

**BEFORE  
THE HON'BLE JHARKHAND STATE ELECTRICITY  
REGULATORY COMMISSION**



**FILING OF REVISED PETITION FOR TRUE UP FOR FY 2020-21 and FY 2021-22,**

**APR for FY 2022-23**

**AND**

**ARR and Tariff Petition for FY 2023-24**

**SUBMITTED TO:**

**JHARKHAND STATE ELECTRICITY REGULATORY  
COMMISSION, RANCHI**

**SUBMITTED BY:**

**JHARKHAND URJA SANCHARAN NIGAM LIMITED,  
KUSAI COLONY, RANCHI – 834 010**

**BEFORE THE JHARKHAND STATE ELECTRICITY REGULATORY COMMISSION,  
RANCHI**

IN THE MATTER OF: Filing of the Revised Petition for Trueing up for FY 2020-21 and FY 2021-22, APR for FY 2022-23, ARR and Tariff Petition for FY 2023-24 under Jharkhand State Electricity Regulatory Commission (Terms and Conditions for Determination of Transmission Tariff) Regulations, 2020 and its amendments thereof and directives issued by the JSERC from time to time and under Section 61, 62, 64 and 86 of The Electricity Act 2003 read with the relevant guidelines.

AND

IN THE MATTER OF: Jharkhand Urja Sancharan Nigam Limited (hereinafter referred to as "JUSNL" or erstwhile "JSEB-Transmission function" which shall mean for the purpose of this petition the Licensee), having its registered office at JUSNL Building, Kusai Colony, Doranda, Ranchi-834002.

...Petitioner

The Petitioner respectfully submits as under: -

1. The erstwhile Jharkhand State Electricity Board ("Board" or "JSEB") was a statutory body constituted under Section 5 of the Electricity (Supply) Act, 1948 and was engaged in electricity generation, transmission, distribution and related activities in the State of Jharkhand.
2. Jharkhand Urja Vikas Nigam Ltd. (herein after to be referred to as "JUVNL" or "the Holding company") has been incorporated under Indian Companies Act, 1956 pursuant to decision of Government of Jharkhand to reorganize erstwhile JSEB. The Petitioner submits that the said reorganization of the JSEB has been done by Government of Jharkhand pursuant to "Part XIII – Reorganization of Board" read with section 131 of The Electricity Act 2003. The Holding company or JUVNL has been incorporated on 16<sup>th</sup> September 2013 and registered with the Registrar of Companies, Jharkhand, Ranchi and has obtained Certificate of Commencement of Business on 12<sup>th</sup> November 2013.
3. Jharkhand Urja Sancharan Nigam Ltd. (herein after to be referred to as "JUSNL" or "the Petitioner") has been incorporated on 23<sup>rd</sup> October 2013 with the Registrar of Companies, Ranchi, Jharkhand, and has obtained Certificate of Commencement of Business on 28<sup>th</sup> November 2013. The Petitioner is a Company constituted under the provisions of Government of Jharkhand, General Resolution as notified

by transfer scheme vide notification no. 8, dated 6<sup>th</sup> January 2014. The Transmission Company - Jharkhand UrjaSancharan Nigam Ltd. is duly registered with the Registrar of Companies, Ranchi on 23<sup>rd</sup> October 2013.

4. Pursuant to the enactment of the Electricity Act, 2003, every utility is required to submit its Aggregate Revenue Requirement (ARR) for a particular control period and is also required to file Tariff Petitions as per procedures outlined in section 61, 62 and 64, of Electricity Act 2003, and the governing regulations, thereof, laid down by the respective State Electricity Regulatory Commission. The State transmission utility, JUSNL is also mandated to submit True-up and ARR petitions for respective years for its Transmission Business, as per the JSERC (Terms and Conditions for Determination of Transmission Tariff) Regulations, 2020 as notified on 12<sup>th</sup> November, 2020 and under Section 62 read with Section 86 of the Electricity Act, 2003 and other enabling provisions. The said Regulation are applicable to all Transmission Licensees in the State for filing of ARR and Tariff Petition for FY 2023-24.
5. The instant petition is filed with the Hon'ble Commission for determination of ARR for FY 2023-24.
6. This Petition has been prepared in accordance with the provisions of Sections 61 and 62 of the Electricity Act, 2003 and has taken into consideration the Jharkhand State Electricity Regulatory Commission (Terms and Conditions for Determination of Transmission Tariff) Regulations, 2020, and amendments thereof and orders issued by the Hon'ble Commission from time to time.
7. JUSNL along with this petition is submitting the tariff formats with data & information to an extent applicable and would make available any further information/ additional data required by the Hon'ble Commission during the proceedings.

**Prayers before the Hon'ble Commission:**

The Petitioner respectfully prays that the Hon'ble Commission may:

- a. Admit the instant Petition;
- b. Examine the proposal submitted by the Petitioner in the enclosed petition for a favorable dispensation;
- c. Approve the True up for FY 2020-21 under Jharkhand State Electricity Regulatory Commission (Terms and Conditions for Determination of Transmission Tariff)

Regulations, 2015, other amendments and orders issued by the Hon'ble Commission from time to time;

- d. Approve the True up for the FY 2021-22 and APR for FY 2022-23 under the Jharkhand State Electricity Regulatory Commission (Terms and Conditions for Determination of Transmission Tariff) Regulations, 2020, other amendments and orders issued by the Hon'ble Commission from time to time;
- e. Approve the ARR and Tariff Proposal for FY 2023-24;
- f. Pass separate Order for the Petitioner against the present petition;
- g. JUSNL may also be permitted to propose suitable changes to the respective ARR, prior to the final approval by the Hon'ble Commission. JUSNL 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;
- h. Condone any inadvertent omissions / errors / shortcomings and permit JUSNL to add / change / modify / alter this filing and make further submissions as may be required at a future date;
- i. Pass such Order, as the Hon'ble Commission may deem fit and appropriate keeping in view the facts and circumstances of the case;

For Jharkhand UrjaSancharan Nigam Limited  
(Petitioner)

Sd./-  
(Ashish Kumar)  
Authorized Signatory

Place: Ranchi  
Dated:

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- 1.1.4. Jharkhand UrjaSancharan Nigam Ltd. (herein after to be referred to as “JUSNL” or “the Petitioner” was incorporated on 23<sup>rd</sup> October 2013 with the Registrar of Companies, Jharkhand, Ranchi and has obtained Certificate of Commencement of Business on 28th November 2013. The Petitioner is a Company constituted under the provisions of Government of Jharkhand, General Resolution as notified by transfer scheme vide notification no. 8, dated 6th January 2014. The Transmission Company - Jharkhand UrjaSancharan Nigam Ltd. is duly registered with the Registrar of Companies, Ranchi on 23rd October 2013.
- 1.1.5. JUSNL is a Transmission Licensee under the provisions of the Electricity Act, 2003 (EA, 2003) having license to establish or operate transmission lines in the State of Jharkhand.
- 1.1.6. Being a State Transmission Utility (STU), it caters to the requirements of the State for transmitting power from the state-owned generation stations and the power purchases from other external sources into the distribution network. The responsibilities of the erstwhile JSEB- Transmission function as a STU have now been transferred to Jharkhand UrjaSancharan Nigam Ltd (JUSNL).
- 1.1.7. Section 62 of the Electricity Act 2003 requires the STU to furnish details as may be specified by the Appropriate Commission for determination of tariff. In addition, as per the MYT Regulations issued by the Hon'ble Commission, JUSNL is required to file for all reasonable expenses it believes it would incur over the next control period and seek the approval of the Hon'ble Commission for the same. The filing is to be done based on the projections of the expected revenue and costs, which should be arrived at by a reasonable methodology adopted by the petitioner.
- 1.1.8. The MYT Regulations notified by the Hon'ble Commission also mandates the filing of ARR for the MYT Control Period.
- 1.1.9. The Govt. of India notified the Electricity Act, 2003 on 10<sup>th</sup> June 2003 repealing the Indian Electricity Act-1910, the Electricity (Supply) Act 1948 and the E.R.C. Act, 1998. Among the tariff related provisions, the State Electricity Regulatory Commission (SERC) has to be guided by National Electricity Policy and National Tariff Policy. The generation, transmission and distribution tariff have to be determined separately. The Jharkhand State Electricity Regulatory Commission (hereinafter referred as “Commission”) has framed Regulations specifying the terms and conditions for determination of transmission tariff.
- 1.1.10. While submitting this Petition, Jharkhand UrjaSancharan Nigam Limited has placed utmost efforts to adhere to the said Regulations framed by this Hon'ble Commission.

## **1.2. Profile of JUSNL**

- 1.2.1. JUSNL is engaged primarily in the business of transmission of electricity. It has been vested with the transmission assets, interest in property, rights and liabilities

of the erstwhile JSEB necessary for the business of transmission in the state of Jharkhand.

1.2.2. JUSNL has been given the status of a Transmission Licensee as per Section 14 of the Electricity Act 2003, to fulfill the obligations of the Transmission Licensee as mandated under the provisions of "The Jharkhand State Electricity Reforms Revised Transfer Scheme, 2015" and the Electricity Act, 2003.

1.2.3. The Jharkhand State Electricity Reforms Revised Transfer Scheme, 2015 details out the following for the transmission business of JUSNL under Schedule- 'A' Transmission Undertaking:

Part I: Transmission Assets, General Assets, Miscellaneous

Part II: Aggregate Assets and Liabilities

Part III: Functions and Duties of JUSNL

1.2.4. At the time of creation of JSEB (erstwhile) in 2001, the total transformation capacity was 1435.45 MVA of 220 kV and 132 kV Class in 18 GSS supported by 1502.7 Km. (2122 cKm) transmission line. Over the years new GSS has been constructed and augmentation of existing GSS has been done. New Transmission lines have also been constructed. In addition, DVC has its own transmission network in Jharkhand for transmission of power to its GSS from where it supplies power to J.S.E.B. as well as other HT consumers.

1.2.5. The total Grid sub-station capacity of JUSNL is 9985 MVA of 400 kV, 220 kV and 132 kV Class in 55 GSS (Up to 31<sup>st</sup> March, 2023) & transmission line length is 6421.17 CKM. The details of infrastructure of the Petitioner added during recent years is provided in the table below:

**Table 1 Infrastructure Details of JUSNL**

Description	As on Mar' 15	As on Mar' 16	As on Mar' 17	As on Mar' 18	As on Mar' 19	As on Mar'20	As on Mar'21	As on Mar'22	As on Mar'23
<b>Grid Substations (No.)</b>									
400/220 kV	-	-	-	-	-	-	-	1	1
220/132 kV or 220/132/33 kV	4	6	6	6	6	8	11	13	13
132/33 kV	26	29	30	33	34	35	39	40	41
<b>Total No of GSS (No.)</b>	<b>30</b>	<b>35</b>	<b>36</b>	<b>39</b>	<b>40</b>	<b>43</b>	<b>50</b>	<b>54</b>	<b>55</b>
<b>Transformation Capacity (MVA)</b>									
400/220 kV	-	-	-	-	-	-	-	630	630
220/132 kV	1400	2000	2000	2000	2000	3120	4120	4920	4920
132/33 kV	2290	2745	3295	3555	3655	3785	4185	4335	4435
<b>Total Transformat</b>	<b>3690</b>	<b>4745</b>	<b>5295</b>	<b>5555</b>	<b>5655</b>	<b>6905</b>	<b>8305</b>	<b>9885</b>	<b>9985</b>

Description	As on Mar' 15	As on Mar' 16	As on Mar' 17	As on Mar' 18	As on Mar' 19	As on Mar'20	As on Mar'21	As on Mar'22	As on Mar'23
ion Capacity (MVA)									
Transmission Lines (Ckm.)									
400 kV	180	180	180	180	180	180	180	278	278
220 kV	843	993	989	1069	1081	1395	2022.39	2482.51	2482.51
132 kV	1,792	1900	2019	2019	2742	3156	3660.66	3660.66	3660.66
Total Transmission Lines (Ckm.)	2815	3073	3188	3268	4003	4731	5860.05	6421.17	6421.17

### 1.3. Procedural History

1.3.1. The procedural history of filing of Petitions by JUSNL (since formation) is tabulated below:

**Table 2 Procedural History of JUSNL**

Sl. No.	Scope of filing in Petition	Filing Date	Date of Order
1	Review of ARR for FY 2013-14 (6 <sup>th</sup> January 2014 to 31 <sup>st</sup> March 2014) & FY 2014-15 and determination of Aggregate Revenue Requirement (ARR) and Transmission Tariff for FY 2015-16	26.02.2015	14.12.2015
2	Business Plan for MYT Control Period FY 2016-17 to FY 2020-21 for transmission and SLDC business	17.11.2016	24.02.2018
3	ARR & Tariff determination for MYT Control period FY 2016-17 to FY 2020-21	21.03.2017	
4	True-up for FY 2013-14 (6 <sup>th</sup> Jan'14 to 31 <sup>st</sup> Mar'14) and FY 2014-15	11.10.2017	01.02.2019
5	True-up Petition for the FY 2015-16 and FY 2016-17 and determination of Aggregate Revenue Requirement (ARR) and Transmission Tariff for FY 2017-18 and FY 2018-19	05.10.2018	30.12.2020
6	Review of JSERC Order dated 1 <sup>st</sup> February 2019, on True – up for FY 2013-2014 (6 <sup>th</sup> January 2014 to 31 <sup>st</sup> March 2014) and FY 2014-2015 for JUSNL	27.03.2019	03.12.2020
7	Review Petition against True up Order for FY 2015-16 and FY 2016-17	30.03.2022	10.01.2023
8	True-Up Petition for FY 2017-18	04.02.2021	12.06.2023
9	True-Up Petition for FY 2018-19	10.08.2021	23.06.2023
10	Business Plan and ARR for MYT Control Period FY 2021-22 to FY 2025-26 for transmission and business	13.10.2022	23.06.2023

## **1.4. Rationale for filing of Instant Petition**

- 1.4.1. Section 62 of the Electricity Act, 2003 requires the Transmission Licensee to furnish details as may be specified by the SERC for determination of tariff. In addition, as per the regulations issued by the Hon'ble Commission, JSEB or its unbundled companies are required to file petition for all reasonable expenses which they believe they would incur over the next financial year and seek the approval of the Hon'ble Commission for the same in advance. The filing is to be done based on the projections of expected costs and revenue.
- 1.4.2. The current petition has been prepared in accordance with the provisions of the following Acts/ Policies/ Regulations:
- a. The Electricity Act, 2003;
  - b. The National Electricity Policy;
  - c. The National Tariff Policy, and amendments issued therein;
  - d. JSERC (Terms and Conditions for Determination of Transmission Tariff) Regulations, 2020 and its amendments thereof, alongwiththeotherguidelinesand directives issued by the JSERC from time to time
- 1.4.3. The Petitioner has made genuine efforts for compiling all relevant information relating to the True-up Petition as required by 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 is accurate and free from material errors. The Petitioner therefore prays to the Hon'ble Commission that the information provided be accepted for the current filing.

## **1.5. Contents of the Petition**

- 1.5.1. This Petition comprises of following sections:
- i. True up for FY 2020-21 and FY 2021-22
  - ii. APR for FY 2022-23
  - iii. ARR for FY 2023-24
  - iv. Tariff Proposal for FY 2023-24

## 2. Overall Approach and Provision of Law

### 2.1. Present Approach

- 2.1.1. JUSNL has filed True up for FY 2020-21 and FY 2021-22, APR for FY 2022-23 and ARR and Tariff Proposal for FY 2023-24 on dated 21.12.2023.
- 2.1.2. Hon'ble JSERC vide. Letter No. JSERC/Case (T) No. 14 of 2023/312 dated 17.01.2024 and Letter No. JSERC/Case (T) No. 14 of 2023/313 dated 17.01.2024 directed JUSNL to submit revised petition for True up for FY 2020-21 and FY 2021-22, APR for FY 2022-23 and ARR and Tariff Proposal for FY 2023-24 along with segregation of SLDC asset and reconciliation statement.
- 2.1.3. Hon'ble JSERC vide Letter No. JSERC/Case (T) No. 14 of 2023/523 dated 13.02.2024 directed JUSNL to submit revised petition for removing discrepancies as cited in the letter.
- 2.1.4. In pursuance letter dated 13.02.2024, JUSNL is filing revised True-Up petition for FY 2020-21 and FY 2021-22, APR for FY 2022-23, ARR and Tariff Proposal for FY 2023-24 for the consideration of the Hon'ble Commission.
- 2.1.5. The Petitioner requests the Hon'ble Commission to kindly approve the revised True-up keeping in view the actual figures now available for the entire year in the audited books of accounts for FY 2020-21 and FY 2021-22.
- 2.1.6. The revised APR for the FY 2022-23 has been prepared considering the unaudited accounts available for the FY 2022-23. Hence, it is requested to approve the APR keeping in view the actual figures now available for the entire year based on the unaudited accounts.

### 2.2. Data and information sources

- 2.2.1. In this Petition, the true up is based on the actual audited accounts for FY 2020-21 and FY 2021-22.

### 2.3. Provision of Law

- 2.3.1. Provisions for True-Up Exercise for MYT Control Period FY 2016-17 to FY 2020-21 as provided in the JSERC (Terms and Conditions for Determination of Transmission Tariff) Regulations, 2015 are as follows:

***"True Up in Control Period***

*6.16 The true up across various controllable parameters shall be conducted as per principles stated below: -*

*6.17 For controllable parameters,*

*(a) Any surplus or deficit on account of Operation and Maintenance (O&M) expenses shall be to the account of the Licensee and shall not be trued up in ARR; and*

*(b) at the end of the control period –*

- i. *the Commission shall review actual capital investment vis-à-vis approved capital investment.*
- ii. *depreciation and financing cost, which includes cost of debt including working capital (interest), cost of equity (return) shall be trued up on the basis of audited/authenticated information and prudence check by the Commission;*

*Provided that in case of any change in capital investment plan for the Control Period as per clause 6.12 of these Regulations, depreciation and financing cost shall be adjusted during the midterm review based on the actual capital expenditure, actual capitalisation and revised capital investment plan (capital expenditure and capitalisation schedule) approved by the Commission.*

*6.18 Notwithstanding anything contained in these Regulations, the gains or losses in the controllable items of ARR on account of force majeure factors shall be passed on as an additional charge or rebate in ARR over such period as may be laid down in the order of the Commission.”*

2.3.2. In line with the above provisions, JUSNL has submitted the revised True Up for FY 2020-21.

2.3.3. Provisions for True-Up Exercise for MYT Control Period FY 2021-22 to FY 2025-26 as provided in the JSERC (Terms and Conditions for Determination of Transmission Tariff) Regulations, 2020 are as follows:

*“A.7 Truing Up*

*7.1 The Transmission Licensee shall submit along with the application for truing up, details of capital expenditure and additional capitalization, transformation and transmission losses, sources of financing, depreciation, operation and maintenance expenditure, actual loan portfolio with the interest paid, Return on equity, variation in working capital along with other components of ARR, for each year of the Control Period, on the basis of annual Audited Accounts as per the Timelines stipulated in the SectionA 24.*

*7.2 Where after the truing up, the Revenue recovered exceeds the ARR approved by the Commission under these Regulations, the Transmission Licensee shall refund to the Beneficiaries as the case may be, the surplus amount so recovered as specified in Clause 7.4 of these Regulations.*

*7.3 Where after the truing up, the Revenue recovered is less than the ARR approved by the Commission under these Regulations, the Transmission Licensee shall recover from the Beneficiaries as the case may be, the gap amount in accordance with Clause 7.4 of these Regulations.*

*7.4 The amount under-recovered or over-recovered, along with simple interest at the rate equal to Bank Rate as on April 01 of the respective year plus 350 basis points, shall be recovered or refunded by the Transmission Licensee in six equal monthly instalments starting within three months from the date of the Tariff Order issued by the Commission:*

*Provided that no carrying cost on the duration of delay shall be allowed on unrecovered gap if the Transmission Licensee fails to submit the Petition as per the timelines stipulated in Section A 24:*

*Provided further that any adverse financial impact for variation in uncontrollable items due to lapse on part of the Transmission Licensee or its suppliers/contractors shall not be allowed in truing up;”*

- 2.3.4. In line with the above provisions, JUSNL has submitted the revised True Up for FY 2021-22.



### 3. Revised True up For FY 2020-21

#### 3.1. Preamble

- 3.1.1. This section outlines the actual performance of the JUSNL during the FY 2020-21.
- 3.1.2. In line with the provisions of the JSERC (Terms and Conditions for Determination of Transmission Tariff) Regulations, 2015, the Petitioner hereby submits the True up for FY 2020-21. The expenses of the Petitioner presented in the True up are based on the audited books of accounts for the FY 2020-21. The ARR so arrived has been compared with that approved by the Hon'ble Commission vide its Tariff Order dated 23<sup>rd</sup> June, 2023. Accordingly, the revised Aggregate Revenue Requirement, revenue and gap for FY 2020-21 have been given in the subsequent sub-sections of this chapter.

#### 3.2. Previous Order

- 3.2.1. JUSNL submits that the final transfer scheme was notified on 20<sup>th</sup> November 2015 vide Government of Jharkhand notification no. 2917 wherein separate balance sheet was notified by the Government of Jharkhand for all the four entities namely JBVNL, JUSNL, JUUNL and JUVNL.
- 3.2.2. The Hon'ble Commission has issued Business Plan Order dated 24<sup>th</sup> February 2018 wherein it has approved ARR for FY 2020-21. JUSNL in the instant Petition is filing for True up for FY 2020-21.
- 3.2.3. The audited annual account for FY 2020-21 of JUSNL and audited Trial Balance of SLDC for FY 2020-21 are attached as **Annexure A**. It may be noted that the annual account for FY 2020-21 has been audited by Comptroller and Auditor General of India (CAG). The certification and audit report of CAG is attached as **Annexure B**.

#### 3.3. Capital Expenditure, Capitalization and CWIP

- 3.3.1. JSERC Transmission Tariff Regulations, 2015 provides for review of actual capital expenditure as follows:

*"12.1 To ensure smooth implementation of the Multi Year Tariff (MYT) framework, the Commission may undertake periodic reviews of Transmission Licensees' performance during the Control Period, to address any practical issues, concerns or unexpected outcomes that may arise.*

*12.2 The Transmission Licensee shall submit information as part of annual performance review on actual performance to assess the performance vis-à-vis the targets approved by the Commission at the beginning of the Control Period. This shall include annual statements of its performance and accounting statements and the tariff worked out in accordance with these Regulations."*

- 3.3.2. In pursuant to the above Regulations, the Hon'ble Commission shall review the actual capitalization for true up vis-à-vis approved capitalization and accordingly provide for expenses such as depreciation, interest on long term loan and return on equity.
- 3.3.3. Accordingly, the Petitioner has considered the actual capital expenditure and capitalization that has incurred in the books of accounts for true up of expenses for FY 2020-21.
- 3.3.4. The opening and closing balances of the capital expenditure, capitalization, CWIP are considered as per the audited annual accounts for FY 2020-21.
- 3.3.5. The following table shows the capital expenditure and capitalization that has incurred during the year against the approved capital expenditure and capitalization.

**Table 3 Capital Expenditure, CWIP and Capitalization for FY 2020-21***All figures are in Rs. Crore*

Particulars	Opening	Addition	Closing
Capital Expenditure during the year	5,175.17	642.32	5,817.49
Capitalization	1,927.82	682.58	2,610.39
<b>Capital Work in Progress</b>	3,247.35	-40.25	3,207.10
<i>Asset Capital Work in Progress</i>	2,339.94	-41.69	2,298.25
<i>Capital Advances</i>	374.97	0.00	374.97
<i>Advance to Suppliers</i>	501.95	5.47	507.43
<i>Stock of Materials at Site</i>	30.49	-4.04	26.45

- 3.3.6. Assets amounting to Rs. 2.03 crore pertaining to SLDC have been deducted from the total assets of JUSNL valuing Rs. 1929.85 Crores. Hence, the net assets of JUSNL after segregation of SLDC assets are Rs. 1927.82 Crores.

**Table 4 Capital Expenditure, CWIP and Capitalization for FY 2020-21 (Approved Vs. Claimed)***All figures are in Rs. Crore*

Particulars	Approved	Actual
Capital Expenditure during the year	-	642.32
Asset Capitalised during the year	3.05	682.58

- 3.3.7. In accordance with the same, it is submitted that JUSNL has incurred actual capital expenditure of Rs. 642.32 Crore and actual capitalization of Rs. 682.58 Crore in FY 2020-21. The Hon'ble Commission is therefore requested to kindly approve the same in line with the audited annual accounts of JUSNL for the FY 2020-21.
- 3.3.8. The details of capitalization done in FY 2020-21 by JUSNL have been attached as **Annexure C** to this Petition.

### 3.4. Gross Fixed Asset

- 3.4.1. The Commission in its Business Plan Order dated 24<sup>th</sup> February 2018, had determined the opening balance of GFA for FY 2020-21 based on the closing balance approved for FY 2019-20 in the same Order.
- 3.4.2. JUSNL has now claimed opening GFA as per the audited annual accounts for FY 2020-21. The following table shows the opening and closing balance of GFA as per audited annual accounts against that approved by JSERC in last Tariff Order.

**Table 5 Gross Fixed Asset for FY 2020-21**

*All figures are in Rs. Crore*

Particulars	Approved in T.O. dtd 23.06.2023	Actual	Ref. from Accounts
Opening Gross Fixed Asset (GFA)	1917.04	1,927.82	Note 13
Addition to GFA	3.05	682.578	Note 13
Closing GFA	1920.09	2,610.39	Note 13

- 3.4.3. The opening GFA claimed in this Petition is based on the audited annual accounts prepared on the basis of final transfer scheme notification. The Commission is requested to approve GFA for FY 2020-21 as provided in the table above.
- 3.4.4. Assets amounting to Rs. 2.03 crore pertaining to SLDC have been deducted from the total assets of JUSNL valuing Rs. 1929.85 Crores. Hence, the net assets of JUSNL after segregation of SLDC assets are Rs. 1927.82 Crores.

### 3.5. Operation and Maintenance Expenses

- 3.5.1. The Operation and Maintenance (O&M) costs of the licensee include the following;
- Employee Expenses (EE)
  - Administration and General Expenses (A&G)
  - Repair and Maintenance expenses (R&M)
- 3.5.2. The O&M costs are mainly driven by the length of lines and number of Sub Stations. Employee costs constitute a major portion of the O&M expenses and the expenses include salaries of the staff, payments related to surrender leave, various medical allowances, leave travel allowances and other allowances.
- 3.5.3. The JSERC (Terms and Conditions for Determination of Transmission Tariff) Regulations, 2015 define O&M expenses as follows.

**“2.1 (33) “Operation and Maintenance Expenses” or “O&M Expenses”** means the expenditure incurred on operation and maintenance of the project, or part thereof, and includes the expenditure on manpower, repairs, spares, consumables, insurance and overheads;”

### Employee Expense

- 3.5.4. The employee expenses further primarily include costs towards salaries, Dearness Allowances, bonus, staff welfare and medical benefits, leave travel and earned leave encashment, and the terminal benefits in the form of pension, gratuity etc. The actual employee expenses as per the audited accounts for FY 2020-21 is shown below:

**Table 6 Employee Expenses for FY 2020-21**

*All figures are in Rs. Crore*

Sl. No.	Particulars	Approved in T.O. dtd. 23.06.2023	Actual for FY 2020-21	Ref. from Accounts
1	Employee Expense without Terminal Benefits	41.34	59.41	Note 23
2	Terminal Benefits	5.33	5.20	Note 23
	Total	46.67	64.61	Note 23

- 3.5.5. The Petitioner has claimed the employee expenses as per the audited accounts for FY 2020-21. The actual employee expense for FY 2020-21 is Rs. 64.61 Crore including the terminal benefits which is high in comparison to Rs. 46.67 Crore as approved by the Hon'ble Commission in its Tariff Order dated 23.06.2023. It is also submitted that the employee expenses of SLDC amounting to Rs. 3.19 crores have been deducted from the total employee expenses of Rs. 67.80 Crore to arrive at the net employee expenses of Rs. 64.61 Crores. The major reason for such exceptional increase is due to the following:

- a. Revision of Pay structure of the employees of JUSNL with effect from 01.01.2016:

Govt. of Jharkhand vide its Resolution No. 11/07 (Ve, Aa)- 01/2016-217/F dated 18.01.2017 of Additional Chief Secretary, Planning-cum-Finance Department (Finance Division), Govt. of Jharkhand has issued Order regarding the revision of pay structure for the State Govt. employees with effect from 01.01.2016. Accordingly, same was also adopted for the employees of JUSNL vide notification no 1848/Nigam HQ, Ranchi dated 10.07.2017 and by way of this the salaries and terminal benefits of the employees of JUSNL was revised w.e.f. 01.01.2016 retrospectively. The arrear for the period from 01.01.2016 to 31.03.2017 was paid during FY 2017-18.

- b. Recruitment drives conducted by JUSNL:

JUSNL conducted recruitment drives for filling of the vacant positions at various levels vide JUVNL Employment Notification No. 03/2016 and 04/2016. The new recruits are also entitled to the revised pay structure as per the notification of JUVNL vide notification no. 1848/Nigam HQ, Ranchi dated 10.07.2017. The addition of new employees has also contributed for the increase in employee expenses during FY 2020-21 which may further

increase after all the vacant positions are fulfilled as per sanctioned strength.

From the above it may be inferred that the increase in employee expense was due to change in pay structure and addition of new employees which was not under the control of JUSNL. Therefore, the Hon'ble Commission is requested to allow employee expense as per actual thereby invoking Clause No. 7.36 which provides that the Hon'ble Commission shall consider any variation in Employee Expense due to changes recommended by the Pay Commission and Clause No. 14.6 which provides that the Commission may adopt a procedure, which is at variance with any of the provisions of the notified Regulations. The relevant extract of the said Regulations is provided below:

*"Note 2: Any variation due to changes recommended by the Pay Commission etc will be considered separately by the Commission."*

...

***"Saving of Inherent Powers of the Commission"***

*14.6 Nothing contained in these Regulations shall limit or otherwise affect the inherent powers of the Commission from adopting a procedure, which is at variance with any of the provisions of these Regulations, if the Commission, in view of the special circumstances of the matter or class of matters and for reasons to be recorded in writing, deems it necessary or expedient to depart from the procedure specified in these Regulations."*

- 3.5.6. The Hon'ble Commission is therefore requested to approve the employee expense of Rs. 64.61 Crore as per the audited annual accounts.

**Administrative & General Expense**

- 3.5.7. Administration and General expenses mainly comprise costs towards rent charges, telephone and other communication expenses, professional charges, conveyance and travelling allowances and other debits. The A&G expenses incurred in FY 2020-21 is shown below:

**Table 7 Administrative & General (A&G) Expenses for FY 2020-21**

*All figures are in Rs. Crore*

Particulars	Approved in T.O. dtd. 23.06.2023	Actual for FY 2020-21	Ref. from Accounts
A&G Expenses	8.47	9.24	Note 25

- 3.5.8. The Petitioner has claimed the A&G expenses as per the audited accounts for FY 2020-21. The major contribution to the A&G expense is from miscellaneous expenses of Rs. 5.82 Crore. It is also submitted that the A&G expenses of SLDC amounting to Rs. 1.01 crores have been deducted from the total A&G expenses of Rs. 10.25 Crore to arrive at the net A&G expenses of Rs. 9.24 Crores.

**Repairs and Maintenance (R&M) Expense:**

- 3.5.9. It is submitted that the repairs and maintenance expenses include procurement expenses for various spares used for maintenance purposes as well as labour charges for repairs.
- 3.5.10. The Hon'ble Commission in its Business Plan Order has approved R&M expenses based on k-Factor of 2.23% which was applied on opening GFA (Rs. 1917.04 Crore) assumed at that time for FY 2020-21.
- 3.5.11. It is further submitted that the actual opening GFA as per actual audited accounts of FY 2020-21 is Rs. 1927.82 Crore.
- 3.5.12. The R&M expenses primarily include costs related to repair of different class of fixed assets etc. Accordingly, R&M expense has been claimed as per actual in line with the audited accounts for FY 2020-21 as provided below:

**Table 8 Repair & Maintenance (R&M) Expenses for FY 2020-21***All figures are in Rs. Crore*

Particulars	Approved in T.O. dtd. 23.06.2023	Actual for FY 2020-21	Ref. from Accounts
Opening GFA	1917.04	1,927.82	Note 13
"K" Factor	2.23%		
R&M Expense	42.75	29.52	Note 25

- 3.5.13. The Commission is therefore requested to kindly approve Rs. 29.52 Crore as repair and maintenance expenses for FY 2020-21 which is less than that approved by the Hon'ble Commission in the Tariff Order dated 23.06.2023. It is also submitted that the R&M expenses of SLDC amounting to Rs. 0.33 Crores have been deducted from the total R&M expenses of Rs. 29.85 Crore to arrive at the net R&M expenses of Rs. 29.52 Crores.

**Gist of Operation and Maintenance Expense:**

- 3.5.14. The following table captures the total O&M expenses incurred by the Petitioner in the FY 2020-21: -

**Table 9 Operation & Maintenance (O&M) Expenses for FY 2020-21***All figures are in Rs. Crore*

Particulars	Approved in T.O. dtd. 23.06.2023	Actual for FY 2020-21
Employee Expense	46.67	64.61
A&G Expense	8.47	9.24
R&M Expense	42.75	29.52
Total O&M Expense	97.89	103.37

\* Excludes the O&amp;M expenses of SLDC.

3.5.15. The Hon'ble Commission is therefore requested to approve the above O&M expenses for FY 2020-21.

### 3.6. Depreciation

3.6.1. The Hon'ble Commission has notified the rates for asset-wise depreciation in the JSERC Transmission Tariff Regulations, 2015. Same has been considered for calculation of depreciation for the year.

3.6.2. Further, in Regulations 7.25 to 7.30 of the JSERC Transmission Tariff Regulations, 2015 the method for calculation of the Depreciation on GFA is provided and is extracted below:

***“Depreciation***

*7.25 Depreciation shall be calculated for each year of the Tariff period, on the amount of Capital Cost of the assets admitted by the Commission; Provided that depreciation shall not be allowed on assets funded by any capital subsidy / grant:*

*7.26 The salvage value of the asset shall be considered as 10% and depreciation shall be allowed up to maximum of 90% of the capital cost of the asset.*

*7.27 Land other than land held under lease shall not be a depreciable asset and its cost shall be excluded from the capital cost while computing depreciable value of the asset...”*

3.6.3. The Petitioner has calculated depreciation in annual accounts based on the above-mentioned provisions.

3.6.4. The following table shows the detailed calculation of depreciation claimed by the Petitioner.

**Table 10 Calculation of Depreciation Expenses for FY 2020-21**

*All figures are in Rs. Crore*

Particulars	Gross Fixed Assets			Depreciation
	At Beginning of Year	Additions/ Disposals during the year	At End of Year	Depreciation during the year
Land and land rights	7.93	0.00	7.93	0.00
Building	12.18	1.29	13.46	0.54
Plant and Machinery	1185.25	282.96	1468.22	74.93
Lines and Cable Network	714.13	396.56	1110.69	62.16
Vehicles	0.57	0.15	0.72	0.03
Furniture and Fixture	1.30	0.11	1.41	0.09
Office Equipment	1.63	0.18	1.81	0.11
Spare Units/Service Units	0.21	0.00	0.21	0.00
Others Civil Works	4.62	1.33	5.95	0.34
Total	1927.82	682.58	2610.39	138.20

- 3.6.5. The following table shows the depreciation claimed by the Petitioner against that approved by the Hon'ble Commission in last Tariff Order.

**Table 11 Depreciation Expenses for FY 2020-21**

*All figures are in Rs. Crore*

Particulars	Approved in T.O. dtd. 23.06.2023	Actual for FY 2020-21	Ref. from Accounts
Depreciation for the year	1.11	138.20	Note 13
Less: Depreciation on asset made from consumer contribution	0.25	0.25	
Net Depreciation for FY 2020-21	0.86	137.95	

\* Excludes the depreciation of SLDC assets.

- 3.6.6. The depreciation expenses claimed is in line with the audited accounts for FY 2020-21. It is also submitted that the depreciation of SLDC amounting to Rs. 0.11 Crores has been deducted from the total depreciation of Rs. 138.06 Crore to arrive at the net depreciation of Rs. 137.95 Crores.
- 3.6.7. The Petitioner therefore requests the Hon'ble Commission to kindly approve the claimed depreciation expense for FY 2020-21.

### 3.7. Interest and Loan capital

- 3.7.1. Interest on loans includes loans against schemes, central and state government loans, Bank Overdrafts, public bonds etc.
- 3.7.2. JUSNL has been funding its capital expenditure majorly from State Government loan. In this regard, loan balance has substantially increased with increase in capital expenditure and capitalization for each year. JUSNL has claimed interest on loan of Rs. 503.26 Crore against that approved amount of Rs. 46.54 Crore. The following table shows the interest on loan claimed by JUSNL against that approved in the Order:

**Table 12 Interest on Loan claimed for FY 2020-21**

*All figures are in Rs. Crore*

Particulars	Approved in T.O. dtd. 23.06.2023	Actual for FY 2020-21	Ref. from Accounts
Interest on Loan	46.54	503.21	Note 24

- 3.7.3. It is also submitted that the interest on group saving scheme and interest on GPF amounting to Rs. 0.05 Crore pertaining to SLDC has been deducted from the total interest amount of Rs. 503.26 Crore to arrive at the net interest charges of Rs. 503.21 Crores.



- 3.7.4. The Petitioner requests the Hon'ble Commission to kindly approve the above amount with respect to interest on loan expense for FY 2020-21.

### 3.8. Return on Equity

- 3.8.1. As per Regulation 7.11 to 7.14 of the JSERC Transmission Tariff Regulations, 2015 Return on Equity shall be calculated as follows: -

***“Return on Equity***

*7.11 Return on equity shall be computed in rupee terms, on the equity base determined in accordance with clause 7.10 of these Regulations.*

*7.12 Return on equity shall be computed on pre-tax basis at the base rate of 15.50% applicable only for those Transmission systems which meet the norms of operation specified under clause 8.3 of these Regulations to be grossed up as per clause 7.13 of these Regulations.”*

- 3.8.2. The Petitioner has considered equity base of Rs. 974.96 Crore (Rs. 972.96 Crore towards equity share capital + Rs. 2.00 Crore towards restructuring account pending adjustment) for FY 2020-21 as reflected in the annual audited accounts. The applicable return on equity has been calculated considering 15.50% rate of return as per Regulation 7.12 of JSERC Transmission Tariff Regulations, 2015. The detailed calculation of return on equity is provided below:

**Table 13 Return on Equity claimed for FY 2020-21**

*All figures are in Rs. Crore*

Sl. No.	Particulars	Approved in T.O. dtd. 23.06.2023	Claimed
1	Opening Balance of Equity	350.61	972.96
2	Additions during the year	0.00	2.00
3	Closing Balance of Equity	350.61	974.96
4	Average Equity balance	350.61	973.96
5	Rate of Return on Equity	15.50%	15.50%
6	Return on Equity	54.34	150.96

- 3.8.3. The Petitioner requests the Hon'ble Commission to approve the return of equity as provided above.

### 3.9. Interest on Working Capital

- 3.9.1. The Regulation 7.31 of the JSERC Transmission Tariff Regulations, 2015 provides methodology for calculation of normative Working Capital is as follows:

***“Working Capital***

*7.31 The Commission shall determine the Working Capital requirement containing the following components:*

- (a) Maintenance spares @ 15% of the O&M expenses specified in clauses 7.34- 7.36 of these Regulations;*  
*(b) Receivables equivalent to two months of annual fixed cost; and*

- (c) Operation and Maintenance expenses for one month  
 (d) Less: Interest on amount, if any, held as security deposits from Transmission system users.”

- 3.9.2. The Regulation 7.32 and 7.33 of the JSERC Transmission Tariff Regulations, 2015 provides methodology for calculation of interest rate for calculation of IoWC is as follows:

**“Interest on Working Capital**

**7.32 Rate of interest on working capital shall be on normative basis and shall be considered equal to the base rate of State Bank of India as on 30th September of the financial year in which the Petition is filed plus 350 basis points. At the time of true up, the interest rate shall be adjusted as per the actual rate prevailing on 1st April of the financial year for which truing up exercise has been undertaken.**

**7.33 The interest on working capital shall be payable on normative basis notwithstanding that the Transmission Licensee has not taken working capital loan from any outside agency.”**

- 3.9.3. The Petitioner would like to submit that it has arrived at the working capital requirement according to the applicable norms for Transmission function as provided in the JSERC Transmission Tariff Regulations, 2015, the calculation for which has been captured in the following table. In line with the above Regulations actual SBI base rate prevailing on 1<sup>st</sup> April, 2020 has been considered for calculation of interest on Working Capital for FY 2020-21.

**Table 14 Interest on Working Capital claimed for FY 2020-21**

*All figures are in Rs. Crore*

Sl. No.	Particulars	Approved in T.O. dtd. 23.06.2023	Claimed
1	O&M Expenses for one Month	8.16	8.61
2	15% of O&M expense as Maintenance Spares	14.68	15.51
3	2 months receivables of Annual Fixed Charges	34.38	151.15
4	Total Working capital	57.22	175.27
5	Interest rate (%)	11.65%	11.65%
6	Interest on working capital	6.67	20.42

- 3.9.4. The Hon'ble Commission is requested to kindly approve the interest on working capital loan as provided above for FY 2020-21.

### **3.10. Non-Tariff Income**

- 3.10.1. The Regulation 7.38 & 7.39 of the JSERC Transmission Tariff Regulations, 2015 provides that non-tariff income derived from disposal of assets, rent, DPS,

miscellaneous receipts from the beneficiaries to be deducted from the ARR. The relevant extract from the said Regulations is as follows:

***“Non-Tariff Income***

*7.38 All incomes being incidental to electricity business and derived by the Licensee from sources, including but not limited to profit derived from disposal of assets, rents, delayed payment surcharge, miscellaneous receipts from the Beneficiaries shall constitute Non-Tariff Income of the Licensee.*

*7.39 The amount received by the Licensee on account of Non-Tariff Income shall be deducted from the aggregate revenue requirement in calculating the net revenue requirement of such Licensee.”*

- 3.10.2. In line with the above Regulations, the Petitioner has claimed the Non-Tariff Income as per the audited annual accounts as follows:

**Table 15 Non-tariff Income for FY 2020-21**

*All figures are in Rs. Crore*

Particulars	Approved in T.O. dtd. 23.06.2023	Claimed for FY 2020-21	Ref. from Accounts
Non-Tariff Income	12.79	12.79	Note 22

- 3.10.3. The Hon'ble Commission is requested to kindly approve the non-tariff income as provided above for FY 2020-21.

### **3.11. Tax on income**

- 3.11.1. As per the Transmission Tariff regulations 2015 notified by the Hon'ble Commission, Tax on the income streams of the Transmission Licensee shall not be recovered from the Beneficiaries. Therefore, same has not been considered as part of ARR in this Petition.

### **3.12. Incentive For Target Availability**

- 3.12.1. JUSNL has claimed incentive on Transmission Availability Factor (TAF) for FY 2020-21 as per Regulation 8.3 of JSERC MYT Regulations, 2015.

- 3.12.2. The incentive computation is as per the Formula prescribed in Regulation 8.3 as follows:

*“8.3 Normative Annual Transmission System Availability factor (NATSAF): for recovery of full transmission charges shall be as under:*

*For recovery of Annual Fixed Charges:*

*AC system: 98.0% for the tariff period FY 2017-2021.*

*For incentive consideration:*

*AC system: 98.50% for the tariff period FY 2017-2021*

*Provided that no incentive shall be payable for availability beyond 99.75%”*

Further, Regulation 8.7 regarding recovery of fixed charges is provided as below:

*“8.7 The transmission charge (inclusive of incentive) payable for a calendar month for a Transmission System or part thereof shall be*

*a. For TAFM < 98%*

$$AFC \times (NDM/NDY) \times (TAFM/98\%)$$

*b. For TAFM: 98% < TAFM < 98.5%*

$$AFC \times (NDM/NDY) \times (1)$$

*c. For TAFM: 98.5% < TAFM < 99.75%*

$$AFC \times (NDM/NDY) \times (TAFM/98.5\%)$$

*d. For TAFM > 99.75%*

$$AFC \times (NDM/NDY) \times (99.75\%/98.5\%)$$

*Where,*

*AFC = Annual fixed cost specified for the year, in Rupees;*

*NDM = Number of days in the month;*

*NDY = Number of days in the year; and*

*TAFM = Transmission system availability factor for the month, in Percent, computed in accordance with Appendix –III to these Regulations.”*

3.12.3. Thus, the actual TAF achieved by JUSNL in FY 2020-21 works out to 98.91%. The details of month wise Transmission System Availability is attached as **Annexure-D** with this petition.

3.12.4. For computation of Incentive on account of achieving higher than target TAF in FY 2020-21, JUSNL has considered target availability of 98.50% as specified in Regulation 8.3 of JSERC MYT Regulations as shown in Table below:

**Table 16 Incentive for Target Availability for FY 2020-21**

Month	Availability	No. of days	Fixed Cost (Rs. Crore)
Apr-20	99.08%	30	75.72
May-20	98.60%	31	77.87
Jun-20	98.84%	30	75.54
Jul-20	98.71%	31	77.96
Aug-20	98.60%	31	77.87
Sep-20	98.50%	30	75.28
Oct-20	99.04%	31	78.22
Nov-20	99.21%	30	75.82
Dec-20	99.03%	31	78.21
Jan-21	98.89%	31	78.10
Feb-21	99.18%	28	70.75

Month	Availability	No. of days	Fixed Cost (Rs. Crore)
Mar-21	99.23%	31	78.37
<b>Total</b>			<b>919.69</b>

**Table 17 Net Incentive for Target Availability for FY 2020-21***All figures are in Rs. Crore*

Particulars	AFC
AFC	915.91
AFC with Incentive	919.69
<b>Net Incentive</b>	<b>3.78</b>

3.12.5. The Hon'ble Commission is requested to kindly approve the incentive for target availability as provided above for FY 2020-21.

### 3.13. Revenue from Operations

3.13.1. The Petitioner has recovered transmission charge as approved by the Hon'ble Commission in its Order dated 24<sup>th</sup> February 2018. The relevant extract of the Order is extracted below:

*"6.64 The Commission approves transmission tariff of Rs 0.25 per kWh for FY 2016-17, which shall remain applicable till amended or modified or extended by an Order of this Commission."*

3.13.2. In line with the direction of the Hon'ble Commission the Petitioner has recovered transmission charge at a tariff of Rs. 0.25 per kWh wheeled through its transmission network for FY 2020-21. The units approved to be wheeled in transmission network for FY 2020-21 vis-à-vis actual units wheeled is provided below:

**Table 18 Units wheeled during FY 2020-21***All figures are in MUs*

Particulars	Approved in T.O. dtd. 26.03.2023	Energy delivered for FY 2020-21
Units Wheeled	-	8730.30

*\*\*This is provisional data based on input of SLDC. The same will be finalized once the Samast scheme will be implemented.*

3.13.3. The Petitioner has claimed the revenue from existing tariff as per actual provided in Note 21 of the Audited Accounts for FY 2020-21.

**Table 19 Revenue from Operation for FY 2020-21***All figures are in Rs. Crore*

Particulars	Approved in T.O. dtd. 26.06.2023	Claimed for FY 2020-21	Ref. from Accounts
Revenue from Existing Tariff	229.58	229.58	Note 21

3.13.4. The Hon'ble Commission is therefore requested to kindly approve the above revenue from operations.

### 3.14. Net ARR and revenue gap for FY 2020-21

3.14.1. The Gross ARR for the transmission company consists of the interest and finance costs, return on equity, O&M costs, depreciation and interest on working capital. These costs are then adjusted for Non-Tariff Income and other Income. Following is the total revenue requirement for FY 2020-21 against allocation from total approved revenue requirement by the Hon'ble Commission for FY 2020-21.

**Table 20 Aggregate Revenue Requirement for FY 2020-21***All figures are in Rs. Crore*

Sl. No.	Particulars	Approved in T.O. dtd. 23.06.2023	Claimed for FY 2020-21
1	Operation and Maintenance Expense	97.89	103.37
i	<i>Employee Expense</i>	46.67	64.61
ii	<i>A&amp;G Expense</i>	8.47	9.24
iii	<i>R&amp;M Expense</i>	42.75	29.52
2	Depreciation	0.86	137.95
3	Interest and Finance Charge	46.54	503.21
4	Return on Equity	54.34	150.96
5	Interest on Working Capital	6.67	20.42
6	Incentive for Target Availability	0.00	3.78
7	Less: Non-tariff Income	12.79	12.79
8	Net Aggregate Revenue Requirement	193.51	906.91
9	Revenue from Operations	229.58	229.58
10	Revenue Gap / (Surplus)	-36.07	677.33

3.14.2. In the light of the above explanation the Petitioner would request the Hon'ble Commission to approve the above towards net gap in FY 2020-21 and also allow appropriate tariff hike to meet the annual revenue requirement.

## 4. Revised True up For FY 2021-22

### 4.1. Preamble

- 4.1.1. This section outlines the actual performance of the JUSNL during the FY 2021-22.
- 4.1.2. In line with the provisions of the JSERC (Terms and Conditions for Determination of Transmission Tariff) Regulations, 2020, the Petitioner hereby submits the True up petition for FY 2021-22. The expenses of the Petitioner presented in the True up are based on the audited books of accounts for the FY 2021-22. The ARR so arrived has been compared with that approved by the Hon'ble Commission vide its Business plan and ARR for MYT Period FY 2021-22 to FY 2025-26 Order dated 23<sup>rd</sup> June, 2023. Accordingly, the revised Aggregate Revenue Requirement, revenue and gap for FY 2021-22 have been given in the subsequent sub-sections of this chapter.

### 4.2. Previous Order

- 4.2.1. JUSNL submits that the final transfer scheme was notified on 20<sup>th</sup> November 2015 vide Government of Jharkhand notification no. 2917 wherein separate balance sheet was notified by the Government of Jharkhand for all the four entities namely JBVNL, JUSNL, JUUNL and JUVNL.
- 4.2.2. The Hon'ble Commission has issued Business Plan Order dated 23<sup>rd</sup> June, 2023 wherein it has approved ARR for FY 2021-22. JUSNL in the instant Petition is filing for True-up for FY 2021-22.
- 4.2.3. The audited annual account of JUSNL for FY 2021-22 and audited Trial Balance of SLDC for FY 2021-22 are attached as **Annexure E**. It may be noted that the annual account for FY 2021-22 has been audited by Comptroller and Auditor General of India (CAG). The certification and audit report of CAG is attached as **Annexure F**.

### 4.3. Capital Expenditure, Capitalization and CWIP

- 4.3.1. JSERC Transmission Tariff Regulations, 2020 provides for review of actual capital expenditure as follows:

*"7.1 The Transmission Licensee shall submit along with the application for truing up, details of capital expenditure and additional capitalization, transformation and transmission losses, sources of financing, depreciation, operation and maintenance expenditure, actual loan portfolio with the interest paid, Return on equity, variation in working capital along with other components of ARR, for each year of the Control Period, on the basis of annual Audited Accounts as per the Timelines stipulated in the Section A 24."*

- 4.3.2. In pursuant to the above Regulations, the Hon'ble Commission shall review the actual capitalization for true up vis-à-vis approved capitalization and accordingly provide for expenses such as depreciation, interest on long term loan and return on equity.
- 4.3.3. Accordingly, the Petitioner has considered the actual capital expenditure and capitalization that has incurred in the books of accounts for True up of expenses for FY 2021-22.
- 4.3.4. The opening and closing balances of the capital expenditure, capitalization, CWIP are considered as per the audited annual accounts for FY 2021-22.
- 4.3.5. The following table shows the capital expenditure and capitalization that has incurred during the year against the approved capital expenditure and capitalization.

**Table 21 Capital Expenditure, CWIP and Capitalization for FY 2021-22***All figures are in Rs. Crore*

Particulars	Opening	Addition	Closing
Capital Expenditure during the year	5,848.71	755.40	6,604.11
Capitalization	3,644.61	87.62	3,732.23
<b>Capital Work in Progress</b>	2,204.10	667.79	2,871.88
<i>Asset Capital Work in Progress</i>	1,767.33	556.56	2,323.89
<i>Capital Advances</i>	410.31	110.68	520.99
<i>Advance to Suppliers</i>	0.00	0.00	0.00
<i>Stock of Materials at Site</i>	26.45	0.54	27.00

- 4.3.6. Assets amounting to Rs. 2.03 crore pertaining to SLDC have been deducted from the total assets of JUSNL valuing Rs. 3646.64 Crores. Hence, the net assets of JUSNL after segregation of SLDC assets are Rs. 3644.61 Crores.

**Table 22 Capital Expenditure, CWIP and Capitalization for FY 2021-22 (Approved Vs. Claimed)***All figures are in Rs. Crore*

Particulars	Approved	Actual
Capital Expenditure during the year	394.00	755.40
Asset Capitalised during the year	103.26	87.62

- 4.3.7. In accordance with the same, it is submitted that JUSNL has incurred actual capital expenditure of Rs. 755.40 Crore and actual capitalization of Rs. 87.62 Crore in FY 2021-22. The Hon'ble Commission is therefore requested to kindly approve the same in line with the audited annual accounts of JUSNL for the FY 2021-22.
- 4.3.8. The details of capitalization done in FY 2021-22 by JUSNL have been attached as **Annexure G** which also includes schemes capitalized during prior period (Rs. 1034.21 Cr.) with this Petition.



#### 4.4. Gross Fixed Asset

- 4.4.1. The Commission in its Business Plan Order dated 23<sup>rd</sup> June, 2023, had determined the opening balance of GFA for FY 2021-22 based on the closing balance approved for FY 2020-21 in the same Order.
- 4.4.2. JUSNL has now claimed opening GFA as per the audited annual accounts for FY 2021-22. The following table shows the opening and closing balance of GFA as per audited annual accounts against that approved by JSERC in last Tariff Order.

**Table 23 Gross Fixed Asset for FY 2021-22**

*All figures are in Rs. Crore*

Particulars	Approved in T.O. dtd 23.06.2023	Actual	Ref. from Accounts
Opening Gross Fixed Asset (GFA)	1920.09	3,644.61	Note 13A
Addition to GFA	103.26	87.6167	Note 13A
Closing GFA	2023.35	3,732.23	Note 13A

- 4.4.3. The JUSNL would like to submit that during the FY 2021-22, the JUSNL performed a reconciliation of assets under use and found that certain assets were in use from earlier period but were not capitalized in books of accounts which mainly included work performed by PGCIL. Accordingly, the opening balances were reinstated having an impact on PPE, depreciation, CWIP, Advances, Creditors and retained earnings. This has resulted in variation between the closing balance of GFA for the FY 2020-21 and the opening balance of GFA for the FY 2021-22. The closing balance of GFA for FY 2020-21 was Rs. 2612.42 Crore and the opening balance of GFA for FY 2021-22 was Rs. 3646.64 Crore. The difference between the closing balance of GFA for FY 2020-21 and opening balance of GFA for FY 2021-22 is Rs. 1034.21 Crore which pertains to schemes capitalized during prior period. The details of these schemes are provided in **Annexure H**.
- 4.4.4. Assets amounting to Rs. 2.03 crore pertaining to SLDC have been deducted from the total assets of JUSNL valuing Rs. 3646.64 Crores. Hence, the net assets of JUSNL after segregation of SLDC assets are Rs. 3644.61 Crores.
- 4.4.5. The Commission is requested to approve GFA for FY 2021-22 as provided in the table above.

#### 4.5. Operation and Maintenance Expenses

- 4.5.1. The Operation and Maintenance (O&M) costs of the licensee include the following;
- Employee Expenses (EE)
  - Administration and General Expenses (A&G)
  - Repair and Maintenance expenses (R&M)

4.5.2. The O&M costs are mainly driven by the length of lines and number of Sub Stations. Employee costs constitute a major portion of the O&M expenses and the expenses include salaries of the staff, payments related to surrender leave, various medical allowances, leave travel allowances and other allowances.

4.5.3. The JSERC (Terms and Conditions for Determination of Transmission Tariff) Regulations, 2020 define O&M expenses as follows.

*“3.138. ‘Operation and Maintenance Expenses’ or ‘O&M Expenses’ means the expenditure incurred for operation and maintenance of the project, or part thereof, and includes the expenditure on manpower, repairs and maintenance, spares, consumables, insurance and overheads;”*

#### Employee Expense

4.5.4. The employee expenses further primarily include costs towards salaries, Dearness Allowances, bonus, staff welfare and medical benefits, leave travel and earned leave encashment, and the terminal benefits in the form of pension, gratuity etc. The actual employee expenses as per the audited accounts for FY 2021-22 is shown below:

**Table 24 Employee Expenses for FY 2021-22**

*All figures are in Rs. Crore*

Sl. No.	Particulars	Approved in T.O. dtd. 23.06.2023	Actual for FY 2021-22	Ref. from Accounts
1	Employee Expense without Terminal Benefits	43.86	70.36	Note 23
2	Terminal Benefits	5.33	14.88	Note 23
	Total	49.19	85.24	Note 23

4.5.5. The Petitioner has claimed the employee expenses as per the audited accounts for FY 2021-22. The actual employee expense for FY 2021-22 is Rs. 85.24 Crore including the terminal benefits which is high in comparison to Rs. 49.19 Crore as approved by the Hon'ble Commission in its MYT Tariff Order dated 23.06.2023. It is also submitted that the employee expenses of SLDC amounting to Rs. 5.24 crores have been deducted from the total employee expenses of Rs. 90.48 Crore to arrive at the net employee expenses of Rs. 85.24 Crores. The major reason for such exceptional increase is due to the following:

a. Revision of Pay structure of the employees of JUSNL with effect from 01.01.2016:

Govt. of Jharkhand vide its Resolution No. 11/07 (Ve, Aa)- 01/2016-217/F dated 18.01.2017 of Additional Chief Secretary, Planning-cum-Finance Department (Finance Division), Govt. of Jharkhand has issued Order regarding the revision of pay structure for the State Govt. employees with effect from 01.01.2016. Accordingly, same was also adopted for the employees of JUSNL vide notification no 1848/Nigam HQ, Ranchi dated

10.07.2017 and by way of this the salaries and terminal benefits of the employees of JUSNL was revised w.e.f. 01.01.2016 retrospectively. The arrear for the period from 01.01.2016 to 31.03.2017 was paid during FY 2017-18.

b. Recruitment drives conducted by JUSNL:

JUSNL conducted recruitment drives for filling of the vacant positions at various levels vide JUVNL Employment Notification No. 03/2016 and 04/2016. The new recruits are also entitled to the revised pay structure as per the notification of JUVNL vide notification no. 1848/Nigam HQ, Ranchi dated 10.07.2017. The addition of new employees has also contributed for the increase in employee expenses during FY 2020-21 which may further increase after all the vacant positions are fulfilled as per sanctioned strength.

From the above it may be inferred that the increase in employee expense was due to change in pay structure and addition of new employees which was not under the control of JUSNL. Therefore, the Hon'ble Commission is requested to allow employee expense as per actual thereby invoking Clause No. 10.21 which provides that the Hon'ble Commission shall consider any variation in Employee Expense due to changes recommended by the Pay Commission and Clause No. 20.1 which provides that the Commission may adopt a procedure, which is at variance with any of the provisions of the notified Regulations. The relevant extract of the said Regulations is provided below:

*"Note 2: Any variation due to changes recommended by the Pay Commission or wage revision agreement, etc., will be considered separately by the Commission;"*

...

***"Saving of Inherent Powers of the Commission***

*20.1 Nothing contained in these Regulations shall limit or otherwise affect the inherent powers of the Commission from adopting a procedure, which is at variance with any of the provisions of these Regulations, if the Commission, in view of the special circumstances of the matter or class of matters and for reasons to be recorded in writing, deems it necessary or expedient to depart from the procedure specified in these Regulations."*

- 4.5.6. The Hon'ble Commission is therefore requested to approve the employee expense of Rs. 85.24 Crore as per the audited annual accounts.

**Administrative & General Expense**

- 4.5.7. Administration and General expenses mainly comprise costs towards rent charges, telephone and other communication expenses, professional charges, conveyance and travelling allowances and other debits. The A&G expenses incurred in FY 2021-22 is shown below:

**Table 25 Administrative & General (A&G) Expenses for FY 2021-22***All figures are in Rs. Crore*

Particulars	Approved in T.O. dtd. 23.06.2023	Actual for FY 2021-22	Ref. from Accounts
A&G Expenses	8.98	11.33	Note 25

4.5.8. The Petitioner has claimed the A&G expenses as per the audited accounts for FY 2021-22. The major contribution to the A&G expense is from miscellaneous expenses of Rs. 6.69 Crore.

4.5.9. It is also submitted that the A&G expenses of SLDC amounting to Rs. 0.10 crores have been deducted from the total A&G expenses of Rs. 11.43 Crore to arrive at the net A&G expenses of Rs. 11.33 Crores.

#### **Repairs and Maintenance (R&M) Expense:**

4.5.10. It is submitted that the repairs and maintenance expenses include procurement expenses for various spares used for maintenance purposes as well as labour charges for repairs.

4.5.11. The Hon'ble Commission in its Business Plan Order has approved R&M expenses based on k-Factor of 2.23% which was applied on opening GFA (Rs. 1920.09 Crore) assumed at that time for FY 2021-22.

4.5.12. It is further submitted that the actual opening GFA as per actual audited accounts of FY 2021-22 is Rs. 3644.61 Crore which is much higher than that approved in Business Plan Order dated 23<sup>rd</sup> June, 2023.

4.5.13. The R&M expenses primarily include costs related to repair of different class of fixed assets etc. Accordingly, R&M expense has been claimed as per actual in line with the audited accounts for FY 2021-22 as provided below:

**Table 26 Repair & Maintenance (R&M) Expenses for FY 2021-22***All figures are in Rs. Crore*

Particulars	Approved in T.O. dtd. 23.06.2023	Actual for FY 2021-22	Ref. from Accounts
Opening GFA	1920.09	3644.61	Note 13A
"K" Factor	2.23%		
R&M Expense	45.42	24.27	Note 25

4.5.14. The Commission is therefore requested to kindly approve Rs. 24.27 Crore as repair and maintenance expenses for FY 2021-22 which is less than that approved by the Hon'ble Commission in the Business Plan Order dated 23<sup>rd</sup> June, 2023.

- 4.5.15. It is also submitted that the R&M expenses of SLDC amounting to Rs. 0.14 crores have been deducted from the total R&M expenses of Rs. 24.42 Crore to arrive at the net R&M expenses of Rs. 24.27 Crores.

#### **Gist of Operation and Maintenance Expense:**

- 4.5.16. The following table captures the total O&M expenses incurred by the Petitioner in the FY 2021-22: -

**Table 27 Operation & Maintenance (O&M) Expenses for FY 2021-22**

*All figures are in Rs. Crore*

Particulars	Approved in T.O. dtd. 23.06.2023	Actual for FY 2021-22
Employee Expense	49.19	85.24
A&G Expense	8.98	11.33
R&M Expense	45.42	24.27
Total O&M Expense	103.59	120.84

*\* Excludes the O&M expenses of SLDC.*

- 4.5.17. The Hon'ble Commission is therefore requested to approve the above O&M expenses for FY 2021-22.

#### **4.6. Depreciation**

- 4.6.1. The Hon'ble Commission has notified the rates for asset-wise depreciation in the JSERC Transmission Tariff Regulations, 2020. Same has been considered for calculation of depreciation for the year.
- 4.6.2. Further, in Regulations 10.37 to 10.43 of the JSERC Transmission Tariff Regulations, 2020 the method for calculation of the Depreciation on GFA is provided and is extracted below:

##### ***"Depreciation***

*10.37 Depreciation shall be calculated for each year of the Tariff period, on the amount of Capital Cost of the assets admitted by the Commission: Provided that depreciation shall not be allowed on assets funded by contribution from Beneficiary, Distribution system user, Capital Subsidy & Grants. Provision for replacement of such assets shall be made in the Capital Investment Plan.*

*10.38 Depreciation for each year shall be determined based on the methodology as specified in these Regulations along with the rates and other terms specified in these Regulations....."*

- 4.6.3. The Petitioner has calculated depreciation in annual accounts based on the above-mentioned provisions. However, the depreciation expense is less than that approved by the Hon'ble Commission in the Business Plan Order.
- 4.6.4. The following table shows the detailed calculation of depreciation claimed by the Petitioner.

**Table 28 Calculation of Depreciation Expenses for FY 2021-22***All figures are in Rs. Crore*

Particulars	Gross Fixed Assets			Depreciation
	At Beginning of Year	Additions/ Disposals during the year	At End of Year	Depreciation during the year
Land and land rights	7.93	0.00	7.93	0.00
Building	13.46	0.00	13.46	0.45
Plant and Machinery	2010.78	40.66	2051.43	107.33
Lines and Cable Network	1602.28	46.66	1648.94	85.10
Vehicles	0.72	0.00	0.72	0.05
Furniture and Fixture	1.41	0.04	1.45	0.09
Office Equipment	1.81	0.26	2.07	0.13
Spare Units/Service Units	0.21	0.00	0.21	0.00
Others Civil Works	5.99	0.00	5.99	0.20
Total	3644.59	87.62	3732.21	193.35

4.6.5. The following table shows the depreciation claimed by the Petitioner against that approved by the Hon'ble Commission in last Tariff Order.

**Table 29 Depreciation Expenses for FY 2021-22***All figures are in Rs. Crore*

Particulars	Approved in T.O. dtd. 23.06.2023	Actual for FY 2021-22	Ref. from Accounts
Depreciation for the year	111.67	193.35	Note 13A

\* Excludes the depreciation of SLDC assets.

4.6.6. The depreciation expenses claimed is in line with the audited accounts for FY 2021-22. It is also submitted that the depreciation of SLDC amounting to Rs. 0.11 crores has been deducted from the total depreciation of Rs. 193.46 Crore to arrive at the net depreciation of Rs. 193.35 Crores.

4.6.7. The Petitioner therefore requests the Hon'ble Commission to kindly approve the claimed depreciation expense for FY 2021-22.

#### 4.7. Interest and Loan capital

4.7.1. Interest on loans includes loans against schemes, central and state government loans, Bank Overdrafts, public bonds etc.

4.7.2. JUSNL has been funding its capital expenditure majorly from State Government loan. In this regard, loan balance has substantially increased with increase in capital expenditure and capitalization for each year. JUSNL has claimed interest on loan of Rs. 439.00 Crore against that approved amount of Rs. 83.48

Crore. The following table shows the interest on loan claimed by JUSNL against that approved in the Order:

**Table 30 Interest on Loan claimed for FY 2021-22**

*All figures are in Rs. Crore*

Particulars	Approved in T.O. dtd. 23.06.2023	Actual for FY 2021-22	Ref. from Accounts
Interest on Loan	83.48	439.00	Note 24

*\*INR 503.26 Crore includes INR 439.0015 Crore towards interest on State Govt. Loan and INR 0.0003 Crore towards interest on Security deposit from Staff*

- 4.7.3. The Petitioner requests the Hon'ble Commission to kindly approve the above amount with respect to interest on loan expense for FY 2021-22.

#### 4.8. Return on Equity

- 4.8.1. As per Regulation 10.26 to 10.27 of the JSERC Transmission Tariff Regulations, 2020 Return on Equity shall be calculated as follows: -

***“Return on Equity***

*10.26 The rate of return on equity shall be 14.00% (post-tax) for the Control Period.*

*10.27 Return on equity for each year shall be allowed on equity employed in assets in use considering the following:*

- a) Equity employed in accordance with Clause 10.23 of these Regulations on assets (in use) capitalised as on the beginning of the year; and*  
*b) 50% of the equity projected to be employed in accordance with Clause 10.24 of these Regulations on assets (in use) commissioned during the year.”*

- 4.8.2. The Petitioner has considered equity base of Rs. 1600.96 Crore (Rs. 1598.96 Crore towards equity share capital + Rs. 2.00 Crore towards restructuring account pending adjustment) for FY 2021-22 as reflected in the annual unaudited accounts. The applicable return on equity has been calculated considering 14.00% rate of return as per Regulation 10.26 of JSERC Transmission Tariff Regulations, 2020. The detailed calculation of return on equity is provided below:

**Table 31 Return on Equity claimed for FY 2021-22**

*All figures are in Rs. Crore*

Sl. No.	Particulars	Approved in T.O. dtd. 23.06.2023	Claimed
1	Opening Balance of Equity	350.61	972.96
2	Additions during the year	0.00	628.00
3	Closing Balance of Equity	350.61	1600.96
4	Average Equity balance	350.61	1286.96
5	Rate of Return on Equity	14.00%	14.00%

Sl. No.	Particulars	Approved in T.O. dtd. 23.06.2023	Claimed
6	Return on Equity	49.09	180.17

- 4.8.3. The Petitioner requests the Hon'ble Commission to approve the return of equity as provided above.

#### 4.9. Interest on Working Capital

- 4.9.1. The Regulation 10.44 of the JSERC Transmission Tariff Regulations, 2020 provides methodology for calculation of normative Working Capital is as follows:

##### ***"Working Capital***

*10.44 Working Capital for the Transmission Licensee shall comprise:*

*(a) Maintenance spares @ 15% of the O&M expenses specified in Clauses 10.19- 10.21 of these Regulations;*

*(b) Receivables equivalent to 45 days of annual fixed cost;*

*(c) Operation and Maintenance expenses for one month; (d) Less: Interest on amount, if any, held as security deposits from Transmission system users."*

- 4.9.2. The Regulation 10.45 and 10.46 of the JSERC Transmission Tariff Regulations, 2020 provides methodology for calculation of interest rate for calculation of IoWC is as follows:

##### ***"Interest on Working Capital***

*10.45 Rate of interest on working capital shall be equal to the Bank Rate as on September 30 of the financial year in which the MYT Petition is filed plus 350 basis points. At the time of true up, the interest rate shall be adjusted as per the actual rate prevailing on April 01 of the financial year for which truing up exercise has been undertaken.*

*10.46 The interest on working capital shall be payable on normative basis notwithstanding that the Transmission Licensee has not taken working capital loan from any outside agency."*

- 4.9.3. The Petitioner would like to submit that it has arrived at the working capital requirement according to the applicable norms for Transmission function as provided in the JSERC Transmission Tariff Regulations, 2020, the calculation for which has been captured in the following table. In line with the above Regulations actual MCLR rate prevailing on 1<sup>st</sup> April, 2023 i.e. 7.00% plus 350 basis points has been considered for calculation of interest on Working Capital for the FY 2021-22.



**Table 32 Interest on Working Capital claimed for FY 2021-22***All figures are in Rs. Crore*

Sl. No.	Particulars	Approved in T.O. dtd. 23.06.2023	Claimed
1	O&M Expenses for one Month	8.63	10.07
2	15% of O&M expense as Maintenance Spares	15.54	18.13
3	Receivables equivalent to 45 days of Annual Fixed Charges	42.17	116.53
4	Total Working capital	66.34	144.73
5	Interest rate (%)	10.50%	10.50%
6	Interest on working capital	6.97	15.20

4.9.4. The Hon'ble Commission is requested to kindly approve the interest on working capital loan as provided above for FY 2021-22.

#### 4.10. Non-Tariff Income

4.10.1. The Regulation 10.32 of the JSERC Transmission Tariff Regulations, 2020 states as follows:

*"10.50 The Non-Tariff Income shall include:*

- a) Income from rent of land or buildings;*
- b) Income from sale of scrap;*
- c) Income from investments;*
- d) Interest accrued on advances to suppliers/contractors;*
- e) Interest income on loans / advances to employees;*
- f) Income from rental of staff quarters;*
- g) Income by rental from contractors;*
- h) Income by hire charges from contractors and others;*
- i) Income by supervision charges, etc.;*
- j) Supervision charges for capital works;*
- k) Income from advertisements;*
- l) Income from sale of tender documents;*
- m) Profit from sale of assets (i.e. difference in Sale Value and Book Value)*
- n) Any other Non-Tariff Income."*

4.10.2. In line with the above Regulations, the Petitioner has claimed the Non-Tariff Income as per the audited annual accounts as follows:

**Table 33 Non-tariff Income for FY 2021-22***All figures are in Rs. Crore*

Particulars	Approved in T.O. dtd. 23.06.2023	Claimed for FY 2021-22	Ref. from Accounts
Non-Tariff Income	12.79	7.59	Note 22

- 4.10.3. The Hon'ble Commission is requested to kindly approve the non-tariff income as provided above for FY 2021-22.

#### 4.11. Tax on income

- 4.11.1. As per the Transmission Tariff regulations 2020 notified by the Hon'ble Commission, the following has been stated:

*"10.47 Tax on income, if any, on the Licensed business of the Transmission Licensee shall be limited to tax on the allowed return on equity.*

*10.48 The income tax actually payable or paid limited to the tax on allowed return on equity shall be included in the ARR while truing up. The actual assessment of income tax should take into account benefits of tax holiday, and the credit for carry forward losses applicable as per the provisions of the Income Tax Act, 1961 and its amendments thereof shall be passed on to the consumers. Tax on the other income streams of the Transmission Licensee shall not be recovered from the Beneficiaries."*

The JUSNL has not paid any income tax during the FY 2021-22. Therefore, same has not been considered as part of ARR in this Petition.

#### 4.12. Incentive for Target Availability

- 4.12.1. JUSNL has claimed incentive on Transmission Availability Factor (TAF) for FY 2021-22 as per Regulation 10.55 of JSERC MYT Regulations, 2020.

- 4.12.2. The incentive computation is as per the Formula prescribed in Regulation 10.55 as follows:

*"For incentive consideration:*

*AC system: 98.50% for the Control Period FY 2022-26;*

*HVDC bi-pole links: 95.0% for the Control Period FY 2022-26;*

*HVDC back-to-back stations: 95.0% for the Control Period FY 2022-26;*

*Provided that no incentive shall be payable for availability beyond 99.75%:*

*Provided further that for AC system, two trippings per year shall be allowed. After Twotrippings in a year, additional 12 hours outage shall be considered in addition to the actual outage:*

*Provided also that in case of outage of a transmission element affecting evacuation of power from a generating station, outage hours shall be multiplied by a factor of 2."*

*Further, Regulation 10.59 of the MYT Regulations state as follows:*

10.59 The transmission charge (inclusive of incentive) payable for a calendar month for a Transmission System or part thereof shall be

a. For TAFM < 98%

$AFC \times (NDM/NDY) \times (TAFM/98\%)$

b. For TAFM:  $98\% < \text{TAFM} < 98.5\%$   
 $\text{AFC} \times (\text{NDM}/\text{NDY}) \times (1)$

c. For TAFM:  $98.5\% < \text{TAFM} < 99.75\%$   
 $\text{AFC} \times (\text{NDM}/\text{NDY}) \times (\text{TAFM}/98.5\%)$

d. For TAFM  $> 99.75\%$   
 $\text{AFC} \times (\text{NDM}/\text{NDY}) \times (99.75\%/98.5\%)$

Where,

AFC = Annual Fixed Cost specified for the year, in Rupees;

NDM = Number of days in the month;

NDY = Number of days in the year; and

TAFM = Transmission system availability factor for the month, in percent, computed in accordance with Appendix –III to these Regulations.

4.12.3. Thus, the actual TAF achieved by JUSNL in FY 2021-22 works out to 98.94%. The details of month wise Transmission System Availability is attached as **Annexure-I**.

4.12.4. For computation of Incentive on account of achieving higher than target TAF in FY 2021-22, JUSNL has considered target availability of 98.50% as specified in Regulation 10.55 of JSERC MYT Regulations as shown in Table below:

**Table 34 Incentive for Target Availability for FY 2021-22**

Month	Availability	No. of days	Fixed Cost (Rs. Crore)
Apr-21	99.24%	30	78.55
May-21	98.51%	31	80.57
Jun-21	98.78%	30	78.19
Jul-21	99.67%	31	81.52
Aug-21	99.64%	31	81.50
Sep-21	98.42%	30	77.90
Oct-21	98.96%	31	80.94
Nov-21	98.88%	30	78.27
Dec-21	98.54%	31	80.59
Jan-22	98.74%	31	80.76
Feb-22	98.68%	28	72.90
Mar-22	99.19%	31	81.12
<b>Total</b>			<b>952.80</b>

**Table 35 Net Incentive for Target Availability for FY 2021-22***All figures are in Rs. Crore*

Particulars	AFC
AFC	948.56
AFC with Incentive	952.80
<b>Net Incentive</b>	<b>4.24</b>

**4.13. Revenue from Operations**

- 4.13.1. The Petitioner has recovered transmission charge as approved by the Hon'ble Commission in its Order dated 24<sup>th</sup> February 2018. The relevant extract of the Order is extracted below:

*"6.64 The Commission approves transmission tariff of Rs 0.25 per kWh for FY 2016-17, which shall remain applicable till amended or modified or extended by an Order of this Commission."*

- 4.13.2. In line with the direction of the Hon'ble Commission the Petitioner has recovered transmission charge at a tariff of Rs. 0.25 per kWh wheeled through its transmission network for FY 2021-22. The units approved to be wheeled in transmission network for FY 2021-22 vis-à-vis actual units wheeled is provided below:

**Table 36 Units wheeled during FY 2021-22***All figures are in MUs*

Particulars	Approved in T.O. dtd. 24.02.2018	Energy delivered for FY 2021-22
Units Wheeled	-	10280.67

*\*\*This is provisional data based on input of SLDC. The same will be finalized once the Samast scheme will be implemented.*

- 4.13.3. The Petitioner has claimed the revenue from existing tariff as per actual provided in Note 21 of the Audited Accounts for FY 2021-22.

**Table 37 Revenue from Operation for FY 2021-22***All figures are in Rs. Crore*

Particulars	Approved in T.O. dtd. 23.06.2023	Claimed for FY 2021-22	Ref. from Accounts
Revenue from Existing Tariff	342.01	249.65	Note 21

- 4.13.4. The Hon'ble Commission is therefore requested to kindly approve the above revenue from operations.

#### 4.14. Net ARR and revenue gap for FY 2021-22

- 4.14.1. The Gross ARR for the transmission company consists of the interest and finance costs, return on equity, O&M costs, depreciation and interest on working capital. These costs are then adjusted for Non-Tariff Income and other Income. Following is the total revenue requirement for FY 2021-22 against allocation from total approved revenue requirement by the Hon'ble Commission for FY 2021-22.

**Table 38 Aggregate Revenue Requirement for FY 2021-22**

*All figures are in Rs. Crore*

Sl. No.	Particulars	Approved in T.O. dtd. 23.06.2023	Claimed for FY 2021-22
1	Operation and Maintenance Expense	103.59	120.84
i	<i>Employee Expense</i>	49.19	85.24
ii	<i>A&amp;G Expense</i>	8.98	11.33
iii	<i>R&amp;M Expense</i>	45.42	24.27
2	Depreciation	111.67	193.35
3	Interest and Finance Charge	83.48	439.00
4	Return on Equity	49.09	180.17
5	Interest on Working Capital	6.97	15.20
6	Incentive for Target Availability	0	4.24
7	Less: Non-tariff Income	12.79	7.59
8	Net Aggregate Revenue Requirement	342.01	945.21
9	Revenue from Operations	342.01	249.65
10	Revenue Gap / (Surplus)	0.00	695.55

- 4.14.2. In the light of the above explanation the Petitioner would request the Hon'ble Commission to approve the above towards net gap in FY 2021-22 and also allow appropriate tariff hike to meet the annual revenue requirement.

#### 4.15. Cumulative Revenue Gap till FY 2021-22

- 4.15.1. The JSERC Transmission Tariff Regulations, 2015 provides for recovery of the under recovered transmission cost along with carrying cost at a rate equal to bank rate of Reserve Bank of India as on 1<sup>st</sup> April of the relevant Year. The relevant extract of the said Regulations is provided below:

*"Refund of Excess Amount*

*6.19 If the Tariff already recovered is more than the Tariff determined after true up, the Transmission Licensee shall refund to the Long Term Transmission Customers the excess amount so recovered along with simple interest at the rate equal to bank rate of Reserve Bank of India as on 1st April of the relevant year.*

*6.20 Similarly, in case the Tariff already recovered is less than the Tariff determined after true up, the Transmission Licensee shall recover from the Long Term Transmission Customers, the under recovered amount*

*along with simple interest at the rate equal to bank rate of Reserve Bank of India as on 1st April of the relevant Year/Years subject to adhering to the timelines specified by the Commission for filing of True-up Application. In case, it is found that the filing of True-up is delayed due to the reasons attributable to the Transmission Licensee, the under recovery shall not bear any interest.*

*6.21 The amount under-recovered or over-recovered, along with simple interest, wherever applicable, shall be recovered or refunded by the Transmission Licensee, in six equal monthly installments starting within three months from the date of the tariff order issued by the Commission after the truing up exercise.”*

- 4.15.2. The JSERC Transmission Tariff Regulations, 2020 provides for recovery of the under recovered transmission cost along with carrying cost at a rate equal to bank rate as on 1<sup>st</sup> April of the relevant Year. The relevant extract of the said Regulations is provided below:

*“7.2 Where after the truing up, the Revenue recovered exceeds the ARR approved by the Commission under these Regulations, the Transmission Licensee shall refund to the Beneficiaries as the case may be, the surplus amount so recovered as specified in Clause 7.4 of these Regulations.*

*7.3 Where after the truing up, the Revenue recovered is less than the ARR approved by the Commission under these Regulations, the Transmission Licensee shall recover from the Beneficiaries as the case may be, the gap amount in accordance with Clause 7.4 of these Regulations.*

*7.4 The amount under-recovered or over-recovered, along with simple interest at the rate equal to Bank Rate as on April 01 of the respective year plus 350 basis points, shall be recovered or refunded by the Transmission Licensee in six equal monthly instalments starting within three months from the date of the Tariff Order issued by the Commission.”*

- 4.15.3. In accordance with the above Regulations, JUSNL has considered the revenue gap of FY 2013-14, FY 2014-15, FY 2015-16, FY 2016-17, FY 2017-18, FY 2018-19, FY 2019-20, FY 2020-21 and FY 2021-22 along with carrying cost. The Petitioner has also considered the revenue gap for FY 2013-14 and FY 2014-15 as approved by the Hon'ble Commission in its Review Order dated 03.12.2020 and revenue gap for FY 2015-16 and FY 2016-17 as approved in Order dated 30.12.2020. Also, the revenue gap approved by the Hon'ble Commission in the true up of FY 2017-18, FY 2018-19 and FY 2019-20 has been considered. The cumulative revenue gap till FY 2021-22 is summarized in the table given below:

**Table 39 Cumulative Revenue Gap**

Particulars	FY 13-14	FY 14-15	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	FY 21-22
Opening Revenue Gap as on 1st April	0	0.73	59.86	178.98	308.12	434.29	447.46	597.68	1395.80
Revenue Gap / (Surplus) created during the year	0.68	54.97	102.71	97.17	78.09	-42.39	82.76	677.33	695.55

Particulars	FY 13-14	FY 14-15	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	FY 21-22
Closing gap at the end of the year	0.68	55.70	162.57	276.15	386.21	391.90	530.22	1275.01	2091.35
Average Revenue Gap	0.34	28.21	111.22	227.56	347.16	413.09	488.84	936.34	1743.57
Rate of Interest	14.45 %	14.75 %	14.75 %	14.05 %	13.85 %	13.45 %	13.80 %	12.90 %	10.50 %
Carrying cost of the Revenue Gap	0.05	4.16	16.40	31.97	48.08	55.56	67.46	120.79	183.08
Total Gap / (Surplus) including carrying cost	0.73	59.86	178.98	308.12	434.29	447.46	597.68	1395.80	2274.43

4.15.4. The Hon'ble Commission is requested to kindly approve the above revenue gap for FY 2021-22 and also to allow additional tariff to be recovered along with the current tariff of Rs.0.31/kWh in lieu of the above revenue gap along with the carrying cost to be recovered as per the Regulations.

## 5. Revised APR For FY 2022-23

### 5.1. Preamble

- 5.1.1. This section outlines the actual performance of the JUSNL during the FY 2022-23.
- 5.1.2. In line with the provisions of the JSERC (Terms and Conditions for Determination of Transmission Tariff) Regulations, 2020, the Petitioner hereby submits the APR for FY 2022-23. The expenses of the Petitioner presented in the APR are based on the unaudited books of accounts for the FY 2022-23. The ARR so arrived has been compared with that approved by the Hon'ble Commission vide its Business plan and ARR for MYT Period FY 2021-22 to FY 2025-26 Order dated 23<sup>rd</sup> June, 2023. Accordingly, the revised Aggregate Revenue Requirement, revenue and gap for FY 2022-23 have been given in the subsequent sub-sections of this chapter.

### 5.2. Previous Order

- 5.2.1. JUSNL submits that the final transfer scheme was notified on 20<sup>th</sup> November 2015 vide Government of Jharkhand notification no. 2917 wherein separate balance sheet was notified by the Government of Jharkhand for all the four entities namely JBVNL, JUSNL, JUUNL and JUVNL.
- 5.2.2. The Hon'ble Commission has issued Business Plan Order dated 23<sup>rd</sup> June, 2023 wherein it has approved ARR for FY 2022-23. JUSNL in the instant Petition is filing for APR for FY 2022-23.
- 5.2.3. The unaudited annual account of JUSNL for FY 2022-23 and unaudited Trial Balance of SLDC are for FY 2022-23 are attached as **Annexure J**.

### 5.3. Capital Expenditure, Capitalization and CWIP

- 5.3.1. JSERC Transmission Tariff Regulations, 2020 provides for review of actual capital expenditure as follows:

*"13.1 To ensure smooth implementation of the Multi Year Tariff (MYT) framework, the Commission may undertake periodic reviews of Transmission Licensee's performance during the Control Period, to address any practical issues, concerns or unexpected outcomes that may arise.*

*13.2 The Transmission Licensee shall submit information as part of annual performance review on actual performance as per the timelines specified in Section A 24 of these Regulations to assess the performance vis-à-vis the targets approved by the Commission at the beginning of the Control Period. This shall include annual statements of its performance and accounting statements and the tariff worked out in accordance with these Regulations."*

- 5.3.2. In pursuant to the above Regulations, the Hon'ble Commission shall review the actual capitalization for true up vis-à-vis approved capitalization and accordingly



provide for expenses such as depreciation, interest on long term loan and return on equity.

- 5.3.3. Accordingly, the Petitioner has considered the actual capital expenditure and capitalization that has incurred in the books of accounts for review of expenses for FY 2022-23.
- 5.3.4. The opening and closing balances of the capital expenditure, capitalization, CWIP are considered as per the unaudited annual accounts for FY 2022-23.
- 5.3.5. The following table shows the capital expenditure and capitalization that has incurred during the year against the approved capital expenditure and capitalization.

**Table 40 Capital Expenditure, CWIP and Capitalization for FY 2022-23**

*All figures are in Rs. Crore*

Particulars	Opening	Addition	Closing
Capital Expenditure during the year	6,610.48	724.09	7,334.57
Capitalization	3,871.89	3.86	3,875.75
<b>Capital Work in Progress</b>	2,738.59	720.23	3,458.82
<i>Asset Capital Work in Progress</i>	2,190.60	605.38	2,795.98
<i>Capital Advances</i>	520.99	114.85	635.84
<i>Advance to Suppliers</i>	0.00	0.00	0.00
<i>Stock of Materials at Site</i>	27.00	0.0049	27.00

- 5.3.6. Assets amounting to Rs. 2.03 crore pertaining to SLDC have been deducted from the total assets of JUSNL valuing Rs. 3873.92 Crores. Hence, the net assets of JUSNL after segregation of SLDC assets are Rs. 3871.89 Crores.

**Table 41 Capital Expenditure, CWIP and Capitalization for FY 2022-23 (Approved Vs. Claimed)**

*All figures are in Rs. Crore*

Particulars	Approved	Actual
Capital Expenditure during the year	2016.83	724.09
Asset Capitalised during the year	307.06	3.86

- 5.3.7. In accordance with the same, it is submitted that JUSNL has incurred actual capital expenditure of Rs. 724.09 Crore and actual capitalization of Rs. 3.86 Crore in FY 2022-23. The Hon'ble Commission is therefore requested to kindly approve the same in line with the unaudited annual accounts of JUSNL for the FY 2022-23.
- 5.3.8. The details of capitalization done in FY 2022-23 by JUSNL have been attached as **Annexure K** to this Petition.

## 5.4. Gross Fixed Asset

- 5.4.1. The Commission in its Business Plan Order dated 23<sup>rd</sup> June, 2023, had determined the opening balance of GFA for FY 2022-23 based on the closing balance approved for FY 2021-22 in the same Order.
- 5.4.2. JUSNL has now claimed opening GFA as per the unaudited annual accounts for FY 2022-23. The following table shows the opening and closing balance of GFA as per unaudited annual accounts against that approved by JSERC in last Tariff Order.

**Table 42Gross Fixed Asset for FY 2022-23**

*All figures are in Rs. Crore*

Particulars	Approved in T.O. dtd 23.06.2023	Actual	Ref. from Accounts
Opening Gross Fixed Asset (GFA)	2023.35	3,871.89	Note 13A
Addition to GFA	307.06	3.8577	Note 13A
Closing GFA	2330.41	3,875.75	Note 13A

- 5.4.3. The JUSNL would like to submit that during the FY 2022-23, the JUSNL performed a reconciliation of assets under use and found that certain assets were in use from earlier period but were not capitalized in books of accounts. Accordingly, assets were capitalized based on the date of capitalization which were of earlier periods and hence the opening balances were reinstated having an impact on PPE, depreciation, and CWIP. This has resulted in variation between the closing balance of GFA for the FY 2021-22 and the opening balance of GFA for the FY 2022-23. The closing balance of GFA for FY 2021-22 was Rs. 3734.26 Crore and the opening balance of GFA for FY 2022-23 was Rs. 3873.92 Crore. The difference between the closing balance of GFA for FY 2021-22 and opening balance of GFA for FY 2022-23 is Rs. 139.66 Crore which pertains to schemes capitalized during prior period. The details of these schemes are provided in **Annexure L**.
- 5.4.4. Assets amounting to Rs. 2.03 crore pertaining to SLDC have been deducted from the total assets of JUSNL valuing Rs. 3873.92 Crores. Hence, the net assets of JUSNL after segregation of SLDC assets are Rs. 3871.89 Crores.
- 5.4.5. The Commission is requested to approve GFA for FY 2022-23 as provided in the table above.

## 5.5. Operation and Maintenance Expenses

- 5.5.1. The Operation and Maintenance (O&M) costs of the licensee include the following;
- Employee Expenses (EE)
  - Administration and General Expenses (A&G)

- Repair and Maintenance expenses (R&M)

5.5.2. The O&M costs are mainly driven by the length of lines and number of Sub Stations. Employee costs constitute a major portion of the O&M expenses and the expenses include salaries of the staff, payments related to surrender leave, various medical allowances, leave travel allowances and other allowances.

5.5.3. The JSERC (Terms and Conditions for Determination of Transmission Tariff) Regulations, 2020 define O&M expenses as follows.

*“3.138. ‘Operation and Maintenance Expenses’ or ‘O&M Expenses’ means the expenditure incurred for operation and maintenance of the project, or part thereof, and includes the expenditure on manpower, repairs and maintenance, spares, consumables, insurance and overheads;”*

#### Employee Expense

5.5.4. The employee expenses further primarily include costs towards salaries, Dearness Allowances, bonus, staff welfare and medical benefits, leave travel and earned leave encashment, and the terminal benefits in the form of pension, gratuity etc. The actual employee expenses as per the audited accounts for FY 2022-23 is shown below:

**Table 43 Employee Expenses for FY 2022-23**

*All figures are in Rs. Crore*

Sl. No.	Particulars	Approved in T.O. dtd. 23.06.2023	Actual for FY 2022-23	Ref. from Accounts
1	Employee Expense without Terminal Benefits	46.53	78.80	Note 23
2	Terminal Benefits	5.33	33.66	Note 23
	Total	51.86	112.46	Note 23

5.5.5. The Petitioner has claimed the employee expenses as per the unaudited accounts for FY 2022-23. The actual employee expense for FY 2022-23 is Rs. 112.46 Crore including the terminal benefits which is high in comparison to Rs. 51.86 Crore as approved by the Hon'ble Commission in its MYT Tariff Order dated 23.06.2023. It is also submitted that the employee expenses of SLDC amounting to Rs. 5.16 crores have been deducted from the total employee expenses of Rs. 117.62 Crore to arrive at the net employee expenses of Rs. 112.46 Crores. The major reason for such exceptional increase is due to the following:

- Revision of Pay structure of the employees of JUSNL with effect from 01.01.2016:

Govt. of Jharkhand vide its Resolution No. 11/07 (Ve, Aa)- 01/2016-217/F dated 18.01.2017 of Additional Chief Secretary, Planning-cum-Finance Department (Finance Division), Govt. of Jharkhand has issued Order

regarding the revision of pay structure for the State Govt. employees with effect from 01.01.2016. Accordingly, same was also adopted for the employees of JUSNL vide notification no 1848/Nigam HQ, Ranchi dated 10.07.2017 and by way of this the salaries and terminal benefits of the employees of JUSNL was revised w.e.f. 01.01.2016 retrospectively. The arrear for the period from 01.01.2016 to 31.03.2017 was paid during FY 2017-18.

b. Recruitment drives conducted by JUSNL:

JUSNL conducted recruitment drives for filling of the vacant positions at various levels vide JUVNL Employment Notification No. 03/2016 and 04/2016. The new recruits are also entitled to the revised pay structure as per the notification of JUVNL vide notification no. 1848/Nigam HQ, Ranchi dated 10.07.2017. The addition of new employees has also contributed for the increase in employee expenses during FY 2020-21 which may further increase after all the vacant positions are fulfilled as per sanctioned strength.

From the above it may be inferred that the increase in employee expense was due to change in pay structure and addition of new employees which was not under the control of JUSNL. Therefore, the Hon'ble Commission is requested to allow employee expense as per actual thereby invoking Clause No. 10.21 which provides that the Hon'ble Commission shall consider any variation in Employee Expense due to changes recommended by the Pay Commission and Clause No. 20.1 which provides that the Commission may adopt a procedure, which is at variance with any of the provisions of the notified Regulations. The relevant extract of the said Regulations is provided below:

*"Note 2: Any variation due to changes recommended by the Pay Commission or wage revision agreement, etc., will be considered separately by the Commission;"*

...

***"Saving of Inherent Powers of the Commission"***

*20.1 Nothing contained in these Regulations shall limit or otherwise affect the inherent powers of the Commission from adopting a procedure, which is at variance with any of the provisions of these Regulations, if the Commission, in view of the special circumstances of the matter or class of matters and for reasons to be recorded in writing, deems it necessary or expedient to depart from the procedure specified in these Regulations."*

- 5.5.6. The Hon'ble Commission is therefore requested to approve the employee expense of Rs. 112.46 Crore as per the unaudited annual accounts.

**Administrative & General Expense**

- 5.5.7. Administration and General expenses mainly comprise costs towards rent charges, telephone and other communication expenses, professional charges, conveyance and travelling allowances and other debits. The A&G expenses incurred in FY 2022-23 is shown below:

**Table 44 Administrative & General (A&G) Expenses for FY 2022-23***All figures are in Rs. Crore*

Particulars	Approved in T.O. dtd. 23.06.2023	Actual for FY 2022-23	Ref. from Accounts
A&G Expenses	9.53	12.18	Note 25A

5.5.8. The Petitioner has claimed the A&G expenses as per the unaudited accounts for FY 2022-23. The major contribution to the A&G expense is from miscellaneous expenses of Rs. 7.85 Crore.

5.5.9. It is also submitted that the A&G expenses of SLDC amounting to Rs. 0.99 Crores have been deducted from the total A&G expenses of Rs. 13.17 Crore to arrive at the net A&G expenses of Rs. 12.18 Crores.

#### **Repairs and Maintenance (R&M) Expense:**

5.5.10. It is submitted that the repairs and maintenance expenses include procurement expenses for various spares used for maintenance purposes as well as labour charges for repairs.

5.5.11. The Hon'ble Commission in its Business Plan Order has approved R&M expenses based on k-Factor of 2.23% which was applied on opening GFA (Rs. 2023.35 Crore) assumed at that time for FY 2022-23.

5.5.12. It is further submitted that the actual opening GFA as per actual unaudited accounts of FY 2022-23 is Rs. 3871.89 Crore which is much higher than that approved in Business Plan Order dated 23<sup>rd</sup> June, 2023.

5.5.13. The R&M expenses primarily include costs related to repair of different class of fixed assets etc. Accordingly, R&M expense has been claimed as per actual in line with the unaudited accounts for FY 2022-23 as provided below:

**Table 45 Repair & Maintenance (R&M) Expenses for FY 2022-23***All figures are in Rs. Crore*

Particulars	Approved in T.O. dtd. 24.02.2018	Actual for FY 2022-23	Ref. from Accounts
Opening GFA	2023.35	3,871.89	Note 13A
"K" Factor	2.23%		
R&M Expense	47.87	44.39	Note 25A

5.5.14. It is also submitted that the R&M expenses of SLDC amounting to Rs. 0.22 Crores have been deducted from the total R&M expenses of Rs. 44.61 Crore to arrive at the net R&M expenses of Rs. 44.39 Crores.

5.5.15. The Commission is therefore requested to kindly approve Rs. 44.39 Crore as repair and maintenance expenses for FY 2022-23 which is less than that

approved by the Hon'ble Commission in the Business Plan Order dated 23<sup>rd</sup> June, 2023.

#### **Gist of Operation and Maintenance Expense:**

- 5.5.16. The following table captures the total O&M expenses incurred by the Petitioner in the FY 2022-23: -

**Table 46 Operation & Maintenance (O&M) Expenses for FY 2022-23**

*All figures are in Rs. Crore*

Particulars	Approved in T.O. dtd. 24.02.2018	Actual for FY 2022-23
Employee Expense	51.86	112.46
A&G Expense	9.53	12.18
R&M Expense	47.87	44.39
Total O&M Expense	109.26	169.03

*\* Excludes the O&M expenses of SLDC.*

- 5.5.17. The Hon'ble Commission is therefore requested to approve the above O&M expenses for FY 2022-23.

#### **5.6. Depreciation**

- 5.6.1. The Hon'ble Commission has notified the rates for asset-wise depreciation in the JSERC Transmission Tariff Regulations, 2020. Same has been considered for calculation of depreciation for the year.
- 5.6.2. Further, in Regulations 10.37 to 10.43 of the JSERC Transmission Tariff Regulations, 2020 the method for calculation of the Depreciation on GFA is provided and is extracted below:

##### ***"Depreciation***

*10.37 Depreciation shall be calculated for each year of the Tariff period, on the amount of Capital Cost of the assets admitted by the Commission: Provided that depreciation shall not be allowed on assets funded by contribution from Beneficiary, Distribution system user, Capital Subsidy & Grants. Provision for replacement of such assets shall be made in the Capital Investment Plan.*

*10.38 Depreciation for each year shall be determined based on the methodology as specified in these Regulations along with the rates and other terms specified in these Regulations....."*

- 5.6.3. The Petitioner has calculated depreciation in annual accounts based on the above-mentioned provisions. However, the depreciation expense is less than that approved by the Hon'ble Commission in the Business Plan Order.
- 5.6.4. The following table shows the detailed calculation of depreciation claimed by the Petitioner.

**Table 47 Calculation of Depreciation Expenses for FY 2022-23***All figures are in Rs. Crore*

Particulars	Gross Fixed Assets			Depreciation
	At Beginning of Year	Additions/ Disposals during the year	At End of Year	Depreciation during the year
Land and land rights	7.93	0.00	7.93	0.00
Building	13.46	0.75	14.21	0.45
Plant and Machinery	2137.22	0.00	2137.22	112.85
Lines and Cable Network	1702.77	2.59	1705.36	90.00
Vehicles	0.72	0.19	0.91	0.05
Furniture and Fixture	1.45	0.09	1.54	0.10
Office Equipment	2.07	0.10	2.17	0.13
Spare Units/Service Units	0.21	0.00	0.21	0.00
Others Civil Works	6.05	0.14	6.19	0.20
<b>Total</b>	<b>3871.89</b>	<b>3.86</b>	<b>3875.75</b>	<b>203.79</b>

5.6.5. The following table shows the depreciation claimed by the Petitioner against that approved by the Hon'ble Commission in last Tariff Order.

**Table 48 Depreciation Expenses for FY 2022-23***All figures are in Rs. Crore*

Particulars	Approved in T.O. dtd. 23.06.2023	Actual for FY 2022-23	Ref. from Accounts
Depreciation for the year	120.33	203.79	Note 13A

\* Excludes the depreciation of SLDC assets.

5.6.6. The depreciation expenses claimed is within the limit approved by the Hon'ble Commission in the Tariff Order dated 23.06.2023 and is also in line with the unaudited accounts for FY 2022-23. It is also submitted that the depreciation of SLDC amounting to Rs. 0.11 Crores have been deducted from the total depreciation of Rs. 203.90 Crore to arrive at the net depreciation of Rs. 203.79 Crores.

5.6.7. The Petitioner therefore requests the Hon'ble Commission to kindly approve the claimed depreciation expense for FY 2022-23.

## 5.7. Interest and Loan capital

5.7.1. Interest on loans includes loans against schemes, central and state government loans, Bank Overdrafts, public bonds etc.

5.7.2. JUSNL has been funding its capital expenditure majorly from State Government loan. In this regard, loan balance has substantially increased with increase in capital expenditure and capitalization for each year. JUSNL has claimed interest on loan of Rs. 466.29 Crore against that approved amount of Rs. 91.48

Crore. The following table shows the interest on loan claimed by JUSNL against that approved in the Order:

**Table 49 Interest on Loan claimed for FY 2022-23**

*All figures are in Rs. Crore*

Particulars	Approved in T.O. dtd. 23.06.2023	Actual for FY 2022-23	Ref. from Accounts
Interest on Loan	91.48	466.29	Note 24

*\*INR 466.29 Crore includes INR 466.2926 Crore towards interest on State Govt. Loan and INR 0.0003 Crore towards interest on Security deposit from Staff*

- 5.7.3. The Petitioner requests the Hon'ble Commission to kindly approve the above amount with respect to interest on loan expense for FY 2022-23.

### 5.8. Return on Equity

- 5.8.1. As per Regulation 10.26 to 10.27 of the JSERC Transmission Tariff Regulations, 2020 Return on Equity shall be calculated as follows: -

***“Return on Equity***

*10.26 The rate of return on equity shall be 14.00% (post-tax) for the Control Period.*

*10.27 Return on equity for each year shall be allowed on equity employed in assets in use considering the following:*

- a) Equity employed in accordance with Clause 10.23 of these Regulations on assets (in use) capitalised as on the beginning of the year; and  
b) 50% of the equity projected to be employed in accordance with Clause 10.24 of these Regulations on assets (in use) commissioned during the year.”*

- 5.8.2. The Petitioner has considered equity base of Rs. 1600.96 Crore (Rs. 1598.96 Crore towards equity share capital + Rs. 2.00 Crore towards restructuring account pending adjustment) for FY 2022-23 as reflected in the annual unaudited accounts. The applicable return on equity has been calculated considering 14.00% rate of return as per Regulation 10.26 of JSERC Transmission Tariff Regulations, 2020. The detailed calculation of return on equity is provided below:

**Table 50 Return on Equity claimed for FY 2022-23**

*All figures are in Rs. Crore*

Sl. No.	Particulars	Approved in T.O. dtd. 23.06.2023	Claimed
1	Opening Balance of Equity	350.61	1600.96
2	Additions during the year	0.00	0.00
3	Closing Balance of Equity	350.61	1600.96
4	Average Equity balance	350.61	1600.96
5	Rate of Return on Equity	14.00%	14.00%
6	Return on Equity	49.09	224.13



- 5.8.3. The Petitioner requests the Hon'ble Commission to approve the return of equity as provided above.

### 5.9. Interest on Working Capital

- 5.9.1. The Regulation 10.44 of the JSERC Transmission Tariff Regulations, 2020 provides methodology for calculation of normative Working Capital is as follows:

***“Working Capital***

*10.44 Working Capital for the Transmission Licensee shall comprise:*

*(a) Maintenance spares @ 15% of the O&M expenses specified in Clauses 10.19- 10.21 of these Regulations;*

*(b) Receivables equivalent to 45 days of annual fixed cost;*

*(c) Operation and Maintenance expenses for one month; (d) Less: Interest on amount, if any, held as security deposits from Transmission system users.”*

- 5.9.2. The Regulation 10.45 and 10.46 of the JSERC Transmission Tariff Regulations, 2020 provides methodology for calculation of interest rate for calculation of IoWC is as follows:

***“Interest on Working Capital***

*10.45 Rate of interest on working capital shall be equal to the Bank Rate as on September 30 of the financial year in which the MYT Petition is filed plus 350 basis points. At the time of true up, the interest rate shall be adjusted as per the actual rate prevailing on April 01 of the financial year for which truing up exercise has been undertaken.*

*10.46 The interest on working capital shall be payable on normative basis notwithstanding that the Transmission Licensee has not taken working capital loan from any outside agency.”*

- 5.9.3. The Petitioner would like to submit that it has arrived at the working capital requirement according to the applicable norms for Transmission function as provided in the JSERC Transmission Tariff Regulations, 2020, the calculation for which has been captured in the following table. In line with the above Regulations actual MCLR rate prevailing on 30th September, 2023 i.e. 8.55% plus 350 basis points has been considered for calculation of interest on Working Capital for the FY 2021-22.

**Table 51 Interest on Working Capital claimed for FY 2022-23**

*All figures are in Rs. Crore*

Sl. No.	Particulars	Approved in T.O. dtd. 23.06.2023	Claimed
1	O&M Expenses for one Month	9.10	14.09

Sl. No.	Particulars	Approved in T.O. dtd. 23.06.2023	Claimed
2	15% of O&M expense as Maintenance Spares	16.39	25.35
3	Receivables equivalent to 45 days of Annual Fixed Charges	44.97	131.29
4	Total Working capital	70.46	170.73
5	Interest rate (%)	10.50%	12.05%
6	Interest on working capital	7.40	20.57

5.9.4. The Hon'ble Commission is requested to kindly approve the interest on working capital loan as provided above for FY 2022-23.

### 5.10. Non-Tariff Income

5.10.1. The Regulation 10.32 of the JSERC Transmission Tariff Regulations, 2020 states as follows:

*"10.50 The Non-Tariff Income shall include:*

- a) Income from rent of land or buildings;*
- b) Income from sale of scrap;*
- c) Income from investments;*
- d) Interest accrued on advances to suppliers/contractors;*
- e) Interest income on loans / advances to employees;*
- f) Income from rental of staff quarters;*
- g) Income by rental from contractors;*
- h) Income by hire charges from contractors and others;*
- i) Income by supervision charges, etc.;*
- j) Supervision charges for capital works;*
- k) Income from advertisements;*
- l) Income from sale of tender documents;*
- m) Profit from sale of assets (i.e. difference in Sale Value and Book Value)*

*n) Any other Non-Tariff Income."*

5.10.2. In line with the above Regulations, the Petitioner has claimed the Non-Tariff Income as per the unaudited annual accounts as follows:

**Table 52 Non-tariff Income for FY 2022-23**

*All figures are in Rs. Crore*

Particulars	Approved in T.O. dtd. 23.06.2023	Claimed for FY 2022-23	Ref. from Accounts
Non-Tariff Income	12.79	18.90	Note 22

5.10.3. The Hon'ble Commission is requested to kindly approve the non-tariff income as provided above for FY 2022-23.

## 5.11. Tax on income

- 5.11.1. As per the Transmission Tariff regulations 2020 notified by the Hon'ble Commission, the following has been stated:

*"10.47 Tax on income, if any, on the Licensed business of the Transmission Licensee shall be limited to tax on the allowed return on equity.*

*10.48 The income tax actually payable or paid limited to the tax on allowed return on equity shall be included in the ARR while truing up. The actual assessment of income tax should take into account benefits of tax holiday, and the credit for carry forward losses applicable as per the provisions of the Income Tax Act, 1961 and its amendments thereof shall be passed on to the consumers. Tax on the other income streams of the Transmission Licensee shall not be recovered from the Beneficiaries."*

The JUSNL has not paid any income tax during the FY 2022-23. Therefore, same has not been considered as part of ARR in this Petition.

## 5.12. Revenue from Operations

- 5.12.1. The Petitioner has recovered transmission charge as approved by the Hon'ble Commission in its Order dated 24<sup>th</sup> February 2018. The relevant extract of the Order is extracted below:

*"6.64 The Commission approves transmission tariff of Rs 0.25 per kWh for FY 2016-17, which shall remain applicable till amended or modified or extended by an Order of this Commission."*

- 5.12.2. In line with the direction of the Hon'ble Commission the Petitioner has recovered transmission charge at a tariff of Rs. 0.25 per kWh wheeled through its transmission network for FY 2022-23. The units approved to be wheeled in transmission network for FY 2022-23 vis-à-vis actual units wheeled is provided below:

**Table 53 Units wheeled during FY 2022-23**

*All figures are in MUs*

Particulars	Approved in T.O. dtd. 24.02.2018	Energy delivered for FY 2022-23
Units Wheeled	-	10749.27

*\*\*This is provisional data based on input of SLDC. The same will be finalized once the Samast scheme will be implemented.*

- 5.12.3. The Petitioner has claimed the revenue from existing tariff as per actual provided in Note 21 of the Unaudited Accounts for FY 2022-23.

**Table 54 Revenue from Operation for FY 2022-23***All figures are in Rs. Crore*

Particulars	Approved in T.O. dtd. 23.06.2023	Claimed for FY 2022-23	Ref. from Accounts
Revenue from Existing Tariff	364.77	299.25	Note 21

5.12.4. The Hon'ble Commission is therefore requested to kindly approve the above revenue from operations.

### 5.13. Net ARR and revenue gap for FY 2022-23

5.13.1. The Gross ARR for the transmission company consists of the interest and finance costs, return on equity, O&M costs, depreciation and interest on working capital. These costs are then adjusted for Non-Tariff Income and other Income. Following is the total revenue requirement for FY2022-23 against allocation from total approved revenue requirement by the Hon'ble Commission for FY 2022-23.

**Table 55 Aggregate Revenue Requirement for FY 2022-23***All figures are in Rs. Crore*

Sl. No.	Particulars	Approved in T.O. dtd. 23.06.2023	Claimed for FY 2022-23
1	Operation and Maintenance Expense	109.26	169.03
i	<i>Employee Expense</i>	51.86	112.46
ii	<i>A&amp;G Expense</i>	9.53	12.18
iii	<i>R&amp;M Expense</i>	47.87	44.39
2	Depreciation	120.33	203.79
3	Interest and Finance Charge	91.48	466.29
4	Return on Equity	49.09	224.13
5	Interest on Working Capital	7.40	20.57
6	Less: Non-tariff Income	12.79	18.90
7	Net Aggregate Revenue Requirement	364.77	1064.92
8	Revenue from Operations	364.77	299.25
9	Revenue Gap / (Surplus)	0.00	765.68

5.13.2. In the light of the above explanation the Petitioner would request the Hon'ble Commission to approve the above towards net gap in FY 2022-23 and also allow appropriate tariff hike to meet the annual revenue requirement.

## 6. Revised ARR for the FY 2023-24

### 6.1. Preamble

- 6.1.1. In line with the provisions of the JSERC (Terms and Conditions of Determination of Transmission Tariff) Regulations, 2020, the Petitioner hereby submits the Petition for determination of Annual revenue Requirement (ARR) for the FY 2023-24. The various applicable & prescribed tariff format, principles, procedures provided by the Hon'ble Commission have been duly filled in and are enclosed as **Annexure M**.

### 6.2. Capital Expenditure and Capitalization

- 6.2.1. JUSNL has projected capital expenditure and capitalization for FY 2023-24. JUSNL has considered the closing CWIP of FY 2022-23 estimated in APR of FY 2022-23 as the opening CWIP for FY 2023-24. Accordingly, the closing balance of CWIP has been computed.
- 6.2.2. The following Table shows the projected capital expenditure and capitalization for the FY 2023-24:

**Table 56 Capital Expenditure and Capitalization for FY 2023-24**

*All figures are in Rs. Crore*

Particulars	FY 2023-24
	Projected
Opening CWIP	3,458.82
Add: Capital Expenditure	948.05
Less: Capitalization	215.07
<b>Closing CWIP</b>	<b>4,191.80</b>

- 6.2.3. The Hon'ble Commission is therefore requested to approve the capital expenditure and capitalization for the FY 2023-24 as provided in the table above. The details of proposed capital expenditure and capitalization of FY 2023-24 Period are being enclosed as **Annexure N**.

### 6.3. Gross Fixed Asset

- 6.3.1. The Petitioner has considered closing GFA for FY 2022-23 as opening GFA of FY 2023-24. Based on the capital expenditure and capitalization proposed for the FY 2023-24, Rs. 215.07 Crore is proposed to be capitalized during the FY 2023-24.
- 6.3.2. A summary of the Opening and Closing GFA and capitalization has been summarized in table below:

**Table 57 Gross Fixed Asset for FY 2023-24***All figures are in Rs. Crore*

Particulars	Opening GFA	Additions during the Year	Closing GFA
FY 2021-22	3,644.59	87.62	3,732.21
FY 2022-23	3,871.89	3.86	3,875.75
FY 2023-24	3,875.75	215.07	4,090.82

- 6.3.3. Assets amounting to Rs. 2.03 crore pertaining to SLDC have been deducted from the total opening assets of JUSNL for FY 2023-24 valuing Rs. 3877.78 Crores. Hence, the net opening assets of JUSNL for FY 2023-24 after segregation of SLDC assets are Rs. 3875.75 Crores.
- 6.3.4. The Hon'ble Commission is therefore requested to approve GFA for the FY 2023-24 as provided in the table above.

#### 6.4. Debt Equity Ratio

- 6.4.1. The petitioner has estimated the debt equity requirement of the FY 2023-24 in accordance with the JSERC (Terms and Conditions of Determination of Transmission Tariff) Regulations, 2020. The clause 10.23 and 10.24 of the Regulations states as follows:

*“10.23 Existing Schemes - In case of capital expenditure schemes capitalized prior to April 01, 2021, the debt-equity ratio allowed by the Commission for determination of tariff for the period ending March 31, 2021 shall be considered.*

*10.24 New Scheme – For capital expenditure scheme capitalized on or after April 01, 2021;*

- a) A normative debt-equity ratio of 70:30 shall be considered for the purpose of determination of Tariff;*
- b) In case the actual equity employed is in excess of 30%, the amount of equity for the purpose of tariff determination shall be limited to 30%, and the balance amount shall be considered as normative loan;*
- c) In case the actual equity employed is less than 30%, the actual debt-equity ratio shall be considered;*
- d) The premium, if any raised by the Transmission Licensee while issuing share capital and investment of internal accruals created out of free reserve, shall also be reckoned as paid up capital for the purpose of computing return on equity, provided such premium amount and internal accruals are actually utilized for meeting capital expenditure.”*

The capital expenditure for the FY 2023-24 is proposed to be funded majorly through debt. The capital expenditure schemes are divided into two broad categories i.e. capital expenditure schemes funded through State Government Funds and schemes funded through World Bank Funds. The State Government Funds are being provided to the JUSNL in the form of Loan at an interest rate of 13%. The World Bank Funds are being provided in the form of loan and equity

divided in the ratio of 70:30. The rate of interest of the World Bank Loan is 2.5%.The year wise requirement of debt and equity is shown in the table given below:

**Table 58 Debt Equity Ratio**

*All figures are in Rs. Crore*

Particulars	FY 2023-24	FY 2023-24
	Approved	Projected
Debt	1079.99	215.07
Equity	130.23	0.00
Total Capitalization	1210.22	215.07

It is submitted that during the FY 2023-24, the proposed addition in the GFA shall be done through the state funded schemes which are funded through the loan provided by the State Government. Hence, the equity portion has been shown as nil during the FY 2023-24.

## 6.5. Operation and Maintenance Expenses

6.5.1. The O&M expenses of JUSNL for the FY 2023-24 have been projected considering the historical expenses and the projections in terms of capitalization etc. The O&M expenses estimated for FY 2023-24 are being used as base figures, which are escalated to arrive at the future projections for FY 2023-24.

6.5.2. Operation and Maintenance expenses comprise of the following heads:

- Employees Expenses which includes the salaries, dearness allowances, dearness pay, other allowances, incentives and retirement and other benefits paid to the employees;
- Repair and Maintenance (R&M) Expenses, which include all expenditure incurred on the maintenance and upkeep of all assets and regulatory purposes, and
- Administrative and General Expenses, which include all expenditure incurred in operating a business such as telephone charges, vehicle and other hiring charges, legal expenses, consultancy fees, audit fees, conveyance and travel expenses, water charges and other expenses.

6.5.3. Further, the JSERC (Terms and Conditions of Determination of Transmission Tariff) Regulations, 2020 provides the methodology for calculation of "Operation and Maintenance" as follows:

*"10.18 Operation and Maintenance (O&M) expenses shall comprise the following: (a) Salaries, wages, pension contribution and other employee costs; (b) Administrative and General costs; (c) Repairs and maintenance expenses;*

*10.19 The O&M expenses for the Base Year of the Control Period shall be approved by the Commission taking into account the audited accounts of FY 2015-16 to FY 2019-20, Business Plan filed by the Transmission Licensees,*

*estimates of the actuals for the Base Year, prudence check and any other factor considered appropriate by the Commission.*

*10.20 O&M expenses permissible towards ARR for each year of the Control Period shall be determined using the formula detailed below:*

*O&M<sub>n</sub> = (R&M<sub>n</sub> + EMP<sub>n</sub> + A&G<sub>n</sub>) + Terminal liabilities;*

*Where, R&M<sub>n</sub> – Repair and Maintenance Costs of the Transmission Licensee for the n<sup>th</sup> year;*

*A&G<sub>n</sub> – Administrative and General Costs of the Transmission Licensee for the nth year;*

*EMP<sub>n</sub> – Employee Costs of the Transmission Licensee for the nth year excluding terminal liabilities.”*

#### **Employee Expense**

- 6.5.4. As per regulation 10.21 b) and c) of the MYT Regulations, 2020, the following formula shall be used for estimating Employee expenses:

*“b)  $EMP_n + A\&G_n = [(EMP_{n-1}) * (1 + G_n) + (A\&G_{n-1})] * (INDX_n / INDX_{n-1})$*

*Where,*

*EMP<sub>n-1</sub> – Employee Costs of the Transmission Licensee for the (n-1)th year excluding terminal liabilities;*

*A&G<sub>n-1</sub> – Administrative and General Costs of the Transmission Licensee for the (n-1)th year excluding legal/litigation expenses;*

*INDX<sub>n</sub>– Inflation Factor to be used for indexing the employee cost and A&G cost. This will be a combination of the Consumer Price Index (CPI) and the Wholesale Price Index (WPI) for immediately preceding year before the base year;*

*G<sub>n</sub>– is a growth factor for the nth year and it can be greater than or lesser than zero based on the actual performance. Value of G<sub>n</sub> shall be determined by the Commission in the MYT Order for meeting the additional manpower requirement based on the Transmission Licensee’s Filing, benchmarking and any other factor that the Commission feels appropriate;*

*c)  $INDX_n = 0.55 * CPI_n + 0.45 * WPI_n$*

*Note 1: For the purpose of estimation, the same  $INDX_n / INDX_{n-1}$  value shall be used for all years of the Control Period. However, the Commission will consider the actual values in the  $INDX_n / INDX_{n-1}$  at the end of each year during the Annual Performance Review exercise and true up the employee cost and A&G expenses on account of this variation, for the Control Period;*

*Note 2: Any variation due to changes recommended by the Pay Commission or wage revision agreement, etc., will be considered separately by the Commission;*



*Note 3: Terminal Liabilities will be approved as per actual submitted by the Transmission Licensee or be established through actuarial studies.”*

- 6.5.5. The Petitioner has projected the employee cost for the FY 2023-24 by escalating the projected employee cost (excluding the terminal benefits) estimated for FY 2022-23 by the inflation factor of 6.09%. The same has been approved by the Hon'ble Commission in the MYT Order for the 3<sup>rd</sup> Control Period.
- 6.5.6. Thus, the employee cost projected by the Petitioner for the FY 2023-24 considering the inflation factor of 6.09% is summarized in the following table:

**Table 59 Employee Cost Projected for the FY 2023-24**

*All figures are in Rs. Crore*

Particular	FY 2023-24	FY 2023-24
	Approved	Projected
Employee Expenses	49.36	83.60
Terminal Benefits	5.33	33.66
<b>Total</b>	<b>54.69</b>	<b>117.25</b>

- 6.5.7. The Hon'ble Commission is therefore requested to approve the above employee expense for the FY 2023-24.

#### **Administrative and General Expenses**

- 6.5.8. As per regulation 10.21 b) and c) of the MYT Regulations, 2020, the following formula shall be used for estimating Employee expenses:

$$\text{"b) } EMP_{n+1} \text{ A\&G}_n = [(EMP_{n-1}) * (1 + G_n) + (A\&G_{n-1})] * (INDX_n / INDX_{n-1})$$

*Where,*

*EMP<sub>n-1</sub> – Employee Costs of the Transmission Licensee for the (n-1)th year excluding terminal liabilities;*

*A\&G<sub>n-1</sub> – Administrative and General Costs of the Transmission Licensee for the (n-1)th year excluding legal/litigation expenses;*

*INDX<sub>n</sub>– Inflation Factor to be used for indexing the employee cost and A\&G cost. This will be a combination of the Consumer Price Index (CPI) and the Wholesale Price Index (WPI) for immediately preceding year before the base year;*

*G<sub>n</sub>– is a growth factor for the nth year and it can be greater than or lesser than zero based on the actual performance. Value of G<sub>n</sub> shall be determined by the Commission in the MYT Order for meeting the additional manpower requirement based on the Transmission Licensee's Filing, benchmarking and any other factor that the Commission feels appropriate;*

*c)  $INDX_n = 0.55 * CPI_n + 0.45 * WPI_n$*

*Note 1: For the purpose of estimation, the same  $INDX_n/INDX_{n-1}$  value shall be used for all years of the Control Period. However, the Commission will consider the actual values in the  $INDX_n/INDX_{n-1}$  at the end of each year during the Annual Performance Review exercise and true up the employee cost and A&G expenses on account of this variation, for the Control Period;*

*Note 2: Any variation due to changes recommended by the Pay Commission or wage revision agreement, etc., will be considered separately by the Commission;*

*Note 3: Terminal Liabilities will be approved as per actual submitted by the Transmission Licensee or be established through actuarial studies.”*

6.5.9. The Petitioner has projected the A&G expenses for the FY 2023-24 by escalating the A&G expenses (excluding the legal expenses) estimated for FY 2022-23 by the inflation factor of 6.09%.

6.5.10. Thus, the A&G expenses projected by the Petitioner for the FY 2023-24 is summarised in the following table:

**Table 60 A&G Expenses Projected for FY 2023-24**

*All figures are in Rs. Crore*

Particular	FY 2023-24	FY 2023-24
	Approved	Projected
A&G Expenses	10.73	12.90
<b>Total</b>	<b>10.73</b>	<b>12.90</b>

6.5.11. The Hon'ble Commission is therefore requested to approve the above A&G expenses.

#### **Repair and maintenance Expenses**

6.5.12. As per regulation 10.21, a) of the MYT Regulations, 2020, the following formula shall be used for estimating R&M expenses:

$$\text{"a) } R\&M_n = K * GFA * (INDX_n / INDX_{n-1})$$

Where

*“K” is constant (expressed in %) governing the relationship between R&M costs and Gross Fixed Assets (GFA) and shall be calculated based on the % of R&M to GFA of the preceding years of the Base Year in the MYT Order after normalising any abnormal expenses;*

*‘GFA’ is opening value of the gross fixed asset of the nth year;”*

6.5.13. As given above, the Regulations stipulate to compute the “K” factor governing the relationship between R&M costs and Gross Fixed Assets (GFA). The JUSNL has considered the “K” factor as approved by the Hon'ble Commission in the MYT Order issued for the 3<sup>rd</sup> Control Period.

- 6.5.14. The R&M cost for the FY 2023-24 is computed by considering the opening GFA as determined for FY 2023-24, the “K” factor as determined here and the inflation factor of 6.09%. The R&M expenses proposed for the FY 2023-24 are given in the following table:

**Table 61 R&M Expenses Projected for FY 2023-24**

*All figures are in Rs. Crore*

Particular	FY 2023-24	FY 2023-24
	Approved	Projected
<b>R&amp;M Expenses</b>	<b>55.13</b>	<b>92.05</b>

- 6.5.15. The Hon’ble Commission is therefore requested to approve the R&M expenses as claimed above.

### **Gist of O&M Expenses**

- 6.5.16. The following table captures the total O&M expenses projected by the Petitioner for the FY 2023-24:

**Table 62 O&M Expenses Projected for FY 2023-24**

*All figures are in Rs. Crore*

Particulars	FY 2023-24	FY 2023-24
	Approved	Projected
Employee Cost	54.69	117.25
R&M	55.13	92.05
A&G	10.73	12.90
<b>O&amp;M Expenses</b>	<b>120.55</b>	<b>222.21</b>

- 6.5.17. It is submitted that the O&M expenses of SLDC have not been included while projecting the O&M expenses for JUSNL for the FY 2023-24.
- 6.5.18. The Hon’ble Commission is therefore requested to approve the above O&M expenses for FY 2023-24.

## **6.6. Depreciation**

- 6.6.1. The Hon’ble Commission has notified the rates for asset-wise depreciation in the JSERC (Terms and Conditions of Determination of Transmission Tariff) Regulations, 2020. Same has been considered for calculation of depreciation for the FY 2023-24.
- 6.6.2. Further, in clause 10.37 to 10.43 of the JSERC MYT Regulations, 2020 the method for calculation of the Depreciation on GFA is provided and is extracted below:

*“10.37 Depreciation shall be calculated for each year of the Tariff period, on the amount of Capital Cost of the assets admitted by the Commission: Provided that*

*depreciation shall not be allowed on assets funded by contribution from Beneficiary, Distribution system user, Capital Subsidy & Grants. Provision for replacement of such assets shall be made in the Capital Investment Plan.*

*10.38 Depreciation for each year shall be determined based on the methodology as specified in these Regulations along with the rates and other terms specified in these Regulations.*

*10.39 Depreciation shall be calculated annually, based on the straight-line method at the rates specified at Appendix-I. The base value for the purpose of depreciation shall be original cost of the asset: Provided that the TransmissionLicensee shall ensure that once the individual asset is depreciated to the extent of seventy (70) percent of the Book Value of the asset, remaining depreciable value as on March 31 of the closing shall be spread over the balance useful life of the asset.*

*10.40 Depreciation shall be charged from the first year of operation of the asset. In case, the operation of the asset is for a part of the year, depreciation shall be charged on a prorata basis.*

*10.41 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. Land is not a depreciable asset and its cost shall be excluded while computing 90% of the original cost of the asset: Provided that the salvage value for IT equipment and software shall be considered as NIL and 100% value of the assets shall be considered depreciable.*

*10.42 The Commission may, in the absence of the Fixed Assets Register, calculate Depreciation (%) arrived by dividing the Depreciation and the Average Gross Fixed Assets as per the latest available Audited Accounts of the Transmission Licensee. The Depreciation (%) so arrived shall be multiplied by the Average GFA approved by the Commission for the relevant Financial Year to arrive at the Depreciation for that Financial Year.*

*10.43 In case of de-capitalization of assets, the cumulative depreciation shall be adjusted by taking into account the depreciation recovered through tariff corresponding to the decapitalised asset during its useful services.”*

- 6.6.3. The Petitioner has calculated depreciation on the projected GFA as per the above-mentioned provisions. Following depreciation rates which are in line with the MYT Regulations, 2020 are provided in the table below:

**Table 63 Depreciation Rates**

Particulars	Depreciation Rates
Land and land rights	0.00%
Building	2.67%
Plant and Machinery	4.22%

Particulars	Depreciation Rates
Lines and Cable Network	4.22%
Vehicles	12.77%
Furniture and Fixture	6.33%
Office Equipment	6.33%
Spare Units/Service Units	4.22%
Others Civil Works	2.67%

6.6.4. The following table shows the depreciation claimed by the Petitioner for the FY 2023-24.

**Table 64 Depreciation Expenses Projected for the FY 2023-24**

Particulars	All figures are in Rs. Crore	
	FY 2023-24 Approved	FY 2023-24 Projected
Opening GFA	2,330.41	3,875.75
Addition during the year	29.99	215.07
Closing GFA	2360.40	4090.82
Average GFA	2345.41	3983.28
Depreciation during the year	127.44	167.60

6.6.5. It is submitted that the fixed assets and depreciation pertaining to SLDC assets have not been considered while determining the fixed assets and depreciation for the JUSNL for FY 2023-24.

6.6.6. The Petitioner requests the Hon'ble Commission to kindly approve the claimed depreciation expense for the FY 2023-24.

## 6.7. Interest Expenses

6.7.1. The interest charges have been computed based on the clauses 10.28 to 10.36 of the MYT Regulations, 2020:

*“10.28 The loans arrived at in the manner indicated in Clauses 10.23 and 10.24 of these Regulations shall be considered as gross normative loan for calculation of interest on loan.*

*10.29 The normative loan outstanding as on April 01, 2021 shall be worked out by deducting the cumulative repayment as admitted by the Commission up to March 31, 2021 from the gross normative loan.*

*10.30 The repayment for the year of the Control Period shall be deemed to be equal to the depreciation allowed for that year.*

*10.31 In case of de-capitalization of assets, the repayment shall be adjusted by taking into account cumulative repayment on a pro-rata basis and the adjustment should not*

*exceed cumulative depreciation recovered up to the date of de-capitalization of such assets.*

*10.32 Notwithstanding any moratorium period availed by the Transmission Licensee, there payment of loan shall be considered from the first year of commercial operation of the scheme.*

*10.33 The rate of interest shall be the weighted average rate of interest calculated on the basis of the actual loan portfolio at the beginning of each Year applicable to the Transmission Licensee: Provided that if there is no actual loan for a particular year but normative loan is still outstanding, then the rate of interest shall be considered on normative basis and shall be equal to the Bank Rate as on April 01 of the respective year of the Control Period plus 200 basis points.*

*10.34 The interest on loan shall be calculated on the normative average loan of the year by applying the weighted average rate of interest.*

*10.35 The above interest computation shall exclude interest on loan amount, normative or otherwise, to the extent of capital cost funded by Consumer Contribution, Grants or Deposit Works carried out by Transmission Licensee.*

*10.36 The Transmission Licensee shall make every effort to re-finance the loan as long as it results in net savings on interest and in that event the costs associated with such refinancing shall be borne by the users and the net savings shall be shared between the users and the Transmission Licensee, in the ratio of 50:50.”*

6.7.2. Assets proposed to be capitalized during the FY 2023-24 have been funded by the State Government Funds and the World Bank Funds. The State Government Funds are being provided to the JUSNL in the form of Loan at an interest rate of 13%. The World Bank Funds are being provided in the form of loan and equity divided in the ratio of 70:30. The rate of interest of the World Bank Loan is 2.5%.

6.7.3. The following table shows the interest charges for the FY 2023-24:

**Table 65 Interest Expenses Projected for FY 2023-24**

Particulars	All figures are in Rs. Crore	
	FY 2023-24 Approved	FY 2023-24 Projected
<b>Opening Loan</b>	1109.74	4895.42
Loan for additional Capex	28.97	215.07
Loan Repayment	127.69	167.60
<b>Closing Loan</b>	1011.02	4942.89
<b>Interest Cost on Avg. Loans</b>	<b>95.43</b>	<b>482.93</b>

6.7.4. The rate of interest has been considered as 9.82% which is the weighted average rate of interest calculated on the basis of the actual loan portfolio of the JUSNL for the FY 2022-23. The computation of the interest rate is provided below:

**Table 66 Weightage Average Rate of Interest**

All figures are in Rs. Crore

Rate of Interest	FY 2022-23
<b>Opening Loan</b>	4603.96
Loan for additional Capex	668.45
Loan Surrendered	376.99
<b>Closing Loan</b>	4895.42
<b>Average Loan</b>	4749.69
Interest Paid during the Year	466.29
Interest Rate	9.82%

- 6.7.5. The Petitioner requests the Commission to kindly approve the above amount with respect to interest expenses for FY 2023-24.

### 6.8. Return on Equity

- 6.8.1. As per Regulation 10.26 and 10.27 of the JSERC Transmission Tariff Regulations, 2020 Return on Equity shall be calculated as follows: -

***“Return on Equity***

*10.26 The rate of return on equity shall be 14.00% (post-tax) for the Control Period.*

*10.27 Return on equity for each year shall be allowed on equity employed in assets in use considering the following:*

*a) Equity employed in accordance with Clause 10.23 of these Regulations on assets (in use) capitalised as on the beginning of the year; and*

*b) 50% of the equity projected to be employed in accordance with Clause 10.24 of these Regulations on assets (in use) commissioned during the year.”*

- 6.8.2. The Petitioner has considered equity base of Rs. 1600.96 Crore (Rs. 1598.96 Crore towards equity share capital + Rs. 2.00 Crore towards restructuring account pending adjustment) for the FY 2023-24 as reflected in the annual audited accounts. The State Government has infused Rs. 626.00 Crore of equity during the FY 2020-21 in JUSNL. This equity pertains to the equity amount of the World Bank funded schemes being implemented by JUSNL. The applicable return on equity has been calculated considering 14.00% rate of return as per Regulation 10.26 of JSERC Transmission Tariff Regulations, 2020. The detailed calculation of return on equity is provided below:

**Table 67 Return on Equity Projected for FY 2023-24**

All figures are in Rs. Crore

Particulars	FY 2023-24	FY 2023-24
	Approved	Projected
Opening Equity	350.61	1600.96
Addition in Equity on account of new capitalization	1.02	0.00

Particulars	FY 2023-24	FY 2023-24
	Approved	Projected
Closing equity	351.63	1600.96
Average Equity	351.12	1600.96
<b>Return on Equity</b>	<b>49.16</b>	<b>224.13</b>

- 6.8.3. The Petitioner requests the Hon'ble Commission to approve the return of equity as provided above.

### 6.9. Interest on Working Capital

- 6.9.1. The clause 10.44 of the JSERC (Terms and Conditions of Determination of Transmission Tariff) Regulations, 2020 provides methodology for calculation of normative Working Capital is as follows:

“10.44 Working Capital for the Transmission Licensee shall comprise:

(a) Maintenance spares @ 15% of the O&M expenses specified in Clauses 10.19- 10.21 of these Regulations;

(b) Receivables equivalent to 45 days of annual fixed cost;

(c) Operation and Maintenance expenses for one month; (d) Less: Interest on amount, if any, held as security deposits from Transmission system users.”

- 6.9.2. The clause 10.46 and 10.46 of the JSERC MYT Regulations, 2020 provides methodology for calculation of interest rate for calculation of IoWC is as follows:

“10.45 Rate of interest on working capital shall be equal to the Bank Rate as on September 30 of the financial year in which the MYT Petition is filed plus 350 basis points. At the time of true up, the interest rate shall be adjusted as per the actual rate prevailing on April 01 of the financial year for which truing up exercise has been undertaken.

10.46 The interest on working capital shall be payable on normative basis notwithstanding that the Transmission Licensee has not taken working capital loan from any outside agency.”

- 6.9.3. The Petitioner would like to submit that it has arrived at the working capital requirement according to the applicable norms as provided in the JSERC MYT Regulations, 2020, the calculation for which has been shown in the following table. In line with the above Regulations actual MCLR rate prevailing on 30th September, 2023 i.e. 8.55% plus 350 basis points has been considered for calculation of interest on Working Capital for the FY 2023-24.

**Table 68 Interest on Working Capital Projected for FY 2023-24**

*All figures are in Rs. Crore*

Particulars	FY 2023-24	FY 2023-24
	Approved	Projected
O&M Expenses for one Month	9.99	18.52



Particulars	FY 2023-24 Approved	FY 2023-24 Projected
15% of O&M expense as Maintenance Spares	17.99	33.33
Receivables equivalent to 45 days of annual fixed cost	47.73	135.69
<b>Total Working Capital requirement</b>	<b>75.71</b>	<b>187.54</b>
<b>Interest on Working Capital</b>	<b>7.95</b>	<b>22.60</b>

6.9.4. The Hon'ble Commission is requested to kindly approve the interest on working capital loan as provided above for FY 2023-24.

### 6.10. Non-Tariff Income

6.10.1. The clause 10.32 of the JSERC (Terms and Conditions of Determination of Transmission Tariff) Regulations, 2020 states as follows:

*"10.50 The Non-Tariff Income shall include:*

- a) Income from rent of land or buildings;*
- b) Income from sale of scrap;*
- c) Income from investments;*
- d) Interest accrued on advances to suppliers/contractors;*
- e) Interest income on loans / advances to employees;*
- f) Income from rental of staff quarters;*
- g) Income by rental from contractors;*
- h) Income by hire charges from contractors and others;*
- i) Income by supervision charges, etc.;*
- j) Supervision charges for capital works;*
- k) Income from advertisements;*
- l) Income from sale of tender documents;*
- m) Profit from sale of assets (i.e. difference in Sale Value and Book Value)*
- n) Any other Non-Tariff Income."*

6.10.2. For projection of the non-tariff income for FY 2023-24, the Petitioner has considered the non-tariff income estimated for FY 2022-23 for FY 2023-24.

6.10.3. Accordingly, the non-tariff income projected by the Petitioner for FY 2023-24 is summarized in the following table:

**Table 69 Non-Tariff Income Projected for FY 2023-24**

<i>All figures are in Rs. Crore</i>		
Particulars	FY 2023-24 Approved	FY 2023-24 Projected
<b>Non tariff Income</b>	<b>12.79</b>	<b>18.90</b>

6.10.4. The Hon'ble Commission is requested to kindly approve the non-tariff income as provided above for FY 2023-24.

### 6.11. ARR for the FY 2023-24

6.11.1. The Gross ARR for the FY 2023-24 consists of the O&M Costs, depreciation, interest and finance costs, interest on working capital and return on equity. These costs are then adjusted for Non-Tariff Income and other Income. Following is the total revenue requirement for FY 2023-24 for the JUSNL:

**Table 70 ARR Projected for FY 2023-24**

*All figures are in Rs. Crore*

Particulars	FY 2023-24 Approved	FY 2023-24 Projected
O&M Expense	120.55	222.21
Depreciation	127.44	167.60
Interest Cost on Long-term Capital Loans	95.43	482.93
Interest on Working Capital Loans	7.95	22.60
Return on Equity	49.16	224.13
<b>Total</b>	<b>400.53</b>	<b>1,119.47</b>
<b>Less:</b>		
Non-Tariff Income	12.79	18.90
<b>Annual Revenue Requirement</b>	<b>387.74</b>	<b>1,100.57</b>

6.11.2. JUSNL has arrived at the Annual revenue Requirement for the FY 2023-24 as shown in the above table.

6.11.3. In the light of the above explanation the Petitioner would request the Hon'ble Commission to approve the above towards ARR for the FY 2023-24.

## 7. Determination of Transmission Tariff for FY 2023-24

### 7.1. Preamble

- 7.1.1. JUSNL considers power tariff as a sensitive subject having substantial impact on social, economic and financial well-being of the State as well as the viability and growth of power sector. The transmission tariff has been determined based upon the aggregate revenue requirement and transmission capacity of transmission system.

### 7.2. Methodology of Recovery of ARR

- 7.2.1. As per the Clause 10.58 to Clause 10.60 of the JSERC (Terms and Conditions of Determination of Transmission Tariff) Regulations, 2020:

*“10.58 The fixed cost 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.*

*10.59 The transmission charge (inclusive of incentive) payable for a calendar month for a Transmission System or part thereof shall be*

- a. For TAFM < 98%  $AFC \times (NDM/NDY) \times (TAFM/98\%)$*
- b. For TAFM: 98% < TAFM < 98.5%  $AFC \times (NDM/NDY) \times (1)$*
- c. For TAFM: 98.5% < TAFM < 99.75%  $AFC \times (NDM/NDY) \times (TAFM/98.5\%)$*
- d. For TAFM > 99.75%  $AFC \times (NDM/NDY) \times (99.75\%/98.5\%)$*

*Where, AFC = Annual Fixed Cost specified for the year, in Rupees;*

*NDM = Number of days in the month;*

*NDY = Number of days in the year; and*

*TAFM = Transmission system availability factor for the month, in percent, computed in accordance with Appendix –III to these Regulations.*

*10.60 The Transmission Licensee shall raise the bill for the transmission charge (inclusive of incentive) for a month based on its estimate of TAFM. Adjustments, if any, shall be made on the basis of the TAFM to be certified by the SLDC within 30 days from the last day of the relevant month.”*

- 7.2.2. As per the JSERC (Framework for sharing of charges for Intra-State Transmission System) Regulations, 2019:

*“5.2 The Annual Transmission Charges shall be divided between Transmission System Users of the Transmission System on monthly basis based on the Allotted Transmission Capacity.*

*5.3 If a Transmission System has been created for a particular Long-Term Transmission Customer including dedicated transmission line(s) for a generating station, transmission charges for such Transmission System shall be payable by*

*that Long- Term Transmission Customer based on the Transmission Service Agreement.*

*5.4 For the Long-Term Transmission Customers and Medium-Term Transmission Customers, the transmission charges shall be shared in accordance to the share of capacity allotted:*

*Monthly Transmission Charges for Intra-State system payable by a Long Term Transmission Customer and Medium Term Transmission Customer of that Transmission System*

$$= [ATC \times Allotted \text{ Transmission capacity}] / [Total \text{ Transmission Capacity} \times 12]''$$

- 7.2.3. The ARR for the FY 2023-24 has been determined as Rs. 1100.33 Crore in the previous chapter. The same is considered as the Annual Transmission Charges for the FY 2023-24. Further, the JUSNL has also considered the total revenue gap of Rs. 2274.43 Crore till FY 2021-22 for computation of the transmission charges for FY 2023-24. The JUSNL requests the Hon'ble Commission to approve Rs. 3375.00 Crore as the Annual Transmission Charges for the FY 2023-24.

### 7.3. Determination of Transmission Capacity of the System

- 7.3.1. The Transmission Capacity of the system shall be determined by considering the total power purchase capacity allocated to the JBVNL and Railway in the state of Jharkhand. The total power purchase capacity allocated to JBVNL presently is 2579.10 MW(excluding DVC) and the total power purchase capacity allocated to Railway is 70 MW. The total power purchase capacity of JBVNL has been considered from the ARR and Tariff Petition filed by JBVNL for the FY 2023-24. Hence, the total transmission capacity of the system is 2649.10 MW.

### 7.4. Determination of Transmission Charges

- 7.4.1. The monthly transmission charges to be recovered from JBVNL during the FY 2023-24 are as follows:

**Table 71 Monthly Transmission Charges for JBVNL**

Sr. No.	Particulars	FY 2023-24
1	Annual Transmission Charges for FY 2023-24 (Rs. Crore)	3375.00
2	Total Transmission Capacity (MW)	2649.10
3	Total Transmission Capacity allocated to JBVNL (MW)	2579.10
4	Annual Transmission Charges to be levied to JBVNL (Rs. Crore)	3285.82
5	Monthly Transmission Charges to be levied to JBVNL (Rs. Crore)	273.82

- 7.4.2. The monthly transmission charges to be recovered from Railways during the FY 2023-24 are as follows:

**Table 72 Monthly Transmission Charges for Railways**

Sr. No.	Particulars	FY 2023-24
1	Annual Transmission Charges for FY 2021-22 (Rs. Crore)	3375.00
2	Total Transmission Capacity (MW)	2649.10
3	Total Transmission Capacity allocated to Railways (MW)	70.00
4	Annual Transmission Charges to be levied to Railways (Rs. Crore)	89.18
5	Monthly Transmission Charges to be levied to Railways (Rs. Crore)	7.43

- 7.4.3. The JUSNL would like to submit that while computing the transmission charges, the JUSNL has also included the cumulative revenue gap till FY 2021-22 of Rs. 2274.43 Crore as detailed under table no. 39. The JUSNL requests the Hon'ble Commission to approve the transmission charges including the total revenue gap incurred till FY 2021-22 as the same has to be recovered from the beneficiaries of the JUSNL.
- 7.4.4. The JUSNL requests the Hon'ble Commission to approve the Transmission Charges for the JBVNL and Railways subject to target availability.
- 7.4.5. The JUSNL would like to submit to the Hon'ble Commission to approve the transmission tariff as per the JSERC (Framework for sharing of charges for Intra-State Transmission System) Regulations, 2019. In the MYT Order dated 23.6.2023, the Hon'ble Commission has approved the transmission tariff on a per unit basis. However, the Regulations stipulate the licensee to levy the charges as per the allocated transmission capacity of the users. Hence, it is requested to approve the transmission charges on the basis of the allocated transmission capacity of the users of the JUSNL.

## **7.5.Determination of Transmission Charges for Short Term Open Access Consumers**

JUSNL has determined the short term open access charges as per the Jharkhand State Electricity Regulatory Commission (Terms and Conditions for Intra-State Open Access) Regulations, 2016. As per Regulation 19.1 (b) of the Regulations:

*“(b) The charges payable by a short-term Consumer shall be calculated in accordance with the following methodology:*

$$ST\_RATE = 0.5 \times [AFC / Av\_CAP] / 365$$

Where:

*“ST\_RATE” is the rate for short-term access Consumer in Rs per MW per day.*

*“AFC” means the Annual Fixed Transmission/Distribution Charges of the S.T.U transmission or distribution licensee for the previous financial year determined by the Commission.*

*“Av\_CAP” means the average electrical power in MW served by the system during the previous financial year.*

*The charges payable by a short-term Consumer shall be for one day for availing access for each day or part thereof.*

*Non-availability of AFC for the system shall not be reason for delay in providing transmission access and where AFC for any transmission licensee are not available, the per MW per day charge applicable for the system owned by the State Transmission Utility of the region in which the system of transmission licensee is situate, shall be used.”* Accordingly, the short term open access charges for the FY 2022-23 and FY 2023-24 have been worked out as follows:

**Table 73 Short Term Open Access Charges for FY 2022-23**

Particulars	Unit of Measurement	FY 2022-23
AFC (FY 2021-22)	Rs. Crore	945.21
Av_CAP (FY 2021-22)	MW	1210.95
ST Rate	Rs./MW/Day	10692.48
ST Rate	Rs./MWHr	445.52

**Table 74 Short Term Open Access Charges for FY 2023-24**

Particulars	Unit of Measurement	FY 2023-24
AFC (FY 2022-23)	Rs. Crore	1,064.92
Av_CAP (FY 2022-23)	MW	1301.21
ST Rate	Rs./MW/Day	11211.13
ST Rate	Rs./MWHr	467.13

7.5.1. The JUSNL requests the Hon'ble Commission to approve the short term open access charges for the FY 2022-23 and FY 2023-24.