	AC	S/C	1	132kV	5.37
417	132 kV Pandaul-Pandaul (Sakari)TSS	AC	S/C	1	132kV	8.53
418	132 kV Rosera-Hasanpur TSS	AC	S/C	1	132kV	18.54

419	132 kV Banka(New)-Banka ckt-1	AC	S/C	1	132kV	32.12
420	132 kV Banka(New)-Banka ckt-2	AC	S/C	1	132kV	32.12
421	132 kV Banka(PG)-Banka ckt-1	AC	S/C	1	132kV	12.54
422	132 kV Banka(PG)-Banka ckt-2	AC	S/C	1	132kV	12.54
423	132 kV Nalanda-Nalanda TSS	AC	S/C	1	132kV	8.68
424	132 kV Narkatiyaganj-Raxaul TSS	AC	S/C	1	132kV	30.00
425	132 kV Runnisaidpur-Sitamarhi(PG) ckt-1	AC	S/C	1	132kV	22.64
426	132 kV Runnisaidpur-Sitamarhi(PG) ckt-2	AC	S/C	1	132kV	22.64
427	132 kV Runnisaidpur-Bajpatti TSS	AC	S/C	1	132kV	28.25
428	132 kV Mashrakh-Rajapatti TSS	AC	S/C	1	132kV	8.43
429	132 kV Sabour-Sabour TSS	AC	S/C	1	132kV	2.24
430	132 kV Jamalpur-Jamalpur TSS	AC	S/C	1	132kV	3.47
431	132 kV Barh-Asthawan Ckt-I	AC	S/C	1	132kV	31.34
432	132 kV Barh-Asthawan Ckt-II	AC	S/C	1	132kV	31.34
433	132 kV Bihta(New)-Paliganj ckt-1	AC	S/C	1	132kV	25.01
434	132 kV Bihta(New)-Paliganj ckt-2	AC	S/C	1	132kV	25.01
435	132 kV Banka New-Banka TSS	AC	S/C	1	132kV	29.00
436	132 kV Raxaul-Parwanipur	AC	S/C	1	132kV	6.00
437	132 kV Wazirganj-TSS Tileya	AC	S/C	1	132kV	20.00
438	132 kV Dehri-Karwandiya TSS ckt-1	AC	S/C	1	132kV	11.11
439	132 kV Dehri-Karwandiya TSS ckt-2	AC	S/C	1	132kV	11.11
440	132 kV Darbhanga (New)-Darbhanga ckt-1	AC	S/C	1	132kV	0.20
441	132 kV Darbhanga (New)-Darbhanga ckt-2	AC	S/C	1	132kV	0.20
442	132 kV Sonenagar (New)-Aurangabad ckt-1	AC	S/C	1	132kV	18.55
443	132 kV Sonenagar (New)-Aurangabad ckt-2	AC	S/C	1	132kV	18.55
444	132 kV Garaul-Mahnar ckt-1	AC	S/C	1	132kV	50.00
445	132 kV Garaul-Mahnar ckt-2	AC	S/C	1	132kV	50.00
446	132 kV Ramgarh-Karamnasa (New) Ckt-I	AC	S/C	1	132kV	22.87
447	132 kV Ramgarh-Karamnasa (New) Ckt-II	AC	S/C	1	132kV	22.87
448	132 kV Dhaka-Bairgania TSS	AC	S/C	1	132kV	22.41
449	132 kV Naugachia-Naugachia TSS	AC	S/C	1	132kV	2.22
450	132 kV Vaishali-Amnour BGCL Ckt-1	AC	S/C	1	132kV	42.90
451	132 kV Vaishali-Amnour BGCL Ckt-2	AC	S/C	1	132kV	42.90
452	132 kV Rajgir-Asthawan Ckt-I	AC	S/C	1	132kV	43.00
453	132 kV Rajgir-Asthawan Ckt-II	AC	S/C	1	132kV	43.00
454	132 kV Bikramganj-Bikramganj TSS	AC	S/C	1	132kV	10.88
455	132 kV Chapra (New)/Amnour-Ekma Ckt-I	AC	S/C	1	132kV	39.12
456	132 kV Chapra (New)/Amnour-Ekma Ckt-II	AC	S/C	1	132kV	39.12
Total length						16,163.89

Transmission Sub-station

No	Name of Sub- station	Voltage level kv	No. Of transformers/Reactors/ SVC etc (with capacity)				No. Of Bays	
			220/132 KV		132/33 KV		220 KV	132 kV
			Number	Capacity	Number	Capacity	Number	Number
1	Ara	132/33 KV	-	-	4	4X50	-	9
2	Araria	132/33 KV	-	-	2	2X50	-	5
3	Areraj	132/33 KV	-	-	2	2X20	-	5
4	Ataula	132/33 KV	-	-	2	2X50	-	7
5	Aurangabad	132/33 KV	-	-	3	1X20+2X50	-	9
6	Baisi	132/33 KV	-	-	2	1X20+1x50	-	5
7	Bakhri	132/33 KV	-	-	2	2X20	-	5
8	Balia	132/33 KV	-	-	2	1X20+1X50	-	5
9	Banjari	132/33 KV	-	-	3	3X20	-	8
10	Banka(New)	132/33 KV	-	-	2	2X50	-	8
11	Banka(old)	132/33 KV	-	-	3	2X20+1X50	-	8
12	Banmanki	132/33 KV	-	-	2	1X50+1X20	-	5
13	Barh	132/33 KV	-	-	2	2X50	-	9
14	Baripahari	132/33 KV	-	-	4	4X50	-	8
15	Barsoi	132/33 KV	-	-	2	2X50	-	5
16	Begusarai	132/33 KV	4	4X100	3	3X50	14	17
17	Belaganj	132/33 KV	-	-	2	1X20+1x50	-	5
18	Belsand	132/33 KV	-	-	2	2X20	-	5
19	Benipatti	132/33 KV	-	-	2	1X50+1X20	-	5
20	Benipur	132/33 KV	-	-	2	2X20	-	5
21	Bettiah	132/33 KV	-	-	3	1X20+2X50	-	15
22	Bhabhua(Mundeshwari)	132/33 KV	-	-	2	2X50	-	5
23	Biharsarif (SG)	132/33 KV	3	3X150	1	1X20	16	13
24	Bihta	132/33 KV	-	-	4	4X50	-	9
25	Bihta(New)	132/33 KV	2	2x160	2	2X50	6	7
26	Bikramganj	132/33 KV	-	-	3	1X20+2X50	-	7
27	Bodhgaya	132/33 KV	5	1X160+4X150	3	3X50	10	18
28	Buxar	132/33 KV	-	-	3	1X20+2X50	-	8
29	Chakia	132/33 KV	-	-	2	1X20+1x50	-	5
30	Chandauti	132/33 KV	-	-	3	3X50	-	16
31	Chapra	132/33 KV	-	-	3	2X50+1X20	-	10
32	Dalsinghsarai	132/33 KV	-	-	3	2X20+1X50	-	9
33	Darbhanga (132KV)	132/33 KV	-	-	2	2X50	-	9

34	Darbhangha (220KV)	220/132 KV	2	1x160+1X200	-	-	8	2
35	Dehri	132/33 KV	4	4X100	3	3X50	10	17
36	Dhaka	132/33 KV	-	-	3	1X50+2X20	-	9
37	Dhamdaha	132/33 KV	-	-	2	2X50	-	5
38	Digha	132/33 KV	-	-	3	3X80	-	5
39	Dumroan	132/33 KV	-	-	2	2X50	-	10
40	Ekangarsarai	132/33 KV	-	-	4	4X20	-	7
41	Ekma	132/33 KV	-	-	2	1X20+1x50	-	3
42	Fatuha	132/33 KV	5	5X100	3	3X50	11	14
43	Forbisganj	132/33 KV	-	-	3	2X20+1X50	-	12
44	Gaighat	132/33 KV	-	-	3	3X80	-	5
45	Gangawara	132/33 KV	-	-	3	3X50	-	8
46	Gaurichak	132/33 KV	3	3x200	3	1X50+2X80	12	13
47	Goh	132/33 KV	-	-	3	3X20	-	8
48	Gopalganj	132/33 KV	3	1X200+2x100	3	3X50	7	11
49	Harnaut	132/33 KV	-	-	2	1X20+1X50	-	5
50	Hathidah	132/33 KV	-	-	3	3X20	-	11
51	Hathua	132/33 KV	-	-	3	1X50+2X20	-	6
52	Hazipur (132KV)	132/33 KV	-	-	3	3X50	-	8
53	Hazipur (220KV)	220/132 KV	3	1x200+2X100	-	-	8	8
54	Hulasganj	132/33 KV	-	-	3	3X20	-	7
55	Imamganj	132/33 KV	-	-	2	1X20+1x50	-	5
56	Jagdishpur	132/33 KV	-	-	2	2X50	-	7
57	Jagdishpur (New)	132/33 KV	-	-	2	2X50	-	7
58	Jainagar	132/33 KV	-	-	3	3X20	-	8
59	Jakkanpur	132/33 KV	-	-	5	5X80	-	9
60	Jamalpur	132/33 KV	-	-	3	1X20+2X50	-	8
61	Jamui	132/33 KV	-	-	3	1X20+2X50	-	13
62	Jamui(New)	132/33 KV	-	-	2	2X50	-	8
63	Jandaha	132/33 KV	-	-	3	1X20+2X50	-	7
64	Jehanabad	132/33 KV	-	-	3	1X20+2X50	-	11
65	Jhanjharpur	132/33 KV	-	-	2	2x20	-	5
66	Kahalgaon	132/33 KV	-	-	4	2X20+2X50	-	-
67	Karamnasa(new)	132/33 KV	2	2x200	2	2x50	-	-
68	Karamnasa	132/33 KV	-	-	3	2X50+1X20	-	10
69	Karbihaya	132/33 KV	-	-	4	4X50	-	7
70	Kataiya, Birpur	132/33 KV	-	-	4	3X20+1X50	-	12
71	Katihar	132/33 KV	-	-	4	3X20+1X50	-	8
72	Katra	132/33 KV	-	-	4	4X80	-	7
73	Kerpa	132/33 KV	-	-	2	2X50	-	7

74	Khagaria	132/33 KV	-	-	3	2X50+1X20	-	6
75	Khagaria(New)	132/33 KV	1	1X160	2	2X50	8	9
76	Khagaul	132/33 KV	4	4x200	5	5X80	10	15
77	Kishanganj	132/33 KV	-	-	3	2X50+1X20	-	10
78	Kishanganj (New)	132/33 KV	3	3x160	2	2X50	11	11
79	Kochas	132/33 KV	-	-	2	1X50+1X20	-	7
80	Kudra	132/33 KV	-	-	3	3X20	-	7
81	Kuseswarstan	132/33 KV	-	-	2	2X20	-	10
82	Lakhisarai	132/33 KV	-	-	3	1X20+2X50	-	13
83	Laukhi	132/33 KV	2	2x160	2	2X50	8	7
84	Madhepura	132/33 KV	4	4X100	3	2X20+1X50	13	11
85	Madhubani	132/33 KV	-	-	3	2X20+1X50	-	10
86	Maharajganj	132/33 KV	-	-	3	3x20	-	6
87	Mahnar	132/33 KV	-	-	2	2X20	-	7
88	Manihari	132/33 KV	-	-	2	2X20	-	5
89	Manjhaul	132/33 KV	-	-	2	1X20+1X50	-	5
90	Masaudhi	132/33 KV	-	-	3	2X50+1X20	-	6
91	Mithapur	132/33 KV	-	-	2	2X80	-	3
92	Mohania	132/33 KV	-	-	2	2X50	-	6
93	Motihari	132/33 KV	-	-	3	3X50	-	13
94	Motipur	132/33 KV	2	2x160	3	3X50	12	11
95	Mushahri	132/33 KV	2	2x160	3	3X50	10	10
96	Mushrakh	132/33 KV	-	-	2	1X20+1x50	-	7
97	Muzaffarpur	132/33 KV	-	-	3	3X50	-	9
98	Nalanda	132/33 KV	-	-	3	2X20+1x50	-	7
99	Narkatiyaganj	132/33 KV	-	-	2	2X20	-	5
100	Naugachia	132/33 KV	-	-	4	3X20+1X50	-	7
101	Nawada	132/33 KV	-	-	4	3X50+1X20	-	10
102	Nirmali	132/33 KV	-	-	2	2X20	-	5
103	Pakridayal	132/33 KV	-	-	2	2X20	-	5
104	Paliganj	132/33 KV	-	-	2	2x50	-	-
105	Pandaul	132/33 KV	-	-	2	2X50	-	10
106	Phoolparas	132/33 KV	-	-	2	2X20	-	9
107	Piro	132/33 KV	-	-	2	2X20	-	5
108	Pupri	132/33 KV	-	-	2	1X50+1X20	-	5
109	Purnea	132/33 KV	-	-	3	3X50	-	12
110	Pusouli	132/33 KV	2	1X150+1X160	3	2X50+1X20	10	11
111	Rafiganj	132/33 KV	-	-	2	2X50	-	8
112	Raghopur	132/33 KV	-	-	3	3X50	-	6
113	Rajgir	132/33 KV	-	-	3	2X20+1X50	-	7

114	Ramgarh	132/33 KV	-	-	2	2X50	-	6
115	Ramnagar	132/33 KV	-	-	3	1X20+2X50	-	11
116	Raxaul	132/33 KV	-	-	2	2X50	-	8
117	Rosera	132/33 KV	-	-	2	2X20	-	7
118	Runisaidpur	132/33 KV	-	-	2	1X50+1X20	-	8
119	Sabour	132/33 KV	-	-	3	3X50	-	-
120	Saharsa	132/33 KV	-	-	2	2X50	-	11
121	Samastipur	132/33 KV	-	-	3	3X50	-	14
122	Samastipur(220kV)	132/33 KV	2	2x160	2	2X50	10	7
123	Sasaram	132/33 KV	-	-	3	1X50+2X20	-	8
124	Shahpurpatori	132/33 KV	-	-	2	2X20	-	10
125	Sheetalpur	132/33 KV	-	-	3	1X50+2X20	-	8
126	Sheikhpura	132/33 KV	-	-	3	1X20+2X50	-	11
127	Sheohar	132/33 KV	-	-	2	2X50	-	7
128	Sherghati	132/33 KV	-	-	3	1X50+2X20	-	7
129	Simri Bakhtiyarpur	132/33 KV	-	-	2	2X20	-	4
130	Sitamarhi	132/33 KV	-	-	3	3X50	-	9
131	Siwan	132/33 KV	-	-	3	3X50	-	10
132	Siwan(New)	132/33 KV	-	-	3	1x20+2X50	-	10
133	SKMCH	132/33 KV	-	-	3	3X50	-	10
134	Sonebarsa	132/33 KV	-	-	2	1X20+1X50	-	10
135	Sonenagar(New)	132/33 KV	3	3x160	2	2X50	7	10
136	Sonenagar(Old)	132/33 KV	-	-	2	2X50	-	18
137	Sultanganj	132/33 KV	-	-	4	2X50+2X20	-	14
138	Supoul	132/33 KV	-	-	3	1X50+2X20	-	11
139	Tarapur	132/33 KV	-	-	2	2X20	-	5
140	Teghra	132/33 KV	-	-	2	2X20	-	5
141	Tehta	132/33 KV	-	-	2	2X20	-	5
142	Tekari	132/33 KV	-	-	3	2X20+1X50	-	7
143	Thakarahan/Dhanaha	132/33 KV	-	-	2	2X50	-	4
144	Triveniganj	132/33 KV	-	-	2	2X20	-	5
145	Udakishanganj	132/33 KV	-	-	3	1X50+2X20	-	8
146	Vaishali	132/33 KV	-	-	3	1X20+2x50	-	8
147	Wajirganj	132/33 KV	-	-	3	3X20	-	6
148	Warsaliganj	132/33 KV	-	-	3	1X20+2X50	-	8
Total			61		386		201	1188

(d) Investment Plan (Scheme-wise)														(Rs. in Cr.)	
Name of scheme / Project	Name of line/ Sub-station etc	Approved Outlay		Progressive upto the begining of previous year		Previous year				Current year (RE)		Ensuing Years (Projection)		Progressive Capital expenditure upto the end of ensuing year (s)	
		Approved in MYT/RE	Actual*	Capitalization	Capital Expenditure (CWIP)	Approved in MYT/RE		Audited		Capitalization	Capital Expenditure (CWIP)	Capitalization	Capital Expenditure (CWIP)	Capitalization	Capital Expenditure (CWIP)
						Capitalization	Capital Expenditure (CWIP)	Capitalization	Capital Expenditure (CWIP)						
Statement of Capital Expenditure and Capitalization is provided in Annexure III, and Annexure VI of the Petition															
**Must be in agreement with the figures shown in audited account, otherwise a reconciliation statement must be accompanied.															
* Please furnish seperately details regarding approval of Capital Investment under BERC (Procedure for Filing Capital Investment and Capitalization Plan) Regulations, 2018 and indicate the portion which is not approved under BERC (Procedure for Filing															
Note:															
Ø The amount of grants and loans shall be furnished seperately scheme wise and funding agency wise.															
Ø Additional column may be inserted(if required) for Ensuing Years (Projection).															
Ø All Information for previous year, current year (RE), Ensuing year must be in line with information approved in MYT/Business Plan (if any), other-wise a statement showing complete details of variation must be accompanied.															
Ø CWIP shall mean Capital Work in Progress															
(e) Investment Plan (Year-wise)															
S.N	Year	Originally proposed	Approved by the Commission	Revised	Revised approval by the Commission in review	Actual expenditure									
Statement of Capital Expenditure and Capitalization is provided in Annexure III and VI of the Petition															

Note: i) Information for previous year to be given in columns 1 to 7 co-relating the information given in current or earlier MYT/Business Plan (if any).
 ii) Information for the current year to be given in columns 1 to 5 co-relating the information given in MYT/Business Plan (if any)
 iii) Amount of grants and loans shall be furnished seperately funding Agencywise and yearwise.

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED

Name of Transmission Licensee

(f) Abstract of Capital Cost for the existing Project, Capital Cost Estimates and Schedule of Commissioning for the New projects

**Form No:F5
Rs Crores**

	Particulars	Form	FY 2022-23		FY 2023-24		FY 2024-25	
			Approved in MYT/RE	Actual	Approved in MYT	Estimated	Approved in MYT	Projected
1	Capital Cost	F12	12,905	12,101	14,741	15,172	16,378	16,585
	₹-Foreign Component		-	-	-	-	-	-
	Foreign Exchange rate considered for the admitted cost							
	₹-Domestic Component							
	₹-IDC including Financing Charges							
	Capital cost admitted as on-----		12,905	12,101	14,741	15,172	16,378	16,585
	(Give reference of the BEREC relevant Order with Petition No. & Date)							
2	Less : Capital Expenditure(CWIP)	F9						
3	Less : User contributions and Grants	F10						
4	Total Capital Cost admitted	F8						
5	Increase /Decrease due to FERV							
6	Capital Cost for Purposes of ARR*		12,905	12,101	14,741	15,172	16,378	16,585

*Must be in agreement with the figures shown in Form No: F5 (page-2), otherwise a reconciliation statement must be accompanied.

Note

1. Copy of approval letter should be enclosed. Deviation in capital cost and scope of work if any, must be submitted in detailed.
2. Details of IDC & Financing Charges are to be furnished as per FORM- .

(g) Financial Package of Capital cost Admitted								Rs. Crores
Particulars	FY 2022-23		FY 2023-24		FY 2024-25		Amount	
	Currency	Amount	Currency	Amount	Currency	Amount		
Loans								
Loan-I		8,470.89		12,137.43			13,268.22	
Loan-II								
and so on								
Total Loan		8,470.89		12,137.43			13,268.22	
Equity								
Foreign								
Domestic		3,630.38		3,034.36			3,317.05	
Total Equity		3,630.38		3,034.36			3,317.05	
Total Capital cost		12,101.28		15,171.79			16,585.27	
Debt : Equity Ratio		80:20		80:20			80:20	

Provide details for True-up period, Current Year and each of ensuing years separately.

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED

(h) Capital Cost Estimates and Schedule of commissioning for New Projects

Form No: F5

Particulars	Present Day Cost	Completed Cost	
Date of approval of the Capital cost estimates:			
Price level of approved estimates	As of End of _____ Qtr. Of the year _____	As on Scheduled COD of the Station	
Foreign Exchange rate considered for the Capital cost estimates	Not Applicable		
	FY 2022-23	FY 2023-24	FY 2024-25
Capital Cost excluding IDC, FC, FERC & Hedging Cost			
Foreign Component, if any (In Million US \$ or the relevant Currency)			
Domestic Component (Rs. crores)	12,041.73	15,171.79	16,585.27
Capital cost excluding IDC, FC, FERC & Hedging Cost (Rs. crores)	12041.73173		
IDC, FC, FERC & Hedging Cost			
Foreign Component, if any (In Million US \$ or the relevant Currency)			
Domestic Component (Rs. crores)	59.543616	0.00	0.00
Total IDC, FC, FERC & Hedging Cost (Rs. crores)	59.543616		
Rates, taxes & duties considered			
Capital cost Including IDC, FC, FERC & Hedging Cost			
Foreign Component, if any (In Million US \$ or the relevant Currency)			
Domestic Component (Rs. crores)			
Capital cost Including IDC, FC, FERC & Hedging Cost (Rs. crores)	12,101.28	15,171.79	16,585.27

Schedule of Commissioning	
((Scheduled DOC elementwise))	Not Applicable

COD of last Unit/ Block	
Note:	
1. Copy of approval letter should be enclosed.	
2. Details of Capital cost are to be furnished as per Form F5-5 or Form 14(Additional Capitalization) as applicable.	
3. Details of IDC & Financing Charges are to be furnished as per Form 20	

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED

(k) Statement of Additional Capitalization

Form No: F5

Rs. Crores

No	Year	Work/ Equipment proposed to be added after COD up to Cut off Date/ Beyond Cut off Date	Amount capitalised and Proposed to be capitalised	Justification	Regulations under which covered	Admitted Cost ¹
1		Statement of Additional Capitalization provided in Annexure III, and VI of the Petition				
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						

Note:

- 1 Fill the form in chronological order year wise along with detailed justification clearly bring out the
- 2 In case initial spares are purchased alongwith any equipment, then the cost of such spares should

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED**(I) Statement of Capital Works in Progress**

Form No: F5

Rs. Crores

	Particulars	FY 2022-23		FY 2023-24		FY 2024-25	
		Approved in Previous MYT/RE	Actual	Approved in MYT/RE	Apr-Mar (Revised)	Approved in MYT/RE	Estimate
A	a Opening Capital Expenditure(CWIP)	2,398.97	3,050.63	2,980.06	3,426.34	1,496.20	1,603.51
	b Amount of IDC, FC, FERV & Hedging cost included in a above	-	-	-	-	-	-
B	a Capex during the year	1,146.22	1,694.02	803.63	1,247.69	541.65	645.17
	b Amount of IDC, FC, FERV & Hedging cost included in a above	-	-	-	-	-	-
C	a Capitalisation	1,429.67	1,258.77	2,311.51	3,070.52	1,795.64	1,413.48
	b Amount of IDC, FC, FERV & Hedging cost excluded in above	-	59.54	-	-	-	-
D	a Closing Capital Expenditure(CWIP)	2,115.52	3,426.34	1,472.18	1,603.51	242.21	835.20
	b Amount of IDC, FC, FERV & Hedging cost included in a above	-	-	-	-	-	-
					3,070.52		1,413.48

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED

Form No: F5

(m) Capital Work-In-Progress (CWIP) (in Rs. Crores)										
S.N	Particulars	FY 2022-23			FY 2023-24			FY 2024-25		
		Loan	Grant	Equity	Loan	Grant	Equity	Loan	Grant	Equity
1	Opening CWIP	1,993.87	202.24	854.52	2,258.05	200.55	967.74	866.98	116.56	619.97
2	New Investment	1,130.50	79.01	484.50	971.71	33.05	242.93	508.46	9.60	127.11
3	Less Capitalization(a+b)									
	a) CWIP Capitalization	824.65	80.70	353.42	2,362.79	117.04	590.70	1,123.10	9.60	280.78
	b) IDC	41.68	-	17.86	-	-	-	-	-	-
	c) New Investment capitalization									
4	Closing CWIP (1+2-3)	2,258.05	200.55	967.74	866.98	116.56	619.97	252.34	116.56	466.31

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED**Normative Parameters Considered for Tariff Computations**

Form No: F6

	Particulars		FY 2022-23		FY 2023-24	FY 2024-25
			Approved in MYT/RE	Actual	Estimated	Projection
1	Target Availability	%	98.00%	99.42%	99.42%	99.42%
	AC System	%		NA	NA	NA
	HVDC bi-pole links	%		NA	NA	NA
	HVDC back-to-back Stations	%		NA	NA	NA
2	Normative O&M per ckt.km, if any	Rs. Crores		NA	NA	NA
3	Normative O&M per bay, if any	Rs. Crores		NA	NA	NA
4	Normative A&G expenses per ckt.km, if any	Rs. Crores		NA	NA	NA
5	Normative A&G per bay, if any	Rs. Crores		NA	NA	NA
6	Normative R&M expenses	% of GFA		NA	NA	NA
7	Maintenance Spares for Working Capital, if any	% of O&M		NA	NA	NA
8	Receivables for Working Capital	in Months		NA	NA	NA
9	Effective Rate of Return on Equity	%	12.12%	12.12%	12.12%	9.69%
10	Base Rate of Reserve Bank as on _____	%				
11	State Bank one-year 'MCLR' as on _____	%	7.00%	7.80%	8.55%	8.55%
12	Bank Rate as on _____	%				

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED**(a) Reconciliation of Gross Fixed Assets(GFA)****admitted with Gross Fixed Assets(GFA) of Financial**

Rs. Crores

	Particulars	FY 2022-23		FY 2023-24		FY 2024-25	
		Approved in Previous MYT	Actual	Approved in MYT	Apr-Mar (Revised)	Approved in MYT	Projection
A	Gross Fixed Assets (as at begining of the year):						
	1.GFA as per (Financial/Statutory Account)	11,475.78	10,785.97	12,429.21	12,101.28	14,582.40	15,171.79
	2.Expenditure allowed but not capitalized in Financial/Statutory Account						
	3.Expenditure Capitalized in Financial/Statutory Account but not allowed.						
	4. Admitted GFA(1+2-3)	11,475.78	10,785.97	12,429.21	12,101.28	14,582.40	15,171.79
B	Addition/ adjustment to Gross Fixed Assets (During the year):						
	5.Expenditure capitalized in Financial/Statutory Account	1,429.67	1,318.31	2,311.51	3,070.52	1,795.64	1,413.48
	6.Expenditure allowed but not capitalized in Financial/Statutory Account						
	7.Expenditure Capitalized in Financial/Statutory Account but not allowed.						
	Add Land Cost	-	10.48	-	-	-	-
	8. Disposal/Sale Transfer of Asset	-	3.00	-	-	-	-
C	Gross Fixed Assets (as at end of the year) Admitted by the Commisison(4+5+6-7-8)	12,905.45	12,101.28	14,740.72	15,171.79	16,378.04	16,585.27

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED

(b) Gross Fixed Assets (GFA) (Information to be supplied for the previous year (actuals), current year (RE) and the ensuring year (s) (projections) (Rs. in Form No: F7

S.N	Particulars(i.e Assets Group)	GFA at the beginning of the year	Addition to GFA during the year	Adjustment to GFA on account of assets sold/discarded etc	GFA at the end of the year
1	2	3	4	5	6
1	Land and land rights	1,523.27	10.48	0.18	1,533.56
2	Buildings	70.82	0.50	-	71.32
3	Hydraulic works	0.06	-	-	0.06
4	Other civil works	313.06	3.00	-	316.06
5	Plant and Machinery	4,548.11	346.04	1.50	4,892.65
6	Lines and cable network	4,285.40	952.72	1.32	5,236.80
7	Vehicles	0.45	-	-	0.45
8	Furniture and Fixtures	10.80	0.48	0.00	11.27
9	Office equipment	3.72	1.64	-	5.36
10	Computers, Accessories etc.	30.28	3.18	-	33.46
11	Intangible Assets	-	0.27	-	0.27
	Total	10,785.97	1,318.31	3.00	12,101.28

(c) Bifurcation of Fixed Assets into IDC and IEDC

S.N	Particulars	FY 2022-23		FY 2023-24		FY 2024-25	
		Approved in Previous MYT	Actual	Approved in MYT	Apr-Mar (Revised)	Approved in MYT	Projection
1	Opening Gross Fixed Assets	11,475.78	10,785.97	12,429.21	12,101.28	14,582.40	15,171.79
a	Additions in Gross Fixed Assets	1,429.67	1,258.77	2,311.51	3,070.52	1,795.64	1,413.48
b	Amount of IDC, FC, FERV & Hedging cost included in B(a) above		59.54	-	-	-	-
c	Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a)						
d	Add Cost of land						
	Add/(Less):Adjustment for assets sold/discarded etc	-	3.00	-	-	-	-
2	Closing Gross Fixed Assets	12,905.45	12,101.28	14,740.72	15,171.79	16,378.04	16,585.27

(d) Bifurcation of Fixed Assets into Depreciable and Non-depreciable assets

S.N	Particulars	FY 2022-23		FY 2023-24		FY 2024-25	
		Approved in Previous MYT	Actual	Approved in MYT	Apr-Mar (Revised)	Approved in MYT	Projection
1	Gross fixed assets of the beginning of the year	11,475.78	10,785.97	12,429.21	12,101.28	14,582.40	15,171.79
	Less: Value of non depreciable assets (i.e land)	1,448.32	1,523.27	1,468.52	1,533.75	1,448.32	1,533.75
	Depreciable GFA at the beginning of the year	10,027.46	9,262.70	10,960.69	10,567.53	13,134.08	13,638.05
2	Additions during the year	1,429.67	1,258.77	2,311.51	3,070.52	1,795.64	1,413.48
	Less: Value of non depreciable assets (i.e land)		10.48		-		-
3(i)	IDC, FC, FERV & Hedging cost		59.54	-	-	-	-
3(ii)	Amount of IEDC						
4	Adjustment for assets sold/ discarded etc		3.00				
5	Closing GFA	11,457.13	10,567.53	13,272.20	13,638.05	14,929.72	15,051.52
6	Average GFA (Excluding Value of non depreciable assets)	10,742.30	9,915.11	12,116.45	12,102.79	14,031.90	14,344.78
7	Weighted Average Rate of Depreciation on opening	5.21%	5.23%	4.55%	5.23%	5.21%	5.23%
	Weighted average prorata rate of depreciation on addition during the	3.89%	2.65%	2.77%	2.65%	3.89%	2.65%
8	Depreciation on Opening GFA	522.25	484.80	498.71	553.09	684.04	713.79
9	Depreciation on GFA Addition	55.61	34.59	64.03	81.40	69.85	37.47
10	Gross Depreciation	577.86	519.39	562.79	634.49	753.89	751.27
11	Gross Depreciation as per Commission methodology	577.86	519.39	562.79	634.49	753.89	751.27
12	Opening grants*	2,136.05	2,036.65	2,105.33	2,117.35	2,215.59	2,234.39
13	Grants* during the year	79.54	-	469.21	-	-	-
14	Deposit Works	-	80.70	-	117.04	-	9.60
15	Adjustment for assets sold/ discarded etc	-	-	-	-	-	-
16	Total Grants*	2,215.59	2,117.35	2,574.54	2,234.39	2,215.59	2,243.99
17	Average Grants*	2,175.82	2,077.00	2,339.94	2,175.87	2,215.59	2,239.19
18	Weighted Average Rate of Depreciation	5.21%	5.23%	4.55%	5.23%	5.21%	5.23%
	Weighted average prorata rate of depreciation on addition during the	3.89%	2.65%	2.77%	2.65%	3.89%	2.65%
19	Depreciation on opening Grant	111.25	106.60	95.79	110.82	115.39	116.94
20	Depreciation on additional grant	3.09	2.14	13.00	3.10	-	0.25
21	Depreciation for GFA on Grants	114.34	108.73	108.80	113.92	115.38	117.20
22	Gross Depreciation of GFA	577.86	519.39	562.79	634.49	753.89	751.27
23	Depreciation for Grant	114.34	108.73	108.80	113.92	115.38	117.20
24	Net Depreciation of GFA(11-22)	463.53	410.65	453.99	520.57	638.51	634.07

*grants includes consumer contributions/ deposit works.

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED

(c) Value of Depreciation Charges (Rs. Crore)

Form No: 7

S.N	Particulars(i.e Assets Group)	Accumulated					Depreciation					Accumulated					Accumulated				
		depreciation at the beginning of the year					charges during the year (FY 2022-23)					depreciation adjustment on account of					depreciation at the end of the year				
		Consu mer Contrib ution	By grants	Loan	Equity	Total	Consu mer Contrib ution	By grants	Loan	Equity	Total	Consu mer Contrib ution	By grants	Loan	Equity	Total	Consu mer Contrib ution	By grants	Loan	Equity	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
1	Land and land rights					-					-										-
2	Buildings					13.61					2.37										15.98
3	Hydraulic works					0.00					0.00										0.00
4	Other civil works					56.65					10.71										67.36
5	Plant and Machinery					1,030.30					259.97				1.22						1,289.05
6	Lines and cable network					879.47					231.55				0.98						1,110.04
7	Vehicles																				-
8	Furniture and Fixtures					2.63					0.64										3.27
9	Office equipment					0.83					0.28										1.11
10	Computers & Accessories					1.73					0.54										2.27
11	Intangible Assets					4.75					8.15										12.90
	Total	-	-	-	-	1,989.98	-	-	-	-	514.22	-	-	-	-	2.20	-	-	-	-	2,502.00

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED

(d) Statement of Assets Not in Use

Form No: F7

Rs. Crores

	Financial Year*				
Sl. No.	Date of Acquisition/Installation	Historical Cost/Cost of Acquisition	Date of withdrawal operations	Accumulated Depreciation on date of withdrawal	Written down value on date of withdrawal
NIL					
		-		-	-
*Note:- Information to be provided for Previous Year, Current Year & Ensuing Control Period					

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED

User contributions and grants towards cost of capital assets (Rs. Crores)

Form No: F8

Sl. No.	Particulars	FY 2022-23 (Actual)			FY 2023-24 (Estimate)		FY 2024-25 (Projection)	
		Balance at the start of the year	Additions	Balance at the end of the Year	Additions	Balance at the end of the Year	Additions	Balance at the end of the Year
1	User contributions Towards Cost Of Capital Assets		-	-	-	-		-
2	Grant Towards Cost Of Capital Assets	2,036.65	80.70	2,117.35	117.04	2,234.39	9.60	2,243.99
A	Total (1+2)	2,036.65	80.70	2,117.35	117.04	2,234.39	9.60	2,243.99
Amount utilized for Assets forming part of Depreciable GFA								
3	User contributions Towards Cost Of Capital Assets	-	-	-	-	-		-
4	Grant Towards Cost Of Capital Assets	-	-	-	-	-		-
B	Total (3+4)							
Amount utilized for Assets forming part of non-Depreciable GFA								
5	User contributions Towards Cost Of Capital Assets	-	-	-	-	-		-
6	Grant Towards Cost Of Capital Assets	2,036.65	80.70	2,117.35	117.04	2,234.39	9.60	2,243.99
C	Total (5+6)							
Amount remains un-utilized (A-B-C)								
7	User contributions Towards Cost Of Capital Assets	-	-	-	-	-		-
8	Grant Towards Cost Of Capital Assets	-	-	-	-	-		-
C	Total (7+8)							
D	Amount utilized for CWIP out of "C" above							
E	Amount kept in Bank out of "C" above							
F	Depreciation on assets created out of grants (Admitted)							
G	Depreciation. on assets created out of grants (Financial/Statutory Account)	106.60	2.14	108.73	3.10	111.84	0.25	112.09

Summation of D&E must be equal to C, otherwise a reconciliation statement must be accompanied.

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED

Form No: F9

(a) Computation of Interest Cost

Rs. Crores

	Particulars	FY 2022-23		FY 2023-24		FY 2024-25	
		Approved in Previous MYT	Actual	Approved in MYT	Apr-Mar (Revised)	Approved in MYT	Projection
1	Opening Loan	4,169.17	3,782.63	4,670.62	4,325.77	5,595.59	6,101.20
2	Capitalization during the year	1,429.67	1,315.31		3,070.52		1,413.48
3	Less: Grants	79.54	-		-		-
4	Less: Deposit works		80.70		117.04		9.60
4	Net Capitalization	1,350.13	1,234.60	-	2,953.48	-	1,403.88
5	Loan Addition during the year (70% of net capitalization of ongoing projects)	1,094.94	20.49	1,482.56	53.48	1,436.51	-
6	Loan Addition during the year (80% of net capitalization of upcoming projects)	-	933.30	-	2,242.52	-	1,098.36
7	Normative Repayment (Equal to Depreciation)	463.53	410.65	453.99	520.57	638.51	634.07
8	Closing Loan (1+5+6-7)	4,800.58	4,325.77	5,699.19	6,101.20	6,393.59	6,565.49
9	Average Loan ((1+8)/2)	4,484.88	4,054.20	5,184.90	5,213.48	5,994.59	6,333.34
10	Interest Rate (Weighted average Interest of actual loans)	7.93%	8.56%	7.87%	8.56%	7.93%	8.56%
11	Interest on Loan (9*10)	355.65	347.17	408.05	446.44	475.38	542.34
12	Other Finance Charges	0.04	1.04	0.16	1.04	0.04	1.04
13	Total Interest and Finance Charges	355.69	348.21	408.21	447.48	475.42	543.38

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED**(a) Details of Loans for the year****FY 2022-23****Form No: F9**

S.N	Particulars	Purpose of loan	Opening balance	Rate of Interest	Addition during the year	Repayment during the year	Closing balance	Amount of interest paid*
	1	2	3	4	5	6	7	8
1	Bank Loan	Capital Investment	2,550.00	MCLR+0.10%	650.00	-	3,200.00	
2	ADB	Capital Investment	464.13	13.00%	-	-	464.13	
							3,664.13	

(b) Details of Loans for the year**FY 2023-24**

S.N	Particulars	Purpose of loan	Opening balance	Rate of Interest	Addition during the year	Repayment during the year	Closing balance	Amount of interest paid*
	1	2	3	4	5	6	7	8
1	ADB	Capital Investment	464.13	13.00%	-	-	464.13	
2	Bank Loan	Capital Investment	3,200.00	MCLR+0.10%	-	-	3,200.00	
							3,664.13	

(c) Details of Loans for the year**FY 2024-25**

S.N	Particulars	Purpose of loan	Opening balance	Rate of Interest	Addition during the year	Repayment during the year	Closing balance	Amount of interest paid*
	1	2	3	4	5	6	7	8
1	ADB	Capital Investment	464.13	13.00%	-	-	464.13	
2	Bank Loan	Capital Investment	3,200.00	MCLR+0.10%	-	-	3,200.00	
							3,664.13	

*The amount of penal interest, if any, to be shown separately.

(b) Further Details in case of Foreign Loans

S.N	Particulars				Date	Amount (Foreign Currency)	Exchange Rate	Amount in Rs. Crore
	Name of Currency	Not Applicable						
	Loan drawal							
	Scheduled Principal Repayment							
	Actual Principal Repayment							
	Scheduled Interest payment							
	Actual Interest payment							
	Period of hedging							
	Cost of hedging							
2	Regulatory Reference:							
3	ARR linkage:							
4	Requirement:							
5	Truing Up linkage:							

Note: Information to be supplied separately for the previous year (actuals), current year (RE) and ensuing years

(c) Information Regarding Restructuring of Outstanding Loans During the Year

S.N	Source of loan	Amount of original loan	Old rate of interest	Amount already restructured	Revised rate of interest	Amount now being restructured	New rate of interest
1	2	3	4	5	6	7	8
		Not Applicable					

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED

(d) Domestic loans, bonds and financial leasing

Form No: F9

Rs. Crores

Sl. No.	Particulars	Opening Balance at the beginning of the year				Amount received during the year	Principal repayment		Interest			Closing Balance	
		Principal not overdue	Principal overdue	Interest overdue	Total		Due	Paid	Due	Paid	%	Principal	Interest Overdue
A	LONG-TERM												
1	BSPHCL - ADB		464.13		464.13	-					13.00%	464.13	-
2	Bank Loan		2,550.00		2,550.00	650.00					MCLR+0.10%	3,200.00	-
	Sub Total (A)	-	3,014.13	-	3,014.13	650.00	-	-	-	-		3,664.13	-
B	SHORT-TERM												
1													
2													
3													
4													
	Sub Total (A)	-	-	-	-	-	-	-	-	-		-	-
	Total (A+B)	-	3,014.13	-	3,014.13	650.00	-	-	-	-		3,664.13	-

*Note:- Loanwise information to be provided for Previous Year, Current Year & Control period. Also indicate rate of interest and other conditions.

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED

Form No: F9

(e) Statement of Reconciliation of Net Actual Loan (opening) with Net Normative Loan (Opening) (Rs. In Crore)

Particulars		FY 2022-23 (Actual)	FY 2023-24 (Estimates)	FY 2024-25 (Projection)
Net Actual Loan as per Books of Accounts as on :				
	Dometic	3,664.13	3,664.13	3,664.13
	Foreign			
Add:Repayment Made till Date				
Gross Actual Loan				
Add:Equity considered as normative loan				
Gross Normative Loan		4,325.77	6,101.20	6,565.49
Less : Depreciation Recovered as per ARR till Date				
Net Normative Loan		4,325.77	6,101.20	6,565.49

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED

Details of Equity

Form No: F10

Details of Foreign Equity

S.No.	Particulars	FY 2022-23 (Actual)			FY 2023-24 (Estimated)			FY 2024-25 (Projection)		
		Date	Amount (Foreign Currency)	Exchange Rate	Amount in Indian Rupee	Date	Amount (Foreign Currency)	Exchange Rate	Amount in Indian Rupee	Exchange Rate
	Currency ¹	Not Applicable								
	Total									

¹ Name of the currency to be mentioned e.g. US \$, etc.

² In case of equity infusion more than once during the year, Exchange rate at the date of each infusion to be provided

Details of Indian Equity

Rs. Crores

S.No.	Particulars	FY 2022-23 (Actual)		FY 2023-24 (Estimates)		FY 2024-25 (Projection)	
		Date	Amount	Date	Amount	Date	Amount
1	Infusion		283.82		657.48		305.52
2	₹-						
3	₹-						
	Total						

Details of Return on equity

Rs. Crores

	Particulars	FY 2022-23		FY 2023-24		FY 2024-25	
		Approved in TO	Actual	Approved in TO	Apr-Mar (Revised)	Approved in MYT	Projection
1	Amount of total asset created during the year	1,429.67	1,315.31	2,311.51	3,070.52	1,795.64	1,413.48
2	Less asset created from grant	79.54	-	469.21	-	-	-
3	Less asset created from users contribution		80.70		117.04		9.60
4	Net asset Created	1,350.13	1,234.60	1,842.30	2,953.48	1,795.64	1,403.88
5	Amount of equity addition (ongoing projects)	255.19	8.74	359.74	20.62	359.13	-
6	Amount of equity addition (upcoming projects)	-	275.08	-	636.87	-	305.52
7	Equity (Opening Balance)	1,792.73	1,662.91	1,974.55	1,946.73	2,383.31	2,604.21
8	Equity (Closing Balance)	2,047.92	1,946.73	2,334.29	2,604.21	2,742.44	2,909.73
9	Average Equity	1,920.33	1,804.82	2,154.42	2,275.47	2,562.88	2,756.97
10	Base rate of Return on Equity %	10.00%	10.00%	10.00%	10.00%	10.00%	8.00%
	Tax Rate (Enclose detailed calculation alongwith supporting documents)%	17.47%	17.47%	17.47%	17.47%	17.47%	17.47%
	Effective Rate of Return on Equity	12.12%	12.12%	12.12%	12.12%	12.12%	9.69%
10	Return on Equity (Rs. Crore)	232.74	218.69	261.12	275.72	310.62	267.25
11	Equity as on 31.03.2015	375.41	375.41	375.41	375.41	375.41	375.41
12	Rate of return on Equity	10.00%	10.00%	10.00%	10.00%	10.00%	8.00%
13	Effective Rate of Return on Equity	12.12%	12.12%	12.12%	12.12%	12.12%	9.69%
14	Additional Return	45.50	45.49	45.50	45.49	45.50	36.39
15	Total Return on Equity	278.24	264.18	306.61	321.21	356.12	303.64

(d) Details of total equity infused

	Particulars	FY 2022-23		FY 2023-24		FY 2024-25	
		Approved in MYT	Actual	Approved in MYT	Apr-Mar (Revised)	Approved in MYT	Projection
	Shareholder's Funds						
1	Equity Share Capital						
2	Share Premium utilized for Capital Expenditure						
3	Free Reserves utilized for Capital Expenditure						
	Total Equity						

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED**Interest and Finance Charges(Rs. Crores)**

Form No: F11

S.N.	Source of loan	Purpose of loan	FY 2022-23 (Actual)	FY 2023-24 (Estimate)	FY 2024-25 (Projection)
1	2	3	4	5	6
1	SLR Bonds				
2	Non SLR Bonds				
3	LIC				
4	REC				
5	PFC				
6	Commercial Banks				
7	Bills discounting				
8	Lease rental				
9	ADB Loan	<u>Construction of New GSS, BAY & Line</u>	464.13	464.13	464.13
10	Total		464.13	464.13	464.13
11	Add: State Govt. Loan	<u>Construction of New GSS, BAY & Line</u>	2,550.00	3,200.00	3,200.00
12	Total (10 +11)		3,014.13	3,664.13	3,664.13
13	Less IDC		59.54	-	-
14	Net Interest		347.17	446.44	542.34
15	Add prior period adjustment *				
16	Total Interest		347.17	446.44	542.34
17	Finance charges		1.04	1.04	1.04
18	Total Interest and finance charges		<u>348.21</u>	<u>447.48</u>	<u>543.38</u>

* Year-wise details should be submitted with documentary evidence. Further Rate of interest of
Further Details in case of Foreign Loans

	Particulars	Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee	Note: Drawal of debt and equity shall be on paripassu basis to meet the commissioning schedule. Drawal of higher equity in the beginning is permissible. Also specify basis of allocation to particular project.
1	Loans				
1.1	Foreign Loans				
1.1.1	Foreign Loan 1				
	Draw down Amount				
	IDC				
	Financing charges				
1.1.2	Foreign Loan 2				
	--				
	--				
	Total Draw down Amount				
	Total IDC				
	Total Financing charges				

Interest (IDC) Capitalized

S.N.	Name of scheme /Project	Source of loan	Interest capitalized			
			As on beginning of previous year	During Previous year (Actuals)	During Current year (RE)	During ensuing year (s)
				FY 2022-23	FY 2023-24	FY 2024-25
	1	2	3	4	5	
1	All Capex Schemes	State Govt		59.54	0.00	0.00

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED**Lease details(Rs. Crores)**

Form No: F12

S.N	Name of Lesser	Assets		Leased on	Lease Rentals	Primary Period	Secondary
		Descriptions	Gross Amount			ended / ending by	period ending by
1	2	3	4	5	6	7	8
Not Applicable							

Note: Statement showing Cost benefits analysis of lease must be accompanied.

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED**Operations & Maintenance Cost**

Form No: F13

Rs. Crores

Sl.No	Particulars	FY 2022-23		FY 2023-24		FY 2024-25	
		Approved in Previous MYT	Normative	Approved in MYT	Apr-Mar (Revised)	Approved in MYT	Projection
1	Repair & Maintenance Expenses	70.19	64.84	76.72	73.97	91.94	95.47
2	Employee Expenses	194.59	228.82	242.64	249.37	245.10	262.84
3	Administrative and General Expenses	46.37	45.96	48.32	49.53	51.59	52.46
4	Holding Expenses	11.44	16.08	16.40	16.08	11.44	16.08
	Less :						
5	Expenses Capitalized	-	-	-	-	-	-
	Net O&M Expenses	322.59	355.70	384.08	388.95	400.06	426.84

Sl.No	Particulars	FY 2022-23		FY 2023-24		FY 2024-25	
		Approved in Previous MYT	Actual	Approved in MYT	Apr-Mar (Revised)	Approved in MYT	Projection
1	Repair & Maintenance Expenses		52.22				
2	Employee Expenses						
3	Administrative and General Expenses						
4	Holding Expenses						
	Less :						
5	Expenses Capitalized						
	Net O&M Expenses						
2	Employee Expenses		242.80				
3	Administrative and General Expenses		70.04				
	Net O&M Expenses	-	365.07		-		

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED

Sharing of Gains/Losses for FY 2021-22

Sharing of Losses / Gains on O&M expenses

SI.NO	Particulars	Basis	Claimed in True up
1	Normative expenses	A	339.62
2	Actual expenses	B	365.07
3	Gains/ (losses)	C=A-B	(25.45)
4	Gains to be passed on through adjustment in Tariff	D=50% of C	(12.72)
5	Losses to be passed on as adjustment in Tariff	E=50% of C	(12.72)
6	Net sharing ganis/losses		(12.72)

Sharing of Losses / Gains on Interest on Working Capital Requirement

SI.NO	Particulars	Basis	Claimed in True up
1	Normative Interest on Working Capital	A	19.54
2	Actual Interest on Working Capital	B	0.00
3	Interest on Working Capital gains/ (losses)	C=A-B	19.54
4	50% of gains to be retained by the Licensee	D=50% of C	9.77
5	50% of gain to be passed through as an adjustment in Tariff	E=50% of C	9.77

Sharing of Losses / Gains on Incentives on Transmission Availability Factor

SI.NO	Particulars	Basis	Claimed in True up
1	Incentives on Transmission Availability Factor	A	12.27
2	50% of gains to be on account of Licensee	B=50% of A	6.14
3	50% of gains to be passed-on as adjustment through Tariff	C=50% of A	6.14

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED

(a) Employee Expenses

Form No:F14

Rs. Crores

S.N	Particulars	Base Value	FY 2022-23		FY 2023-24		FY 2024-25	
			Approved in TO	Actual	Approved in TO	Revised	Approved in MYT	Projection
1	Salaries							
(i)	Existing Employees			133.36				
(ii)	New Employees			-				
	Total Salaries			133.36				
2	Overtime			6.28				
3	Dearness Allowance			49.27				
4	Other Allowance			20.95				
5	Medical Expense Re-imbursement			1.10				
6	Staff Welfare Expenses			0.44				
	Base Employee Cost							
	Indexation							
	Add Inflationary Increase							
	Total Employee Cost			211.41				
	Average Annual CPI Index		6.00%	5.89%	5.89%	5.40%	6.00%	5.40%
	Norms-Number of personnel per Ckt/km	0.0823	0.082	0.0823	0.082	0.0823	0.082	0.0823
	Transmission Line in Ckt Km		17,285	16,653	16,608	17,312	19,850	17,312
	Norms-Number of personnel per sub-station	7.2218	7.22	7.2218	7.22	7.2218	7.22	7.2218
	No. of Sub-stations		152	149	150	153	165	153
	Norms-Annual Expenses per personnel (Rs. Lakh)	8.8320	7.7200	9.3525	9.900	9.8576	8.67	10.3900
	Employee Cost on Ckt Km Basis		109.85	128.18	135.36	140.45	141.75	148.03
	Employee Cost on Substation Basis		84.73	100.64	107.28	108.92	103.35	114.80
	Total Employee Cost		194.59	228.82	242.64	249.37	245.10	262.84

7	Contribution to Terminal Benefits (Accrual Basis)							
	Total of Salary & Allowances and Terminal Benefits		-	37.63		37.63		37.63
	Amount Capitalised		-	-		-		-
	Net Amount		-	37.63		37.63		37.63
	Less Employee cost of SLDC			6.24				
	Grand Total		194.59	228.82	242.64	249.37	245.10	262.84

Note:

242.80

- (i) Terminal benefits paid for the period before the date of reorganisation i.e. 01.11.2012, shall not be
- (ii) In respect of continuing employees as on the date of reorganisation and newly appointed employees
- (iii) In respect of item 6, a brief description to be appended.

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED

(b) Price Inflation

Form No: F14

Particulars	Actual				
	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23
Annual Average CPI Index	300	323	339	356	378
CPI Inflation		7.53%	5.02%	5.13%	6.05%
Annual Average WPI Index	120	122	123	139	153
WPI Inflation		1.68%	1.29%	13.00%	9.41%

Note

CPI and WPI Inflation computed for current year shall be considered for control period at the time of filing of ARR. CPI inflation shall be determined at the time of truing up.

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED

Form No: F14

(c) Employee Strength

S.N	Particulars	Previous year	Current Year	Ensuring Years
		FY 2022-23	FY 2023-24	FY 2024-25
1	2	3	4	5
1	Number of employees at the beginning of FY			
(a)	Technical	1,957	1,944	1,927
(b)	Non Technical (Administration)	286	286	284
(c)	Non Technical(Revrnue, Finance and Accounts)	-	-	-
	Total	2,243	2,230	2,211
2	No.of employees added during FY			
(a)	Technical	15	-	-
(b)	Non Technical (Administration)	-	-	-
(c)	Non Technical(Revrnue, Finance and Accounts)	-	-	-
	Total	15	-	-
3	Number of employees retiring/ leaving during the FY			
(a)	Technical	28	17	32
(b)	Non Technical (Administration)	-	2	7
(c)	Non Technical(Revenue, Finance and Accounts)	-	-	-
	Total	28	19	39
4	Number of employees at the end of the FY(1+2-3)			
(a)	Technical	1,944	1,927	1,895
(b)	Non Technical (Administration)	286	284	277
(c)	Non Technical(Revenue, Finance and Accounts)	-	-	-
	Total	2,230	2,211	2,172

* Pertaining to Transmission Business Only , SLDC shall file separately

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED

(d) Employees Productivity Parameters

Form No: F14

S.N	Particulars	(Actuals)	Current Year (R.E)	Ensuing Year (Projection)
		FY 2022-23	FY 2023-24	FY 2024-25
1	2	4	5	6
1	Number of employees	2,230	2,211	2,172
2	Number of Sub-stations	149	153	153
3	Total capacity of Substations (MVA)	24,610	25,690	25,690
4	Transmission line length in ckt/km	16,653	17,312	17,312
5	Energy Received at STU-CTU interface (Units)	0.0387	0.0407	0.0427
6	Employees per MU of energy handled (5/1)	0.000017	0.000018	0.000020
7	Employees cost (CRORE)	228.82	249.37	262.84
8	Employees cost in paise/KWH(7/5)	5,905.40	6,129.31	6,152.71

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED**R&M Expenses**

Form No: F15

	Particulars	FY 2022-23		FY 2023-24		FY 2024-25	
		Approved in TO	Audited	Approved in TO	Apr-Mar (Revised)	Approved in MYT	Projection
1	Opening Gross Fixed Assets	10,027.46	9,262.70	10,960.69	10,567.53	13,134.08	13,638.05
	Average Gross Fixed Assets	10,742.30	9,915.11	12,116.45	12,102.79	14,031.90	14,344.78
2	Percentage point as per the norm (%)	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%
3	Repair & Maintenance Expenses	70.19	64.84	76.72	73.97	91.94	95.47
4	Actual R&M Expenses		52.22				
5	Inflationary Index						
6	Inflationary Increase		-				
7	R&M Expenses	70.19	64.84	76.72	73.97	91.94	95.47

*Normative/ Approved in MYT/RE: If norms are specified by the Commission for concern year, Normative figures shall be given. In case norms are not specified latest approved figures in MYT or Revised Estimate(RE) as the case may be shall be given.

Further details of component wise R&M Expenses

	Particulars	FY 2022-23		Claimed in APR FY 2023-24	Projected in ARR FY 2024-25
		Approved in Tariff Order dated 25.03.2022	Claimed in Truing-up of FY 2022-23		
1	Plant & Machinery		28.97		
2	Building		5.48		
3	Hydraulic works		-		
4	Line cable & network		11.68		
5	Vehicles		-		
6	Furniture & fixtures		0.05		
7	Office equipments		3.34		
8	Civil Works		4.06		
9	Total expenses		53.59		
10	Less capitalized		-		
11	Net Expenses		53.59		
	Less SLDC Expenses		1.37		
12	Total expenses charged to revenue	70.19	52.22		

* Year-wise details of these charges may be provided with documentary evidence

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED

Administration and General Expenses

Form No: F16

Rs. Crores

Particulars	FY 2022-23		FY 2023-24		FY 2024-25	
	Approved in TO	Provisional	Approved in TO	Apr-Mar (Revised)	Approved in MYT	Projection
Rent, rates & taxes		1.88				
Insurance		5.21				
Telephone, postage & Telegrams		0.50				
Legal Charges		-				
Audit Charges		0.14				
Consultancy fees		-				
Director's Sitting Fee		-				
Interest on Statutory Dues		0.00				
Holding Charges		-				
Other professional charges		2.15				
Conveyance & travel expenses		13.87				
Fees & Subscription		0.65				
Books & Periodicals		0.02				
Printing & Stationary		0.49				
Advertisement		1.54				
Expenditure on CSR		6.00				
Electricity & Water charges		14.21				
Freight		-				
Entertainment Charges		0.23				
Commission for sale of scrap		0.00				
Home Guard/ Security Guard		11.97				
Miscellaneous Expenses		1.05				
Contribution to CM Relief Fund-Company		10.00				
Compensation/Injuries/Dath/Damages		0.21				
Loss Due to Cyclon/Flood/Theft		-				
Store Handling Exp.		-				
Loss on sale of Scrap		0.50				
CST/VAT on demand		-				
Total expenses		70.62				
Less Capitalised		-				
Net expenses		70.62				
Less SLDC Expenses		0.58				
Total expenses charged to revenue		70.04				

Not Applicable

* Year-wise details of these charges may be provided with documentary evidence.

Rs. Crores

Particulars	Base Value	FY 2022-23		FY 2023-24		FY 2024-25	
		Approved in TO	Audited	Approved in TO	Apr-Mar (Revised)	Approved in MYT	Projection
Average Annual CPI and WPI Index		3.85%	5.55%	5.89%	6.90%	3.85%	6.90%
Norms-A&G Expenses per personnel	1.0400	1.0800	1.0977	1.1590	1.1735	1.1644	1.2544
No. of employees		2,298	2,230	2,200	2,211	2,263	2,172
Norms-A&G Expenses per substation (Rs. Lakh)	13.6600	14.19	14.4182	15.22	15.4130	15.30	16.4765
No of substations		152	149	150	153	165	153
A&G Expenses on Employee basis		24.81	24.48	25.49	25.95	26.35	27.25
A&G Expenses on Sub-station basis		21.56	21.48	22.83	23.58	25.24	25.21
Total A&G Expenses		46.37	45.96	48.32	49.53	51.59	52.46

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED

Short Term Open Access Consumers

Form No: F17

Rs. Crores

Particulars	FY 2022-23	FY 2023-24	FY 2024-25
	Actual	Estimated	Projected
Number of Short Term Open Access Customers	5	5	5
Amount			
Retained by Licensee			
Payable to Beneficiaries			

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED**Details of Non-tariff Income**

Form No: F18

Rs. Crores

No	Particulars	FY 2022-23		FY 2023-24		FY 2024-25	
		Approved in MYT	Actual	Approved in MYT	Apr-Mar (Revised)	Approved in MYT	Projection
1	Deffered Income		-		-		-
2	Income from Sale of Scrap		-		-		-
3	Lease Rental Income		-		-		-
4	Interest Income		45.83		48.12		50.53
5	Other Transmission Charges		15.11		15.87		16.66
6	Delayed Payment surcharge		-		-		-
7	Income from Tax Refund		3.14		3.30		3.46
8	Supervision Charges		5.56		5.84		6.13
9	Interest on loans and Advances to Staff		0.00		0.00		0.00
10	STU charges		0.42		0.44		0.46
11	Others		-		-		-
12	Miscellaneous Receipts		1.24		1.30		1.37
13	Application fee Received		0.08		0.08		0.09
14	Terminal Benefits from GoB		-		-		-
15	Administrative Charges - Deposit Head		0.49		0.51		0.54
	Total	65.80	71.87	59.46	75.46	72.54	79.24

No	Particulars	FY 2022-23		FY 2023-24		FY 2024-25	
		Approved in MYT	Actual	Approved in MYT	Apr-Mar (Revised)	Approved in MYT	Projection
1	Base Non-Tariff Income	62.66	71.87	56.63	71.87	69.09	75.46
2	Escalation @5%	3.13	-	2.83	3.59	3.45	3.77
3	Non Tariff Income	65.80	71.87	59.46	75.46	72.54	79.24

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED**Working Capital Interest**

Form No: F19

Rs. Crores

	Particulars	FY 2022-23		FY 2023-24		FY 2024-25	
		Approved in MYT	Normative	Approved in MYT	Apr-Mar (Revised)	Approved in MYT	Projection
1	Receivables equivalent to two (2) month of transmission charges calculated on target availability level	228.71	222.41	252.66	271.18	303.57	309.60
2	O&M Expenses of one month	26.88	29.64	32.01	32.41	33.34	35.57
3	Maintenance spares@ 40% of 1 month R&M Expense	2.34	2.16	2.56	2.47	3.06	3.18
4	Less: RoE, and Contribution to Contingency Reserves for 2 months	46.37	44.03	51.10	53.53	59.35	50.61
	Total Working Capital	211.55	210.19	236.13	252.53	280.62	297.74
	Interest Rate	8.50%	9.30%	9.55%	10.05%	8.50%	10.05%
	Interest on Working Capital	17.98	19.54	22.55	25.38	23.85	29.92

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED**Investments in Non business related activities****Form No: F20**

Rs. Crores

Details of Income from Other Business (Rs. In Crore)

No	Particulars		FY 2022-23 Actual	FY 2023-24 Estimate	Projected in ARR FY 2024-25
I	Receipts from other Business	I	1.54		
	Less: Expenses from other business	E	0		
	Revenue of other Business	R=I-E	1.54		
II	Assets of Licensed business utilized in other business	A	0		
	Total assets of other business (including the assets utilized of the Licensed Business)	C	0		
	Allocation of Revenue to Licensed Business decided by the Commission (Case No. 11/2023, dated 20.10.2023)	$X=2/3$ of R	1.03		
III	Due to Licensed Business (to be deducted from ARR)*		1.03	1.03	1.03

Note:- Information to be provided for Previous Year, Current Year & each year of Control period

*In case Gross Receipts exceed expenditure of other business in (I) above (where Gross receipt is less than expenditure of other business in (I) above no

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED**Details of Expenses Capitalised**

Form No: F21

Sl.No.	Particulars	FY 2022-23		FY 2023-24		FY 2024-25	
		Approved in MYT	Normative	Approved in MYT	Apr-Mar (Revised)	Approved in MYT	Projection
1	Interest & Finance charges Capitalised	-	59.54	-	-	-	-
2	Other expenses capitalised:						
	a. Employee expenses		-		-		-
	b. R&M Expenses		-		-		-
	c. A&G Expenses		-		-		-
	d. Depreciation		-		-		-
	e. Others, if any		-		-		-
	Total of 2						
	Grand Total	-	59.54	-	-	-	-

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED**Net Prior Period Expenses / Income****Form No: F22**

Rs. Crores

Sl.No.	Particulars	FY 2022-23 Previous Year	FY 2023-24 Current Year
A	Income relating to previous years:		
1	Interest income for prior periods		
2	Income Tax prior period		
3	Excess Provision for Depreciation		
4	Excess Provision for Interest and Fin. Charges		
5	Other Excess Provision		
6	Others (please specify)		
	Sub-Total A		
B	Expenditure relating to previous years		
1	Employee Cost		
2	Depreciation		
3	Interest and Finance Charges		
4	Admn. Expenses		
5	Withdrawal of Revenue Demand		
6	Material Related		
7	Others (please specify)		
	Sub-Total B		
	Net prior period Credit/(Charges) : A-B		NIL

Extraordinary Items(Rs. Crores)

Sl.No.	Particulars	FY 2022-23 Previous Year	FY 2023-24 Current Year
1	Extraordinary Credits		
a	`--		
	TOTAL CREDITS		
2	Extraordinary Debits		
a	`--		
	TOTAL DEBITS	0	-

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED
Contribution to Contingency Reserve(Rs. Crores)

Form No: F23

S.N	Particulars	FY 2022-23 Previous Year	FY 2023-24 Current Year
1	2	3	4
1	Fixed Assets	Not Claimed	
2	%age appropriation to the contingency reserve		
3	Appropriation to the contingency amount		
4	Amount invested in securities		
5	Drawal from the contingency reserve (Please specify)		
	(i)		
	(ii)		
	(iii)		
	Total drawal		

Information Regarding Grant/Subsidy from State Govt/Central Govt.

S.N	Particulars	FY 2022-23 Actuals	FY 2023-24 Estimate	FY 2024-25 Projection
1	2	3	4	5
A	Amount from State Govt.			
	i) Purpose for which grant received			
	(a)			
	(b)			
	ii) Targeted categories for subsidy			
	(a)			
B	Amount from Central Govt.			
	i) Received under PSDF Scheme			
	(a)			
C	Amount from Consumer			
	i) Received under Deposit work			

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED**Allocation statement of Expenses of SLDC**

Form No: F24

Not Applicable for BSPTCL (SLDC is submitted the petition seperately)

Rs. Crores

	Particulars	FY 2022-23 Actual			FY 2023-24 Revised			FY 2024-25 Projection		
		Total Expenses of STU	Allocated %	SLDC Share	Total Expenses of STU	Allocated %	SLDC Share	Total Expenses of STU	Allocated %	SLDC Share
	Expenditure	Not Applicable as SLDC has submitted the petition seperately								
a	O&M Expenses									
i	R&M Expense									
ii	Employee Expenses									
iii	A&G Expense									
	Total O&M expenses (i+ii+iii)									
b	Depreciation									
c	Interest on Loan									
f	Return on Equity									
g	Others, please specify									
	Total Expenditure			0.00			0.00			0.00

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED

Details of Transmission Incentive

Form No:

No	Particulars	FY 2022-23	
		Approved in Previous MYT	Audited
	Target Availability		98.50%
	Actual Availability		
	Apr-22		99.26%
	May-22		99.45%
	Jun-22		99.50%
	Jul-22		99.64%
	Aug-22		99.33%
	Sep-22		99.42%
	Oct-22		99.46%
	Nov-22		99.58%
	Dec-22		99.10%
	Jan-23		99.51%
	Feb-23		99.10%
	Mar-23		99.69%
	Actual Availability		99.42%
	Additional Achievement		0.92%
	Annual Transmission Charges		1,334.48
	Incentive for Availability		12.27

Signature of Petitioner

Name of Transmission Licensee :M/s BSPTCL
Transmission Losses (For Transmission Licensee)

Form No. P1

S.No.	Details	FY 2022-23 Actual	FY 2023-24 Estimate	FY 2024-25 Projection
A	Losses in 400KV system	Not Applicable		
1	Total Energy delivered by generating Stations and Inter State / Intra State tie - links at the interface points of the Intra State Transmission system			
2	Energy Delivered to next (Lower) voltage level of the Transmission System			
3	Sum of all the energy delivered at this voltag level to the state Distribution System			
4	Transmission loss in system (A1-A2-A3)			
5	Transmission loss in (Transco) system (%) (A4/A1)x100			

S.No.	Details	FY 2022-23	FY 2023-24	FY 2024-25
		Actual	upto Sep'23	Projection
B	Losses in 220 KV system			
1	Total Energy delivered by generating Stations and Inter State / Intra State tie - links at the interface points of the Intra State Transmission system	28525.09	14295.468	
2	Energy Delivered to next (Lower) voltage level of the Transmission System	28216.09	14105.203	
3	Sum of all the energy delivered at this voltag level to the state Distribution System	0.00	0.00	
4	Transmission loss in system (B1-B2-B3)	309.00	190.27	0.00
5	Transmission loss in (Transco) system (%) (B4/B1)x100	1.08%	1.33%	#DIV/0!

C	Losses calculation at 132KV	FY 2022-23	FY 2023-24	FY 2024-25
		Actual		Estimate
		FY (n-1)	upto Sep'23	FY (n+1)
	Pertaining to Transmission Business Only, SLDC shall file separately			
1	Total Energy delivered by Generating Stations and Inter State/ Intra State tie-links at the interface points of the Intra State Transmission system	38298.011	19511.186	
2	Energy Delivered to next (Lower) voltage level	35491.6186	18164.487	
3	sum of all the energy delivered at this voltage level to the state Distribution System	2120.457	1022.138	
4	Transmission loss in System (C1-C2-C3)	685.94	324.56	0.00
5	Transmission loss in (Transco) system (%) $C4/C1 \times 100$	1.79%	1.66%	#DIV/0!

D	Total Losses in the Transmission system	FY 2022-23	FY 2023-24	FY 2024-25
		Actual	upto Sep'23	Projection
1	Total Energy delivered by generating Stations and Inter State / Intra State tie - links at the interface points of the Intra State Transmission system - As recieved from Energy Accounting	38,747.13	19,777.35	
2	sum of all the energy delivered at this voltage level to the state Distribution System- From energy meter readings in GSS	37,752.43	19,262.62	
3	Transmission loss in System (D1-D2)	994.70	514.72	
4	Transmission loss in (Transco) system (%) $(D3/D1) \times 100$	2.57%	2.60%	

Signature of Petitioner

FY 2022-23 (Actual)

Name of Transmission Licensee : BSPTCL & BGCL

Energy Delivered by Transmission licensee to the Distribution

Form No.- P2

Licenseses/ Bulk consumers at interface points

Voltage Level	Name of Sub-Station	Distribution Licensee/ Bulk Consumer				Railway LTOA (MUs)	Total Energy Delivered (MUs)
		NBPDC (MUs)		SBPDCL (MUs)			
		North Bihar	Railway	South Bihar	Railway		
220 KV	N/A	N/A	N/A	N/A	N/A	N/A	N/A
132 KV	132/33 KV Ara	-	-	-	-	45.08	45.08
132 KV	132/33 KV Aurangabad	-	-	107.67	-	-	107.67
132 KV	132/33 KV Banjari	-	-	45.00	-	-	45.00
132 KV	132/33 KV Chandauti(Gaya)	-	-	-	-	63.54	63.54
132 KV	132/33 KV Dumroan	-	-	-	-	43.48	43.48
132 KV	132/33 KV Hathidah	-	-	-	-	47.46	47.46
132 KV	132/33 KV Jehanabad	-	-	-	-	26.35	26.35
132 KV	132/33 KV Karamnasa	-	-	-	-	36.81	36.81
132 KV	132/33 KV Kudra	-	-	-	-	101.79	101.79
132 KV	132/33 KV Nalanda	-	-	-	26.18	-	26.18
132 KV	132/33 KV Rafiganj	-	-	0.32	-	77.33	77.65
132 KV	132/33 KV Rajgir	-	-	2.36	-	-	2.36
132 KV	132/33 KV Sherghati	-	-	0.27	-	-	0.27
132 KV	132/33 KV Sonenagar	-	-	-	-	138.81	138.81
132 KV	132/33 KV Wajirganj	-	-	-	5.57	-	5.57
132 KV	220/132/33 KV Bodhgaya	-	-	-	31.95	-	31.95
132 KV	220/132/33 KV Dehri	-	-	-	19.10	-	19.10
132 KV	220/132/33 KV Fatuha	-	-	73.93	-	52.12	126.04
132 KV	220/132/33 KV Khagaul	-	-	-	-	55.42	55.42
132 KV	132/33 KV Bettiah	-	15.71	-	-	-	15.71
132 KV	132/33 KV Chapra	-	-	-	-	51.67	51.67
132 KV	132/33 KV Dalsinghsarai	-	-	-	-	56.17	56.17
132 KV	132/33 KV Dhaka	-	3.20	-	-	-	3.20
132 KV	132/33 KV Hazipur	-	-	-	-	48.84	48.84
132 KV	132/33 KV Kataya	33.21	-	-	-	-	33.21
132 KV	132/33 KV Motihari	2.22	10.09	-	-	-	12.31
132 KV	132/33 KV Narkatiaganj	-	2.76	-	-	-	2.76
132 KV	132/33 KV Pandaul	-	25.08	-	-	-	25.08
132 KV	132/33 KV Raxaul	117.11	-	-	-	-	117.11
132 KV	132/33 KV Rosera	0.88	2.96	-	-	-	3.84

Voltage Level	Name of Sub-Station	Distribution Licensee / Bulk Consumer				Railway LTOA (MUs)	Total Energy Delivered (MUs)
		NBPDCL (MUs)		SBPDCL (MUs)			
		North Bihar	Railway	South Bihar	Railway		
132 KV	132/33 KV Runisaidpur	-	20.12	-	-	-	20.12
132 KV	132/33 KV Sheetalpur	-	5.87	-	-	-	5.87
132 KV	132/33 KV Siwan	-	-	-	-	31.86	31.86
132 KV	132/33 KV Vaishali	-	55.35	-	-	-	55.35
132 KV	132/33 Mushrakh	2.99	-	-	-	-	2.99
132 KV	132/33 Ramnagar	5.94	22.59	-	-	-	28.53
132 KV	132/33 Samastipur	-	-	-	-	91.29	91.29
132 KV	132/33 kV Valmikinagar	149.93	-	-	-	-	149.93
132 KV	220/132/33 KV Gopalganj	1.35	-	-	-	-	1.35
132 KV	220/132/33 KV Madhepura	-	-	-	-	20.99	20.99
132 KV	220/132/33 KV Motipur	-	-	-	-	18.09	18.09
132 KV	132/33 KV Banka(New)	-	-	-	2.30	-	2.30
132 KV	132/33 KV Jamalpur	-	-	-	0.04	-	0.04
132 KV	132/33 KV Jamui	-	-	-	-	39.32	39.32
132 KV	132/33 KV Katihar	-	-	-	-	37.30	37.30
132 KV	132/33 KV Lakhisarai	-	-	-	-	83.32	83.32
132 KV	132/33 KV Naugachia	-	-	-	23.97	-	23.97
132 KV	132/33 KV Sabour	-	-	-	15.43	-	15.43
132 KV	132/33 KV Khagaria	-	-	-	-	33.45	33.45
132 KV	BIPS STAGE I	66.22	-	-	-	-	66.22
33 KV	132/33 KV Ara	-	-	517.57	-	-	517.57
33 KV	132/33 KV Ataula	-	-	306.47	-	-	306.47
33 KV	132/33 KV Aurangabad	-	-	415.67	-	-	415.67
33 KV	132/33 KV Banjari	-	-	116.80	-	-	116.80
33 KV	132/33 KV Barh	-	-	198.00	-	-	198.00
33 KV	132/33 KV Bariyahari	-	-	463.70	-	-	463.70
33 KV	132/33 KV Belaganj	-	-	152.05	-	-	152.05
33 KV	132/33 KV Bikramganj	-	-	415.34	-	-	415.34
33 KV	132/33 KV Buxar	-	-	314.04	-	-	314.04
33 KV	132/33 KV Chandauti(Gaya)	-	-	476.91	-	-	476.91
33 KV	132/33 KV Digha	-	-	550.23	-	-	550.23
33 KV	132/33 KV Dumroan	-	-	353.66	-	-	353.66
33 KV	132/33 KV Ekangarsarai	-	-	273.95	-	-	273.95
33 KV	132/33 KV Gaighat	-	-	495.49	-	-	495.49
33 KV	132/33 KV Goh	-	-	183.08	-	-	183.08

Voltage Level	Name of Sub-Station	Distribution Licensee / Bulk Consumer				Railway LTOA (MUs)	Total Energy Delivered (MUs)
		NBPDC (MUs)		SBPDCL (MUs)			
		North Bihar	Railway	South Bihar	Railway		
33 KV	132/33 KV Harnaut	-	-	288.79	-	-	288.79
33 KV	132/33 KV Hathidah	-	-	133.71	-	-	133.71
33 KV	132/33 KV Hulasganj	-	-	193.16	-	-	193.16
33 KV	132/33 KV Imamganj	-	-	148.69	-	-	148.69
33 KV	132/33 KV Jagdishpur	-	-	303.91	-	-	303.91
33 KV	132/33 KV Jakkanpur	-	-	489.23	-	-	489.23
33 KV	132/33 KV Jehanabad	-	-	304.64	-	-	304.64
33 KV	132/33 KV Karamnasa	-	-	199.07	-	-	199.07
33 KV	132/33 KV Karbighaya	-	-	355.36	-	-	355.36
33 KV	132/33 KV Katra	-	-	716.77	-	-	716.77
33 KV	132/33 KV Kerpa	-	-	47.40	-	-	47.40
33 KV	132/33 KV Kochas	-	-	248.06	-	-	248.06
33 KV	132/33 KV Kudra	-	-	159.46	-	-	159.46
33 KV	132/33 KV Masaudhi	-	-	251.37	-	-	251.37
33 KV	132/33 KV Mithapur	-	-	356.14	-	-	356.14
33 KV	132/33 KV Mohania	-	-	211.28	-	-	211.28
33 KV	132/33 KV Mundeshwari(Bhabua	-	-	143.64	-	-	143.64
33 KV	132/33 KV Nalanda	-	-	165.72	-	-	165.72
33 KV	132/33 KV Nawada	-	-	424.32	-	-	424.32
33 KV	132/33 KV Paliganj	-	-	75.34	-	-	75.34
33 KV	132/33 KV Piro	-	-	85.01	-	-	85.01
33 KV	132/33 KV Rafiganj	-	-	274.78	-	-	274.78
33 KV	132/33 KV Rajgir	-	-	180.85	-	-	180.85
33 KV	132/33 KV Ramgarh	-	-	123.47	-	-	123.47
33 KV	132/33 KV Sasaram	-	-	297.06	-	-	297.06
33 KV	132/33 KV Shekhpura	-	-	264.39	-	-	264.39
33 KV	132/33 KV Sherghati	-	-	222.15	-	-	222.15
33 KV	132/33 KV Sonenagar	-	-	193.91	-	-	193.91
33 KV	132/33 KV Tehta	-	-	125.19	-	-	125.19
33 KV	132/33 KV Tekari	-	-	183.58	-	-	183.58
33 KV	132/33 KV Wajirganj	-	-	265.78	-	-	265.78
33 KV	132/33 KV Warsaliganj	-	-	200.58	-	-	200.58
33 KV	132/33KV Bihta	-	-	490.68	-	-	490.68
33 KV	220/132 KV Bihta(New)	-	-	129.23	-	-	129.23
33 KV	220/132 KV Khisersarai GIS(BGCL	-	-	116.46	-	-	116.46
33 KV	220/132 KV Nawada GIS (BGCL)	-	-	137.71	-	-	137.71

Voltage Level	Name of Sub-Station	Distribution Licensee / Bulk Consumer				Railway LTOA (MUs)	Total Energy Delivered (MUs)
		NBPDC (MUs)		SBPDCL (MUs)			
		North Bihar	Railway	South Bihar	Railway		
33 KV	220/132 KV Sheikhpura GIS(BGC)	-	-	91.97	-	-	91.97
33 KV	220/132/33 KV ASTHAWAN	-	-	62.32	-	-	62.32
33 KV	220/132/33 KV Biharsharif(SG)	-	-	6.52	-	-	6.52
33 KV	220/132/33 KV Bodhgaya	-	-	541.98	-	-	541.98
33 KV	220/132/33 KV Dehri	-	-	355.57	-	-	355.57
33 KV	220/132/33 KV Fatuha	-	-	534.84	-	-	534.84
33 KV	220/132/33 KV Khagaul	-	-	796.50	-	-	796.50
33 KV	220/132/33 KV Pusouli	-	-	69.00	-	-	69.00
33 KV	220/132/33 KV Sipara	-	-	290.38	-	-	290.38
33 KV	220/132/33 KV Sonenagar (new)	-	-	108.74	-	-	108.74
33 KV	220/132/33 Karamnasa(New)	-	-	0.05	-	-	0.05
33 KV	Bhusaula BGCL0	-	-	22.31	-	-	22.31
33 KV	DumraoN New(BGCL)	-	-	121.23	-	-	121.23
33 KV	Mokama BGCL	-	-	31.20	-	-	31.20
33 KV	Naubatpur (400 KV) BGCL	-	-	13.02	-	-	13.02
33 KV	132 KV Supaul	152.22	-	-	-	-	152.22
33 KV	132/33 KV Areraj	140.63	-	-	-	-	140.63
33 KV	132/33 KV Belsand	52.53	-	-	-	-	52.53
33 KV	132/33 KV Benipatti	175.56	-	-	-	-	175.56
33 KV	132/33 KV Benipur	56.94	-	-	-	-	56.94
33 KV	132/33 KV Bettiah	373.11	-	-	-	-	373.11
33 KV	132/33 KV Chakiya	182.46	-	-	-	-	182.46
33 KV	132/33 KV Chapra	264.69	-	-	-	-	264.69
33 KV	132/33 KV Dalsinghsarai	169.02	-	-	-	-	169.02
33 KV	132/33 KV Darbhanga	255.07	-	-	-	-	255.07
33 KV	132/33 KV Dhaka	288.00	-	-	-	-	288.00
33 KV	132/33 KV Dhanha (Thakraha)	7.85	-	-	-	-	7.85
33 KV	132/33 KV Ekma	139.57	-	-	-	-	139.57
33 KV	132/33 KV Gangwara	362.89	-	-	-	-	362.89
33 KV	132/33 KV Hathua	217.63	-	-	-	-	217.63

Voltage Level	Name of Sub-Station	Distribution Licensee / Bulk Consumer				Railway LTOA (MUs)	Total Energy Delivered (MUs)
		NBPDC (MUs)		SBPDCL (MUs)			
		North Bihar	Railway	South Bihar	Railway		
33 KV	132/33 KV Hazipur	554.48	-	-	-	-	554.48
33 KV	132/33 KV Jainagar	154.25	-	-	-	-	154.25
33 KV	132/33 KV Jandaha	249.63	-	-	-	-	249.63
33 KV	132/33 KV Jhanjharpur	70.03	-	-	-	-	70.03
33 KV	132/33 KV Kataya	112.65	-	-	-	-	112.65
33 KV	132/33 KV Kusheshwarsthan	128.88	-	-	-	-	128.88
33 KV	132/33 KV Madhubani	187.01	-	-	-	-	187.01
33 KV	132/33 KV Maharajganj	153.23	-	-	-	-	153.23
33 KV	132/33 KV Mahnar	69.40	-	-	-	-	69.40
33 KV	132/33 KV Motihari	433.59	-	-	-	-	433.59
33 KV	132/33 KV Muzaffarpur	494.91	-	-	-	-	494.91
33 KV	132/33 KV Narkatiaganj	87.12	-	-	-	-	87.12
33 KV	132/33 KV Nirmali	33.82	-	-	-	-	33.82
33 KV	132/33 KV Pakhridayal	38.74	-	-	-	-	38.74
33 KV	132/33 KV Pandaul	207.71	-	-	-	-	207.71
33 KV	132/33 KV Phulparas	108.90	-	-	-	-	108.90
33 KV	132/33 KV Pupri	107.44	-	-	-	-	107.44
33 KV	132/33 KV Raxaul	234.46	-	-	-	-	234.46
33 KV	132/33 KV Rosera	160.89	-	-	-	-	160.89
33 KV	132/33 KV Runisaidpur	146.40	-	-	-	-	146.40
33 KV	132/33 KV SKMCH	454.35	-	-	-	-	454.35
33 KV	132/33 KV Saharsa	230.51	-	-	-	-	230.51
33 KV	132/33 KV Shahpurpatori	112.50	-	-	-	-	112.50
33 KV	132/33 KV Sheetalpur	194.07	-	-	-	-	194.07
33 KV	132/33 KV Sheohar	146.02	-	-	-	-	146.02
33 KV	132/33 KV Simribakhtiyarpur	83.03	-	-	-	-	83.03
33 KV	132/33 KV Sitamarhi	416.60	-	-	-	-	416.60
33 KV	132/33 KV Siwan	463.32	-	-	-	-	463.32
33 KV	132/33 KV Sonebarsa	89.48	-	-	-	-	89.48
33 KV	132/33 KV Triveniganj	65.76	-	-	-	-	65.76
33 KV	132/33 KV Udakishenganj	186.59	-	-	-	-	186.59
33 KV	132/33 KV Vaishali	310.31	-	-	-	-	310.31
33 KV	132/33 KV Mushrakh	169.91	-	-	-	-	169.91
33 KV	132/33 Ramnagar	308.95	-	-	-	-	308.95
33 KV	132/33 Samastipur	443.37	-	-	-	-	443.37
33 KV	132/33 Siwan-New (Raghunathpu	214.08	-	-	-	-	214.08

Voltage Level	Name of Sub-Station	Distribution Licensee / Bulk Consumer				Railway LTOA (MUs)	Total Energy Delivered (MUs)
		NBPDC (MUs)		SBPDCL (MUs)			
		North Bihar	Railway	South Bihar	Railway		
33 KV	132/33 KV Valmikinagar	22.66	-	-	-	-	22.66
33 KV	132/33KV Raghopur	141.64	-	-	-	-	141.64
33 KV	220/132/33 KV Amnour GIS(BGC)	250.94	-	-	-	-	250.94
33 KV	220/132/33 KV GORAUL	-	-	-	-	-	-
33 KV	220/132/33 KV Gopalganj	456.14	-	-	-	-	456.14
33 KV	220/132/33 KV Hazipur	-	-	-	-	-	-
33 KV	220/132/33 KV Laukahi	116.68	-	-	-	-	116.68
33 KV	220/132/33 KV Madhepura	234.02	-	-	-	-	234.02
33 KV	220/132/33 KV Motipur	177.21	-	-	-	-	177.21
33 KV	220/132/33 KV Musahari	305.16	-	-	-	-	305.16
33 KV	220/132/33 KV Samastipur (new)	122.76	-	-	-	-	122.76
33 KV	132/33 KV Araria	235.60	-	-	-	-	235.60
33 KV	132/33 KV Baisi	92.34	-	-	-	-	92.34
33 KV	132/33 KV Banka	-	-	269.55	-	-	269.55
33 KV	132/33 KV Banka(New)	-	-	68.63	-	-	68.63
33 KV	132/33 KV Banmankhi	112.88	-	-	-	-	112.88
33 KV	132/33 KV Barsoi	183.22	-	-	-	-	183.22
33 KV	132/33 KV Bhagalpur(New)	-	-	71.20	-	-	71.20
33 KV	132/33 KV Dhamdaha	100.60	-	-	-	-	100.60
33 KV	132/33 KV Forbisganj	263.72	-	-	-	-	263.72
33 KV	132/33 KV Jamalpur	-	-	322.16	-	-	322.16
33 KV	132/33 KV Jamui	-	-	417.83	-	-	417.83
33 KV	132/33 KV Jamui(New)	-	-	106.16	-	-	106.16
33 KV	132/33 KV Kahalgaon	-	-	279.55	-	-	279.55
33 KV	132/33 KV Katihar	287.90	-	-	-	-	287.90
33 KV	132/33 KV Kishanganj	233.81	-	-	-	-	233.81
33 KV	132/33 KV Lakhisarai	-	-	399.18	-	-	399.18
33 KV	132/33 KV Naugachia	-	-	214.79	-	-	214.79
33 KV	132/33 KV Purnea	477.95	-	-	-	-	477.95
33 KV	132/33 KV Sabour	-	-	406.21	-	-	406.21
33 KV	132/33 KV Sultanganj	-	-	290.43	-	-	290.43
33 KV	132/33 KV Tarapur	-	-	108.15	-	-	108.15
33 KV	132/33 Manihari	103.49	-	-	-	-	103.49
33 KV	220/132 KV Jamalpur GIS	-	-	74.87	-	-	74.87
33 KV	220/132 KV Sabour New GIS(BGC)	-	-	174.43	-	-	174.43
33 KV	220/132/33 KV Kishanganj (new)	107.08	-	-	-	-	107.08

Voltage Level	Name of Sub-Station	Distribution Licensee / Bulk Consumer				Railway LTOA (MUs)	Total Energy Delivered (MUs)
		NBPDC (MUs)		SBPDCL (MUs)			
		North Bihar	Railway	South Bihar	Railway		
33 KV	132/33 KV Bakhri	59.46	-	-	-	-	59.46
33 KV	132/33 KV Khagaria	202.18	-	-	-	-	202.18
33 KV	132/33 KV Majhaul	169.97	-	-	-	-	169.97
33 KV	132/33 KV Teghra	67.77	-	-	-	-	67.77
33 KV	133 KV Balia	166.41	-	-	-	-	166.41
33 KV	220/132/33 KV Begusarai	402.43	-	-	-	-	402.43
33 KV	220/132/33kV Khagaria	107.90	-	-	-	-	107.90
Total for all Voltages		16,042.30	163.72	20,218.14	124.53	1,200.48	37,749.18
PGCIL Tertiary Auxiliary Consumption							3.25
Total							37,752.43

FY 2023-24 (upto Sep_23)

Name of Transmission Licensee : BSPTCL & BGCL

Energy Delivered by Transmission licensee to the Distribution

Form No.- P2

Licensees/ Bulk consumers at interface points

Voltage Level	Name of Sub-Station	Distribution Licensee / Bulk Consumer				Railway LTOA (MUs)	Total Energy Delivered (MUs)
		NBPDC (MUs)		SBPDCL (MUs)			
		North Bihar	Railway	South Bihar	Railway		
220 KV	N/A	N/A	N/A	N/A	N/A	N/A	
132 KV	132/33 KV Ara	-	-	-	-	19.18	
132 KV	132/33 KV Aurangabad	-	-	52.18	-	52.18	
132 KV	132/33 KV Banjari	-	-	16.79	-	16.79	
132 KV	132/33 KV Bikramganj	-	-	-	3.10	3.10	
132 KV	132/33 KV Chandauti(Gaya)	-	-	-	-	25.56	
132 KV	132/33 KV Dumroan	-	-	-	-	19.37	
132 KV	132/33 KV Hathidah	-	-	-	-	21.91	
132 KV	132/33 KV Jehanabad	-	-	-	-	11.74	
132 KV	132/33 KV Karamnasa	-	-	-	-	12.31	
132 KV	132/33 KV Kudra	-	-	-	-	34.18	
132 KV	132/33 KV Nalanda	-	-	-	12.62	12.62	
132 KV	132/33 KV Rafiganj	-	-	0.11	-	31.91	
132 KV	132/33 KV Rajgir	-	-	1.21	-	1.21	
132 KV	132/33 KV Shekhpura	-	-	-	1.76	1.76	
132 KV	132/33 KV Sherghati	-	-	0.10	-	0.10	
132 KV	132/33 KV Sonenagar	-	-	-	-	59.46	
132 KV	132/33 KV Wajirganj	-	-	-	10.76	10.76	
132 KV	220/132/33 KV Bodhgaya	-	-	-	13.14	13.14	
132 KV	220/132/33 KV Dehri	-	-	-	10.86	10.86	
132 KV	220/132/33 KV Fatuha	-	-	46.96	-	68.62	
132 KV	220/132/33 KV Khagaul	-	-	-	-	25.45	
132 KV	132/33 KV Bettiah	-	5.74	-	-	5.74	
132 KV	132/33 KV Chapra	-	-	-	-	22.42	
132 KV	132/33 KV Dalsinghsarai	-	-	-	-	22.75	
132 KV	132/33 KV Dhaka	-	6.84	-	-	6.84	
132 KV	132/33 KV Hazipur	-	-	-	-	21.89	
132 KV	132/33 KV Kataya	11.10	-	-	-	11.10	
132 KV	132/33 KV Motihari	0.37	3.34	-	-	3.71	
132 KV	132/33 KV Narkatiaganj	-	1.91	-	-	1.91	
132 KV	132/33 KV Pandaul	-	10.98	-	-	10.98	

132 KV	132/33 KV Raxaul	38.46	-	-	-	-	38.46
132 KV	132/33 KV Rosera	0.54	4.48	-	-	-	5.02
132 KV	132/33 KV Runisaidpur	-	5.65	-	-	-	5.65
132 KV	132/33 KV Sheetalpur	-	5.06	-	-	-	5.06
132 KV	132/33 KV Siwan	-	-	-	-	13.81	13.81
132 KV	132/33 KV Vaishali	-	26.76	-	-	-	26.76
132 KV	132/33 Mushrakh	1.67	-	-	-	-	1.67
132 KV	132/33 Ramnagar	3.41	8.83	-	-	-	12.24
132 KV	132/33 Samastipur	-	-	-	-	37.16	37.16
132 KV	132/33 kV Valmikinagar	68.18	-	-	-	-	68.18
132 KV	220/132/33 KV Gopalganj	0.70	-	-	-	-	0.70
132 KV	220/132/33 KV Madhepura	-	-	-	-	11.08	11.08
132 KV	220/132/33 KV Motipur	-	-	-	-	9.33	9.33
132 KV	132/33 KV Banka(New)	-	-	-	4.67	-	4.67
132 KV	132/33 KV Jamalpur	-	-	-	11.56	-	11.56
132 KV	132/33 KV Jamui	-	-	-	-	17.35	17.35
132 KV	132/33 KV Katihar	-	-	-	-	17.76	17.76
132 KV	132/33 KV Lakhisarai	-	-	-	-	28.44	28.44
132 KV	132/33 KV Naugachia	-	-	-	14.94	-	14.94
132 KV	132/33 KV Sabour	-	-	-	9.91	-	9.91
132 KV	132/33 KV Khagaria	-	-	-	-	14.76	14.76
132 KV	BIPS STAGE I	36.94	-	-	-	-	36.94
33 KV	132/33 KV Ara	-	-	267.23	-	-	267.23
33 KV	132/33 KV Ataula	-	-	142.18	-	-	142.18
33 KV	132/33 KV Aurangabad	-	-	201.43	-	-	201.43
33 KV	132/33 KV Banjari	-	-	54.02	-	-	54.02
33 KV	132/33 KV Barh	-	-	100.70	-	-	100.70
33 KV	132/33 KV Baripahari	-	-	227.99	-	-	227.99
33 KV	132/33 KV Belaganj	-	-	75.26	-	-	75.26
33 KV	132/33 KV Bikramganj	-	-	186.95	-	-	186.95
33 KV	132/33 KV Buxar	-	-	156.04	-	-	156.04
33 KV	132/33 KV Chandauti(Gaya)	-	-	254.05	-	-	254.05
33 KV	132/33 KV Digha	-	-	311.40	-	-	311.40
33 KV	132/33 KV Dumroan	-	-	165.38	-	-	165.38
33 KV	132/33 KV Ekangarsarai	-	-	144.29	-	-	144.29
33 KV	132/33 KV Gaihat	-	-	294.65	-	-	294.65
33 KV	132/33 KV Goh	-	-	84.88	-	-	84.88
33 KV	132/33 KV Harnaut	-	-	135.51	-	-	135.51
33 KV	132/33 KV Hathidah	-	-	57.62	-	-	57.62

33 KV	132/33 KV Hulasganj	-	-	81.71	-	-	81.71
33 KV	132/33 KV Imamganj	-	-	72.24	-	-	72.24
33 KV	132/33 KV Jagdishpur	-	-	141.48	-	-	141.48
33 KV	132/33 KV Jakkanpur	-	-	258.18	-	-	258.18
33 KV	132/33 KV Jehanabad	-	-	149.03	-	-	149.03
33 KV	132/33 KV Karamnasa	-	-	96.48	-	-	96.48
33 KV	132/33 KV Karbighaya	-	-	208.50	-	-	208.50
33 KV	132/33 KV Katra	-	-	327.97	-	-	327.97
33 KV	132/33 KV Kerpa	-	-	54.79	-	-	54.79
33 KV	132/33 KV Kochas	-	-	111.70	-	-	111.70
33 KV	132/33 KV Kudra	-	-	66.85	-	-	66.85
33 KV	132/33 KV Masaudhi	-	-	129.61	-	-	129.61
33 KV	132/33 KV Mithapur	-	-	202.21	-	-	202.21
33 KV	132/33 KV Mohania	-	-	108.87	-	-	108.87
33 KV	132/33 KV Mundeshwari(Bhabu	-	-	68.01	-	-	68.01
33 KV	132/33 KV Nalanda	-	-	78.57	-	-	78.57
33 KV	132/33 KV Nawada	-	-	219.90	-	-	219.90
33 KV	132/33 KV Paliganj	-	-	63.18	-	-	63.18
33 KV	132/33 KV Piro	-	-	38.53	-	-	38.53
33 KV	132/33 KV Rafiganj	-	-	128.41	-	-	128.41
33 KV	132/33 KV Rajgir	-	-	91.77	-	-	91.77
33 KV	132/33 KV Ramgarh	-	-	64.95	-	-	64.95
33 KV	132/33 KV Sasaram	-	-	147.91	-	-	147.91
33 KV	132/33 KV Shekhpura	-	-	126.32	-	-	126.32
33 KV	132/33 KV Sherghati	-	-	108.66	-	-	108.66
33 KV	132/33 KV Sonenagar	-	-	85.23	-	-	85.23
33 KV	132/33 KV Tehta	-	-	56.72	-	-	56.72
33 KV	132/33 KV Tekari	-	-	85.11	-	-	85.11
33 KV	132/33 KV Wajrganj	-	-	121.65	-	-	121.65
33 KV	132/33 KV Warsaliganj	-	-	104.95	-	-	104.95
33 KV	132/33KV Bihta	-	-	174.25	-	-	174.25
33 KV	220/132 KV Bihta(New)	-	-	92.28	-	-	92.28
33 KV	220/132 KV Khisersarai GIS(BGC	-	-	62.49	-	-	62.49
33 KV	220/132 KV Nawada GIS (BGCL	-	-	72.00	-	-	72.00
33 KV	220/132 KV Sheikhpura GIS(BGC	-	-	44.03	-	-	44.03
33 KV	220/132/33 KV ASTHAWAN	-	-	50.02	-	-	50.02
33 KV	220/132/33 KV Biharsharif(SG)	-	-	2.77	-	-	2.77
33 KV	220/132/33 KV Bodhgaya	-	-	261.87	-	-	261.87
33 KV	220/132/33 KV Dehri	-	-	133.17	-	-	133.17
33 KV	220/132/33 KV Fatuha	-	-	255.60	-	-	255.60

33 KV	220/132/33 KV Khagaul	-	-	356.03	-	-	356.03
33 KV	220/132/33 KV Pusouli	-	-	26.06	-	-	26.06
33 KV	220/132/33 KV Sipara	-	-	149.22	-	-	149.22
33 KV	220/132/33 KV Sonenagar (new)	-	-	55.65	-	-	55.65
33 KV	220/132/33 Karamnasa(New)	-	-	-	-	-	-
33 KV	Bhusaula BGCL0	-	-	70.99	-	-	70.99
33 KV	DumraoN New(BGCL)	-	-	63.76	-	-	63.76
33 KV	Mokama BGCL	-	-	24.97	-	-	24.97
33 KV	Naubatpur (400 KV) BGCL	-	-	9.57	-	-	9.57
33 KV	132 KV Supaul	79.99	-	-	-	-	79.99
33 KV	132/33 KV Areraj	76.97	-	-	-	-	76.97
33 KV	132/33 KV Belsand	26.05	-	-	-	-	26.05
33 KV	132/33 KV Benipatti	88.54	-	-	-	-	88.54
33 KV	132/33 KV Benipur	28.30	-	-	-	-	28.30
33 KV	132/33 KV Bettiah	193.24	-	-	-	-	193.24
33 KV	132/33 KV Chakiya	105.08	-	-	-	-	105.08
33 KV	132/33 KV Chapra	140.47	-	-	-	-	140.47
33 KV	132/33 KV Dalsinghsarai	91.59	-	-	-	-	91.59
33 KV	132/33 KV Darbhanga	139.21	-	-	-	-	139.21
33 KV	132/33 KV Dhaka	157.41	-	-	-	-	157.41
33 KV	132/33 KV Dhanha (Thakraha)	14.27	-	-	-	-	14.27
33 KV	132/33 KV Ekma	71.73	-	-	-	-	71.73
33 KV	132/33 KV Gangwara	187.98	-	-	-	-	187.98
33 KV	132/33 KV Hathua	115.05	-	-	-	-	115.05
33 KV	132/33 KV Hazipur	280.68	-	-	-	-	280.68
33 KV	132/33 KV Jainagar	79.84	-	-	-	-	79.84
33 KV	132/33 KV Jandaha	136.21	-	-	-	-	136.21
33 KV	132/33 KV Jhanjharpur	37.82	-	-	-	-	37.82
33 KV	132/33 KV Kataya	58.99	-	-	-	-	58.99
33 KV	132/33 KV Kusheshwarsthan	73.42	-	-	-	-	73.42
33 KV	132/33 KV Madhubani	100.51	-	-	-	-	100.51
33 KV	132/33 KV Maharajganj	79.34	-	-	-	-	79.34
33 KV	132/33 KV Mahnar	36.68	-	-	-	-	36.68
33 KV	132/33 KV Motihari	232.15	-	-	-	-	232.15
33 KV	132/33 KV Muzaffarpur	248.23	-	-	-	-	248.23
33 KV	132/33 KV Narkatiaganj	46.07	-	-	-	-	46.07
33 KV	132/33 KV Nirmali	18.12	-	-	-	-	18.12
33 KV	132/33 KV Pakhridayal	21.26	-	-	-	-	21.26
33 KV	132/33 KV Pandaul	114.42	-	-	-	-	114.42
33 KV	132/33 KV Phulparas	47.34	-	-	-	-	47.34

33 KV	132/33 KV Pupri	56.05	-	-	-	-	56.05
33 KV	132/33 KV Raxaul	115.43	-	-	-	-	115.43
33 KV	132/33 KV Rosera	92.01	-	-	-	-	92.01
33 KV	132/33 KV Runisaipur	77.40	-	-	-	-	77.40
33 KV	132/33 KV SKMCH	236.78	-	-	-	-	236.78
33 KV	132/33 KV Saharsa	122.76	-	-	-	-	122.76
33 KV	132/33 KV Shahpurpatori	61.71	-	-	-	-	61.71
33 KV	132/33 KV Sheetalpur	104.19	-	-	-	-	104.19
33 KV	132/33 KV Sheohar	77.82	-	-	-	-	77.82
33 KV	132/33 KV Simribakhtiyarpur	47.11	-	-	-	-	47.11
33 KV	132/33 KV Sitamarhi	225.04	-	-	-	-	225.04
33 KV	132/33 KV Siwan	247.31	-	-	-	-	247.31
33 KV	132/33 KV Sonebarsa	44.16	-	-	-	-	44.16
33 KV	132/33 KV Triveniganj	36.17	-	-	-	-	36.17
33 KV	132/33 KV Udakishenganj	100.24	-	-	-	-	100.24
33 KV	132/33 KV Vaishali	157.37	-	-	-	-	157.37
33 KV	132/33 Mushrakh	85.85	-	-	-	-	85.85
33 KV	132/33 Ramnagar	179.50	-	-	-	-	179.50
33 KV	132/33 Samastipur	236.36	-	-	-	-	236.36
33 KV	132/33 Siwan-New (Raghunathp	105.88	-	-	-	-	105.88
33 KV	132/33 Siwan-New (Raghunathp	-	-	-	-	-	-
33 KV	132/33 kV Valmikinagar	13.06	-	-	-	-	13.06
33 KV	132/33KV Raghapur	70.57	-	-	-	-	70.57
33 KV	220/132/33 KV Amnour GIS(BG	133.66	-	-	-	-	133.66
33 KV	220/132/33 KV GORAUL	0.73	-	-	-	-	0.73
33 KV	220/132/33 KV Gopalganj	229.20	-	-	-	-	229.20
33 KV	220/132/33 KV Hazipur	-	-	-	-	-	-
33 KV	220/132/33 KV Laukahi	71.33	-	-	-	-	71.33
33 KV	220/132/33 KV Madhepura	121.60	-	-	-	-	121.60
33 KV	220/132/33 KV Motipur	93.05	-	-	-	-	93.05
33 KV	220/132/33 KV Musahari	166.97	-	-	-	-	166.97
33 KV	220/132/33 KV Samastipur (new	68.05	-	-	-	-	68.05
33 KV	132/33 KV Araria	129.44	-	-	-	-	129.44
33 KV	132/33 KV Araria	-	-	-	-	-	-
33 KV	132/33 KV Baisi	56.51	-	-	-	-	56.51
33 KV	132/33 KV Banka	-	-	139.93	-	-	139.93
33 KV	132/33 KV Banka(New)	-	-	35.07	-	-	35.07
33 KV	132/33 KV Banmankhi	60.10	-	-	-	-	60.10
33 KV	132/33 KV Barsoi	113.70	-	-	-	-	113.70
33 KV	132/33 KV Bhagalpur(New)	-	-	51.65	-	-	51.65

33 KV	132/33 KV Dhamdaha	53.58	-	-	-	-	53.58
33 KV	132/33 KV Forbisganj	136.15	-	-	-	-	136.15
33 KV	132/33 KV Jamalpur	-	-	163.82	-	-	163.82
33 KV	132/33 KV Jamui	-	-	210.15	-	-	210.15
33 KV	132/33 KV Jamui(New)	-	-	51.93	-	-	51.93
33 KV	132/33 KV Kahalgaon	-	-	136.34	-	-	136.34
33 KV	132/33 KV Katihar	154.30	-	-	-	-	154.30
33 KV	132/33 KV Kishanganj	124.30	-	-	-	-	124.30
33 KV	132/33 KV Lakhisarai	-	-	195.35	-	-	195.35
33 KV	132/33 KV Naugachia	-	-	109.55	-	-	109.55
33 KV	132/33 KV PALASI	1.21	-	-	-	-	1.21
33 KV	132/33 KV Purnea	258.08	-	-	-	-	258.08
33 KV	132/33 KV Sabour	-	-	199.06	-	-	199.06
33 KV	132/33 KV Sultanganj	-	-	136.22	-	-	136.22
33 KV	132/33 KV Tarapur	-	-	60.66	-	-	60.66
33 KV	132/33 Manihari	59.08	-	-	-	-	59.08
33 KV	220/132 KV Jamalpur GIS	-	-	40.92	-	-	40.92
33 KV	220/132 KV Sabour New GIS(BG	-	-	84.90	-	-	84.90
33 KV	220/132/33 KV Kishanganj (new	61.22	-	-	-	-	61.22
33 KV	220/132/33 KV Kishanganj (new	-	-	-	-	-	-
33 KV	132/33 KV Bakhri	31.79	-	-	-	-	31.79
33 KV	132/33 KV Khagaria	98.06	-	-	-	-	98.06
33 KV	132/33 KV Majhaul	90.66	-	-	-	-	90.66
33 KV	132/33 KV Teghra	41.03	-	-	-	-	41.03
33 KV	133 KV Balia	90.33	-	-	-	-	90.33
33 KV	220/132/33 KV Begusarai	202.74	-	-	-	-	202.74
33 KV	220/132/33kV Khagaria	64.11	-	-	-	-	64.11
Total for all Voltages		8,492.09	79.59	10,096.65	93.34	499.49	19,261.17
PGCIL Tertiary Auxiliary Consumption							1.46
Total							19,262.62

FY 2023-24 (Projection)

Name of Transmission Licensee : BSPTCL & BGCL

Energy Delivered by Transmission licensee to the Distribution

Form No.- P2

Licenseses/ Bulk consumers at interface points

Voltage Level	Name of Sub-Station	Distribution Licensee / Bulk Consumer				Railway LTOA (MUs)	Total Energy Delivered (MUs)
		NBPDC (MUs)		SBPDCL (MUs)			
		North Bihar	Railway	South Bihar	Railway		
220 KV	N/A	N/A	N/A	N/A	N/A	N/A	N/A
132 KV	132/33 KV Ara	-	-	-	-	46.04	46.04
132 KV	132/33 KV Aurangabad	-	-	125.22	-	-	125.22
132 KV	132/33 KV Banjari	-	-	40.31	-	-	40.31
132 KV	132/33 KV Bikramganj	-	-	-	7.45	-	7.45
132 KV	132/33 KV Chandauti(Gaya)	-	-	-	-	61.35	61.35
132 KV	132/33 KV Dumroan	-	-	-	-	46.48	46.48
132 KV	132/33 KV Hathidah	-	-	-	-	52.58	52.58
132 KV	132/33 KV Jehanabad	-	-	-	-	28.17	28.17
132 KV	132/33 KV Karamnasa	-	-	-	-	29.54	29.54
132 KV	132/33 KV Kudra	-	-	-	-	82.03	82.03
132 KV	132/33 KV Nalanda	-	-	-	30.29	-	30.29
132 KV	132/33 KV Rafiganj	-	-	0.27	-	76.58	76.85
132 KV	132/33 KV Rajgir	-	-	2.90	-	-	2.90
132 KV	132/33 KV Shekhpura	-	-	-	4.23	-	4.23
132 KV	132/33 KV Sherghati	-	-	0.24	-	-	0.24
132 KV	132/33 KV Sonenagar	-	-	-	-	142.72	142.72
132 KV	132/33 KV Wajirganj	-	-	-	25.83	-	25.83
132 KV	220/132/33 KV Bodhgaya	-	-	-	31.53	-	31.53
132 KV	220/132/33 KV Dehri	-	-	-	26.07	-	26.07
132 KV	220/132/33 KV Fatuha	-	-	112.71	-	51.99	164.70
132 KV	220/132/33 KV Khagaul	-	-	-	-	61.08	61.08
132 KV	132/33 KV Bettiah	-	13.78	-	-	-	13.78
132 KV	132/33 KV Chapra	-	-	-	-	53.82	53.82
132 KV	132/33 KV Dalsinghsarai	-	-	-	-	54.59	54.59
132 KV	132/33 KV Dhaka	-	16.42	-	-	-	16.42
132 KV	132/33 KV Hazipur	-	-	-	-	52.54	52.54
132 KV	132/33 KV Kataya	26.63	-	-	-	-	26.63
132 KV	132/33 KV Motihari	0.90	8.00	-	-	-	8.90
132 KV	132/33 KV Narkatiaganj	-	4.57	-	-	-	4.57
132 KV	132/33 KV Pandaul	-	26.36	-	-	-	26.36

132 KV	132/33 KV Raxaul	92.30	-	-	-	-	92.30
132 KV	132/33 KV Rosera	1.29	10.76	-	-	-	12.05
132 KV	132/33 KV Runisaidpur	-	13.55	-	-	-	13.55
132 KV	132/33 KV Sheetalpur	-	12.14	-	-	-	12.14
132 KV	132/33 KV Siwan	-	-	-	-	33.14	33.14
132 KV	132/33 KV Vaishali	-	64.23	-	-	-	64.23
132 KV	132/33 Mushrakh	4.00	-	-	-	-	4.00
132 KV	132/33 Ramnagar	8.18	21.20	-	-	-	29.39
132 KV	132/33 Samastipur	-	-	-	-	89.18	89.18
132 KV	132/33 kV Valmikinagar	163.64	-	-	-	-	163.64
132 KV	220/132/33 KV Gopalganj	1.69	-	-	-	-	1.69
132 KV	220/132/33 KV Madhepura	-	-	-	-	26.59	26.59
132 KV	220/132/33 KV Motipur	-	-	-	-	22.40	22.40
132 KV	132/33 KV Banka(New)	-	-	-	11.20	-	11.20
132 KV	132/33 KV Jamalpur	-	-	-	27.75	-	27.75
132 KV	132/33 KV Jamui	-	-	-	-	41.65	41.65
132 KV	132/33 KV Katihar	-	-	-	-	42.63	42.63
132 KV	132/33 KV Lakhisarai	-	-	-	-	68.26	68.26
132 KV	132/33 KV Naugachia	-	-	-	35.86	-	35.86
132 KV	132/33 KV Sabour	-	-	-	23.79	-	23.79
132 KV	132/33 KV Khagaria	-	-	-	-	35.43	35.43
132 KV	BIPS STAGE I	88.67	-	-	-	-	88.67
-	-	-	-	-	-	-	-
33 KV	132/33 KV Ara	-	-	641.35	-	-	641.35
33 KV	132/33 KV Ataula	-	-	341.23	-	-	341.23
33 KV	132/33 KV Aurangabad	-	-	483.43	-	-	483.43
33 KV	132/33 KV Banjari	-	-	129.65	-	-	129.65
33 KV	132/33 KV Barh	-	-	241.69	-	-	241.69
33 KV	132/33 KV Baripahari	-	-	547.16	-	-	547.16
33 KV	132/33 KV Belaganj	-	-	180.62	-	-	180.62
33 KV	132/33 KV Bikramganj	-	-	448.67	-	-	448.67
33 KV	132/33 KV Buxar	-	-	374.50	-	-	374.50
33 KV	132/33 KV Chandauti(Gaya)	-	-	609.71	-	-	609.71
33 KV	132/33 KV Digha	-	-	747.36	-	-	747.36
33 KV	132/33 KV Dumroan	-	-	396.91	-	-	396.91
33 KV	132/33 KV Ekangarsarai	-	-	346.29	-	-	346.29
33 KV	132/33 KV Gaihat	-	-	707.16	-	-	707.16
33 KV	132/33 KV Goh	-	-	203.70	-	-	203.70
33 KV	132/33 KV Harnaut	-	-	325.23	-	-	325.23
33 KV	132/33 KV Hathidah	-	-	138.30	-	-	138.30

33 KV	132/33 KV Hulasganj	-	-	196.11	-	-	196.11
33 KV	132/33 KV Imamganj	-	-	173.37	-	-	173.37
33 KV	132/33 KV Jagdishpur	-	-	339.56	-	-	339.56
33 KV	132/33 KV Jakkanpur	-	-	619.63	-	-	619.63
33 KV	132/33 KV Jehanabad	-	-	357.68	-	-	357.68
33 KV	132/33 KV Karamnasa	-	-	231.54	-	-	231.54
33 KV	132/33 KV Karbighaya	-	-	500.39	-	-	500.39
33 KV	132/33 KV Katra	-	-	787.12	-	-	787.12
33 KV	132/33 KV Kerpa	-	-	131.49	-	-	131.49
33 KV	132/33 KV Kochas	-	-	268.07	-	-	268.07
33 KV	132/33 KV Kudra	-	-	160.43	-	-	160.43
33 KV	132/33 KV Masaudhi	-	-	311.06	-	-	311.06
33 KV	132/33 KV Mithapur	-	-	485.30	-	-	485.30
33 KV	132/33 KV Mohania	-	-	261.30	-	-	261.30
33 KV	132/33 KV Mundeshwari(Bhabu	-	-	163.22	-	-	163.22
33 KV	132/33 KV Nalanda	-	-	188.57	-	-	188.57
33 KV	132/33 KV Nawada	-	-	527.77	-	-	527.77
33 KV	132/33 KV Paliganj	-	-	151.64	-	-	151.64
33 KV	132/33 KV Piro	-	-	92.46	-	-	92.46
33 KV	132/33 KV Rafiganj	-	-	308.19	-	-	308.19
33 KV	132/33 KV Rajgir	-	-	220.24	-	-	220.24
33 KV	132/33 KV Ramgarh	-	-	155.88	-	-	155.88
33 KV	132/33 KV Sasaram	-	-	354.99	-	-	354.99
33 KV	132/33 KV Shekhpura	-	-	303.17	-	-	303.17
33 KV	132/33 KV Sherghati	-	-	260.79	-	-	260.79
33 KV	132/33 KV Sonenagar	-	-	204.55	-	-	204.55
33 KV	132/33 KV Tehta	-	-	136.14	-	-	136.14
33 KV	132/33 KV Tekari	-	-	204.27	-	-	204.27
33 KV	132/33 KV Wajirganj	-	-	291.95	-	-	291.95
33 KV	132/33 KV Warsaliganj	-	-	251.87	-	-	251.87
33 KV	132/33KV Bihta	-	-	418.20	-	-	418.20
33 KV	220/132 KV Bihta(New)	-	-	221.46	-	-	221.46
33 KV	220/132 KV Khisersarai GIS(BG	-	-	149.98	-	-	149.98
33 KV	220/132 KV Nawada GIS (BGCI	-	-	172.80	-	-	172.80
33 KV	220/132 KV Sheikhpura GIS(BG	-	-	105.68	-	-	105.68
33 KV	220/132/33 KV ASTHAWAN	-	-	120.04	-	-	120.04
33 KV	220/132/33 KV Biharsharif(SG)	-	-	6.65	-	-	6.65
33 KV	220/132/33 KV Bodhgaya	-	-	628.48	-	-	628.48
33 KV	220/132/33 KV Dehri	-	-	319.60	-	-	319.60
33 KV	220/132/33 KV Fatuha	-	-	613.44	-	-	613.44

33 KV	220/132/33 KV Khagaul	-	-	854.48	-	-	854.48
33 KV	220/132/33 KV Pusouli	-	-	62.55	-	-	62.55
33 KV	220/132/33 KV Sipara	-	-	358.12	-	-	358.12
33 KV	220/132/33 KV Sonenagar (new)	-	-	133.56	-	-	133.56
33 KV	220/132/33 Karamnasa(New)	-	-	-	-	-	-
33 KV	Bhusaula BGCL0	-	-	170.37	-	-	170.37
33 KV	DumraoN New(BGCL)	-	-	153.02	-	-	153.02
33 KV	Mokama BGCL	-	-	59.93	-	-	59.93
33 KV	Naubatpur (400 KV) BGCL	-	-	22.97	-	-	22.97
33 KV	132 KV Supaul	191.96	-	-	-	-	191.96
33 KV	132/33 KV Areraj	184.74	-	-	-	-	184.74
33 KV	132/33 KV Belsand	62.52	-	-	-	-	62.52
33 KV	132/33 KV Benipatti	212.50	-	-	-	-	212.50
33 KV	132/33 KV Benipur	67.92	-	-	-	-	67.92
33 KV	132/33 KV Bettiah	463.79	-	-	-	-	463.79
33 KV	132/33 KV Chakiya	252.18	-	-	-	-	252.18
33 KV	132/33 KV Chapra	337.14	-	-	-	-	337.14
33 KV	132/33 KV Dalsinghsarai	219.83	-	-	-	-	219.83
33 KV	132/33 KV Darbhanga	334.09	-	-	-	-	334.09
33 KV	132/33 KV Dhaka	377.78	-	-	-	-	377.78
33 KV	132/33 KV Dhanha (Thakraha)	34.24	-	-	-	-	34.24
33 KV	132/33 KV Ekma	172.15	-	-	-	-	172.15
33 KV	132/33 KV Gangwara	451.16	-	-	-	-	451.16
33 KV	132/33 KV Hathua	276.11	-	-	-	-	276.11
33 KV	132/33 KV Hazipur	673.63	-	-	-	-	673.63
33 KV	132/33 KV Jainagar	191.63	-	-	-	-	191.63
33 KV	132/33 KV Jandaha	326.90	-	-	-	-	326.90
33 KV	132/33 KV Jhanjharpur	90.78	-	-	-	-	90.78
33 KV	132/33 KV Kataya	141.58	-	-	-	-	141.58
33 KV	132/33 KV Kusheshwarsthan	176.21	-	-	-	-	176.21
33 KV	132/33 KV Madhubani	241.23	-	-	-	-	241.23
33 KV	132/33 KV Maharajganj	190.41	-	-	-	-	190.41
33 KV	132/33 KV Mahnar	88.03	-	-	-	-	88.03
33 KV	132/33 KV Motihari	557.17	-	-	-	-	557.17
33 KV	132/33 KV Muzaffarpur	595.76	-	-	-	-	595.76
33 KV	132/33 KV Narkatiaganj	110.57	-	-	-	-	110.57
33 KV	132/33 KV Nirmali	43.49	-	-	-	-	43.49
33 KV	132/33 KV Pakhridayal	51.02	-	-	-	-	51.02
33 KV	132/33 KV Pandaul	274.62	-	-	-	-	274.62
33 KV	132/33 KV Phulparas	113.62	-	-	-	-	113.62

33 KV	132/33 KV Pupri	134.51	-	-	-	-	134.51
33 KV	132/33 KV Raxaul	277.03	-	-	-	-	277.03
33 KV	132/33 KV Rosera	220.83	-	-	-	-	220.83
33 KV	132/33 KV Runisaidpur	185.76	-	-	-	-	185.76
33 KV	132/33 KV SKMCH	568.26	-	-	-	-	568.26
33 KV	132/33 KV Saharsa	294.61	-	-	-	-	294.61
33 KV	132/33 KV Shahpurpatori	148.11	-	-	-	-	148.11
33 KV	132/33 KV Sheetalpur	250.05	-	-	-	-	250.05
33 KV	132/33 KV Sheohar	186.76	-	-	-	-	186.76
33 KV	132/33 KV Simribakhtiyarpur	113.06	-	-	-	-	113.06
33 KV	132/33 KV Sitamarhi	540.09	-	-	-	-	540.09
33 KV	132/33 KV Siwan	593.55	-	-	-	-	593.55
33 KV	132/33 KV Sonebarsa	105.97	-	-	-	-	105.97
33 KV	132/33 KV Triveniganj	86.81	-	-	-	-	86.81
33 KV	132/33 KV Udakishenganj	240.57	-	-	-	-	240.57
33 KV	132/33 KV Vaishali	377.70	-	-	-	-	377.70
33 KV	132/33 Mushrakh	206.04	-	-	-	-	206.04
33 KV	132/33 Ramnagar	430.80	-	-	-	-	430.80
33 KV	132/33 Samastipur	567.27	-	-	-	-	567.27
33 KV	132/33 Siwan-New (Raghunath)	254.12	-	-	-	-	254.12
33 KV	132/33 Siwan-New (Raghunath)	-	-	-	-	-	-
33 KV	132/33 kV Valmikinagar	31.36	-	-	-	-	31.36
33 KV	132/33KV Raghopur	169.37	-	-	-	-	169.37
33 KV	220/132/33 KV Amnour GIS(BC)	320.78	-	-	-	-	320.78
33 KV	220/132/33 KV GORAUL	1.74	-	-	-	-	1.74
33 KV	220/132/33 KV Gopalganj	550.08	-	-	-	-	550.08
33 KV	220/132/33 KV Hazipur	-	-	-	-	-	-
33 KV	220/132/33 KV Laukahi	171.20	-	-	-	-	171.20
33 KV	220/132/33 KV Madhepura	291.83	-	-	-	-	291.83
33 KV	220/132/33 KV Motipur	223.32	-	-	-	-	223.32
33 KV	220/132/33 KV Musahari	400.73	-	-	-	-	400.73
33 KV	220/132/33 KV Samastipur (new)	163.31	-	-	-	-	163.31
33 KV	132/33 KV Araria	310.65	-	-	-	-	310.65
33 KV	132/33 KV Araria	-	-	-	-	-	-
33 KV	132/33 KV Baisi	135.63	-	-	-	-	135.63
33 KV	132/33 KV Banka	-	-	335.83	-	-	335.83
33 KV	132/33 KV Banka(New)	-	-	84.16	-	-	84.16
33 KV	132/33 KV Banmankhi	144.23	-	-	-	-	144.23
33 KV	132/33 KV Barsoi	272.89	-	-	-	-	272.89
33 KV	132/33 KV Bhagalpur(New)	-	-	123.97	-	-	123.97

33 KV	132/33 KV Dhamdaha	128.60	-	-	-	-	128.60
33 KV	132/33 KV Forbisganj	326.76	-	-	-	-	326.76
33 KV	132/33 KV Jamalpur	-	-	393.17	-	-	393.17
33 KV	132/33 KV Jamui	-	-	504.35	-	-	504.35
33 KV	132/33 KV Jamui(New)	-	-	124.62	-	-	124.62
33 KV	132/33 KV Kahalgaon	-	-	327.21	-	-	327.21
33 KV	132/33 KV Katihar	370.33	-	-	-	-	370.33
33 KV	132/33 KV Kishanganj	298.33	-	-	-	-	298.33
33 KV	132/33 KV Lakhisarai	-	-	468.83	-	-	468.83
33 KV	132/33 KV Naugachia	-	-	262.92	-	-	262.92
33 KV	132/33 KV PALASI	2.90	-	-	-	-	2.90
33 KV	132/33 KV Purnea	619.40	-	-	-	-	619.40
33 KV	132/33 KV Sabour	-	-	477.74	-	-	477.74
33 KV	132/33 KV Sultanganj	-	-	326.93	-	-	326.93
33 KV	132/33 KV Tarapur	-	-	145.58	-	-	145.58
33 KV	132/33 Manihari	141.79	-	-	-	-	141.79
33 KV	220/132 KV Jamalpur GIS	-	-	98.20	-	-	98.20
33 KV	220/132 KV Sabour New GIS(BC	-	-	203.76	-	-	203.76
33 KV	220/132/33 KV Kishanganj (nev	146.92	-	-	-	-	146.92
33 KV	220/132/33 KV Kishanganj (nev	-	-	-	-	-	-
33 KV	132/33 KV Bakhri	76.28	-	-	-	-	76.28
33 KV	132/33 KV Khagaria	235.35	-	-	-	-	235.35
33 KV	132/33 KV Majhaul	217.58	-	-	-	-	217.58
33 KV	132/33 KV Teghra	98.47	-	-	-	-	98.47
33 KV	133 KV Balia	216.79	-	-	-	-	216.79
33 KV	220/132/33 KV Begusarai	486.58	-	-	-	-	486.58
33 KV	220/132/33kV Khagaria	153.87	-	-	-	-	153.87
Total for all Voltages		20,381.03	191.02	24,231.96	224.02	1,198.78	46,226.80
PGCIL Tertiary Auxiliary Consumption							3.50
Total							46,230.30

FY 2024-25 (Projection)

Name of Transmission Licensee : BSPTCL & BGCL

Energy Delivered by Transmission licensee to the Distribution

Form No.- P2

Licensees/ Bulk consumers at interface points

Voltage Level	Name of Sub-Station	Distribution Licensee/ Bulk Consumer				Railway LTOA (MUs)	Total Energy Delivered (MUs)
		NBPDC (MUs)		SBPDCL (MUs)			
		North Bihar	Railway	South Bihar	Railway		
220 KV	N/A	N/A	N/A	N/A	N/A	N/A	N/A
132 KV	132/33 KV Ara	-	-	-	-	50.65	50.65
132 KV	132/33 KV Aurangabad	-	-	137.75	-	-	137.75
132 KV	132/33 KV Banjari	-	-	44.34	-	-	44.34
132 KV	132/33 KV Bikramganj	-	-	-	8.19	-	8.19
132 KV	132/33 KV Chandauti(Gaya)	-	-	-	-	67.48	67.48
132 KV	132/33 KV Dumroan	-	-	-	-	51.13	51.13
132 KV	132/33 KV Hathidah	-	-	-	-	57.84	57.84
132 KV	132/33 KV Jehanabad	-	-	-	-	30.99	30.99
132 KV	132/33 KV Karamnasa	-	-	-	-	32.49	32.49
132 KV	132/33 KV Kudra	-	-	-	-	90.23	90.23
132 KV	132/33 KV Nalanda	-	-	-	33.32	-	33.32
132 KV	132/33 KV Rafiganj	-	-	0.30	-	84.23	84.53
132 KV	132/33 KV Rajgir	-	-	3.20	-	-	3.20
132 KV	132/33 KV Shekhpura	-	-	-	4.65	-	4.65
132 KV	132/33 KV Sherghati	-	-	0.26	-	-	0.26
132 KV	132/33 KV Sonenagar	-	-	-	-	156.99	156.99
132 KV	132/33 KV Wajirganj	-	-	-	28.42	-	28.42
132 KV	220/132/33 KV Bodhgaya	-	-	-	34.68	-	34.68
132 KV	220/132/33 KV Dehri	-	-	-	28.68	-	28.68
132 KV	220/132/33 KV Fatuha	-	-	123.98	-	57.19	181.17
132 KV	220/132/33 KV Khagaul	-	-	-	-	67.19	67.19
132 KV	132/33 KV Bettiah	-	15.15	-	-	-	15.15
132 KV	132/33 KV Chapra	-	-	-	-	59.20	59.20
132 KV	132/33 KV Dalsinghsarai	-	-	-	-	60.05	60.05
132 KV	132/33 KV Dhaka	-	18.06	-	-	-	18.06
132 KV	132/33 KV Hazipur	-	-	-	-	57.80	57.80
132 KV	132/33 KV Kataya	29.29	-	-	-	-	29.29
132 KV	132/33 KV Motihari	0.99	8.81	-	-	-	9.79
132 KV	132/33 KV Narkatiaganj	-	5.03	-	-	-	5.03
132 KV	132/33 KV Pandaul	-	28.99	-	-	-	28.99

132 KV	132/33 KV Raxaul	101.53	-	-	-	-	101.53
132 KV	132/33 KV Rosera	1.42	11.83	-	-	-	13.25
132 KV	132/33 KV Runisaidpur	-	14.91	-	-	-	14.91
132 KV	132/33 KV Sheetalpur	-	13.36	-	-	-	13.36
132 KV	132/33 KV Siwan	-	-	-	-	36.46	36.46
132 KV	132/33 KV Vaishali	-	70.66	-	-	-	70.66
132 KV	132/33 Mushrakh	4.40	-	-	-	-	4.40
132 KV	132/33 Ramnagar	9.00	23.32	-	-	-	32.32
132 KV	132/33 Samastipur	-	-	-	-	98.10	98.10
132 KV	132/33 kV Valmikinagar	180.00	-	-	-	-	180.00
132 KV	220/132/33 KV Gopalganj	1.86	-	-	-	-	1.86
132 KV	220/132/33 KV Madhepura	-	-	-	-	29.25	29.25
132 KV	220/132/33 KV Motipur	-	-	-	-	24.64	24.64
132 KV	132/33 KV Banka(New)	-	-	-	12.33	-	12.33
132 KV	132/33 KV Jamalpur	-	-	-	30.53	-	30.53
132 KV	132/33 KV Jamui	-	-	-	-	45.82	45.82
132 KV	132/33 KV Katihar	-	-	-	-	46.89	46.89
132 KV	132/33 KV Lakhisarai	-	-	-	-	75.08	75.08
132 KV	132/33 KV Naugachia	-	-	-	39.45	-	39.45
132 KV	132/33 KV Sabour	-	-	-	26.17	-	26.17
132 KV	132/33 KV Khagaria	-	-	-	-	38.97	38.97
132 KV	BTPS STAGE I	97.53	-	-	-	-	97.53
-	-	-	-	-	-	-	-
33 KV	132/33 KV Ara	-	-	705.49	-	-	705.49
33 KV	132/33 KV Ataula	-	-	375.35	-	-	375.35
33 KV	132/33 KV Aurangabad	-	-	531.77	-	-	531.77
33 KV	132/33 KV Banjari	-	-	142.61	-	-	142.61
33 KV	132/33 KV Barh	-	-	265.85	-	-	265.85
33 KV	132/33 KV Baripahari	-	-	601.88	-	-	601.88
33 KV	132/33 KV Belaganj	-	-	198.68	-	-	198.68
33 KV	132/33 KV Bikramganj	-	-	493.54	-	-	493.54
33 KV	132/33 KV Buxar	-	-	411.95	-	-	411.95
33 KV	132/33 KV Chandauti(Gaya)	-	-	670.68	-	-	670.68
33 KV	132/33 KV Digha	-	-	822.10	-	-	822.10
33 KV	132/33 KV Dumroan	-	-	436.60	-	-	436.60
33 KV	132/33 KV Ekangarsarai	-	-	380.91	-	-	380.91
33 KV	132/33 KV Gaighat	-	-	777.88	-	-	777.88
33 KV	132/33 KV Goh	-	-	224.07	-	-	224.07
33 KV	132/33 KV Harnaut	-	-	357.75	-	-	357.75
33 KV	132/33 KV Hathidah	-	-	152.13	-	-	152.13

33 KV	132/33 KV Hulasganj	-	-	215.72	-	-	215.72
33 KV	132/33 KV Imamganj	-	-	190.70	-	-	190.70
33 KV	132/33 KV Jagdishpur	-	-	373.52	-	-	373.52
33 KV	132/33 KV Jakkanpur	-	-	681.59	-	-	681.59
33 KV	132/33 KV Jehanabad	-	-	393.44	-	-	393.44
33 KV	132/33 KV Karamnasa	-	-	254.70	-	-	254.70
33 KV	132/33 KV Karbighaya	-	-	550.43	-	-	550.43
33 KV	132/33 KV Katra	-	-	865.83	-	-	865.83
33 KV	132/33 KV Kerpa	-	-	144.64	-	-	144.64
33 KV	132/33 KV Kochas	-	-	294.88	-	-	294.88
33 KV	132/33 KV Kudra	-	-	176.47	-	-	176.47
33 KV	132/33 KV Masaudhi	-	-	342.17	-	-	342.17
33 KV	132/33 KV Mithapur	-	-	533.83	-	-	533.83
33 KV	132/33 KV Mohania	-	-	287.43	-	-	287.43
33 KV	132/33 KV Mundeshwari(Bhabu	-	-	179.54	-	-	179.54
33 KV	132/33 KV Nalanda	-	-	207.42	-	-	207.42
33 KV	132/33 KV Nawada	-	-	580.54	-	-	580.54
33 KV	132/33 KV Paliganj	-	-	166.81	-	-	166.81
33 KV	132/33 KV Piro	-	-	101.71	-	-	101.71
33 KV	132/33 KV Rafiganj	-	-	339.01	-	-	339.01
33 KV	132/33 KV Rajgir	-	-	242.27	-	-	242.27
33 KV	132/33 KV Ramgarh	-	-	171.47	-	-	171.47
33 KV	132/33 KV Sasaram	-	-	390.49	-	-	390.49
33 KV	132/33 KV Shekhpura	-	-	333.48	-	-	333.48
33 KV	132/33 KV Sherghati	-	-	286.87	-	-	286.87
33 KV	132/33 KV Sonenagar	-	-	225.00	-	-	225.00
33 KV	132/33 KV Tehta	-	-	149.75	-	-	149.75
33 KV	132/33 KV Tekari	-	-	224.70	-	-	224.70
33 KV	132/33 KV Wajirganj	-	-	321.15	-	-	321.15
33 KV	132/33 KV Warsaliganj	-	-	277.06	-	-	277.06
33 KV	132/33KV Bihta	-	-	460.02	-	-	460.02
33 KV	220/132 KV Bihta(New)	-	-	243.61	-	-	243.61
33 KV	220/132 KV Khisersarai GIS(BG	-	-	164.98	-	-	164.98
33 KV	220/132 KV Nawada GIS (BGCI	-	-	190.09	-	-	190.09
33 KV	220/132 KV Sheikhpura GIS(BG	-	-	116.25	-	-	116.25
33 KV	220/132/33 KV ASTHAWAN	-	-	132.04	-	-	132.04
33 KV	220/132/33 KV Biharsharif(SG)	-	-	7.32	-	-	7.32
33 KV	220/132/33 KV Bodhgaya	-	-	691.33	-	-	691.33
33 KV	220/132/33 KV Dehri	-	-	351.56	-	-	351.56
33 KV	220/132/33 KV Fatuha	-	-	674.78	-	-	674.78

33 KV	220/132/33 KV Khagaul	-	-	939.93	-	-	939.93
33 KV	220/132/33 KV Pusouli	-	-	68.80	-	-	68.80
33 KV	220/132/33 KV Sipara	-	-	393.94	-	-	393.94
33 KV	220/132/33 KV Sonenagar (new	-	-	146.91	-	-	146.91
33 KV	220/132/33 Karamnasa(New)	-	-	-	-	-	-
33 KV	Bhusaula BGCL0	-	-	187.41	-	-	187.41
33 KV	DumraoN New(BGCL)	-	-	168.32	-	-	168.32
33 KV	Mokama BGCL	-	-	65.92	-	-	65.92
33 KV	Naubatpur (400 KV) BGCL	-	-	25.26	-	-	25.26
33 KV	132 KV Supaul	211.16	-	-	-	-	211.16
33 KV	132/33 KV Areraj	203.21	-	-	-	-	203.21
33 KV	132/33 KV Belsand	68.77	-	-	-	-	68.77
33 KV	132/33 KV Benipatti	233.75	-	-	-	-	233.75
33 KV	132/33 KV Benipur	74.72	-	-	-	-	74.72
33 KV	132/33 KV Bettiah	510.17	-	-	-	-	510.17
33 KV	132/33 KV Chakiya	277.40	-	-	-	-	277.40
33 KV	132/33 KV Chapra	370.85	-	-	-	-	370.85
33 KV	132/33 KV Dalsinghsarai	241.81	-	-	-	-	241.81
33 KV	132/33 KV Darbhanga	367.50	-	-	-	-	367.50
33 KV	132/33 KV Dhaka	415.56	-	-	-	-	415.56
33 KV	132/33 KV Dhanha (Thakraha)	37.67	-	-	-	-	37.67
33 KV	132/33 KV Ekma	189.36	-	-	-	-	189.36
33 KV	132/33 KV Gangwara	496.27	-	-	-	-	496.27
33 KV	132/33 KV Hathua	303.72	-	-	-	-	303.72
33 KV	132/33 KV Hazipur	740.99	-	-	-	-	740.99
33 KV	132/33 KV Jainagar	210.79	-	-	-	-	210.79
33 KV	132/33 KV Jandaha	359.58	-	-	-	-	359.58
33 KV	132/33 KV Jhanjharpur	99.85	-	-	-	-	99.85
33 KV	132/33 KV Kataya	155.74	-	-	-	-	155.74
33 KV	132/33 KV Kusheshwarsthan	193.84	-	-	-	-	193.84
33 KV	132/33 KV Madhubani	265.35	-	-	-	-	265.35
33 KV	132/33 KV Maharajganj	209.46	-	-	-	-	209.46
33 KV	132/33 KV Mahnar	96.83	-	-	-	-	96.83
33 KV	132/33 KV Motihari	612.89	-	-	-	-	612.89
33 KV	132/33 KV Muzaffarpur	655.34	-	-	-	-	655.34
33 KV	132/33 KV Narkatiaganj	121.63	-	-	-	-	121.63
33 KV	132/33 KV Nirmali	47.84	-	-	-	-	47.84
33 KV	132/33 KV Pakhridayal	56.13	-	-	-	-	56.13
33 KV	132/33 KV Pandaul	302.08	-	-	-	-	302.08
33 KV	132/33 KV Phulparas	124.98	-	-	-	-	124.98

33 KV	132/33 KV Pupri	147.96	-	-	-	-	147.96
33 KV	132/33 KV Raxaul	304.73	-	-	-	-	304.73
33 KV	132/33 KV Rosera	242.92	-	-	-	-	242.92
33 KV	132/33 KV Runisaidpur	204.34	-	-	-	-	204.34
33 KV	132/33 KV SKMCH	625.09	-	-	-	-	625.09
33 KV	132/33 KV Saharsa	324.08	-	-	-	-	324.08
33 KV	132/33 KV Shahpurpatori	162.92	-	-	-	-	162.92
33 KV	132/33 KV Sheetalpur	275.05	-	-	-	-	275.05
33 KV	132/33 KV Sheohar	205.44	-	-	-	-	205.44
33 KV	132/33 KV Simribakhtiyarpur	124.36	-	-	-	-	124.36
33 KV	132/33 KV Sitamarhi	594.10	-	-	-	-	594.10
33 KV	132/33 KV Siwan	652.91	-	-	-	-	652.91
33 KV	132/33 KV Sonebarsa	116.57	-	-	-	-	116.57
33 KV	132/33 KV Triveniganj	95.49	-	-	-	-	95.49
33 KV	132/33 KV Udakishenganj	264.62	-	-	-	-	264.62
33 KV	132/33 KV Vaishali	415.47	-	-	-	-	415.47
33 KV	132/33 Mushrakh	226.65	-	-	-	-	226.65
33 KV	132/33 Ramnagar	473.88	-	-	-	-	473.88
33 KV	132/33 Samastipur	624.00	-	-	-	-	624.00
33 KV	132/33 Siwan-New (Raghunath)	279.53	-	-	-	-	279.53
33 KV	132/33 Siwan-New (Raghunath)	-	-	-	-	-	-
33 KV	132/33 kV Valmikinagar	34.49	-	-	-	-	34.49
33 KV	132/33KV Raghopur	186.31	-	-	-	-	186.31
33 KV	220/132/33 KV Amnour GIS(BC)	352.86	-	-	-	-	352.86
33 KV	220/132/33 KV GORAUL	1.91	-	-	-	-	1.91
33 KV	220/132/33 KV Gopalganj	605.08	-	-	-	-	605.08
33 KV	220/132/33 KV Hazipur	-	-	-	-	-	-
33 KV	220/132/33 KV Laukahi	188.32	-	-	-	-	188.32
33 KV	220/132/33 KV Madhepura	321.01	-	-	-	-	321.01
33 KV	220/132/33 KV Motipur	245.66	-	-	-	-	245.66
33 KV	220/132/33 KV Musahari	440.80	-	-	-	-	440.80
33 KV	220/132/33 KV Samastipur (new)	179.64	-	-	-	-	179.64
33 KV	132/33 KV Araria	341.71	-	-	-	-	341.71
33 KV	132/33 KV Araria	-	-	-	-	-	-
33 KV	132/33 KV Baisi	149.19	-	-	-	-	149.19
33 KV	132/33 KV Banka	-	-	369.41	-	-	369.41
33 KV	132/33 KV Banka(New)	-	-	92.58	-	-	92.58
33 KV	132/33 KV Banmankhi	158.65	-	-	-	-	158.65
33 KV	132/33 KV Barsoi	300.18	-	-	-	-	300.18
33 KV	132/33 KV Bhagalpur(New)	-	-	136.36	-	-	136.36

33 KV	132/33 KV Dhamdaha	141.46	-	-	-	-	141.46
33 KV	132/33 KV Forbisganj	359.43	-	-	-	-	359.43
33 KV	132/33 KV Jamalpur	-	-	432.48	-	-	432.48
33 KV	132/33 KV Jamui	-	-	554.79	-	-	554.79
33 KV	132/33 KV Jamui(New)	-	-	137.09	-	-	137.09
33 KV	132/33 KV Kahalgaon	-	-	359.93	-	-	359.93
33 KV	132/33 KV Katihar	407.36	-	-	-	-	407.36
33 KV	132/33 KV Kishanganj	328.16	-	-	-	-	328.16
33 KV	132/33 KV Lakhisarai	-	-	515.72	-	-	515.72
33 KV	132/33 KV Naugachia	-	-	289.21	-	-	289.21
33 KV	132/33 KV PALASI	3.19	-	-	-	-	3.19
33 KV	132/33 KV Purnea	681.34	-	-	-	-	681.34
33 KV	132/33 KV Sabour	-	-	525.52	-	-	525.52
33 KV	132/33 KV Sultanganj	-	-	359.62	-	-	359.62
33 KV	132/33 KV Tarapur	-	-	160.13	-	-	160.13
33 KV	132/33 Manihari	155.97	-	-	-	-	155.97
33 KV	220/132 KV Jamalpur GIS	-	-	108.02	-	-	108.02
33 KV	220/132 KV Sabour New GIS(BG	-	-	224.14	-	-	224.14
33 KV	220/132/33 KV Kishanganj (nev	161.61	-	-	-	-	161.61
33 KV	220/132/33 KV Kishanganj (nev	-	-	-	-	-	-
33 KV	132/33 KV Bakhri	83.91	-	-	-	-	83.91
33 KV	132/33 KV Khagaria	258.89	-	-	-	-	258.89
33 KV	132/33 KV Majhaul	239.34	-	-	-	-	239.34
33 KV	132/33 KV Teghra	108.32	-	-	-	-	108.32
33 KV	133 KV Balia	238.47	-	-	-	-	238.47
33 KV	220/132/33 KV Begusarai	535.24	-	-	-	-	535.24
33 KV	220/132/33kV Khagaria	169.26	-	-	-	-	169.26
Total for all Voltages		22,419.13	210.12	26,655.16	246.42	1,318.65	50,849.48
PGCIL Tertiary Auxiliary Consumption							3.85
Total							50,853.33

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED

Details of Electrical Accidents

Form No.: P3

Type of Accident	FY 2022-23		FY 2023-24	
	No. of Accidents		No. of Accidents	
	FATAL	NON FATAL	FATAL	NON FATAL
Human	1	Nil	1	Nil
Other, if any (please Specify)	Nil	Nil	Nil	Nil
Total	1	Nil	1	Nil

Signature of Petitioner

Sl. No.	Detail	FY 2022-23				FY 2023-24				FY 2024-25			
		total No. of feeders	No. of tripping	Total Duration of Trippings (hrs.)	Average duration of interruption per feeder	total No. of feeders	No. of tripping	Total Duration of Trippings (hrs.)	Average duration of interruption per feeder	total No. of feeders	No. of tripping	Total Duration of Trippings (hrs.)	Average duration of interruption per feeder
1	Feeder Voltage Level (400 KV)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2	Feeder Voltage Level (220 KV)	93	270	771.85	8.30	101	165	803.47	7.96	101.00	165.00	803.47	7.96
3	Feeder Voltage Level (132 KV)	382	1035	2159.22	5.65	388	712	1382.63	3.56	388.00	712.00	1,382.63	3.56

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED

Major System Disturbances

Forn No. P5 revised

Sl. No.	Disturbances	FY 2022-23		FY 2023-24		FY 2024-25	
		Number	Total Duration (Hrs.)	Number	Total Duration (Hrs.)	Number	Total Duration (Hrs.)
A	Disturbances when DISCOM supply has been effected for more than 1 hr.						
i	Due to 220 KV transformer failure	0	0:00	0	0:00		
ii	Due to 220 KV transmission line failure	2	3.2	0	0:00		
Sl. No.	Disturbances						
iii	Due to 132 KV transformer failure	0	0:00	0	0:00		
iv	Due to 132 KV transmission line failure	6	18.37	8	38.5		
v	Due to 132 KV sub - station equipment (CT, CVT etc.) failure	1	6.67	0	0:00		
B	Estimated unserved energy due to such interruptions						
		9	72 MWH	8	41 MWH		
C	Other Transmission disturbances when DISCOM supply has got effected						
		0	0:00	0	0:00		

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED

Frequency variation

Form No. : P6

Sl. No.	Frequency	FY 2022-23 Actual		FY 2023-24 (till Sep 2023)		FY 2024-25 Projection	
		No. of Hours	As percentage of total hours in the year (%)	No. of Hours	As percentage of total hours in the year (%)	No. of Hours	As percentage of total hours in the year (%)
1	Above 50.5 Hz	0.00	0.00	0.00	0.00		
2	50.5-50.2 Hz	81.08	0.93	0.77	0.42		
3	50.2-49.8 Hz	8477.10	96.77	180.19	98.46		
4	49.8 - 49.5 Hz	200.39	2.29	2.04	1.11		
5	49.5-49.0 Hz	1.07	0.01	0.00	0.00		
6	49.0-48.5 Hz	0.00	0.00	0.00	0.00		
7	Below 48.5 Hz	0.36	0.00	0.00	0.00		

Signature of Petitioner

S.No	Name of GSS	Transformation capacity	Reactive Compensation provided	FY 2022-23						FY 2023-24					
				Time during which voltage in an year						Time during which voltage in an year(till Sep 2023)					
				More than upper		Between upper &		Less than lower		More than upper		Between upper &		Less than lower	
				Hrs	%age	Hrs	%age	Hrs	%age	Hrs	%age	Hrs	%age	Hrs	%age
1	220 kV BUS-I		NA	68.85	0.79	8691.15	99.21	0.00	0.00	47.60	1.08	4344.40	98.92	0.00	0.00
2	220 kV BUS-II			68.85	0.79	8691.15	99.21	0.00	0.00	47.60	1.08	4344.40	98.92	0.00	0.00
3	132 kV		NA	0.00	0.00	8691.67	99.22	67.45	0.77	62.39	1.42	4328.69	98.56	0.92	0.02

Note : Upper/Lower voltage limit: +/- 5% of Rated voltage
Data obtained from SCADA(ULDC)

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED

Licensee wise Load shedding carried out during the year

Form No: P8

FY 2021-22			
S.No.	Particulars	NBPDCL	SBPDCL
	Load shedding during the Year (In Hrs.)		
1	On SLDC's instructions		
a	To control excess drawal	29 hrs	31 hrs
b	To control equipment damage	0	4 hrs
c	Under force majeure conditions	37 hrs	0
2	Due to maintenance or outage of own network	11 hrs	6 hrs
3	Any other reason	78 hrs	89 hrs
	Total load shedding for the Year		

FY 2022-23			
S. No.	Particulars	NBPDCL	SBPDCL
	Load shedding during the Year (In Hrs.)		
1	On SLDC's instructions		
a	To control excess drawal	19340.8	19906.38
b	To control equipment damage	13.05	7.25
c	Under force majeure conditions	22.13	18.66
2	Due to maintenance or outage of own network	1557.55	1391.167
3	Any other reason	2269.53	2328.967
	Total load shedding for the Year		

FY 2023-24		(Upto September 2023)	
S.No.	Particulars	NBPDCL	SBPDCL
	Load shedding during the Year (In Hrs.)		
1	On SLDC's instructions		
a	To control excess drawal	13693.33	13625.37
b	To control equipment damage	10.98	39.63
c	Under force majeure conditions	0.00	0.00
2	Due to maintenance or outage of own network	269.17	1.67
3	Any other reason	145.30	84.15
	Total load shedding for the Year		

FY 2024-25			
S. No.	Particulars	NBPDCL	SBPDCL
	Load shedding during the Year (In Hrs.)		
1	On SLDC's instructions		
a	To control excess drawal		
b	To control equipment damage		
c	Under force majeure conditions		
2	Due to maintenance or outage of own network		
3	Any other reason		
	Total load shedding for the Year		

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED

Details of Overloaded feeders

Form No. : P9

S. No	Voltage level	No. of feeders	Feeder length (ckt. Km)	No. of feeders overloaded	Line length Overloaded feeders (ckt. Km)	% number of overloaded feeders in Area	%length of overloades of feeders in Area
FY 2022-23							
1	220 KV						
i)	BSPTCL	93	4563	16	750.51	17%	16%
2	132 KV						
i)	BSPTCL	382	12003	48	1891.734	13%	16%
FY 2023-24							
1	220 KV						
i)	BSPTCL	101	5103	9	252	9%	5%
2	132 KV						
i)	BSPTCL	388	12209	25	946	6%	8%

Signature of Petitioner

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED

Details of overloaded Transformers

Form No. :P10

Sr No	GSS	Transformer capacity (MVA)	Rated Transformer capacity (in MW)	peak load (in MW)	% loading of transformer
List of 220/132/33 kv transformers					
1	Darbhanga 220/132/33kV	1x160+1x200	288	310.0504	107.66%
2	Fatuha 220/132/33kV	5x100	400	322.636	80.66%
3	Biharsharif 220/132/33kV	3x150	360	360.9064	100.25%
4	Hajipur 220/132kV	2x100+1x200	240	215.3516	89.73%
5	Pusauli 220/132/33kV	1x150+1x160	248	196.9536	79.42%
6	Gaurichak 220/132/33kV	3x200	480	335.2876	69.85%
7	Motipur 220/132/33kV	2x160	288	202.0488	70.16%
8	Gopalganj 220/132/33kV	2x100+1x200	240	204.3788	85.16%
9	Dehri On Sone 220/132/33kV	3x100+1x160	368	272.95616	74.17%
List of Overloaded 132/33 kv transformers					
1	Rosera	2X20	32	37	115.63%
2	Areraj	2X20	32	35	109.38%
3	Ekangarsarai	4X20	64	70	109.38%
4	Kusheswarsthan	2X20	32	35	109.38%
5	Wazirganj	3X20	48	52	108.33%
6	Dhaka	1X50+2X20	72	72	100.00%
7	Valmikinagar Hydrel	1x10	8	8	100.00%
8	Hajipur 132kv	3X50	120	117	97.50%
9	Dumraon	2X50	80	77	96.25%
10	Bodhgaya	3X50	120	113	94.17%
11	Goh	3X20	48	45	93.75%
12	Purnea	3X50	120	112	93.33%
13	Kochas	1X50+1X20	56	51	91.07%
14	Simri bakhtiyarpur	2X20	32	29	90.63%
15	Tarapur	2X20	32	29	90.63%
16	Tehta	2X20	32	29	90.63%
17	Ataula	2X50	80	72	90.00%
18	Jamui	1X20+2X50	96	86	89.58%
19	Shahpurpatori	2X20	32	28	87.50%
20	Siwan	3X50	120	105	87.50%
21	Ramnagar	1X20+2X50	96	83	86.46%

22	Banka(old)	2X20+1X50	72	62	86.11%
23	Chakiya	1X20+1x50	56	48	85.71%
24	Chandauti	3X50	120	102	85.00%
25	Pandaul	2X50	80	68	85.00%
26	Sitamarhi	3X50	120	102	85.00%
27	Madhepura	2X20+1X50	72	61	84.72%
28	Bikramganj	1X20+2X50	96	81	84.38%
29	Lakhisarai	1X20+2X50	96	81	84.38%
30	Manihari	2X20	32	27	84.38%
31	Muzaffarpur	3X50	120	101	84.17%
32	SKMCH	3X50	120	101	84.17%
33	Araria	2X50	80	67	83.75%
34	Bettiah	1X20+2X50	96	80	83.33%
35	Gopalganj	3X50	120	100	83.33%
36	Kudra	3X20	48	40	83.33%
37	Sasaram	1X50+2X20	72	60	83.33%
38	Fatuha	3X50	120	99	82.50%
39	Motihari	3X50	120	98	81.67%
40	Jainagar	3X20	48	39	81.25%

Failure of Transformers

S. No.	FY 2022-23(Actual)					FY 2023-24 (Upto Sept. 2023)				
	Transformation ratio	Total No. of Transformers	No. of failures	Total Duration of failure (hrs.)	Remarks	Transformation ratio	Total No. of Transformers	No. of failures	Total Duration of failure (hrs.)	Remarks
1	220/132/33KV Transformers	N/A	N/A	N/A		220/132/33KV Transformers	N/A	N/A	N/A	
	Total	N/A	N/A	N/A		Total	N/A	N/A	N/A	
	220/132 KV Transformers					220/132 KV Transformers				
	Total					Total				
	132/33 KV Transformers					132/33 KV Transformers				
	Total	-	-	-		Total	-	-	-	

Signature of Petitioner

Name of Transmission Licensee

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED

Key Ratios

Form No: P12

S. No	Particulars	Previous Year	Current Year	Ensuing Years
		FY 2022-23	FY 2023-24	FY 2024-25
A	Financial & Material Management			
1	Annual capital expenditure/net book value	19%	14%	4%
2	Total Transmission cost/Energy Transmitted	3,44,408.59	3,99,932.13	4,34,843.01
3	Employee cost as a percentage of total cost	0.17	0.15	0.14
4	Operating expenses / Revenue from Transmission of power	0.29	0.33	0.23
5	Cost of capital invested	8.99%	8.99%	8.45%
6	Debt Service Coverage Ratio	1.29	0.51	1.69
7	Cost of total Stores Inventory/100 Km of transmission lines	-	-	-
9	Working Capital to Revenue from Transmission of power	1.59%	2.16%	1.61%
B	HR Management			
1	Energy Transmitted (MU) per Employee	0.0000174	0.0000184	0.0000197
2	Total line length/employee (cKm.)	7.47	7.83	7.97
3	Connected Load per Employee (MVA)	11.04	11.62	11.83
4	Transmission Income per Employee (Rs. Cr)	0.55	0.53	0.86
5	Training participation days per employee	-	-	-
C	Operational Performance			
1	Unplanned outage/total outage (Fault breakdown / total outage)			
2	Annual replacement rate of Transmission transformers (%): (Transmission Transformers replaced / Transformers in service)			

Signature of Petitioner



ANNUAL ACCOUNT

2022-23



**BIHAR STATE POWER
TRANSMISSION COMPANY
LIMITED**

Bihar State Power Transmission Company Limited



CIN: U74110BR2012SGC018889

BALANCE SHEET

As at

31st March 2023

&

PROFIT & LOSS ACCOUNT

For the year ended

31st March 2023

विकसित बिहार – रौशन बिहार

**Reference Information**

Corporate Office: 4th Floor, Vidyut Bhawan, Jawahar Lal Nehru Marg, Patna-800001	Chairman: Sri Sanjeev Hans, IAS
Website: www.bsptcl.in	Managing Director: Sri Aditya Prakash, IAS
Contact No. 0612-250442	
For the financial year under review i.e 2022-23	
Statutory Auditor: M/s R.N. Singh & Co. Chartered Accountants Firm Reg. No. 322066E Address: 208, Hem Plaza, Fraser Road, Patna- 800001	Cost Auditor: M/s S. Sonthaliya & Co., Cost Accountants 2 nd Floor, L.O. House, Exhibition Road, Patna- 800001
Tax Auditor: M/s Aggrawal Bansal & Shukla, Chartered Accountants H.N. 43, 2 nd Floor Sector- 3 A, Rachna Vaishali, Ghaziabad -201010	Banker: Canara Bank Bank of India State Bank of India Punjab National Bank Indian Bank Bank of Maharashtra Bandhan Bank ICICI Bank Yes Bank Axis Bank IndusInd Bank
Board of Directors: Sri Sanjeev Hans, Chairman Sri Aditya Prakash, Managing Director Sri Mahendra Kumar, Director Smt. Abhilasha Kumari Sharma, Director Sri Sunil Agrawal, Director Sri Abdes K Kumar Singh, Director	Chief Financial Officer: Sri Aftab Alam



About Bihar State Power Transmission Company Limited:

Bihar State Power Transmission Company Limited, a subsidiary company of Bihar State Power (Holding) Company Limited, is a wholly owned corporate entity incorporated under the Companies Act 1956 on 1st Nov, 2012 after restructuring of erstwhile Bihar State Electricity Board.

Presently the company is carrying on intra-state transmission and wheeling of electricity under license issued by the Bihar Electricity Regulatory Commission. The company is also discharging the functions of State Load Dispatch Centre (SLDC).

Bihar State Power Transmission Company Limited is intensifying its network capabilities through continuous planning, timely execution, rigorous operation and maintenance of Intra-State Transmission System in coordination with the Central Transmission Utility (CTU) and various other bodies.

By the end of 13th Plan i.e. 2022-23, BSPTCL is likely to have 165 Grid Sub-stations with transformation capacity of 3000 MVA, 14510 MVA and 15290 MVA at 400/220 kV, 220/132 kV and 132/33 kV levels, respectively. Bihar Grid Company Limited (BGCL), a joint venture between Bihar State Power Holding Company Ltd (BSPHCL) and Power Grid Corporation of India Limited (PGCIL) is also contributing in achieving the goal.

Capacity augmentation at 400/220 kV is the thrust area. The majority of existing 400 kV systems are owned by Power Grid Corporation of India Limited (PGCIL). BSPTCL is constructing 400/220/132 kV Grid Sub-station at Bakhtiyarpur for the first time. Apart from this, BGCL is also constructing two more 400/220/132/33 kV Grid Sub-stations at Jakkanpur and Naubatpur with associated high capacity transmission lines resulting in total transformation capacity of 15390 MVA at 400 kV level in Bihar with CTU by the end of 13th Plan i.e. 2022-23.

GIS (Geographical Information System) mapping of all its operational as well as under construction Grid Sub-stations has been done and information is available on company's website.

Unified Load Dispatch & Communication (ULDC) has upgraded the SCADA system installed in SLDC. Optical fiber link has been established throughout the transmission network for ensuring faster communication of real time data flow.

BSPTCL is in process to adopt the e-Office which is a Mission Mode Project (MMP) under the National e-Governance programme of the Government. The product is developed by National Informatics Centre (NIC) and aims to usher in more efficient, effective and transparent inter-government and intra-government transactions and processes.

Enterprise resource planning (ERP) is under implementation. This will integrate varied organizational systems and facilitates error-free transactions and production thereby enhancing the organization's efficiency in its intra state power transmission business.





In order to increase the evacuation capacity, BSPTCL is implementing large number of sub-station and transmission line projects. BSPTCL is also working towards installation of Gas Insulated Sub-Station, Sub-Station Automation System and High Capacity Conductors in transmission lines.

BSPTCL has also undertaken various projects of augmentation, renovation and modernization of existing Grids and Transmission Lines. To ensure stable and uninterrupted power supply to the people of state, company has taken up projects for connecting its GSS to multiple sources of power and making them N-I compliant.

All the GSSs and Transmission Lines are on GIS map. The State Load Dispatch Centre has the latest technology of real time data control and communication.

Besides continual technical up-gradation, the company lays emphasis on imbining required skills in its people and therefore it has invested in creating training infrastructure. It has recently established a "Power Training Centre" at Gaurichak, Patna, where employees and students are trained on various power system protection and equipment testing techniques.

"BSPTCL: The Life Line of Bihar" is committed to the goal of Quality Power to all.

Vision and Mission:

To establish ourselves as a model STU and transmission licensee with respect to planning, project implementation, operational capabilities, performance with emphasis on cost and quality consciousness, human resources development and corporate social responsibility.

Functions and Duties:

Functions of BSPTCL

To undertake transmission of electricity through intra-State transmission system;

To discharge all functions of planning and co-ordination relating to intra-state transmission system with -

- Central Transmission Utility;
- State Governments;
- generating companies;
- Regional Power Committees;
- Authority;
- licensees;
- Any other person notified by the State Government in this behalf;

To ensure development of an efficient, co-ordinated and economical system of intra-State transmission lines for smooth flow of electricity from a generating station to the load centres;

Duties of BSPTCL





To build, maintain and operate an efficient, co-ordinated and economical inter-State transmission system or intra-State transmission and to comply with the directions of the Regional Load Despatch Centre and the State Load Despatch Centre.

Technical Information:

Average Transmission System Availability Factor (TAFM) in BSPTCL

Year	Percentage Transmission System Availability Factor	
	220 KV Transmission System	132 KV Transmission System
2022-23	99.31	99.53

Organisational Detail

S. No.	Description	Name	Numbers
1.	Zones	Patna, Bhagalpur and Muzaffarpur	3
2.	Circles (O&M + Civil)	O&M: Patna (East), Patna (West), Dehri-on- Sone, Biharsharif, Gaya, Bhojpur, Bhagalpur, Begusarai, Purnea, Muzaffarpur, Saran, Madhepura, Vaishali, Darbhanga, Motihari Civil: Patna, Dehri-on-Sone, Gaya, Bhagalpur, Purnea, Muzaffarpur, Saran, Madhepura, Darbhanga	24
3.	Non-O&M unit	Head Office BSPTCL and SLDC	1



Bihar State Power Transmission Company Limited

Balance Sheet as at 31st March, 2023

(₹ in Lakh)

Sr. No.	Particulars	Note No.	As at 31st March, 2023	As at 31st March, 2022
A	ASSETS			
1	Non-current assets			
	(a) Property, Plant and Equipment	2	872,283	791,955
	(b) Capital work-in-progress		335,735	298,164
	(c) Financial Assets			
	(i) Loans	3	14	31
	(d) Other non current assets	4	19,891	13,558
	Total Non-Current Assets		1,227,924	1,103,708
2	Current assets			
	(a) Inventories	5	15,245	9,359
	(b) Financial Assets			
	(i) Trade receivables	6	356,181	300,634
	(ii) Cash and cash equivalents	7	162,409	109,758
	(iii) Bank Balances other than (ii) above	8	56,214	34,684
	(iv) Others	9	15,705	6,985
	(c) Current Tax Assets	10	2,307	2,734
	(d) Other Current Assets	11	5,792	5,481
	Total Current Assets		613,853	469,635
	Total Assets		1,841,777	1,573,343
B	EQUITY AND LIABILITIES			
1	Equity			
	(i) Equity Share capital	12	829,566	758,923
	(ii) Other Equity	13	294,084	187,301
	Total Equity		1,123,651	946,224
2	Deferred Government Grant and Consumer	14	156,251	156,707
3	Liabilities			
3.1	Non-current liabilities			
	(a) Financial Liabilities			
	(i) Borrowings	15	366,413	301,413
	(b) Provisions	16	8,235	10,574
	(c) Deferred Tax Liabilities	17	75,374	69,447
	(d) Other Non Current Liabilities	18	1,366	-
	Total Non-current liabilities		451,389	381,434
3.2	Current liabilities			
	(a) Financial Liabilities			
	(i) Others	19	93,384	71,635
	(b) Provisions	20	2,174	2,183
	(c) Other Current Liabilities	21	14,929	15,158
	Total Current Liabilities		110,487	88,977
	Total Liabilities		561,875	470,410
	Total Equity & Liabilities		1,841,777	1,573,343

The accompanying notes are an integral part of the Standalone Financial Statements.

As per our report of even date attached

For, R. N. Singh & Co.
Chartered Accountants
Firm Reg. No. 322066E

CA Chanakya Sthree
Membership No. 079322
Partner

Place
Date:

For and on behalf of the board


Aftab Alam
Chief Financial Officer

Kiran Kiran
Company Secretary


Aditya Prakash
Managing Director DIN-09693850

Sanjeev Hans
Chairman DIN-05342058

Bihar State Power Transmission Company Limited
Statement of Profit and Loss for the year ended 31st March, 2023

(₹ in Lakh)

Sr. No.	Particulars	Note No	For the year ended 31st March, 2023	For the year ended 31st March, 2022
I	Income			
a)	Revenue from operations	22	126,529	115,831
b)	Other Income	23	13,322	11,292
	Total Income		139,851	127,123
II	Expenses			
a)	Power Purchase cost		-	-
b)	Employee Benefit Expenses	24	24,904	28,011
c)	Finance Cost	25	15,223	10,207
d)	Depreciation and amortisation expense	26	51,092	46,219
e)	Other Expenses	27	14,029	11,251
	Total Expenses		105,248	95,688
III	Profit (+)/ Loss (-) before tax (I - II)		34,603	31,435
IV	Tax Expense			
a)	Current tax (Income Tax)		6,046	5,492
b)	Deferred tax		11,974	22,482
c)	MAT Credit Entitlement		(6,046)	(5,492)
V	Profit (+)/ Loss (-) for the year (III - IV)		22,629	8,953
VI	Other Comprehensive Income		-	-
VII	Total Comprehensive Income for the period		22,629	8,953
VIII	Earnings per equity share:			
a)	Basic		0.27	0.11
b)	Diluted		0.27	0.11

As per our report of even date attached


For, R.N. Singh & Co.
Chartered Accountants
Firm Reg. No. 322066E

For and on behalf of the board


Afah Alam
Chief Financial Officer


Krishna Kiran
Company Secretary


Aditya Prakash
Managing Director DIN-09693850


Sanjeev Hans
Chairman DIN -05342058

CA Chanakya Shroo
Membership No. 079322
Partner

Place:
Date:

Bihar State Power Transmission Company Limited
Statement of Cash Flow as at 31st March, 2023

(₹ in Lakh)

Sr. No.	Particulars	As at 31st March, 2023	As at 31st March, 2022
(A)	Cash and Cash Equivalent from Operating Activities:		
	Net Profit before tax as per Profit & Loss Account	34,603	31,435
	Adjusted for:		
	Depreciation	51,092	46,219
	Interest Expenses	15,223	10,207
	Interest Income	(4,907)	(3,518)
	Deferred Income	(8,124)	(7,600)
	Prior Period Errors	(420)	2,038
	Tax Expenses	(18,019)	(27,974)
	Deferred Tax	5,928	18,989
	Appropriation for Reserve	1,340	-
	Operating Profit before Working Capital Changes	76,713	67,796
	Change in Working Capital	(48,527)	(79,951)
	Net Cash used in Operating Activities (A)	28,186	(11,255)
(B)	Cash and Cash Equivalent from Investing Activities:		
	Investment in PPE	(131,831)	(70,831)
	Sale Proceeds of PPE	80	1,980
	Change in CWIP	(37,571)	(17,283)
	Disbursement / Realisation of Staff Loan	17	28
	Advances for Capital Supplies	(6,334)	(5,714)
	Interest Income	4,907	3,518
	MAT Credit Entitlement	6,046	5,492
	Net Cash from Investing Activities (B)	(164,686)	(82,808)
(C)	Cash and Cash Equivalent from Financing Activities:		
	Fund Received from Consumers	9,035	574
	Issue of Share	154,208	21,884
	Raise / Adjustment of Loan	65,000	80,000
	Settlement of Terminal Benefit Liabilities	(2,339)	1,102
	Finance Cost	(15,223)	(10,207)
	Net Cash from Financing Activities (C)	210,681	93,352
	Net Increase/(Decrease) in cash and cash equivalents (A+B+C)	74,181	(712)
	Cash and cash equivalents at the beginning of the year	144,442	145,154
	Cash and cash equivalents at the end of the year	218,623	144,442

As per our report of even date attached

For, R. N. Singh & Co.
Chartered Accountants
Firm Reg. No. 322066E

CA Chanakya Shree
Membership No. 079322
Partner

Place:
Date:

For and on behalf of the board


Aftab Alam
Chief Financial Officer


Rishi Kiran
Company Secretary


Aditya Prakash
Managing Director DIN-09693850


Sanjeev Hans
Chairman DIN -05342058

Bihar State Power Transmission Company Limited
Schedule Change in Working Capital
For the period ended March 31, 2023

(₹ in Lakh)

Particulars	Year		Change Increase/ (Decrease)
	2023	2022	
CURRENT ASSETS			
Inventories	15,245	9,359	5,886
Trade Receivables	356,181	300,634	55,547
Other Financial Assets	15,705	6,985	8,720
Current Tax Assets	2,307	2,734	(427)
Other Current Assets	5,792	5,481	311
Total	395,230	325,193	70,037
CURRENT LIABILITIES			
Other Financial Liabilities	93,384	71,635	(21,749)
Provisions	2,174	2,183	10
Other Current Liabilities	14,929	15,156	229
Total	110,487	88,977	(21,510)
Change In Working Capital			48,527



Bihar State Power Transmission Company Limited
Statement of Changes in Equity for the period ended March 31, 2023

A. Equity Share Capital

(₹ in Lakh)

Particulars	No of Shares	Amount
Balance as at March 31, 2022	7,509,232,078	758,923
Changes in equity share capital during the year	706,429,281	70.643
Balance as at March 31, 2023	8,295,662,159	829,566

B. Other Equity

(₹ in Lakh)

Particular	Other Equity			Other Items of OCI	Total
	Self Insurance Reserve	Share Application Pending Allotment	Surplus in Statement of Profit & Loss		
Balance as per previous IGAAP March 31, 2022	9,589	70,643	107,069	-	187,301
(i) Prior period adjustments	-	-	(751)	-	(751)
(ii) Adjustment for Revaluation	-	-	1,340	-	1,340
(iii) Addition / Profit for the year other than item (i) to (ii)	5,612	154,208	22,529	-	182,450
Addition during the year 2022-23	5,612	154,208	23,218	-	183,039
(iv) Other Comprehensive Income	-	-	-	-	-
Total Comprehensive Income	5,612	154,208	23,218	-	183,039
Transfer during the F.Y. 2022-23	-	(70,643)	(5,612)	-	(76,255)
Balance at the end of the reporting period March 31, 2023	15,201	154,208	124,675	-	294,084

As per our report of even date attached

For, R.N. Singh & Co.
Chartered Accountants
Firm Reg. No. 322066E

CA Chanakya Shree
Membership No. 079322
Partner

Place:
Date:


Aftab Alam
Chief Financial Officer


Kirti Kiran
Company Secretary

For and on behalf of the board


Aditya Prakash
Managing Director DIN-09693850


Sanjeev Haas
Chairman DIN -05342058



Bihar State Power Transmission Company Limited

Notes to the Financial Statements for the year ended March 31, 2023

1. Company Information and Significant Accounting Policies

A. Company Information

Bihar State Power Transmission Company Limited is a company registered under the Companies Act 1956, applicable in India in July, 2012, to which the State Govt. through the Department of Energy has vested transmission undertakings existing within the territory of Bihar of the erstwhile Bihar State Electricity Board in accordance with the Bihar State Electricity Reforms Transfer Scheme, 2012 vide notification no. 17 dated 30.10.2012. The address of the Company's registered office is Vidyut Bhawan, Bailey Road, Patna - 800021. The Company is primarily involved in the Transmission of power.

The Company is subsidiary of Bihar State Power (Holding) Company Limited which holds 100% shares in the company.

B. Basis of preparation and presentation

i. Statement of Compliance

These financial statements have been prepared in accordance with the Indian Accounting Standards (hereinafter referred to as the 'Ind AS') as notified by Ministry of Corporate Affairs pursuant to Section 133 of the Companies Act, 2013 ('Act') read with of the Companies (Indian Accounting Standards) Rules, 2015 as amended and other relevant provisions of the Act.

The accounting policies are applied consistently to all the periods presented in the financial statements.

ii. Basis of Measurement

These financial statements are prepared on the accounting principles of going concern on accrual basis of accounting, under historical cost convention except for certain financial instruments which are measured at fair value.

iii. Functional and presentation currency

These financial statements are presented in Indian Rupees (₹), which is the Company's functional currency. All financial information presented in (₹) has been rounded to nearest lakhs except as stated otherwise.

iv. Current and non-current classification

The Company presents assets and liabilities in the balance sheet based on current/non-current classification.

a) An asset is current when it is:

- Expected to be realized or intended to be sold or consumed in normal operating cycle;
- Held primarily for the purpose of trading;
- Expected to be realized within twelve months after the reporting period; or
- Cash or cash equivalent unless restricted from being exchanged or used to settle a liability for at least twelve months after the reporting period.

All other assets are classified as non-current.



b) A liability is current when:

- It is expected to be settled in normal operating cycle;
- It is held primarily for the purpose of trading;
- It is due to be settled within twelve months after the reporting period; or
- There is no unconditional right to defer settlement of the liability for at least twelve months after the reporting period.

All other liabilities are classified as non-current.

v. Use of estimates and judgment

The preparation of financial statements is in conformity with Ind AS which requires the management to make judgments, estimates and assumptions that affect the reported amounts of revenues, expenses, assets and liabilities and the accompanying disclosure/s, at the end of the reporting period. The estimates are based on the management's best knowledge of current events and actions, uncertainty about these assumptions and estimates could result in the outcomes requiring a material adjustment to the carrying amounts of assets or liabilities in future periods.

Estimates and underlying assumptions are reviewed on an ongoing basis. Revisions to accounting estimates are recognized in the period in which the estimates are revised and in any future periods affected.

C. Significant accounting policies

A summary of the significant accounting policies applied in the preparation of the financial statements are as given below. These accounting policies have been applied consistently to all periods presented in the financial statements.

1. Property, plant and equipment

1.1 Initial recognition and measurement

The company has adopted cost model of recognition under Ind AS 16 to measure the Property, Plant and Equipment. Consequently all the items of property, plant and equipment are carried at cost less accumulated depreciation and accumulated impairment losses if any. Cost includes expenditure that is directly attributable to bringing the asset to the location and condition necessary for it to be capable of operating in the manner intended by management.

Spare parts procured along with the Plant & Machinery or subsequently which meets the recognition criteria of Property, Plant and Equipment are capitalized and added in the carrying amount of such item. The carrying amount of spare parts that are replaced is derecognized when no future economic benefits are expected from their use or upon disposal. Other machinery spares are treated as "stores & spares" forming part of the inventory.

Stand-by equipment and servicing equipment are recognized in accordance with Ind AS 16 when they meet the definition of Property, Plant and Equipment. Otherwise, such items are classified as inventory.

In the case of commissioned assets, deposit works or cost plus contracts, where final settlement of bills with contractors is yet to be effected, capitalization is done on provisional basis subject to necessary adjustment in the year of final settlement.



The cost of land includes provisional deposits, payments/ liabilities towards compensation, rehabilitation and other expenses wherever possession of land is taken. Expenditure on leveling, clearing and grading of land is capitalized as part of cost of the related buildings.

1.2 Subsequent costs

Subsequent expenditure is recognized as an increase in the carrying amount of the asset when it is probable that future economic benefits deriving from the cost incurred will flow to the enterprise and the cost of the item can be measured reliably.

The cost of replacing part of an item of property, plant and equipment is recognized in the carrying amount of the item if it is probable that the future economic benefits embodied within the part will flow to the Company and its cost can be measured reliably. The costs of the day-to-day servicing of property, plant and equipment are recognized in profit or loss as incurred.

1.3 Derecognition

Property, plant and equipment are derecognized when no future economic benefits are expected from their use or upon their disposal. Gains and losses on disposal of an item of property, plant and equipment are determined by comparing the proceeds from disposal with the carrying amount of property, plant and equipment, and are recognized in the statement of profit and loss.

1.4 Depreciation/amortization

With effect from 1 April 2014, Schedule II of the Companies Act, 2013 has been notified and in accordance with part B of schedule II, the rate or useful life given in CERC regulation are applied for computing depreciation on assets, however in case of assets where no useful life is prescribed in CERC regulations, the useful life and residual value as given in part C of Schedule II of the companies Act ,2013 is followed.

Depreciation is recognized in statement of profit and loss on a straight-line basis over the estimated useful lives of each part of an item of property, plant and equipment.

Depreciation on the assets of the transmission of electricity business is charged on straight line method following the rates and methodology notified by the CERC up to 90% of the original cost of assets after taking 10% as residual value referred below:

Asset Group	Rate
Buildings	3.34%
Hydraulic Works	5.28%
Others Civil Works	3.34%
Plant and Machinery	5.28%
Lines and Cable Network	5.28%
Vehicles	6.33%
Furniture and Fixtures	6.33%
Office Equipment	6.33%
Computer & Other Accessories	15.00%



Depreciation on additions to/deductions from property, plant & equipment during the year is charged on pro-rata basis from/up to the month in which the asset is available for use/disposed.

1.5 Capital work-in-progress

The cost of self-constructed assets includes the cost of materials & direct labour, any other costs directly attributable to bringing the assets to the location and condition necessary for it to be capable of operating in the manner intended by management and borrowing costs.

Expenses directly attributable to construction of property, plant and equipment incurred till they are ready for their intended use are identified and allocated on a systematic basis on the cost of related assets.

Capital works-in-progress includes the cost incurred on fixed assets that are not yet ready for the intended use and is capitalized up to the date these assets are ready to use. All expenditures incurred on project under construction are allocated on pro-rata basis to the additions made to respective project.

Claims for price variation are accounted for on their acceptance.

1.6 Capital Stores

Materials purchased for capital projects are classified as Capital stores and these are valued at cost.

2. Intangible assets and intangible assets under development

2.1 Initial recognition and measurement

Intangible assets are carried at cost less accumulated amortization and accumulated impairment losses, if any. Cost includes any directly attributable incidental expenses necessary to make the assets ready for its intended use.

In case of internally generated intangible asset, expenditure on research are recognised as an expense when it is incurred.

Expenditure incurred which are eligible for capitalizations under intangible assets are carried as intangible assets under development till they are ready for their intended use.

2.2 De-recognition

An intangible asset is derecognized when no future economic benefits are expected from their use or upon their disposal. Gains and losses on disposal of an item of intangible assets are determined by comparing the proceeds from disposal with the carrying amount of intangible assets and are recognized in the statement of profit and loss.

2.3 Amortization

Cost of software having finite life recognized as intangible asset, is amortized on straight line method using rates maintained in CERC. Other intangible assets having finite life, where no useful life is prescribed in CERC regulations are amortized on straight line method over the asset's future economic benefits are expected to be consumed by company, If that pattern cannot be determined reliably, the straight-line method are used. An intangible asset with an indefinite useful life are not be amortized.



3. Impairment of tangible and intangible assets

The carrying amounts of the Company's tangible and intangible assets are reviewed at each reporting date to determine whether there is any indication of impairment considering the provisions of Ind AS 36 'Impairment of Assets'. If any such indication exists, then the asset's recoverable amount is estimated.

The recoverable amount of an asset or cash-generating unit is the higher of its fair value less costs to disposal and its value in use. In assessing value in use, the estimated future cash flows are discounted to their present value using a pre-tax discount rate that reflects current market assessments of the time value of money and the risks specific to the asset. For the purpose of impairment testing, assets that cannot be tested individually are grouped together into the smallest group of assets that generates cash inflows from continuing use that are largely independent of the cash inflows of other assets or groups of assets (the "cash-generating unit", or "CGU").

An impairment loss is recognized if the carrying amount of an asset or its CGU exceeds its estimated recoverable amount. Impairment losses are recognized in profit or loss. Impairment losses recognized in respect of CGUs are reduced from the carrying amounts of the assets of the CGU.

Impairment losses recognized in prior periods are assessed at each reporting date for any indications that the loss has decreased or no longer exists. An impairment loss is reversed if there has been a change in the estimates used to determine the recoverable amount. An impairment loss is reversed only to the extent that the asset's carrying amount does not exceed the carrying amount that would have been determined, net of depreciation or amortization, if no impairment loss had been recognized.

4. Borrowing costs

Borrowing costs that are directly attributable to the acquisition, construction/exploration/ development or erection of qualifying assets are capitalized as part of cost of such asset until such time the assets are substantially ready for their intended use. Qualifying assets are assets which take a substantial period of time to get ready for their intended use or sale. When the Company borrows funds specifically for the purpose of obtaining a qualifying asset, the borrowing costs incurred are capitalized. When Company borrows funds generally and uses them for the purpose of obtaining a qualifying asset, the capitalization of the borrowing costs is computed based on the weighted average cost of general borrowing that are outstanding during the period and used for the acquisition, construction/exploration or erection of the qualifying asset. Capitalization of borrowing costs ceases when substantially all the activities necessary to prepare the qualifying assets for their intended uses are complete. Borrowing costs consist of interest and other costs that an entity incurs in connection with the borrowing of funds. Income earned on temporary investment of the borrowings pending their expenditure on the qualifying assets is deducted from the borrowing costs eligible for capitalization. Other borrowing costs are recognized as an expense in the year in which they are incurred.

5. Non-current assets held for sale

Non-current assets are classified as held for sale if their carrying amount will be recovered principally through a sale transaction rather than through continuing



use and a sale is considered highly probable. They are measured at the lower of their carrying amount and fair value less costs to sell, except for assets such as deferred tax assets, assets arising from employee benefits, financial assets and contractual rights under insurance contracts, which are specifically exempt from this requirement.

Non-current assets are not depreciated or amortized while they are classified as held for sale.

6. Inventories

Inventories are valued at lower of cost determined on weighted average basis or net realizable value.

The cost of inventories comprise of all cost of purchase, costs of conversion and other costs incurred in bringing the inventories to their present location and condition. The cost of purchase consists of the purchase price including duties and taxes (other than those subsequently recoverable by the enterprise from the taxing authorities), freight inwards and other expenditure directly attributable to the acquisition.

The diminution in the value of obsolete, unserviceable and surplus stores and spares is ascertained on review and provided for.

7. Cash and cash equivalents

Cash equivalents are short-term balances (with an original maturity of three months or less from the date of acquisition), highly liquid investments that are readily convertible into known amounts of cash and which are subject to insignificant risk of changes in value.

8. Government grants

Government grants received are recognized initially as income when there is reasonable assurance that Company will comply with the conditions associated with the grant. These grants are classified as grants relating to assets and revenue based on the nature of the grant.

Grants that compensate the Company for the cost of an asset are recognized in profit or loss on a systematic basis over the useful life of the related asset. Grants that compensate the Company for expenses incurred are recognized over the period in which the related costs are incurred and are disclosed separately as Income in the statement of Profit and Loss.

Government grants with a condition to purchase, construct or otherwise acquire long term assets are initially recognized as deferred income. Once recognized as deferred income, such grants are recognized in the statement of profit and loss on a systematic basis over the useful life of the asset. Changes in estimates are recognized prospectively over the remaining life of the assets.

Grants related to non-depreciable assets may also require the fulfillment of certain obligations and would then be recognized in profit or loss over the periods that bear the cost of meeting the obligations.



9. Consumer Contributions

Consumer Contributions against which assets is created are recognized as deferred income and amortized in the proportion of depreciation every year for depreciable assets acquired.

10. Provisions and contingent liabilities

A provision is recognized when the company has a present obligation (Legal or Constructive) as a result of past event and it is probable that an outflow of resources will be required to settle the obligation in respect of which a reliable estimate can be made.

Contingent liabilities are not recognized but disclosed in Notes when the company has possible obligation due to past events and existence of the obligation depends upon occurrence or non-occurrence of future events not wholly within the control of the company.

Contingent liabilities are assessed continuously to determine whether outflow of economic resources have become probable. If the outflow becomes probable then relative provision is recognized in the financial statements.

11. Foreign currency transactions

Transactions in foreign currencies are initially recorded at the functional currency spot rates at the date the transaction first qualifies for recognition.

12. Revenue

Company's revenues arise from sale of power, Subsidy from state government and other income. Revenue from transmission of power is regulated and governed by the applicable BERC Tariff Regulations under Electricity Act, 2003. Revenue from other income comprises interest from banks, employees etc., sale of scrap, other miscellaneous income, etc.

12.1 Revenue from transmission of power

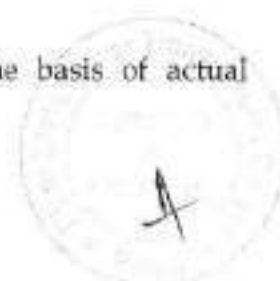
The Company records revenue from transmission of power based on tariff rates approved by the BERC, as per principles enunciated under Ind AS 18. Accordingly, the honorable BERC determines the tariff for the Company's based on the norms prescribed in the tariff regulations as applicable from time to time. Tariff is based on cost incurred that includes employee benefits expense, depreciation, return on equity, interest on working capital, repair & maintenance expenses, administration and general expenses and interest on loan.

Revenue from the transmission of power is measured at the fair value of the consideration received or receivable. Revenue is recognized when the amount of revenue can be reliably measured, it is probable that future economic benefit will flow to the entity and the recovery of the consideration is probable, the associated costs can be estimated reliably.

Delayed payment charges are accounted on actual basis.

12.2 Other income

a) Income from sale of scrap is accounted for on the basis of actual realization.



- b) Insurance claims are accounted on accrual basis.
- c) Rental Income is recognized on time proportionate basis over the period of the rent.
- d) Interest is recognized on a time proportion basis taking into account the amount outstanding and the applicable interest rate.
- e) Other income except mentioned above is recognized on accrual basis except when ultimate realization of such income is uncertain.
- f) Amount in respect of unclaimed security deposit, earnest money deposit and misc. deposit of suppliers and contractors, stale cheques etc. which is pending for more than three years and which are not payable, is considered as income.

13. Employee benefits

Employee benefits include salaries & wages, General Provident Fund, Gratuity, Earned Leave Encashment, Group Saving Scheme, National Pension Scheme and other terminal benefits.

13.1 Defined contribution plans

Provisions towards Gratuity and Leave Encashment in respect of employees recruited by the company are made based on actuarial valuation using the projected unit credit method.

Re measurement, comprising actuarial gains and losses, are recognized in the period in which they occur, directly in other comprehensive income. Re measurement gains and losses are included in retained earnings in the statement

The Company pays fixed contribution to Provident Fund, Gratuity, Leave encashment at predetermined rates to BSPHCL Master Trust Employees A/c a separate trust maintained with Bihar State Power (Holding) Co. Ltd. which invests the funds in permitted securities. The contributions to the fund for the year are recognized as expense and are charged to the profit or loss. The obligation of the Company is to make such fixed contributions.

The Company also pays fixed contribution to Contributory Pension Scheme at predetermined percentage of salary of employees govern by new pension scheme to BSPHCL Master Trust Employees A/c a separate trust maintained with Bihar State Power (Holding) Co. Ltd. which inter alia pays to NSDL for investment of funds in permitted securities. The contributions to the fund for the year are recognized as expense and are charged to the profit or loss. The obligation of the Company is to make such fixed contributions.

The Company does not contribute to Group Saving Schemes but Deductions on accounts GSS from eligible employees at predetermined rate is made are also remitted to BSPHCL Master Trust Employees A/c a separate trust maintained with Bihar State Power (Holding) Co. Ltd. The obligation of the Company is to make such remittance.



13.2 Short-term benefits

Short term employee benefits obligations are measured on an undiscounted basis and are expenses as the related services are provided. A liability is recognized for the amount expected to be paid under short-term employee benefits if the Company has a present legal or constructive obligation to pay this amount as a result of past service provided by the employee and the obligation can be estimated reliably.

14. Income tax

Income tax expense for the year represents the sum of the current tax and deferred tax. Current tax expenses is recognised in profit & loss except to the extent that it relates to items recognised directly in other comprehensive income or equity, in which case it is recognised in OCI or equity.

Current tax is the expected tax payable / receivable on the taxable income / loss for the year calculated using tax rates that have been enacted or substantively enacted by the end of the reporting period.

The provision for taxation is ascertained on the basis of assessable profits computed in accordance with the provision of the Income Tax act 1961. Accordingly, Minimum alternative tax (MAT) has been provided in the books during the year and has been shown under current "current tax" in the Statement of Profit & Loss

Deferred tax is recognised in respect of temporary differences between the carrying amounts of assets and liabilities in the financial statements and the corresponding amounts used for taxation purpose.

Deferred tax liability is generally recognized for all taxable temporary differences.

Deferred tax asset is generally recognized only to the extent that it is probable that future taxable profits will be available against which the assets can be utilized. The carrying amount of deferred tax asset is reviewed at the end of each reporting period and reduced to the extent that it is no longer probable that the related tax benefit will be realized.

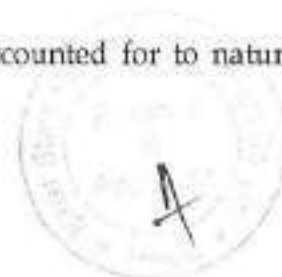
Current and deferred tax are recognized in profit or loss, except when they relate to items that are recognized in other comprehensive income or directly in equity, in which case, the current and deferred tax are also recognized in other comprehensive income or directly in equity respectively.

15. Segment Reporting

Operating segments are reported in a manner consistent with the internal reporting provided to the chief operating decision maker.

16. Material prior period errors

Pre-paid/ prior-period items up to Rs.10,00,000/- are accounted for to natural heads of account.



Material prior period(s) errors are corrected retrospectively by restating the comparative amounts for the prior periods to the extent practicable along with change in basic and diluted earnings per share. However, if the error relates to a period prior to the comparative period, opening balances of the assets, liabilities and equity of the comparative period presented are restated.

17. Earnings per share

Basic earnings per equity share are computed by dividing the net profit or loss attributable to equity shareholders of the Company by the weighted average number of equity shares outstanding during the financial year.

Diluted earnings per equity share is computed by dividing the net profit or loss attributable to equity shareholders of the Company by the weighted average number of equity shares considered for deriving basic earnings per equity share and also the weighted average number of equity shares that could have been issued upon conversion of all dilutive potential equity shares.

18. Cash flow statement

Cash flow statement is prepared in accordance with the indirect method prescribed in Ind AS 7 'Statement of Cash Flows'.

19. Financial instruments

A financial instrument is any contract that gives rise to a financial asset of one entity and a financial liability or equity instrument of another entity.

19.1 Financial assets

Financial assets are recognised when the Company becomes a party to the contractual provisions of the instrument and are initially recognised at fair value and directly attributable transaction costs towards acquisition or issue of the financial asset are added to or deducted from the fair value on initial recognition except for financial assets which are recognised at fair value through profit and loss.

Financial assets are classified as those measured at:

- Amortized cost, where the financial assets are held solely for collection of cash flows arising from payments of principal and/or interest
- Fair value through other comprehensive income (FVTOCI), where the financial assets are held not only for collection of cash flows arising from payments of principal and/or interest but also from the sale of such assets. Such assets are subsequently measured at FVOCI.
- Fair value through profit or loss (FVTPL), where the financial assets are not classified either at amortized cost or FVTOCI.

Financial assets include trade receivables, advances, security deposits, cash and cash equivalents etc and are classified for measurement at amortised cost.



Management determines the classification of an asset at initial recognition depending on the purpose for which the assets were acquired.

Impairment of Financial Assets:

In accordance with Ind AS 109, the Company applies expected credit loss (ECL) model for measurement and recognition of impairment loss on the following financial assets and credit risk exposure:

- (a) Financial assets that are debt instruments, and are measured at amortized cost e.g., loans, debt securities, deposits, trade receivables and bank balance.
- (b) Financial assets that are debt instruments and are measured as at FVTOCI.
- (c) Lease receivables under Ind AS 17.
- (d) Trade receivables under Ind AS 18.
- (e) Loan commitments which are not measured as at FVTPL.
- (f) Financial guarantee contracts which are not measured as at FVTPL.

For recognition of impairment loss on other financial assets and risk exposure, the Company determines that whether there has been a significant increase in the credit risk since initial recognition. If credit risk has not increased significantly, 12-month ECL is used to provide for impairment loss. However, if credit risk has increased significantly, lifetime ECL is used. If, in a subsequent period, credit quality of the instrument improves such that there is no longer a significant increase in credit risk since initial recognition, then the entity reverts to recognizing impairment loss allowance based on 12-month ECL.

De recognition of Financial Assets:

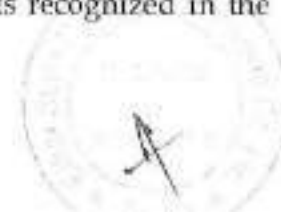
Financial assets are derecognized when the contractual right to receive cash flows from the financial assets expires, or company transfers the contractual rights of such financial assets to receive the cash flows from the asset.

19.2 Financial Liabilities

Borrowings, trade payables or other financial liabilities are initially recognised at the value of the respective contractual obligations. They are subsequently measured at amortised cost using the effective interest rate method.

De recognition of financial liability:

A financial liability is derecognized when the obligation under the liability is discharged or cancelled or expires. When an existing financial liability is replaced by another from the same lender on substantially different terms, or the terms of an existing liability are substantially modified, such an exchange or modification is treated as the De recognition of the original liability and the recognition of a new liability. The difference in the respective carrying amounts is recognized in the



statement of profit or loss.

Offsetting financial instruments:

Financial assets and liabilities are offset and the net amount is included in the Balance Sheet where there is a legally enforceable right to offset the recognised amounts and there is an intention to settle on a net basis or realize the asset and settle the liability simultaneously.

20. Recent accounting pronouncements

Ind AS 116:

On 30th March 2019, the Ministry of Corporate Affairs (MCA) has notified Ind AS 116 Leases, under Companies (Indian Accounting Standards) Amendment Rules, 2019 which is applicable with effect from 1st April, 2019.

Ind AS 116 sets out the principles for the recognition, measurement, presentation and disclosure of leases for both parties to a contract i.e., the lessee and the lesser. Ind AS 116 introduces a single lease accounting model for lessee and requires the lessee to recognize right of use assets and lease liabilities for all leases with a term of more than twelve months, unless the underlying asset is low value in nature. Currently, operating lease expenses are charged to the statement of profit and loss. Ind AS 116 substantially carries forward the lesser accounting requirements in AS 17.

As per Ind AS 116, the lessee needs to recognize depreciation on rights of use assets and finance costs on lease liabilities in the statement of profit and loss. The lease payments made by the lessee under the lease arrangement will be adjusted against the lease liabilities.

The Company is currently evaluating the impact on account of implementation of Ind AS 116 which might have significant impact on key profit & loss and balance sheet ratios i.e. Earnings before interest, tax, depreciation and amortization (EBITDA), Asset coverage, debt equity, interest coverage, etc.

20.1 Critical estimates and judgments-

The preparation of financial statements requires the use of accounting estimates which by definition will seldom equal the actual results. Management also needs to exercise judgment in applying the Company's accounting policies.

This note provides an overview of the areas that involved a higher degree of judgment or complexity, and items which are more likely to be materially adjusted due to estimates and assumptions turning out to be different than those originally assessed. Detailed information about each of these estimates and judgment is included in relevant notes together with information about the basis of calculation for each affected line item in the financial statements.

The areas involving critical estimates or judgment are:

- (i) Estimated useful life of PPE,
- (ii) Estimation of tax expenses and tax payable,
- (iii) Probable outcome of matter included under Contingent Liabilities &
- (iv) Estimation of Defined benefit obligation.



Bihar State Power Transmission Company Limited
Notes forming part of Balance Sheet

Note No 2
Property Plant & Equipment (Non-current)

Particular	(₹ in Lakhs)											Total
	Land	Buildings	Hydrolic works	Other civil works	Plant and Machinery	Lines and cables Network	Furniture and Fixtures	Office Equipment	Computers & IT Equipment	Intangible Assets		
Depreciation Rate	0.00%	3.34%	5.28%	3.34%	5.28%	5.28%	6.33%	6.33%	15.00%	30.00%		
Gross Block												
Balance as at 31 march, 2022	1,52,327	4,636	0.44	28,719	4,24,327	3,76,526	987	399	497	2,404		9,90,953
Additions	1,048	50	-	300	34,604	95,272	47	164	318	27		1,31,831
Less: Disposals/Sale/Transfer	18	-	-	-	150	132	0	-	-	-		300
Balance as at 31 march, 2023	1,53,356	4,747	0	29,019	4,58,781	4,71,667	1,034	563	815	2,511		11,72,484
Accumulated Depreciation												
Balance as at 31 march, 2022	-	1,361	0.11	5,665	1,03,030	87,949	263	83	173	475		1,96,998
Depreciation expense	-	237	0.03	1,071	25,997	23,155	64	26	54	815		51,422
Less: Eliminated on disposals/Sale/Transfer	-	-	-	-	122	98	-	-	-	-		220
Balance as at 31 march, 2023	-	1,598	0.13	6,736	1,28,906	1,11,006	327	111	227	1,250		2,50,300
Carrying Amount												
As at 31 March, 2022	1,52,327	3,326	0.33	23,054	3,21,297	2,88,577	724	316	325	2,008		7,91,555
As at 31 March, 2023	1,53,356	3,139	0.30670	22,283	3,29,875	3,60,661	707	452	509	1,221		8,72,283

1- Requirement of capitalization of Fixed Assets has not been met due to lack of support for maintaining Fixed Assets Register in the existing Accounting Software deployed by the Company. However, Company has initiated necessary steps for Identification, Valuation and Preparation of Fixed Assets Register.

2- Gross block of Assets has been adjusted with Accumulated Depreciation for the purpose of IND-AS adoption in FY 2017-18

Capital Work-In-Progress(CWIP)

Particular	As at 31 March, 2023	As at 31 March, 2022
Capital work in progress		
Cap WIP-ADB	3,504	3,254
Cap WIP-BRGF	12,590	6,893
Cap WIP- Deposit Scheme	13,412	13,610
Cap WIP- IRF	7,777	5,490
Cap WIP- Special Assistance	17,536	-
Cap WIP- State Plan	2,80,912	2,68,918
Total	3,35,735	2,98,164

Particular	Ageing of CWIP				Total
	Less than 1 Year	1-2 Year	2-3 Year	More than 3 Year	
Capital Work in Progress	45,101	36,012	73,314	1,81,228	3,35,735

Interest on loan shown under Capital Work in Progress has been allocated to various assets at the time of capitalization of related assets. There is no reported case of Cost over Run.

Bihar State Power Transmission Company Limited
Notes forming part of Balance Sheet

Note No 3

Financial Assets - Loans

(₹ in Lakh)

Particulars	As at 31st March, 2023	As at 31st March, 2022
Unsecured - Considered Good		
Loans to Staff	14	31
Total	14	31

Note No 3A

Financial Assets - Others

Particulars	As at 31st March, 2023	As at 31st March, 2022
Secured - Considered Good		
Total	-	-

Note No 4

Other Non-Current Assets

Particulars	As at 31st March, 2023	As at 31st March, 2022
Unsecured - Considered Good		
Advances for Capital Works	9,885	13,552
Deposit	10,006	6
Total	19,891	13,558

Note No 5

Inventories

Particulars	As at 31st March, 2023	As at 31st March, 2022
Stock of Materials and Consumables	13,173	8,726
Stock of Material and Consumables in transit (ICT)	723	626
Other Stock	1,350	7
Total	15,245	9,359

* Company has initiated necessary steps for Identification and Valuation of Inventories lying at different circle Stores. During current FY in course of verification and valuation (Lower of Cost or IRV), the difference value of books of accounts and store ledger has been transferred to revaluation reserve on temporary basis. The balance will be reconciled in FY 2023-24.



Bihar State Power Transmission Company Limited
Notes forming part of Balance Sheet

Note No. 6

Financial Assets - Trade Receivables

(₹ in Lakh)

Particulars	As at 31st March, 2023	As at 31st March, 2022
- Secured, Considered good	-	-
- Unsecured Considered Good	356,181	300,634
Less:- Provision for Doubtful dues from Consumers	-	-
Total	356,181	300,634

Note No. 7

Financial Assets - Cash And Cash Equivalents

Particulars	As at 31st March, 2023	As at 31st March, 2022
Cash in hand		
Cash Imprest with staff	3	6
Cash in Transit	129	117
Balance with bank		
(i) In Bank Accounts	162,206	108,915
(ii) In Deposit Accounts (with original maturity less than three months)	-	-
Cheque in Transit	71	721
Total	162,409	109,758

Note No B

Financial Assets - Bank Balances (Other than Cash and Cash Equivalents)

Particulars	As at 31st March, 2023	As at 31st March, 2022
(i) Deposits with banks (with original maturity more than 3 months up to 12 months)	-	-
(ii) Earmarked Bank Balance	56,214	34,684
Total	56,214	34,684

* Balance of ₹ 56214 lakh is kept in separate PLA account received from BSPHCL OR Directly by Government of Bihar for capital projects.



Bihar State Power Transmission Company Limited
Notes forming part of Balance Sheet

Note No 9

Financial Assets - Others (Current)

[₹ in Lakh]

Particulars	As at 31st March, 2023	As at 31st March, 2022
Amount recoverable from employees	1	1
Other Claims and Receivables	15,704	6,984
Advance to Staff	0.04	0.04
Total	15,705	6,985

Note No 10 (A)

Other Current Tax Assets

Particulars	As at 31st March, 2023	As at 31st March, 2022
Advance Income Tax / deductions at source	42,529	36,910
Total	42,529	36,910

Note No 10 (B)

Other Current Tax Liabilities

Particulars	As at 31st March, 2023	As at 31st March, 2022
Provisions for income tax	40,222	34,176
Total	40,222	34,176
Net Balance (Note 10A-Note 10B)	2,307	2,734

Note No 11

Other Current Assets

Particulars	As at 31st March, 2023	As at 31st March, 2022
Advances for O & M Supplies/Works	742	427
Advances to Staff	69	66
Advance -		
Entry tax	1,000	1,000
BSEB Restructuring Balance	3,538	3,538
Pre Paid Expenses	442	450
Total	5,792	5,481



Bihar State Power Transmission Company Limited
Notes forming part of Balance Sheet

Note No 12

Equity Share Capital

(₹ in Lakh)

Particulars	As at 31st March, 2023	As at 31st March, 2022
(A) Authorised		
8,55,00,00,000 Equity Shares of ₹10 each on 31st March 2023	855,000	810,000
(B) Issued, subscribed and fully paid up		
7,58,92,32,878 Equity Shares of ₹ 10 each on 31st March 2022 and 8,29,56,62,159 Equity Shares of ₹ 10 each on 31st March 2023.	829,566	758,923
Total	829,566	758,923

Note No 12.1- The Company has only one class of equity share, having par value of ₹ 10/- per share.

12.2 Reconciliation of the number of shares outstanding:-

Particulars	As at 31 March 2023		As at 31 March 2022	
	No. of shares	Amount	No. of shares	Amount
Equity Shares at the beginning of the year	7,589,232,878	758,923	7,589,232,878	758,923
Add: Shares issued during the year	706,429,281	70,643	-	-
Equity Shares at the end of the year	8,295,662,159	829,566	7,589,232,878	758,923

12.3 Details of the shares held by each shareholder holding more than 5% shares:-

Particulars	As at 31 March 2023		As at 31 March 2022	
	No. of shares	% held	No. of shares	% held
Bihar State Power (Holding) Company Ltd. and its nominees	8,295,662,159	100%	7,589,232,878	100%

12.4 Details of the shares held by Promoters :-

Shares held by the Promoters at the end of the year			% Change during the Year
Promoter Name	No. of Shares	% of Total Shares	
Bihar State Power (Holding) Company Ltd.	8,295,661,559	99.99%	NIL
Total	8,295,661,559	99.99%	NIL



Bihar State Power Transmission Company Limited
Notes forming part of Balance Sheet

Note No 13

Other Equity

(₹ in Lakh)

Particulars	As at 31st March, 2023	As at 31st March, 2022
Surplus in Statement of Profit & Loss		
Opening Balance	107,069	101,214
Add:- Profit/(Loss) during the year as per Statement of Profit & Loss	22,629	8,953
Add: Prior period adjustments	(751)	1,857
Add: Revaluation Reserve	1,340	-
Less:- Appropriations during the year	(5,612)	(4,955)
Closing Balance	124,675	107,069
Share Application Pending Allotment		
Opening Balance	70,643	48,759
Add:- Funds received during the year	154,208	21,884
Less: Share capital Allotted	70,643	-
Closing Balance	154,208	70,643
Self Insurance Reserve		
Opening Balance	9,589	4,634
Add:- Addition during the year	5,612	4,955
Less: Deduction during the year	-	-
Closing Balance	15,201	9,589
Total	294,084	187,301

"Self Insurance Scheme Reserve" (SIS Reserve) is created @ 0.50% on Gross Block of fixed assets as at the close of the each financial year to meet the future losses which may arise from the uninsured risk of assets, not insured externally.

Note No 14

Deferred Government Grant and Consumer Contribution

Particulars	As at 31st March, 2023	As at 31st March, 2022
Deferred Income - Non-Depreciable Assets		
Opening Balance	2,970	3,105
Add: Fund from State Government	-	-
Less: Deferred Income	135	135
Total (A)	2,835	2,970
Deferred Income -Depreciable Assets		
Opening Balance	107,304	107,321
Add: Fund from State Government	-	128
Less: Deferred Income	145	145
Total (B)	107,159	107,304



Bihar State Power Transmission Company Limited
Notes forming part of Balance Sheet

(₹ in Lakh)

Consumer Contribution- Deferred Income		
Opening Balance	46,434	53,309
Add:- Addition during the Year	7,668	446
Deduction:- Amortization of Consumer Contribution	7,844	7,320
Total (C)	46,258	46,434
Total (A+B+C)	156,251	156,707

Note No 15**Financial Liabilities - Borrowings (Non-Current)**

Particulars	As at 31st March, 2023	As at 31st March, 2022
(a) Loan from Financial Institutions (Secured)	320,000	255,000
<i>Loan has been taken from consortium of Financial Institutions lead by Canara Bank and Interest is charged at MCLR. This loan is taken under state plan (20:80) Scheme, where 20% fund is received from GoB as equity and 80% fund is borrowed from Financial Institutions under the guarantee of GoB.</i>	-	-
(b) Loan from BSPHCL - ADB (Unsecured)	46,413	46,413
<i>Interest is provisionally provided @13.00%.</i>		
Sub total	366,413	301,413
Less:- Current Maturities of Long Term Debts	-	-
Total	366,413	301,413

Note No 16**Provisions**

Particulars	As at 31st March, 2023	As at 31st March, 2022
Terminal Benefits Liabilities		
Company		
Pension	8,335	13,048
Gratuity	-1,265	-389
Leave Encashment	1,165	-2,085
Total	8,235	10,574



Bihar State Power Transmission Company Limited
Notes forming part of Balance Sheet

Note No 17

Tax Expense recognized in Statement of profit and loss

(₹ in Lakh)

Particulars	As at 31st March, 2023	As at 31st March, 2022
Current income tax		
Current year	6,046	5,492
Less: MAT Credit	-6,046	-5,492
Sub Total (A)	-	-
Deferred tax expense		
Deferred tax liability / (asset)	11,974	22,482
Sub Total (B)	11,974	22,482
Total	11,974	22,482

Reconciliation of effective tax rates

Particulars	As at 31st March, 2023	As at 31st March, 2022
Profit before tax	34,602	31,435
Enacted tax Rate	17.47%	17.47%
Computed Expected Tax Expenses	6,046	5,492
Deferred Tax	11,974	22,482
MAT Credit	-6,046	-5,492
Tax Expenses for the year	11,974	22,482

Recognized deferred tax assets and liabilities

Deferred tax assets and liabilities are attributable to the following:

Particulars	As at 31st March, 2023	As at 31st March, 2022
Deferred Tax Liability		
Property, plant and equipment	134,390	123,816
Sub Total	134,390	123,816
Deferred tax Assets		
Unabsorbed Depreciation	15,157	15,735
Terminal Benefits	3,637	4,458
Sub Total	18,794	20,194
Net Deferred Tax Liabilities	115,596	103,623
MAT Credit Entitlement	40,222	34,176
Total	75,374	69,447



Bihar State Power Transmission Company Limited
Notes forming part of Balance Sheet

Note No 18**Other Non Current Liabilities****(₹ in Lakh)**

Particulars	As at 31st March, 2023	As at 31st March, 2022
Advance Lease Rent	1,366	-
Total	1,366	-

Note No 19**Financial Liabilities - Others (Current)****(₹ in Lakh)**

Particulars	As at 31st March, 2023	As at 31st March, 2022
Interest Accrued on borrowing from BSPHCL (ADB)	36,278	29,293
Terminal Benefits Liabilities	546	736
Staff Related Liability	2,104	1,791
Deposits and Retentions from Suppliers and Customers	31,223	26,316
Audit Fee Payable	1,001	999
Liability to Supplies/Works	4,643	4,693
Other Liability	17,588	7,807
Total	93,384	71,635

Note No 20**Provisions**

Particulars	As at 31st March, 2023	As at 31st March, 2022
Terminal Benefits Liabilities		
Pension	1,684	1,616
Gratuity	267	334
Leave Encashment	223	233
Total	2,174	2,183

Note No 21**Other Current Liabilities**

Particulars	As at 31st March, 2023	As at 31st March, 2022
Statutory Dues	795	1,122
Inter Unit Accounts	1,402	1,402
Inter Company Balances	12,742	12,633
Total	14,929	15,158

