

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



**FILING OF PETITION FOR BUSINESS PLAN FOR THE MYT CONTROL
PERIOD FY 2021-22 TO FY 2025-26**

**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 Petition for submission of Business Plan for MYT Control Period FY 2021-22 to FY 2025-26 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 16th September 2013 and registered with the Registrar of Companies, Jharkhand, Ranchi and has obtained Certificate of Commencement of Business on 12th November 2013.
3. Jharkhand Urja Sancharan Nigam Ltd. (herein after to be referred to as "JUSNL" or "the Petitioner") has been incorporated on 23rd October 2013 with the Registrar of Companies, Ranchi, Jharkhand, 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 Urja Sancharan Nigam Ltd. is duly registered with the Registrar of Companies, Ranchi on 23rd 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 12th 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 Business Plan and Tariff Application for the Third Control Period i.e. FY 2021-22 to FY 2025-26.
5. The instant petition is filed with the Hon'ble Commission for filing of Business Plan for the MYT Control Period FY 2021-22 to FY 2025-26.
6. This Business Plan 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.

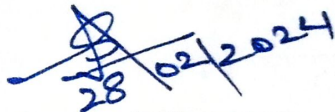
Prayers before the Hon'ble Commission:

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 Business Plan for the MYT Control Period FY 2021-22 to FY 2025-26 under 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;
- d. Pass suitable Orders with respect to the Business Plan for the Control Period FY 2021-22 to FY 2025-26;

- e. Pass separate Order for the Petitioner against the present petition;
- f. JUSNL may also be permitted to propose suitable changes to the respective Business Plan, 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;
- g. 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;
- h. 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 Urja Sancharan Nigam Limited
(Petitioner)


28/02/2024
Authorized Signatory

Place: Ranchi

Dated:

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1. Introduction

1.1. Background

1.1.1. 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. The erstwhile Jharkhand State Electricity Board (JSEB) was constituted on March 10, 2001 under the Electricity (Supply) Act, 1948 as a result of the bifurcation of the erstwhile State of Bihar. Before that, the Jharkhand State Electricity Board (JSEB) was the predominant entity entrusted with the task of generating, transmitting and supplying power in the State.

1.1.2. 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 Jharkhand State Electricity Board (herein after referred to as “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 16th September 2013 and registered with the Registrar of Companies, Jharkhand, Ranchi and has obtained Certificate of Commencement of Business on 12th November 2013.



1.1.3. The Energy Department, Government of Jharkhand, vide its Letter No. 1/Board-01-Urja-26/13 -1745 dated 28th June 2013 unbundled the erstwhile JSEB into following companies:

- a. “**Jharkhand Bijli Vitran Nigam Ltd**”, means the Distribution Company to which the Distribution Undertakings of the Board are transferred in accordance with this Scheme.
- b. “**Jharkhand Urja Utpadan Nigam Ltd**” means the Generating Company to which the Generating Undertakings of the Board are transferred in accordance with this Scheme;
- c. “**Jharkhand Urja Sancharan Nigam Ltd**” means the Transmission Company to which the Transmission Undertakings of the Board are transferred in accordance with this Scheme;
- d. “**Jharkhand Urja Vikas Nigam Ltd**” means the Company that owns all shares of newly incorporated reorganized three companies i.e. Jharkhand Urja Utpadan Nigam Ltd, Jharkhand Urja Sancharan Nigam Ltd and Jharkhand Bijli Vitran Nigam Ltd;

- 1.1.4. Jharkhand Urja Sancharan Nigam Ltd. (herein after to be referred to as “JUSNL” or “the Petitioner” was incorporated on 23rd 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 Urja Sancharan 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) (vide. notification no. 384 dated 04.02.2019), 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 Urja Sancharan 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 Business Plan for the MYT Control Period.
- 1.1.9. The Govt. of India notified the Electricity Act, 2003 on 10th 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 Urja Sancharan Nigam Limited has placed utmost efforts to adhere to the said Regulations framed by this Hon'ble Commission.

1.2. Procedural History

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

Table 1 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 th January 2014 to 31 st 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 th Jan'14 to 31 st 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 st February 2019, on True – up for FY 2013-2014 (6 th January 2014 to 31 st 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

1.3. Rationale for filing of Instant Petition

- 1.3.1. 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.
- 1.3.2. The current petition has been prepared in accordance with the provisions of the following Acts/ Policies/ Regulations:
- The Electricity Act, 2003;
 - The National Electricity Policy;
 - The National Tariff Policy, and amendments issued therein;
 - JSERC (Terms and Conditions for Determination of Transmission Tariff) Regulations, 2020 and its amendments thereof, along with the other guidelines and directives issued by the JSERC from time to time.

- 1.3.3. The Petitioner has made genuine efforts for compiling all relevant information relating to the Business Plan 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.

1.4. Key Objectives of the Business Plan

- 1.4.1. The key objectives of this business plan have been listed below:

- Providing a tool for strategic planning - The primary objective of the Business Plan is to analyse and anticipate the future requirements in advance and strategically plan for the capital investments, related means of financing and various associated costs and document them which would serve as an effective tool for monitoring and execution of future works. It is important to project the growth in transmission network infrastructure commensurate with the energy demand required for fuelling the economic growth targets of the State.
- Meeting the regulatory compliance of submission of a business plan as mandated by the JSERC (Terms and Conditions for Determination of Transmission Tariff) Regulations, 2020.
- Aid in decision making leading to better Operational Efficiency: The Business Plan is prepared so as to be useful for the Managing Board, associated stakeholders, the Hon'ble Commission and various government bodies. The future projections in the Plan would help the transmission utility in decision making and taking proactive actions, and thus improving the overall operational efficiency of the transmission network infrastructure

1.5. Contents of the Petition

- 1.5.1. This Petition comprises of following sections:
- i. Introduction and Background
 - ii. Profile of the JUSNL
 - iii. Capital Investment Plan

2. Overall Approach and Provision of Law

2.1. Present Approach

- 2.1.1. JUSNL is filing its Business Plan for the MYT Control Period FY 2021-22 to FY 2025-26 for the consideration of the Hon'ble Commission.
- 2.1.2. JUSNL had filed the Business Plan for the MYT Control Period FY 2021-22 to FY 2025-26 on 13.10.2022. The Hon'ble Commission had issued the Order for approval of the Business Plan on 23.06.2023 wherein the planned schemes were disallowed. Thereafter, JUSNL filed the review petition of the same along with supplementary revised Business Plan for the MYT Control Period FY 2021-22 to FY 2025-26 on 07.11.2023. The Hon'ble Commission vide. Order 20th February, 2020 directed JUSNL to file Business Plan for the MYT Control Period FY 2021-22 to FY 2025-26 along with the ARR and Tariff Petition for FY 2024-25. Hence, in compliance of the directions provided by the Hon'ble Commission, JUSNL is filing the present petition for approval of Business Plan for the MYT Control Period FY 2021-22 to FY 2025-26.
- 2.1.3. The Petitioner requests the Hon'ble Commission to kindly approve the Business Plan for the FY 2021-22 to FY 2025-26.

2.2. Data and information sources

- 2.2.1. In this Petition, appropriate pro-rata projections and escalations have been taken over the previous year. The Business Plan for the FY 2021-22 to FY 2025-26 is based on projections and escalations over the previous year, keeping in mind the historical trends and key initiatives planned, in line with the guidelines provided by the Hon'ble Commission for determining the same. Further, the capital expenditure plan has been proposed based on the new capital expenditure schemes envisaged to be implemented by the JUSNL during the Control Period FY 2021-22 to FY 2025-26.

2.3. Provision of Law

- 2.3.1. Provisions for Business Plan as provided in the JSERC (Terms and Conditions for Determination of Transmission Tariff) Regulations, 2020 are as follows:

“6.5 The Transmission Licensee shall file for the Commission's approval, a Business Plan approved by an authorised signatory, as per the timelines specified in Section A 24 of these Regulations.

6.6 The Business Plan shall be for the entire Control Period and shall, inter-alia, contain:

(a) Capital Investment Plan: This should be commensurate with load growth and quality improvement proposed in the Business Plan. The Capital Investment Plan should also include corresponding capitalisation schedule and financing plan;

The Transmission Licensee shall also submit scheme-wise capital structure and cost of financing (interest on debt) and return on equity, Grant, Deposit Works along with terms of the existing loan agreements, etc., as a part of Capital Investment Plan;

(b) Operational Plan: Actual yearly Transmission Loss in the preceding Control Period along with year wise projection of Transmission Loss for the next Control Period.

(c) Human Resource Plan with manpower planning including details of the estimated year wise manpower addition and retirements for the Control Period to meet the growth in demand;

(d) A set of targets proposed for other controllable items such as transmission system availability, Transmission losses, return on equity, depreciation, working capital requirement, performance targets, Employee, R&M and A&G Expenses etc., along with detailed break up and any other information used for preparing projections of various performance parameters and other components during the Control Period. The targets shall be consistent with the Capital Investment Plan proposed by the Transmission Licensee;

(e) Proposals for Non-Tariff Income with item-wise description and details;

(f) Proposals in respect of income from Other Business; and

(g) Business Plan shall also contain the requisite information for the preceding Control Period:

Provided that requisite information for the preceding Control Period shall include year-wise audited data on Scheme-wise capital investment, capacity enhancement plan, if any, proposed efficiency improvements and its cost benefit analysis, quality improvement measures undertaken, Employee Expenses, Repair & Maintenance Expenses and A&G Expenses along with detailed break up and any other information used for preparing projections of various performance parameters and other components during the Control Period.

”

2.3.2. In line with the above provisions, JUSNL has submitted the Business Plan for the MYT Control Period FY 2021-22 to FY 2025-26.

3. Company Profile

3.1. Profile of JUSNL

- 3.1.1. 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.
- 3.1.2. 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.
- 3.1.3. 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
- 3.1.4. The operation of JUSNL transmission network is majorly divided into 5 Zones, 8 Circles, 13 Divisions and 42 Sub-divisions. Name of Zones are: - Zone I – Ranchi, Zone II – Dumka, Zone III – Jamshedpur, Zone IV – Daltonganj, Zone V – Hazaribagh.

3.2. Current Infrastructure Details

- 3.2.1. JUSNL handles the load from various Generating Stations including:
- State Generating Stations;
 - Allocation from Central Generating Stations;
 - Independent Power Producers (IPPs);
 - Captive Power Plant;
 - Renewable Power Integration including solar;
- 3.2.2. 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 JBVNL as well as other HT consumers.
- 3.2.3. The total Grid sub-station capacity of JUSNL is 9885 MVA of 400 kV, 220 kV and 132 kV Class in 55 GSS (Up to 31st March, 2022) & 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 2 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
Grid Substations (No.)									
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
Total No of GSS (No.)	30	35	36	39	40	43	50	54	55
Transformer Capacity (MVA)									
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
Total Transformer Capacity (MVA)	3690	4745	5295	5555	5655	6905	8305	9885	9985
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

4. Capital Investment Plan

4.1. Proposed Capital Expenditure for FY 2021-22 to FY 2025-26

4.1.1. For improving the transmission network availability and to strengthen the overall transmission network, JUSNL proposes massive Capital Expenditure in construction of new transmission lines and substation. The detailed breakup of proposed capital expenditure during the second control period FY 2021-22 to 2025-26 has been indicated below:

Table 3 Proposed Capital Expenditure for the MYT Control Period

All figures are in Rs. Crore

Business Plan for Planned Projects								
Sl No.	Project	Estimated Amount (in Cr.)	Capital Expenditure Schedule					
			FY 22	FY 23	FY 24	FY 25	FY 26	
1	220/132/33 kV Grid sub-station, Koderma	43.99			4.40	17.60	22.00	
2	220/132/33 kV Grid sub-station, Patratu	90.44			9.04	36.18	45.22	
3	132/33 KV Grid Sub-Station, Kundhit	44.59			31.21	13.38		
4	132 KV Jamtara - Madhupur Transmission line of propose LILO at Kundhit grid	39.53			27.67	11.86		
5	220/132/33 kV Grid Sub-Station, Hazaribagh	127.53			12.75	51.01	63.77	
6	220 KV D/C Tenughat - Hazaribagh Transmission line	86.96			8.70	34.78	43.48	
7	220/132/33 KV Grid Sub Station, Baliyapur	131.82			13.18	52.73	65.91	
8	LILO of 220 KV D/C Dumka - Govindpur at Baliyapur GSS	42.26			4.23	16.90	21.13	

Business Plan for Planned Projects								
SI No.	Project	Estimated Amount (in Cr.)	Capital Expenditure Schedule					
			FY 22	FY 23	FY 24	FY 25	FY 26	
9	220 kV Dhanbad (NKTL) – Baliyapur Transmission line	29.48			2.95	11.79	14.74	
10	220/132/33 kV, 2x200+2x80 MVA GSS, Gomia Grid Sub-station	131.82			13.18	52.73	65.91	
11	220 kV D/C TTPS- Gomia Transmission line	29.48			2.95	11.79	14.74	
12	220/132/33 kV Bero Grid Sub-station & associated transmisison line	128.00				25.60	38.40	Spill Over to next contr ol period
13	220/132/33 Grid Sub Station, Sarwal & associated trasmission line	110.00				22.00	33.00	
14	220/132/33 Grid Sub Station, Palajori & associated trasmission line	103.00				20.60	30.90	

Business Plan for Planned Projects							
SI No.	Project	Estimated Amount (in Cr.)	Capital Expenditure Schedule				
			FY 22	FY 23	FY 24	FY 25	FY 26
15	Design, Engineering, Supply, Erection, Testing and Commissioning of 2x200 MVA, 220/132 kV Grid Sub Station (AIS) at Jadugoda (New) (220 KV - TRF Bay-02 Nos. Line Bay-04 nos. B/C-01 nos. Bus Transfer Bay-01 Nos, 132 KV- TRF Bay-02 Nos, Line Bay-04 Nos, Transfer Bus coupler Bay-01 Nos) & 02 Nos of 132 Bay at 132/33 kV Grid Sub Station Dhalbhumgarh (Existing) with dismantling work for 02 Nos 132 KV Bay and 33 KV Bay Sub Station galvanized Steel structure of 132 KV New Jadugoda-Dhalbhumgarh Transmission line at 132/33 kV Grid Sub Station Dhalbhumgarh (Existing).	114.41				45.76	68.65

Business Plan for Planned Projects							
SI No.	Project	Estimated Amount (in Cr.)	Capital Expenditure Schedule				
			FY 22	FY 23	FY 24	FY 25	FY 26
16	Design, Engineering, Supply, Erection, Testing and Commissioning of 220 kV D/C Transmission Line Chandil (New) – Jadugoda (New) (51.3KM), 220 kV D/C Transmission Line Chaibasa (PGCIL) – Jadugoda (New) (47.7 KM).	126.95				50.78	76.17
17	Design, Engineering, Supply, Erection, Testing and Commissioning of 132 kV D/C Transmission Line Jadugoda (New) – Dhalbhumgarh (63.4KM).	63.93				25.57	38.36
18	Supply, Installation, Testing & Commissioning of 02 nos. 132 kV bays at 220/132 kV Jasidih GSS, 02 nos. of 132 kV bay at 132/33 kV Chitra GSS, 01 nos 132 kV bay at 132/33 kV Simdega GSS, 02 nos. 132 kV bays at 132/33 kV Latehar GSS.	15.04			7.52	7.52	

Business Plan for Planned Projects							
SI No.	Project	Estimated Amount (in Cr.)	Capital Expenditure Schedule				
			FY 22	FY 23	FY 24	FY 25	FY 26
19	132/33 KV GSS, 100 MVA, AIIMS Devipur, Doghar and LILO of 132 KV DC Madhupur Jasidih TL at 132/33 KV Devipur	64.79				38.87	25.92
	Total	1524.01	0.000	0.000	137.78	547.46	668.28

4.1.2. It can be seen from the table given above that the JUSNL plans to invest Rs. 1524.01 Crore in various capital expenditure schemes during the 3rd MYT Control Period.

4.2. Proposed Capitalization

4.2.1. The capitalization proposed for the various capital expenditure schemes during the MYT Control Period is provided in the table below:

Table 4 Proposed Capitalization Schedule for the MYT Control Period

All figures are in Rs. Crore

Business Plan for Planned Projects							
SI No.	Project	Estimated Amount (in Cr.)	(Projected Capitalization Schedule)				
			FY 22	FY 23	FY 24	FY 25	FY 26
1	220/132/33 kV Grid sub-station, Koderma	43.99					43.99
2	220/132/33 kV Grid sub-station, Patratu	90.44					90.44
3	132/33 KV Grid Sub-Station, Kundhit	44.59				44.59	
4	132 KV Jamtara - Madhupur Transmission line of propose LILO at Kundhit grid	39.53				39.53	

Business Plan for Planned Projects							
SI No.	Project	Estimated Amount (in Cr.)	(Projected Capitalization Schedule)				
			FY 22	FY 23	FY 24	FY 25	FY 26
5	220/132/33 kV Grid Sub-Station, Hazaribagh	127.53					127.53
6	220 KV D/C Tenughat - Hazaribagh Transmission line	86.96					86.96
7	220/132/33 KV Grid Sub Station, Baliyapur	131.82					131.82
8	LILO of 220 KV D/C Dumka - Govindpur at Baliyapur GSS	42.26					42.26
9	220 kV Dhanbad (NKTL) – Baliyapur Transmission line	29.48					29.48
10	220/132/33 kV, 2x200+2x80 MVA GSS, Gomia Grid Sub-station	131.82					131.82
11	220 kV D/C TTPS- Gomia Transmission line	29.48					29.48
12	220/132/33 kV Bero Grid Sub-station & associated transmission line	128.00					Spill Over to next control period
13	220/132/33 Grid Sub Station, Sarwal & associated transmission line	110.00					
14	220/132/33 Grid Sub Station, Palajori & associated transmission line	103.00					

Business Plan for Planned Projects							
SI No.	Project	Estimated Amount (in Cr.)	(Projected Capitalization Schedule)				
			FY 22	FY 23	FY 24	FY 25	FY 26
15	Design, Engineering, Supply, Erection, Testing and Commissioning of 2x200 MVA, 220/132 kV Grid Sub Station (AIS) at Jadugoda (New) (220 KV - TRF Bay-02 Nos. Line Bay-04 nos. B/C-01 nos. Bus Transfer Bay-01 Nos, 132 KV- TRF Bay-02 Nos, Line Bay-04 Nos, Transfer Bus coupler Bay-01 Nos) & 02 Nos of 132 Bay at 132/33 kV Grid Sub Station Dhalbhumgarh (Existing) with dismantling work for 02 Nos 132 KV Bay and 33 KV Bay Sub Station galvanized Steel structure of 132 KV New Jadugoda-Dhalbhumgarh Transmission line at 132/33 kV Grid Sub Station Dhalbhumgarh (Existing).	114.41					114.41
16	Design, Engineering, Supply, Erection, Testing and Commissioning of 220 kV D/C	126.95					126.95

Business Plan for Planned Projects							
SI No.	Project	Estimated Amount (in Cr.)	(Projected Capitalization Schedule)				
			FY 22	FY 23	FY 24	FY 25	FY 26
	Transmission Line Chandil (New) – Jadugoda (New) (51.3KM), 220 kV D/C Transmission Line Chaibasa (PGCIL) – Jadugoda (New)(47.7 KM).						
17	Design, Engineering, Supply, Erection, Testing and Commissioning of 132 kV D/C Transmission Line Jadugoda (New) – Dhalbhumgarh (63.4KM).	63.93					63.93
18	Supply, Installation, Testing & Commissioning of 02 nos. 132 kV bays at 220/132 kV Jasidih GSS, 02 nos. of 132 kV bay at 132/33 kV Chitra GSS, 01 nos 132 kV bay at 132/33 kV Simdega GSS, 02 nos. 132 kV bays at 132/33 kV Latehar GSS.	15.04				15.04	
19	132/33 KV GSS, 100 MVA, AIIMS Devipur, Doghar and LILO of 132 KV DC Madhupur Jasidih TL at 132/33 KV	64.79					64.79

Business Plan for Planned Projects							
SI No.	Project	Estimated Amount (in Cr.)	(Projected Capitalization Schedule)				
			FY 22	FY 23	FY 24	FY 25	FY 26
	Devipur						
	Total	1524.01	0.000	0.000	0.000	99.15	1083.86

4.2.2. The following schemes shall be taken up for augmentation during the MYT Control Period:

Table 5 Proposed Augmentation Schedule for the MYT Control Period

All figures are in Rs. Crore

SI No.	Description	Amount
1	Replacement of 1x20 MVA by 1x50 MVA, 132/33 kV Transformer at GSS Gumla.	6.63
2	Replacement of 2x50 MVA by 2x80 MVA, 132/33 kV Transformer at GSS Govindpur.	18.55
3	Addition of 1x50 MVA, 132/33 kV Power transformer at GSS Sariya	5.16
4	Installation of 1x50 MVA 132/33 kV Power Transformer at GSS Deoghar along with repairing of existing transformer.	6.64
5	Replacement of 1x20 MVA by 1x50 MVA, 132/33 kV Transformer at GSS Jadugoda.	5.13
6	Installation of 1x50 MVA 132/33 kV Power Transformer at GSS Adityapur (Ramchandrapur).	5.16
7	Replacement of 220/132 kV 1x150 MVA Auto Transformer at GSS Adityapur (Ramchandrapur).	10.51
8	Augmentation of 132/33kV GSS Lohardaga from 3 nos. x 50 MVA to 2 nos. x 80 MVA + 1no. x 50 MVA along with 4 nos. additional 33 kV Feeder bays etc.	23.57
	Total	81.35

4.2.3. Out of RS. 81.35 Crore, capital expenditure of Rs. 16.27 Crores shall be incurred during FY 2023-24 and the remaining amount shall be incurred during FY 2024-25. Further, all the schemes considered under augmentation shall be capitalized during the FY 2024-25.

4.2.4. The JUSNL will capitalize schemes valuing Rs. 1264.36 Crores during the 3rd MYT Control Period. The total capitalization is summarized as below:

Table 6 Proposed Capitalization Schedule for the MYT Control Period including Augmentation Schemes*All figures are in Rs. Crore*

S. No.	Particulars	Scheme Value	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26
1	Planned Schemes	1524.01	0.00	0.00	0.00	99.15	1083.86
2	Augmentation	81.35	0.00	0.00	0.00	81.35	0.00
	Total	1605.36	0.00	0.00	0.00	180.50	1083.86

4.3. Rational for Capital Expenditure

4.3.1. The capital expenditure is primarily for establishment of new substations along with associated transmission network to take care of the existing and future load demand. In addition to above, the Capital Expenditure is required for following purposes:

- To reduce load on existing substation and transmission lines.
- To meet demand & load growth.
- To reduce the loading on connecting 11 kV feeders and to maintain % voltage regulation and peak load with permissible limit.
- Due to erection of new sub stations, 11 KV feeders gets bifurcated hence the length of the 11KV line and peak load of 11KV feeder reduces considerably, which results in reduction of T&D losses.
- Some of the substation locations, where augmentation of sub stations / transmission line is not possible due to space constrain in switch yard/ control room to meet the existing and additional load demand, infrastructure is required to be developed.
- 33 KV System is normally developed based on the load requirement of Discoms. To support it, strengthening of 220 kV / 400 kV substations along with associated transmission network become essential.
- One single 33 kV feeder in GSS should not feed power to more than two PSS. This leads to power failure in major areas in case of unavailability of the 33 kV feeder. Therefore, new substations are required to be commissioned to minimize the dependency on a single feeder to ensure reliable power.
- Strengthen the transmission network for system improvement like voltage profile, catering more power and additional reactive compensation.

4.4. Justification for Implementation of the Capital Expenditure Schemes under Business Plan

- **132/33 kV GSS Khundit and associated transmission line:**

Kundhit 132/33kV substation is proposed to be constructed along with LILO of Jamtara-Madhupur D/C line. The time frame is taken to be F.Y 2024-25, when

Narayanpur 132/33 kV substation is also proposed to have already been commissioned with LILO of the same Jamtara-Madhupur D/C line. It is seen that Jamtara 132/33kV GSS is feeding the distribution PSS via long distance 33kV lines, towards the Kundhit area and along the Jharkhand-West Bengal border which results in voltage drop and loss at the 33kV & downstream. **Hence with the proposed network condition it is seen that the voltage profile at 33kV bus and downstream improves due reduction in 33kV line length to the distribution PSS in the region which reduces loss to 0.6-0.7% approximately in the area with provision to meet the future local load growth along the region.**

- **220/132 kV Hazaribagh & associated transmission line:**

Jharkhand Urja Sancharan Nigam Ltd has to provide quality electric supply in Hazaribagh district. At present, there is no transmission network of JUSNL in Hazaribagh. Hazaribagh gets power from very old Grid Sub-station of DVC with daily load shedding of indefinite hours. DVC has not modernized or constructed new grid to reliable & quality supply power to Domestic & Commercial Consumers. In past five years, Domestic & Commercial consumers have been doubled and still DVC is not supplying power to Domestic consumers of the Hazaribagh area.

To overcome this problem, JUSNL has decided to construct a new 220/132/33 kV Grid Sub-station at Hazaribagh having capacity of 2x200+2x50 MVA. The proposed grid will be charged to 220 kV D/C Tenughat- Hazaribagh Transmission line.

After construction of above grid, district headquarter and adjacent area of Hazaribagh i.e. Hazaribagh, Pathargama, Barkagaon, Bishnugarh, Ichak, Tatijhariya, Chouparan, Barhi, Padma, Sadar etc. and other neighboring areas of Hazaribagh will also get quality and stable power. This will facilitate quality & stable power with improved voltage to the above mentioned PSS due to shorter length of 33 kV lines; this will reduce transmission losses also.

- **220/132 kV Baliyapur & associated transmission line:**

Jharkhand Urja Sancharan Nigam Ltd has to provide quality electric supply in Dhanbad district. At present, there is insufficient transmission network of JUSNL in Dhanbad district. Dhanbad gets power from very old Grid Sub-station of DVC with daily load shedding of indefinite hours. DVC has not modernized or constructed new grid to supply reliable & quality power to Domestic & Commercial Consumers. In past five years, Domestic & Commercial consumers have been doubled and still DVC is not supplying power to Domestic consumers of the Dhanbad area.

To overcome this problem, JUSNL has decided to construct a new 220/132/33 kV Grid Sub-station at Baliyapur having capacity of 2x200+2x80 MVA as well as 220

kV D/C 3 Ph Govindpur- Baliyapur and 132 kV D/C 3 Ph Mahuda-Baliyapur transmission line.

Construction of GSS is essential taking consideration of inadequate capacity of transmission network in adjacent area of Dhanbad district due to rapid growth in population, urbanization & industries as well as joint initiative of Govt. of India and Govt. of Jharkhand to meet 24x7 Power For All. Construction of Dhanbad Grid and associated transmission line is also essential for supply in adjacent area of Dhanbad i.e. Dhanbad, Baliyapur, Nirsar, Govindpur, Pathardih Putki, Tundi, Purbi Tundi, etc. This will facilitate quality & stable power with improved voltage to the above mentioned PSS due to shorter length of 33 kV lines. This will reduce transmission losses also.

- **220/132 kV Gomia & associated transmission line:**

Jharkhand Urja Sancharan Nigam Ltd has to provide quality electric supply in Bokaro district. At present, there is no transmission network of JUSNL in Bokaro district. Bokaro gets power from very old Grid Sub-station of DVC with daily load shedding of indefinite hours. DVC has not modernized or constructed new grid to supply reliable & quality power to Domestic & Commercial Consumers. In past five years, Domestic & Commercial consumers have been doubled and still DVC is not supplying power to Domestic consumers of the Bokaro area.

To overcome this problem, JUSNL has decided to construct a new 220/132/33 kV Grid Sub-station at Gomia having capacity of 2x200+2x80 MVA. The proposed grid will be charged by 220 kV D/C 3 Ph TTPS (Tenughat Thermal Power Station)-Gomia Transmission line.

After construction of above grid, adjacent area of Bokaro will get quality JUSNL power. Adjacent area of Bokaro i.e. 1. Dugda, 2. Chas, 3. Chandrapura 4. Bermo, 5. Nawadih, 6. Jaridih, 7. Kasmar, etc. and other neighboring areas of Dugda, etc. will also get quality and stable power. This will facilitate quality & stable power with improved voltage to the above mentioned PSS due to shorter length of 33 kV lines. This will reduce transmission losses also.

Construction of GSS is essential taking consideration of inadequate capacity of transmission network in adjacent area of Purbi Singhbhum district due to rapid growth in population, urbanization & industries as well as joint initiative of Govt. of India and Govt. of Jharkhand to meet 24x7 Power For All target by 2018-19. Construction of Jadugoda Grid and associated transmission line is also essential for supply in adjacent area of Purbi Singhbhum i.e. Chakuliya, Dhalbhumgarh, Bahragora, Gurabanda, Dumaria, Musabani, Ghatshila etc.

This will facilitate quality & stable power with improved voltage to the above-mentioned PSS due to shorter length of 33 kV lines; this will reduce transmission losses also. The following components will be built part the proposed strengthening project.

- New 220/132kV AIS Substation at Jadugoda

- 132 kV Bay Extension at Dalbhoomgarh
- 100 Km of 220kV D/C 3 Ph. Transmission Line starting PGCIL Chaibasa and passing through New Substations Jadugoda and terminates at New 400/220kV AIS Substation Chandil.
- 64 Km of 132 kV D/C 3 Ph. Transmission Line Jadugoda - Dalbhumgarh (New) (64 KM)

• **Necessity for construction of 07 Nos of bay extension at existing Grid Substation.**

1. **01 Nos. of 132 KV Line bay at 132/33 KV Simdega GSS –**

132/33 KV GSS at Kalebira GSS is being constructed under World bank Funded project and for charging of this grid 132 KV D/C Kalebira Simdega Transmission line is also being constructed under World bank Funded project. For termination of this line at Existing Simdega Grid, one bay is required.

2. **02 Nos. of 132 KV Line bay at 132/33 KV Chitra GSS –**

132/33 KV GSS at Sarath GIS is being constructed under World bank Funded project and for charging of this grid 132 KV D/C Sarath Chitra Transmission line is also being constructed under World bank Funded project. For termination of this line at Existing Chitra Grid, two (02) bays are required.

3. **02 Nos. of 132 KV Line bay at 220/132 KV Jasidih GSS –**

132/33 KV GSS at Hansdiha GSS is being constructed under World bank Funded project and for charging of this grid 132 KV D/C Hansdiha-Jasidih Transmission line is also being constructed under World bank Funded project. For termination of this line at Existing Jasidih Grid, two (02) bays are required.

4. **02 Nos. of 132 KV Line bay at 132/33 KV Latehar GSS –**

132/33 KV GSS at Mahuadanr GSS is being constructed under World bank Funded project and for charging of this grid 132 KV D/C Latehar Mahuadanr Transmission line is also being constructed under World bank Funded project. For termination of this line at Existing Latehar Grid, two (02) bays are required.

• **Augmentation technical report**

Presently there are 53 nos. of Grid Sub-Station with 9885 MVA transformation capacity of 400 kV, 220 kV & 132 kV voltage class supported by 3775 Km. and work for 43 nos. GSS with 5630 MVA transformation capacity along with 2509 Km. transmission line is under construction.

To ensure 24x7 continuous power availability, reliable and quality power to the people of Jharkhand, augmentation & upgradation of existing old & over loaded transmission system also become necessary simultaneously with aforesaid ongoing and planned project.

Keeping in view of strengthening of existing old & overload transmission network as well as fulfilment of N-1 criteria as per CEA guidelines, the following augmentation schemes are taken into consideration for F.Y. 2022-23 & 2023-24 :

- 1) **Gumla and adjoining area** : Presently Gumla and adjoining area are getting power from 132/33 kV GSS, Gumla through different 33/11 kV PSS and its transformation capacity is 40 MVA (2x20 MVA). But health of existing 01 no. 20 MVA power transformer are not good due to said transformers are very old. The load demand in such areas are gradually increasing. As such 01 no. 50 MVA power transformer is required to meet the load demand.
- 2) **Dhanbad & adjoining area** :- Presently Dhanbad and adjoining area are getting power from recently commissioned (in year 2021) 220/132/33 kV GSS, Govindpur through different 33/11 kV PSS and its transformation capacity is 100 MVA. The load demand in such areas are gradually increasing. To meet the load demand, it has been proposed for replacing 02 nos. existing 50 MVA power transformer with 02 nos. 80 MVA power transformer.
- 3) **Saria & adjoining area** :- 132/33 kV Grid Sub-Station, Saria is recently commissioned with 1x50 MVA power transformer instead of 2x50 MVA power transformer due to 01 no. 50 MVA power transformer was diverted to 132/33 kV GSS, Chitra. In compliance of CEA guidelines to fulfillment of N-1 criteria as well as supply of uninterrupted power, 01 no. transformer required to be installed.
- 4) **AIIMS Deoghar**:- AIIMS hospital is newly constructed near Devipur at Deoghar district. This hospital is getting power from 132/33 kV GSS, Deoghar and its transformation capacity was 3x50 MVA, but 01 no. 50 MVA transformer has recently in breakdown condition. This transformer will be sent to manufacturer for its repairing.

To achieve reliable and uninterrupted power supply to AIIMS Deoghar, dedicated transformer is required. As such 01 no. 50 MVA power transformer is required to be installed at GSS, Deoghar.
- 5) **Jadugora and adjoining area** : Presently Jadugora and adjoining area are getting power from 132/33 kV GSS, Jadugora through different 33/11 kV PSS and its transformation capacity is 90 MVA (1x50+2x20 MVA). But health of existing 02 nos. 20 MVA power transformers are not good due to said transformers are very old. The load demand in such areas is gradually increasing since 1988. As such 01 no. 50 MVA power transformer is required to meet the load demand.
- 6) **Jamshedpur & Adityapur and adjoining area** : Jamshedpur & Adityapur and adjoining area are getting power from 220/132 kV GSS and 132/33 kV GSS at

Adityapur (Ramchandrapur) through different 33/11 kV PSS and its total transformation capacity is 500 MVA (3x150 MVA & 1x50 MVA). The load demand in such areas are gradually increasing. But health of existing 01 nos. 150 MVA power transformer is not in good condition due to said transformers being very old. ERPC protection audit team also suggested for its replacement. As such replacement of this transformer becomes very necessary.

Further, 132/33 kV GSS, Adityapur was commissioned with 2x50 MVA power transformer. Due to urgency, 01 no. 50 MVA power transformer was diverted to 132/33 kV GSS, Golmuri on dated 08.07.2022. In compliance of CEA guidelines to fulfillment of N-1 criteria as well as supply of uninterrupted power, 01 no. transformer is required to be installed.

4.5. Transmission Network necessary to meet the Load Growth

- 4.5.1. That the peak load of Jharkhand was approx. 2000MW in 2017 (1400MW JBVNL + 600MW DVC). As per earlier projection load growth of Jharkhand was 5161MW (4561MW JBVNL + 600MW DVC) till 2021-22 including DVC command Area.
- 4.5.2. That the present peak load of Jharkhand has gone up to 2800MW including 600MW of DVC. The present load is in the situation of insufficient Transmission network. A lot of Transmission Projects are under construction, which are delayed due to delay in forest clearances and ROW issues. After completion of these projects, the peak load of Jharkhand will grow substantially up to 3500MW. Further it is expected to grow the peak load of Jharkhand substantially up to 4500-5000MW in next five years.
- 4.5.3. That Jharkhand is rich state in terms of Forest and other natural resources. In the Jharkhand State, it has been observed that no transmission line is without Forest and forest clearance is very tedious job. It takes substantial time in forest clearance and resolving other ROW issues. From the past experience, it has been observed that forest clearance of Transmission lines takes approx. 4-5 years or even more in some cases. For example, PGCIL is constructing 400KV D/C Latehar- Patratu Transmission line of JUSNL since 2012 and forest clearance of this transmission line has not been given by forest Department. Forest clearance of 132KV D/C Simdega – Gumla Transmission line and 220KV D/C Chatra – Latehar Transmission line took more than 6Years.
- 4.5.4. In order to meet the above mentioned projected load growth, it is essential to start the construction of required Transmission Projects immediately so that JUSNL may able to cater the load growth of JBVNL in time

4.6. Business Plan in conformity with the CEA

- 4.6.1. The Business Plan submitted herewith was part of the Perspective Plan submitted by JUSNL with the CEA. The same has been approved by the CEA. The following has been stated in the Minutes of 1st meeting of ERSTC held on 16.07.2018:

“8.12 After deliberations members of the view that Jharkhand may not be able to attain the demand projected by them for 2021-22 time-frame, considering present trend in demand and also projections in 19th EPS. However, the system proposed by JUSNL at 8.2 was agreed with suggestions that the implementation of system may be done in phased manner matching with the growth of the electricity demand in the state.”

4.7.Reduction of Technical Losses

- 4.7.1. The Ministry of Power from time to time has launched several Reform and Modernization (restructuring/modification) schemes to augment and modernize 33/11 kV sub stations. Normally the length of 33 kV line should be less than 30 kms as per the guidelines of R-APDRP Part B scheme launched in 2005.
- 4.7.2. Also, as per the JSERC (Distribution Licensees Standards of Performance Regulations, 2015) issued by the Hon'ble JSERC, any fault on the 33 kV line has to be rectified within 4 to 6 hrs.
- 4.7.3. Therefore, keeping in view the above, schemes have been implemented regarding installation and commissioning of the 220/132/33 kV GSS with a view that JUSNL GSS must be in proximity to 33/11 kV substations, so that the length of 33 kV feeder from 132 kV GSS is as per the guidelines of R-APDRP and is around the prescribed line length of 30 kms.
- 4.7.4. It is further submitted that 625 no. of 33/11 kV sub-stations have been constructed since 2015 in Jharkhand. In order to maintain healthy power system, on a 33 kV feeder, maximum 2 no. of substations are constructed to provide optimum power supply to the consumers from 132 kv Feeder. However, in Jharkhand the average no. of substations constructed on a single 132 kv feeder with 5 no's of 33 kV feeders is way above the standard practice. In case the 132 kv feeder trips, power supply to all the substations is affected resulting in inconvenience to the consumers. Hence, JUSNL is constructing more no. of 132/33 kV grid substations so that so that the network utilization is optimized.

4.8. Board Approval Accorded

- 4.8.1. The approval for 132/33 kv GSS, Kundhit and 132 kv Jamtara - Madhupur Transmission line of propose LILO at Kundhit grid was accorded in the 46th meeting of the Board of Directors of JUSNL held on 04.05.2022.
- 4.8.2. The approval for 220/132/33 kv GSS, Hazaribagh, 220/132/33 kv GSS, Gomia and 220/132/33 kv GSS Baliyapur was accorded in the 51st meeting of the Board of Directors of JUSNL held on 14.02.2023.

- 4.8.3. The approval for 220/132 kv GSS, Jadugoda, 02 Nos of 132 kv Bay at 132/33 kV Grid Sub Station Dhalbhumgarh, 220 kV D/C Transmission Line Chandil (New) – Jadugoda (New), 220 kV D/C Transmission Line Chaibasa (PGCIL) –Jadugoda (New), 132 kV D/C Transmission Line Jadugoda (New) – Dhalbhumgarh was accorded in the 53rd meeting of the Board of Directors of JUSNL held on 26.06.2023.
- 4.8.4. The approval for 220/132/33 kV GSS, Patratu and 220/132/33 kV Grid sub-station, Koderma was accorded in the 54th meeting of the Board of Directors of JUSNL held on 03.08.2023.

Table 7 Summary of Approval of BOD and Sanction Letters

S. No.	Name of Scheme	Approval of BOD	Sanction letter of State Government
1	<ul style="list-style-type: none"> 220/132/33 kv GSS, Patratu 220/132/33 kv Grid sub-station, Koderma 	54 th Meeting of BOD held on 03.08.2023	Letter no. 79, dated 19.07.2023 of Energy Department, GoJ
2	<ul style="list-style-type: none"> 132/33 kv GSS, Kundhit LILO of 132 kv Jamtara - Madhupur Transmission line 	46 th Meeting of BOD held on 04.05.2022	Resolution no. 1622, dated 05.08.2022 of Energy Department, GoJ Letter no. 199 dated 03.03.2023 of Energy Department, GoJ
3	<ul style="list-style-type: none"> 220/132/33 kv GSS, Hazaribagh, 220/132/33 kv GSS, Gomia 220/132/33 kv GSS Baliyapur 	51 st Meeting of BOD held on 14.02.2023	Letter no. 81 dated 19.07.2023 of Energy Department, GoJ
4	<ul style="list-style-type: none"> 220/132 kv GSS, Jadugoda, 02 Nos of 132 kv Bay at 132/33 kV Grid Sub Station Dhalbhumgarh, 220 kV D/C Transmission Line Chandil (New) – Jadugoda (New), 220 kV D/C Transmission Line Chaibasa (PGCIL) – Jadugoda (New), 132 kV D/C Transmission 	53 rd Meeting of BOD held on 26.06.2023	-

S. No.	Name of Scheme	Approval of BOD	Sanction letter of State Government
	Line Jadugoda (New) – Dhalbhumgarh		
5	<ul style="list-style-type: none"> Augmentation Schemes 	50 th Meeting of BOD held on 13.12.2022	Letter No. 78 dated 19.07.2023 of GoJ

4.8.5. For the remaining schemes proposed in the Business Plan, the approval of the Board of Directors of JUSNL shall be sought as and when the schemes are planned to be implemented.

4.8.6. That the petitioner is submitting following documents in support of above transmission schemes:-

- Board of Directors (BoD) approval (Annexure-A)
- Government of Jharkhand Approval (Annexure-B)
- CEA approval (Annexure-C)
- Detailed Project Report (DPR) (Annexure-D)

4.9. Financing Plan

4.9.1. The capital expenditure for the MYT Control period is proposed to be funded through debt. The capital expenditure schemes shall be funded through State Government Funds. The State Government Funds are being provided to the JUSNL in the form of Loan at an interest rate of 13%.

Annexure A
(Board of
Directors
Approval)



झारखण्ड ऊर्जा संचरण निगम लिमिटेड

JHARKHAND URJA SANCHARAN NIGAM LIMITED

(CIN: U40108JH2013SGC001704)

Regd. Office: - JUSNL Building, Kusai Colony, Doranda, Ranchi - 834002.

Telephone: - 0651-2490118

EXTRACT OF MINUTES OF FIFTY-FOURTH (54TH) MEETING OF THE BOARD OF DIRECTORS OF JHARKHAND URJA SANCHARAN NIGAM LIMITED HELD ON THURSDAY, 3RD DAY OF AUGUST, 2023 AT 12:30 PM AT ENGINEERING BUILDING, DHURWA, RANCHI - 834004.

ITEM NO. 54-08:

Appraisal report against compliance of decision taken in 50th BoD, JUSNL vide agenda item no. 50-10.

Salient features of the Agenda Note were briefed before the Board.

It was apprised to the Board that in compliance of decision of the Board of Directors, JUSNL taken in 50th meeting w.r.t agenda item no. 50-10, fresh tenders were invited for constructions of transmission lines and grids for evacuation of power from Patratu Super Thermal Power Plant. Also, Energy Department was requested to accord fresh administrative approval which has been accorded and communicated vide letter no. 79 dated 19.07.2023.

Six tenders for construction of transmission lines have been finalized and issued LoA on 20.07.2023. The above NITs were finalized with standard price variation clause on major items applicable as per IEEMA (Indian Electrical & Electronic Manufactures Association) formula. The tenders for construction of GSS are still in progress.

After deliberation, the Board of Directors took note of the progress and the compliance of BoD decision taken in 50th meeting.

Date: 04/08/2023

Place: Ranchi

For Jharkhand Urja Sancharan Nigam Limited

Ankita Agarwal
04/08/23
(Ankita Agarwal)
Company Secretary



JHARKHAND URJA SANCHARAN NIGAM LIMITED

(CIN No. - U40108JH2013SGC001704)

Regd. Office - 2nd Floor, JUSNL (SLDC) Building, Kusai Colony, Doranda, Ranchi-02

Agenda Item No. 54-08/2023-24

Sub: Appraisal report against compliance of decision taken in 50th BoD, JUSNL vide agenda item no. 50-10.

Background

Administrative approval of project cost amounting to Rs. 2181.96 Crore was accorded by BoD, JUSNL in its 38th meeting on 05.11.2020 followed by 46th meeting held on 04.05.2022 vide item no. 46-10 on account of revised project cost for construction of following transmission projects :-

Sl. No.	Name of Project	Transformation Capacity (MVA)	Length of Transmission Line (Km.)	Estimated cost (Rs. in crore)
1	400/220 kV, 2 x 500 MVA Grid Sub-Station Chandil along with associated 400 kV D/C 3 Ph QM Patraru-Chandil transmission line (135 km), 400 kV D/C 3 Ph QM Chandil - Dhanbad transmission line (133km), 400 kV D/C 3 Ph QM Chandil - Chaibasa transmission line (100 km.) & 220 kV D/C Chandil - Chandil transmission line (20 km) on turnkey basis.	1000	388	1303.72
2	400/220/132/33 kV, 2 x 500 + 2x200 + 2x90 MVA Grid Sub-Station Koderma along with associated 400 kV D/C 3 Ph Quad moose Patraru-Koderma TL (150 km) & 220 kV D/C Koderma-Giridih transmission line (80 km) on turnkey basis.	1560	230	787.75
3	220/132/33 kv, 2 x 200 + 2x50 MVA Grid Sub-Station Patraru along with associated 220 kV Link line (20 Km.)	500	20	90.49
Total Amount				2181.96

Energy Department, Govt. of Jharkhand was approached by JUSNL for the administrative approval of the project. Cabinet of Govt. of Jharkhand pleased to accord administrative approval of the project vide resolution no. 284 dated 18.02.2022 against agenda item no. 49 on dated 10.02.2022. Approval of Cabinet was communicated vide sanction order no. 197 dated 14.03.2022 of Energy Department, Govt. of Jharkhand with sanction of fund amounting to Rs. 31.55 Crore for the construction of above project.

Tendering activity

e-tenders was invited vide NIT No. 451 to 453/PR/JUSNL/2021-22 for following packages for this project :-

- Construction of 400/220/132/33 kV Grid Sub-Station Koderma & 400 kV D/C 3 Ph QM Patraru-Koderma Transmission line.
- Construction of 400/220 kV Grid Sub-Station Chandil & 400 kV D/C 3 Ph QM Chandil - Dhanbad GSS Transmission line.



- (iii) 400 kV D/C 3 Ph QM Patratu-Chandil Transmission line & 400 kV D/C QM 3 phase Chandil-Chaibasa (PGCIL) Transmission line.

Apart from the above, NIT was also invited vide NIT No. 454/PR/JUSNL/2021-22 for construction of 220/132/33 kV GSS, Patratu and 220 kV Link line which was being dealt with another file and in process.

Decision of 46th BoD, JUSNL

Matter of construction of project mentioned in above sl. no. (i) to (iii) was deliberated by the BoD of JUSNL in its 46th meeting held on 04.05.2022 in which BoD of JUSNL had taken decision to cancel the NITs and invite the fresh NITs with amended SBD against agenda item no. 46-12-03.

NIT was invited with amended SBD vide NIT No. 32, 33 & 34 PR/JUSNL/22-23 and after 1st time extension, following three bidders participated in all three NITs :-

- (i) M/s Kalpataru Power Transmission Limited
- (ii) M/s Transrail Lighting Ltd
- (iii) M/s Larsen and Toubro Limited

After technical & financial evaluation, the price obtained against the floated bid was as follows :-

Sl. No.	NIT NO.	Name of work	Adm Approval/ estimated cost as per NIT	Name of L1 bidder	L1 quoted rate after discount	% higher from estimated cost
1	32/PR/JUSNL/22-23	400/220/132/33 kV GSS, Koderma and 400 kV D/C 3 Ph QM Patratu-Koderma Transmission line	637,60,00,000.00	M/s L&T Ltd., Chennai	9,54,55,68,572.88	49.71%
2	33/PR/JUSNL/22-23	400/220 kV GSS, Chandil and 400 kV D/C QM 3 phase Chandil - Dhanbad GSS Transmission line	530,79,00,000.00	M/s Kalpataru Power Transmission Limited	7,95,90,64,901.00	49.95%
3	34/PR/JUSNL/22-23	400 kV D/C 3 Ph QM Patratu-Chandil Transmission line and 400 kV D/C QM 3 phase Chandil-Chaibasa	6,75,24,00,000.00	M/s Kalpataru Power Transmission Limited	10,12,07,72,177.66	49.88%

The matter was placed before 50th BoD meeting for decision on award of work to L1 bidder against the above mentioned NITs.

Decision of 50th BoD, JUSNL

After deliberation on the facts and proposal, the Board of Direction unanimously decided to :-

1. Cancel the NITs/ tender under process against resolution no. 284 dated 18.02.2022 and sanction order no. 197 dated 14.03.2022 off Energy Department, Govt. of Jharkhand.
2. Prepare revised estimate on latest Board approved schedule of rates of JUSNL.
3. Invite fresh tender for the project after obtaining revised administrative approval from energy Department, Govt. of Jharkhand.



Compliance of Decision taken in 50th BoD, JUSNL

1. NIT no. 32, 33, 34 & 173/PR/JUSNL/2022-23 and RFP no. 100/PR/JUSNL/2021-22 has been cancelled.
2. Revised estimate was prepared by the field officers on the basis of approved SOR 2022-23 of JUSNL after re-visiting the quantities required for execution of work and this was duly sanctioned by the office of G.M. (Engg.), JUSNL, details of which is as follows :-

Sl. No.	Name of Project	Amount
1	400/220/132/33 kV GSS, Koderma and associated 400 kV D/C QM Patraru - Koderma and 220 kV D/C Koderma - Giridih Transmission line	785,27,66,802.00
2	400/220 kV GSS, Chandil and associated 400 kV D/C QM Patraru - Chandil, 400 kV QM D/C Chandil - Dhanbad, 400 kV QM D/C Chandil - Chaibasa and 220 kV D/C Chandil - Chandil Transmission line	1302,13,73,455.00
3	220/132/33 kV GSS, Patraru and associated Link line.	90,43,94,471.00
Total Amount		2177,85,34,728.00

Energy Department, Govt. of Jharkhand has been requested for revised administrative approval for above mentioned project vide letter no. 19 dated 04.03.2023 and letter no. 24 dated 21.03.2023 of MD, JUSNL.

Fresh tenders have been invited against the work as per instruction of MD, JUSNL, detail of which is as follows :-

NIT No.	Name of the works	Estimated cost excluding charges of statutory clearance (in Rs.)
280/PR/JUSNL/22-23	Design, Engineering, Supply, Erection, Testing and Commissioning of 400/220/132/33 kV, 2 x 500 + 2x160 + 2x80 MVA Grid sub-station including construction of Control Room Building & approach road with other civil works at Koderma on turnkey basis.	213,34,29,174.87
281/PR/JUSNL/22-23	Design, Engineering, Supply, Erection, Testing and Commissioning of 400 kV D/C 3 Ph QM Patraru-Koderma Transmission line (133 Km.) on turnkey basis.	444,71,30,733.99
282/PR/JUSNL/22-23	Design, Engineering, Supply, Erection, Testing and Commissioning of 400/220 kV, 2 x 500 MVA Grid sub-station including construction of Control Room Building & approach road with other civil works at Chandil on turnkey basis.	169,66,52,039.49
283/PR/JUSNL/22-23	Design, Engineering, Supply, Erection, Testing and Commissioning of 400 kV D/C QM 3 phase Chandil - Dhanbad GSS Transmission line (130 Km.) on turnkey basis.	439,66,11,547.07
284/PR/JUSNL/22-23	Design, Engineering, Supply, Erection, Testing and Commissioning of 400 kV D/C 3 Ph QM Patraru-Chandil Transmission line (130 Km.) on turnkey basis.	439,15,32,577.02
285/PR/JUSNL/22-23	Design, Engineering, Supply, Erection, Testing and Commissioning of 400 kV D/C QM 3 phase Chandil - Chaibasa (PGCIL) Transmission line (50 Km.) on turnkey basis.	171,71,52,817.48



NIT No.	Name of the works	Estimated cost excluding charges of statutory clearance (in Rs.)
286/PR/JUSNL/22-23	Design, Engineering, Supply, Erection, Testing and Commissioning of 220/132/33 kV, 2 x 200 + 2x50 MVA Grid sub-station at Patraru on turnkey basis	87,80,98,859.01
287/PR/JUSNL/22-23	Design, Engineering, Supply, Erection, Testing & Commissioning of following transmission line on turnkey basis :- (i) 220 kV D/C PTPS Link Lines at Patraru (ii) 220 kV D/C 3 Ph Koderma-Giridih Transmission Line. Approximate total length of T/L is 80 Km.	87,99,77,152.27
288/PR/JUSNL/22-23	Engineering, Supply, Erection, Testing & Commissioning of 220 kV D/C 3 phase 400/220 Chandil GSS - Chandil Transmission line (10 Km.)	11,61,05,588.27
399/PR/JUSNL/22-23	Procurement of Consultancy Services for Project Management Consultant to support JUSNL in construction of Grid Sub Stations at Koderma, Chandil and Patraru & its associated Transmission lines	63,26,60,858.00

The above whole matter along with upto date development was submitted for appraisal of Directors of BoD, JUSNL vide e-mail dated 08.02.2023 of the Company Secretary, JUSNL.

The above NITs were opened on 17.02.2023 & 06.03.2023. After completion of evaluation, the matter has been placed before CFD, JUSNL in its 30th meeting held on 19.06.2023.

CFD of JUSNL accorded approval on award of LOA to L1 bidder as tabulated below :-

Sl. No	Name of Project & NIT No.	Name of participated bidder	Name of successful L1 Bidder	Estimated cost of NIT	Quoted price by L1 bidder	% above or below (+/-)
1	NIT No. 285/PR/JUSNL/2022-23 for 400 kV D/C QM 3 phase Chandil - Chaibasa (PGCIL) Transmission line (50 Km.)	(I) M/s K. Ramachandra Rao Transmission & Project Pvt. Ltd., Hyderabad (ii) M/s Flowmore Limited, New Delhi (iii) M/s Megha Engineering & Infrastructures Ltd.	M/s Flowmore Ltd.	1,73,71,52,817.48	1,69,11,73,297.64	-1.51
2	NIT No. 287/PR/JUSNL/2022-23 for 220 kV D/C PTPS Link Lines at Patraru and 220 kV D/C 3 Ph Koderma-Giridih Transmission Line. Approximate total length of T/L is 80 Km.	(i) M/s K. Ramachandra Rao Transmission & Project Pvt. Ltd. Hyderabad (ii) M/s Flowmore Limited, New Delhi		87,99,77,152.27	84,81,32,497.14	-3.62
Total (A)				2,59,71,29,969.75	2,53,93,05,794.78	
3	NIT No. 288/PR/JUSNL/2022-23 for 220 kV D/C 3 phase 400/220 Chandil GSS - Chandil Transmission line (10 Km.)	(i) M/s K. Ramachandra Rao Transmission & Project Pvt. Ltd. Hyderabad (ii) M/s Flowmore Limited, New Delhi (iii) M/s JDC Infra Tech Pvt. Ltd.	M/s K. Ramachandra Rao Transmission & Projects Pvt. Ltd.	11,61,05,588.27	11,47,53,033.00	-1.16
Total (B)				11,61,05,588.27	11,47,53,033.00	



Sl. No	Name of Project & NIT No.	Name of participated bidder	Name of successful L1 Bidder	Estimated cost of NIT	Quoted price by L1 bidder	% above or below (+/-)
4	NIT No. 281/PR/JUSNL/2022-23 for 400 kV D/C 3 Ph QM Patratu-Koderma Transmission line (133 Km.)	(i) M/s Montecarlo Ltd., Ahmadabad (ii) M/s Larsen & Toubro Ltd., Chennai	M/s L&T Ltd.	4,44,71,30,734.00	4,59,07,90,142.57	3.23
Total (C)				4,44,71,30,734.00	4,59,07,90,142.57	
5	NIT No. 283/PR/JUSNL/2022-23 for 400 kV D/C QM 3, phase Chandil - Dhanbad GSS Transmission line (130 Km.)	(i) M/s Megha Engineering & Infrastructures Ltd. (ii) M/s Larsen & Toubro Ltd. (iii) M/s Kalpataru Power Transmission Ltd.	M/s Megha Engineering & Infrastructures Ltd.	4,39,66,11,547.07	4,79,12,23,493.26	8.98
6	NIT No. 284/PR/JUSNL/2022-23 for 400 kV D/C 3 Ph QM Patratu-Chandil Transmission line (130 Km.)	(i) M/s Megha Engineering & Infrastructures Ltd. (ii) M/s Larsen & Toubro Ltd. (iii) M/s Kalpataru Power Transmission Ltd.		4,39,15,32,577.02	4,50,23,44,789.74	2.52
Total (D)				8,78,81,44,124.09	9,29,35,68,283.00	
7	NIT No. 399/PR/JUSNL/2022-23 for Procurement of Consultancy Services for Project Management Consultant to support JUSNL in construction of Grid Sub Stations at Koderma, Chandil and Patratu & its associated Transmission lines	(i) M/s Wapcos Ltd, Gurugram, Haryana (ii) M/s Medhaj Techno Concept Pvt. Ltd., Lucknow	M/s Medhaj Techno Concept Pvt. Ltd., Lucknow	63,26,60,858.00	54,84,16,800.00	-13.32
Total (E)				63,26,60,858.00	54,84,16,800.00	
Grand total (A+B+C+D+E+F)				1658,11,71,274.11	1708,68,34,053.35	3.05

Following 03 NITs were cancelled due to conditions imposed by L1 bidder during price justification :-

Sl. No.	Name of Project & NIT No.	Name of participated bidder	Name of successful L1 Bidder	Estimated cost of NIT	Quoted price by L1 bidder	% above or below (+/-)
1	NIT No. 280/PR/JUSNL/2022-23 for 400/220/132/33 kV, 2 x 500 + 2x160 +2x80 MVA Grid sub-station, Koderma	(i) M/s Larsen & Toubro Limited (ii) M/s Flowmore Limited (iii) M/s SMS India Private Limited (iv) M/s BNC Power Projects Ltd. Pune (v) M/s Ram Kripal Singh Construction Private Limited	M/s Ram Kripal Singh Construction Pvt. Ltd., Ranchi	2,13,34,29,175.00	1,89,25,45,757.24	-11.29
2	NIT No. 282/PR/JUSNL/2022-23 for 400/220 kV, 2 x 500 MVA Grid sub-station, Chandil	(i) M/s Larsen Toubro Limited (ii) M/s Flowmore Limited (iii) M/s Shyama Power India Ltd. (iv) M/s Ram Kripal Singh Construction Private Limited		1,69,66,52,039.49	1,49,85,59,065.16	-11.68
3	NIT No. 386/PR/JUSNL/2022-23 for 220/132/33 kV, 2 x 200 + 2x50 MVA Grid sub-station at Patratu	(i) M/s ABN Tower & Transmission Pvt. Ltd. JV with M/s R. R. Ispat (ii) M/s Flowmore Limited (iii) M/s BNC Power Project Ltd. (iv) M/s Ram Kripal Singh Construction Private Limited		87,80,98,859.01	78,27,40,390.89	-10.86

These tenders are re-floated with fresh NIT NO. 103, 104 & 105/PR/JUSNL/2023-24 among which NIT NO. 105/PR/JUSNL/2023-24 for construction of 220/132/33 kV GSS, Patratu has been opened with 04 bidder on 28.07.2023. Rest 02 NITs were extended till 14.08.2023 for wider participation due to receipt of only two bid against each NITs.



Cabinet of Govt. of Jharkhand pleased to accord revised administrative approval in its meeting held on 11.07.2023 and accordingly sanctioned order has been issued vide letter no. 79 dated 19.07.2023 of Energy Department, Govt. of Jharkhand.

On the basis of approval of CFD, JUSNL and revised administrative approval issued by Energy Department, Govt of Jharkhand, LOAs against NIT No. 281, 283, 284, 285, 287, 288/PR/JUSNL/2022-23 have been issued to L1 bidder on 20.07.2023.

As per approval of BoD, JUSNL in its 46th meeting held on 04.05.2022, the above NITs were finalized with standard price variation clause on major items applicable as per IEEMA (Indian Electrical & Electronic Manufacturers Association) formula. Also the L1 price against NIT no. 103, 104 & 105/PR/JUSNL/2023-24 is yet to be finalized, hence the awarded project cost may vary after finalization of these three NITs.

Importance of the project

This project is very necessary for evacuation of power from Patratu Super Thermal Power Plant. Ministry of Power, Govt. of India is regularly reviewing the progress of this project. While meeting held on 24.05.2022 with Secretary (Power), Ministry of Power, Govt. of India, MD, JUSNL stated that, Patratu STPP would operationalized by December 2022.

Further Hon'ble Prime Minister of India has reviewed progress of PVUNL unit along with its associated transmission line with Chief Secretary & Energy Secretary, Govt. of Jharkhand on 23.05.2022.


इस परियोजना के महत्व को मंत्रीपरिषद की बैठक दिनांक 11.07.2023 में अनुमोदित प्रस्ताव के आलोक में निर्गत स्वीकृत्यादेश में निम्नवत वर्णन किया गया है : -

“पतरातू विद्युत उत्पादन निगम लि० के उत्पादित पावर को संचरण लाईन का माध्यम से पारेषण हेतु उक्त परियोजना माननीय प्रधानमंत्री पोर्टल (PMG Portal) पर पंजीकृत है एवं इसका मुख्य सचिव, झारखण्ड के द्वारा स्वयं Monitoring किया जा रहा है तथा निर्देश प्राप्त हुआ है कि तुरंत पुनरीक्षित प्राक्कलन के आधार पर पुनर्निविदा आमंत्रित किया जाय। पुनरीक्षित प्राक्कलन की राशि ऊर्जा विभाग, झारखण्ड सरकार द्वारा स्वीकृत राशि से कम है। चूंकि ट्रांसफार्मर की क्षमता एवं संचरण लाईन की लम्बाई में परिवर्तन हुआ है तथा परियोजना की राशि में भी परिवर्तन हुआ है।”

Point of Decision

This agenda is being placed before Board of Directors, JUSNL for appraisal against compliance of decision taken in 50th BoD, JUSNL vide agenda item no. 50-10.


General Manager, C&M (NWBP)


Company Secretary, JUSNL

File No. – GM, C&M (NWBP)/1972/21-22 (Pkg-1)



झारखण्ड ऊर्जा संचरण निगम लिमिटेड

JHARKHAND URJA SANCHARAN NIGAM LIMITED

(CIN: U40108JH2013SGC001704)

Regd. Office: - JUSNL Building, Kusai Colony, Doranda, Ranchi - 834002.

Telephone: - 0651-2400804 & Fax: 0651-2400123

EXTRACT OF MINUTES OF FORTY-SIXTH (46TH) MEETING OF THE BOARD OF DIRECTORS OF JHARKHAND URJA SANCHARAN NIGAM LIMITED HELD ON WEDNESDAY, 4TH DAY OF MAY, 2022 AT 12:30 PM AT ENGINEERING BUILDING, H.E.C., DHURWA, RANCHI - 834004.

ITEM NO. 46-08:

Approval for construction of 132/33 kV Grid Sub Station, Kundhit and LILO Transmission lines of 132 Kv Jamtara-Madhupur Line at Proposed GSS, Kundhit.

Salient features of the Agenda Note were briefed before the Board, there after the Board considered the following proposal:

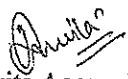
Approval is solicited for construction of 132/33 kV Grid Sub stations, Kundhit and LILO Transmission lines of 132 kV Jamtara-Madhupur Line at Proposed GSS, Kundhit.

After deliberation, the Board of Directors unanimously approved the proposal.

Date: 10.05.2022

For Jharkhand Urja Sancharan Nigam Limited

Place: Ranchi


(Ankita Agarwal)
Company Secretary



झारखण्ड ऊर्जा संचरण निगम लिमिटेड

JHARKHAND URJA SANCHARAN NIGAM LIMITED

(CIN: U40108JH2013SGC001704)

Regd. Office: - JUSNL Building, Kusai Colony, Doranda, Ranchi - 834002.

Telephone: - 0651-2490118

EXTRACT OF MINUTES OF FIFTY FIRST (51ST) MEETING OF THE BOARD OF DIRECTORS OF JHARKHAND URJA SANCHARAN NIGAM LIMITED HELD ON TUESDAY, 14TH DAY OF FEBRUARY, 2023 AT 03:00 P.M. AT ENGINEERING BUILDING, H.E.C., DHURWA, RANCHI - 834004.

ITEM NO. 51-10-01:

Agenda for approval of BoD, JUSNL to approach Energy Department, Govt. of Jharkhand revised administrative approval for construction of 220/132/33 kV GSS, 2x200+2x50 MVA GSS, Hazaribagh, 220/132/33kV GSS, 2x200+2x80 MVA GSS, Gomia & 220/132/33 kV GSS, 2x200+2x80 MVA GSS, Baliyapur and associated transmission line.

Salient features of the Agenda Note were briefed before the Board.

It was apprised to the Board that approval for construction of 220/132/33 kV GSS, 2x200+2x50 MVA GSS, Hazaribagh, 220/132/33 kV GSS, 2x200+2x80 MVA GSS, Gomia & 220/132/33 kV GSS, 2x200+2x80 MVA GSS, Baliyapur and associated transmission line are required from Govt. of Jharkhand along with funding for the project to tune of Rs. 579.35 Crore as tabulated below:-

Sl. No.	Name of Project	Transformation Capacity (MVA)	Length of TL (in Km.)	Revised Estimated Amount (in Crore)
1.	220/132/33 kV GSS, Hazaribagh and 220 kV D/C Tenughat - Hazaribagh Transmission Line	500	80	214.49
2.	220/132/33 kV GSS, Gomia and 220 kV D/C Tenughat - Gomia Transmission Line	560	25	161.30
3.	220/132/33 kV GSS, Baliyapur and 220 kV D/C Dhanbad (NKTL)-Baliyapur Transmission Line & LILO of 220 kV Govindpur-Dumka TL at GSS, Baliyapur Transmission Line	560	60	203.56
Total Amount				579.35

After deliberation, the Board of Directors unanimously approved to approach Energy Department, Govt. of Jharkhand for revised administrative approval for construction of 220/132/33 kV GSS, 2x200+2x50 MVA GSS, Hazaribagh, 220/132/33 kV GSS, 2x200+2x80 MVA GSS, Gomia & 220/132/33 kV GSS, 2x200+2x80 MVA GSS, Baliyapur and associated transmission line at an estimated expenditure of Rs. 579.35 Crore.

Date: 20.02.2023

Place: Ranchi

For Jharkhand Urja Sancharan Nigam Limited

(Ankita Agarwal)
20/02/23
Company Secretary



JHARKHAND URJA SANCHARAN NIGAM LIMITED

(CIN No. - U40108JH2013SGC001704)

Regd. Office - 2nd Floor, SLDC Building, Kusai Colony, Doranda, Ranchi - 04

Agenda Item No. 51-10-01/ 2022 -23

Sub: Agenda for approval of BoD, JUSNL to approach Energy Department, Govt. of Jharkhand for revised administrative approval for construction of 220/132/33 kV GSS, 2x200+2x50 MVA GSS, Hazaribagh, 220/132/33 kV GSS, 2x200+2x80 MVA GSS, Gomia & 220/132/33 kV GSS, 2x200+2x80 MVA GSS, Baliyapur and associated transmission line,

Background

To ensure "24x7 Power for all" and to improve the reliability of the transmission system in the state, load flow was carried out by JUSNL for the year 2021-22. Based on the power requirement in the State, a number of transmission elements was identified.

"JUSNL in its 22nd BoD meeting held on 02.02.2017 vide agenda item no. 22-18 has accorded administrative approval for construction of new Grid Sub-Station and associated transmission lines through following mode of execution as detailed below: -

Sl. No.	Mode of implementation	Amount (Rs. in crore)
1	World Bank	3033.50
2	State Plan/ REC/PFC/NABARD	2838.24
3	PPP	3550.10

Board of Directors further resolved that the mode of financing of all approved projects would be decided by the State Govt.

Energy Department, Govt. of Jharkhand vide Resolution no. 2648 dated 21.08.2017 has accorded administrative approval for transmission project (19 nos. of Grid Sub-Stations of 400kV in Chandil, Dumka, Koderma, Mandar, & Jasidih and 220kV in Bero, Noamundi, Khunti, Sarwal, Jadugoda, Tamar, Polajori, Simdega, Patratu, Hazaribagh, Gomia/ Kathara, Barkatha, Topchanchi, and Baliyapur along with associated transmission line) amounting to Rs. 5180.88 Crore to be developed through PPP mode (TBCB model) and notified to M/s RECTPCL as a Bid Process Coordinator (BPC).

Cancellation of PPP project

BoD, JUSNL in its meeting 38th meeting dated 05.11.2020 vide agenda item no. 38-09 resolved that :-



After deliberation the Board of Directors unanimously took note of the appraisal. The Board of Directors further approved to carry out urgent project by means of State Govt fund and to reassess the execution of other project through PPP mode or State Govt. Aid or other Financial Institutions like NABARD/ Canara Bank etc.

Approval of 46th BoD meeting

BoD, JUSNL in its 46th meeting held on 04.05.2022 vide agenda item no. 46-10 has resolved that :-

After deliberation, the Board of Director unanimously approved the proposal for revised project cost amounting to Rs. 2181.96 Crore for construction of 400/220/132/33 kV GSS, Koderma, 400/220 kV GSS, Chandil & 220/132/33 kV GSS, Patratu and associated transmission line.

JUSNL vide letter no. 112 dated 19.10.2020 has requested Energy Department, Govt. of Jharkhand for sanction of implementation of these projects through State Govt. funding.

Accordingly Jharkhand Cabinet, Govt. of Jharkhand on dated 10.02.2022 vide agenda no. 49, resolution no. 284 dated 18.02.2022 and sanction order no. 197 dated 14.03.2022 of Energy Department, GoJ has accorded administrative approval and sanctioned of fund amounting to Rs. 31.55 Crore for construction of above transmission project. Accordingly tender was invited and due date of opening of bid is 17.02.2023.

Requirement of construction in DVC command area to provide power supply without use of DVC transmission network to avoid dependency on DVC transmission network :-

There is requirement of construction of transmission network in DVC command area to enable complete electric supply without DVC transmission network.

JBVNL is dependent on DVC transmission network in 07 district of Jharkhand i.e. (1) Ramgarh (2) Hazaribagh (3) Chatra (4) Bokaro (5) Dhanbad (6) Giridih (7) Koderma. DVC supplies power to industrial consumers on lower rate than JBVNL, due to which industrial consumers prefers DVC network which results in great loss in terms of revenue for JBVNL. Domestic consumer in DVC command area faces problem like load regulation from the end of DVC due to payment issue between JBVNL & DVC.

At present, JUSNL is constructing 13 nos. 132/33 kV GSS in DVC command area at (1) Ramgarh, (2) Gola, (3) Peterwar, (4) Mahuda, (5) Dhugda, (6) Putki, (7) Nirsa, (8) Gawan, (9) Simaria, (10) Barkagaon, (11) Hunterganj (12) Barhi & (13) Bishnugarh.



Further there is a requirement to provide connectivity as well as strong source of power to these sub-stations hence, construction of following transmission network is also necessary :-

Sl. No.	Name of Project	Transformation Capacity (MVA)	Length of TL (in Km.)	Revised Estimated Amount (in Crore)
1.	220/132/33 kV GSS, Hazaribagh and 220 kV D/C Tenughat - Hazaribagh Transmission Line	500	80	214.49
2.	220/132/33 kV GSS, Gomia and 220 kV D/C Tenughat - Gomia Transmission Line	560	25	161.30
3.	220/132/33 kV GSS, Baliyapur and 220 kV D/C Dhanbad (NKTL)-Baliyapur Transmission Line & LILO of 220 kV Govindpur-Dumka TL at GSS, Baliyapur Transmission Line	560	60	203.56
Total Amount				579.35

In the light of above facts, approval for construction of 220/132/33 kV GSS, 2x200+2x50 MVA GSS, Hazaribagh, 220/132/33 kV GSS, 2x200+2x80 MVA GSS, Gomia & 220/132/33 kV GSS, 2x200+2x80 MVA GSS, Baliyapur and associated transmission line are required from Govt. of Jharkhand along with funding for the above project to tune of Rs. 579.35 Crore as tabulated above.

Fund :-

JUSNL will approach Energy Department, Govt. of Jharkhand for fund in F.Y. 2023-24 onwards amounting to Rs. 579.35 Crore.

Financial Concurrence

Finance has checked and vetted the draft agenda.

Point of Decision

Approval of Board of Directors, JUSNL is solicited to approach Energy Department, Govt. of Jharkhand for revised administrative approval for construction of 220/132/33 kV GSS, 2x200+2x50 MVA GSS, Hazaribagh, 220/132/33 kV GSS, 2x200+2x80 MVA GSS, Gomia & 220/132/33 kV GSS, 2x200+2x80 MVA GSS, Baliyapur and associated transmission line at an estimated expenditure of Rs. 579.35 Crore.

File No:- G.M., C&M (NWBP)/2036/2022-23

General Manager, C&M (NWBP)

Company Secretary



झारखण्ड ऊर्जा संचरण निगम लिमिटेड
JHARKHAND URJA SANCHARAN NIGAM LIMITED

(CIN: U40108JH2013SGC001704)
Regd. Office: - JHSN, Building, Kusal Colony, Dardaada, Ranchi - 834002.
Telephone: - 0661-2498112

EXTRACT OF MINUTES OF FIFTY-THIRD (53RD) MEETING OF THE BOARD OF DIRECTORS OF JHARKHAND URJA SANCHARAN NIGAM LIMITED HELD ON MONDAY, 26TH DAY OF JUNE, 2023 AT 02:00 PM AT ENGINEERING BUILDING, DHURWA, RANCHI - 834004.

ITEM NO. 53-10:

Approval for Incorporating the Project for " supply, installation testing and commissioning of 2x200 MVA, 220/132 kV GSS(AIS) at Jadugoda (New), 2 Nos of 132 kV Bay at 132/33 kV GSS Dhalbhumgarh (Existing), 220 kV D/C Transmission Line Chandil (New) – Jadugoda (New), 220 kV D/C Transmission Line Chaibasa (PGCIL) – Jadugoda (New) and 132 kV D/C Transmission Line Jadugoda (New) – Dhalbhumgarh under JPSIP (Jharkhand Power system improvement Project) Scheme.

Salient features of the Agenda Note were briefed before the Board.

It was apprised to the Board that in accordance with system report prepared by M/s Power Research and Development Consultants Pvt. Ltd. (PRDC) and modification suggested during the meetings construction of new Jadugoda GSS and its associated lines have to be executed. World Bank has agreed in principle that proposed investment can be included under the ongoing loan. The Committee of Functional Directors in its 30th meeting held on 19.06.2023 approved for placing the matter before the BoD for taking decision regarding incorporating the project into the same JPSIP scheme.

After deliberation, the Board of Directors unanimously accorded approval on incorporating the Project for " supply, installation testing and commissioning of 2x200 MVA, 220/132 kV GSS(AIS) at Jadugoda (New), 220 kV D/C Transmission Line Chandil (New) – Jadugoda (New), 220 kV D/C Transmission Line Chaibasa (PGCIL) – Jadugoda (New) and 132 kV D/C Transmission Line Jadugoda (New) – Dhalbhumgarh under JPSIP (Jharkhand Power system improvement Project) funded with World Bank(Loan) in association with state(Equity), which was earlier about to be constructed through PPP Mode, and also add 2 Nos of 132 kV Bay at 132/33 kV GSS Dhalbhumgarh (Existing) in to the same JPSIP scheme.

Date: 28.06.2023

Place: Ranchi

For Jharkhand Urja Sancharan Nigam Limited

Ankita Agarwal
28/06/23
(Ankita Agarwal)
Company Secretary



JHARKHAND URJA SANCHARAN NIGAM LIMITED

(CIN No. - U40108JH2013SGC001704)

Regd. Office - 2nd Floor, JUSNL (SIJDC) Building, Kusai Colony, Doranda, Ranchi

Agenda Item No. 53-10 / 2023-24

Sub:-

Approval for Incorporating the Project for "supply, installation testing and commissioning of 2x200 MVA, 220/132 kV GSS(AIS) at Jadugoda (New), 2 Nos of 132 kV Bay at 132/33 kV GSS Dhalbhumgarh (Existing), 220 kV D/C Transmission Line Chandil (New) - Jadugoda (New), 220 kV D/C Transmission Line Chaibasa (PGCIL) - Jadugoda (New) and 132 kV D/C Transmission Line Jadugoda (New) - Dhalbhumgarh under JPSIP (Jharkhand Power system improvement Project) Scheme.

Background

In order to develop the intra-state transmission system in the state of Jharkhand, Government of Jharkhand (GoJ), through department of economic affairs (GoJ), has availed the financial and technical assistance from World Bank to strengthen and augment the power transmission network in the state. The network expansion will help to achieve PFA and to improve quality power supply to Domestic, Commercial & Industrial users in Jharkhand. There are total 25 Nos 132/33 KV GSS with 35 associated 132 KV transmission lines are being constructed under this scheme called JPSIP (Jharkhand Power system improvement Project) funded with World Bank (as loan) in association of State (as equity). The detail of the list of the aforesaid projects along with its awarding value is enclosed as annexure-A.

JUSNL, in association with PRDC has executed power system study for JUSNL's perspective Transmission Plan up to 2021-22 and had meetings with CEA in presence of other participants from CEA, JUSNL, PRDC, PGCIL, JUSNL, NTPC/PVUNL, DVC and RECTPCL for discussion on the same. Minutes of the meeting held on 13.12.2017 at CEA is annexed as annexure-B.

As per the aforesaid minutes, in accordance with system report prepared by PRDC and modification suggested during the meetings following constructions pertaining to Jadugoda GSS and its associated lines has to be executed-

- 1) Establishment of new 220/132 KV, 2x200 MVA S/s at Jadugoda(New)
- 2) 220 KV D/C Chaibasa(PGCIL)-Jadugoda(New) Transmission Line with Zebra conductor
- 3) 220 KV D/C Chandil(New)- Jadugoda(New) Transmission Line with Zebra conductor
- 4) 132 KV D/C Jadugoda(New) -Dhalbhumgarh Transmission Line with HTLS conductor.

✓ @



Anticip.
Bal.

For connecting of 132 KV D/C Jadugoda(New) –Dhalbhumgarh Transmission Line at Dhalbhumgarh end, 2 Nos of additional bay at Dhalbhumgarh GSS shall be required as proposed by Field office of JUSNL

The above project as mentioned under sl No. 1 to 4, was earlier about to be constructed in PPP Mode, but now seeing the urgency of bringing this facility/network, it is proposed to construct through assistance of World Bank fund.

The Basis and the Necessity of the Jadugoda (New) and its associated Transmission Line

- System study performed by PRDC and comments of CEA thereof.
- Evacuation of PUVNL Power through Chandil (New) GSS.
- Two Nos of dedicated bay has already been constructed for JUSNL at Chaibasa(PGCIL). 220 KV D/C Jadugoda(new) –Chaibasa(PGCIL) Transmission Line and 220/132 KV Jadugoda(New) GSS is immediate downstream network to utilize those two bays which are brought in the system study report and also in the minutes of the meeting held with CEA.
- The said plan has the key role for evacuation of Power flow from level of 400 KV to 132 KV and maintaining the voltage and quality power at the region.

Reason for execution of project through financial assistance of World Bank

- After the anticipated expenditure against the JPSIP work of JUSNL, there will still be enough fund out of the sanction loan amount.
- Those unutilized fund shall be sufficient to meet the expenditure against the proposed construction activity.
- As per loan agreement, borrower has to pay 0.25% per annum of commitment charge toward unwithdrawn Loan Balance, which will come in to JUSNL as burden.
- Urgency of bringing this facility in to the region otherwise already being constructed GSS at 132 KV Level shall not be utilized as per their capacity, which will lead to less revenue generation.

Budgetary Provision

By World Bank fund (Loan) & State (equity)

Fund availability

Approved estimated fund by Hon'ble cabinet, Govt. Of Jharkhand towards implementation of JPSIP	Rupees. 2655.81 Cr.	A
Total awarded amount to EPC till date	1558 Cr	B
Total anticipated quantity variation/Price variation @ 25%	389.5 Cr	
Expenditure against engagement of PMC (Approx.)	92.95 Cr	
Anticipated expenditure towards Land and Resettlement and rehabilitation	29.9	
Anticipated Compensation towards forest, tress crop, etc.	100	

Anticipated Compensation for land under ROW	158
Anticipated Gross fund for utilization (B)	2345.35
Balance fund after Anticipated Gross fund for utilization C (A-B)	210.160

Note: The abovesaid distribution of the fund was done by referring resolution of Govt. of Jharkhand (Annexure-C), actual awarded contract (annexure D), and the loan document of World Bank (Annexure-E).

Anticipated estimate

As submitted by General Manager, Transmission Zone, Jamshedpur, JUSNL vide letter no. 695 dated 02.05.2023 there will be anticipated estimate for Grid substation, additional bay and its associated Transmission Lines as follows-

Sl no.	Identifies as package	Projects details for (supply, installation testing and commissioning)	Tentative estimated cost inclusive of GST, labour cess@1%, consultancy charge@3%(in INR)	Package estimate
1	A	220/132 KV, 2x200 MVA S/s at Jadugoda(New)	105,53,57,527.38	111,34,93,601.27
		2 Nos of 132 kV Bay at 132/33 kV GSS Dhalbhumgarh (Existing)	5,81,36,073.89	
2	B	220 kV D/C Transmission Line Chandil (New) – Jadugoda (New)	57,53,65,373.58	135,55,30,779.27
		220 kV D/C Transmission Line Chaibasa (PGCIL) – Jadugoda (New)	78,01,65,405.69	
3	C	132 kV D/C Transmission Line Jadugoda (New) – Dhalbhumgarh	51,30,65,829.7	51,30,65,829.7
Total				298,20,90,210

(Total in words-Rupees Two Hundred Ninety Eight Crore Twenty Lac Ninety Thousand Two Hundred Ten only)/-including all taxes & duties.)

However the estimate will vary slightly in DPR and actual estimate in course of detail estimation and calculation.

World Bank Opinion

World Bank has agreed in principle that proposed investment can be included under the ongoing loan.

Financial Concurrence

Finance wing has checked the agenda placed before CFD on subject matter.

Recommendation of CFD in its 30th meeting dated 19.06.2023

After deliberation on the facts and proposal, Committee of functional Directors accorded approval for placing the matter before Hon'ble BoD JUSNL regarding taking decision on incorporating the Project for " supply, installation testing and commissioning of 2x200 MVA.


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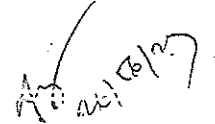


12/8
220/132 kV GSS(AIS) at Jadugoda (New), 220 kV D/C Transmission Line Chandil (New) – Jadugoda (New), 220 kV D/C Transmission Line Chaibasa (PGCIL) – Jadugoda (New) and 132 kV D/C Transmission Line Jadugoda (New) – Dhalbhumgarh under JPSIP (Jharkhand Power system improvement Project) funded with World Bank(Loan) in association with state(Equity), which was earlier about to be constructed through PPP Mode, and also add 2 Nos of 132 kV Bay at 132/33 kV GSS Dhalbhumgarh (Existing) in to the same JPSIP scheme.

Point of Decision

Hon'ble Board of Directors, JUSNL is solicited for kind approval on incorporating the Project for “ supply, installation testing and commissioning of 2x200 MVA, 220/132 kV GSS(AIS) at Jadugoda (New), 220 kV D/C Transmission Line Chandil (New) – Jadugoda (New), 220 kV D/C Transmission Line Chaibasa (PGCIL) – Jadugoda (New) and 132 kV D/C Transmission Line Jadugoda (New) – Dhalbhumgarh under JPSIP (Jharkhand Power system improvement Project) funded with World Bank(Loan) in association with state(Equity), which was earlier about to be constructed through PPP Mode, and also add 2 Nos of 132 kV Bay at 132/33 kV GSS Dhalbhumgarh (Existing) in to the same JPSIP scheme.


Company Secretary, JUSNL


General Manager
C&M, MLFP, JUSNL, Ranchi

File No. –GM/C&M/MLFP/08/2022-23



झारखण्ड ऊर्जा संचरण निगम लिमिटेड

JHARKHAND URJA SANCHARAN NIGAM LIMITED

(CIN: U40108JH2013SGC001704)

Regd. Office: - JUSNL Building, Kusai Colony, Doranda, Ranchi - 834002.

Telephone: - 0651-2400804 & Fax: 0651-2400123

EXTRACT OF MINUTES OF FIFTIETH (50TH) MEETING OF THE BOARD OF DIRECTORS OF JHARKHAND URJA SANCHARAN NIGAM LIMITED HELD ON TUESDAY, 13th DAY OF DECEMBER, 2022 AT 02:30 P.M. AT ENGINEERING BUILDING, H.E.C., DHURWA, RANCHI - 834004.

ITEM NO. 50-12:

Administrative approval for Augmentation/Upgradation of existing GSS/Transmission Network of JUSNL in FY 2022-23 & 2023-24.

Salient features of the Agenda Note were briefed before the Board.

To ensure 24x7 continuous power availability, reliable and quality power to the people of Jharkhand, augmentation & upgradation of existing old & over loaded transmission system also become necessary simultaneously with aforesaid ongoing and planned project.

Details of Augmentation schemes

Sl. No.	Description	District	Amount (In Rs.)
1	Replacement of 1x20 MVA by 1x50 MVA, 132/33 kV transformer GSS Gumla	Gumla	6,63,01,722.00
2	Replacement of 2x50 MVA by 2x80 MVA 132/33 kV transformer at GSS Govindpur	Dhanbad	18,55,15,090.00 ✓
3	Addition of 1x50 MVA, 132/33 Power Transformer at GSS Saria	Giridih	5,16,17,047.00
4	Installation of 1x50 MVA, 132/33 kV Power Transformer at GSS Deoghar along with repairing of existing transformer	Deoghar	6,64,09,590.00
5	Replacement of 1x20 MVA by 1x50 MVA, 132/33 kV transformer at GSS Jadugora	East Singhbhum	5,12,94,274.00
6	Installation of 1x50 MVA, 132/33 kV Power Transformer at GSS Adityapur (Ramchandrapur)	West Singhbhum	5,15,56,410.00
7	Replacement of 220/132 kV 1x150 MVA Auto transformer at GSS Adityapur (Ramchandrapur)	East Singhbhum	10,50,68,594.00
Total Amount			57,77,62,727.00

JUSNL will approach State Govt. through Energy Department GoJ for execution of said augmentation scheme. Finance has vetted the draft agenda.

After deliberation the Board of Directors unanimously approved the augmentation of existing Transmission Network of JUSNL in FY 2022-23 & 2023-24 amounting to Rs. 57,77,62,727.00 (Fifty Seven Crore Seventy Seven Lakh Sixty two Thousand Seven Hundred Twenty Seven) only and approach Energy Department, Govt. of Jharkhand for administrative approval and sanction project cost.

Date: 26.12.2022

Place: Ranchi

For Jharkhand Urja Sancharan Nigam Limited

Ankita
26/12/22
(Ankita Agarwal)
Company Secretary



झारखण्ड ऊर्जा संचरण निगम लिमिटेड

JHARKHAND URJA SANCHARAN NIGAM LIMITED

(CIN: U40108JH2013SGC001704)

Regd. Office: - JUSNL Building, Kusai Colony, Doranda, Ranchi - 834002.

Telephone: - 0651-2490118

EXTRACT OF MINUTES OF FIFTY-FIFTH (55TH) MEETING OF THE BOARD OF DIRECTORS OF JHARKHAND URJA SANCHARAN NIGAM LIMITED HELD ON THURSDAY, 21ST DAY OF SEPTEMBER, 2023 AT 03:30 PM AT ENGINEERING BUILDING, DHURWA, RANCHI - 834004.

ITEM NO. 55-10-03:

Administrative approval for design engineering supply of materials/ equipments, erection, testing & commissioning of 132/33 kV (2x50 MVA) GSS including construction of control room building, approach road as well as civil works at Devipur (Deoghar) along with Engineering, Supply, Erection, Testing & Commissioning of LILO of 132 kV D/C 3 phase Transmission line from S/C of existing 132 kV D/C Madhupur – Jasidih transmission line to proposed 132/33 kV GSS, Devipur (15 Km.) at an expenditure of Rs. 63,83,91,380.00 on turnkey basis.

Salient features of the Agenda Note were briefed before the Board.

It was apprised to the Board that All India Institute of Medical Science (AIIMS) is operational in Deoghar. JBVNL has envisaged the requirement of 132/33 kV GSS at premises of AIIMS Deoghar vide letter no. 528 dated 25.04.2019 of MD, JBVNL. Accordingly a proposal has been prepared and submitted vide letter no. 865 dated 23.08.2023 of DGM, Transmission Circle, Deoghar. Proposal was examined and estimate was sanctioned for estimated cost of Rs. 63,83,91,380.00 (Rupees Sixty Three Crore Eighty Three lakh Ninety One Thousand Three Hundred Eighty) only inclusive of all applicable taxes for the referred work.

Matter is of top priority urgency since being a medical facility of prime importance, zero tolerance is required for the redundant power supply to AIIMS, Deoghar. Earliest compliance is necessary since matter of immediately providing basic facilities for AIIMS, Deoghar is being monitored by the Hon'ble High Court, Jharkhand in the case of WP (PIL) no. 2419/2022 and Energy Department, Govt. of Jharkhand is asking for compliances of the decisions taken during the meeting chaired by Chief Secretary, Govt. of Jharkhand dated 02.06.2023.

After deliberation, the Board of Directors unanimously approved to approach Energy Department, Govt. of Jharkhand for administrative approval for :-

- (i) *Design engineering supply of materials/ equipments, erection, testing & commissioning of 132/33 kV (2x50 MVA) GSS including construction of control room building, approach road as well as civil works at Devipur (Deoghar) along with Engineering, Supply, Erection, Testing & Commissioning of LILO of 132 kV D/C 3 phase Transmission line from S/C of existing 132 kV D/C Madhupur – Jasidih transmission line to proposed 132/33 kV GSS, Devipur (15 Km.) at an expenditure of Rs. 63,83,91,380.00 on turnkey basis.*



झारखण्ड ऊर्जा संचरण निगम लिमिटेड

JHARKHAND URJA SANCHARAN NIGAM LIMITED

(CIN: U40108JH2013SGC001704)

Regd. Office: - JUSNL Building, Kusai Colony, Doranda, Ranchi - 834002.

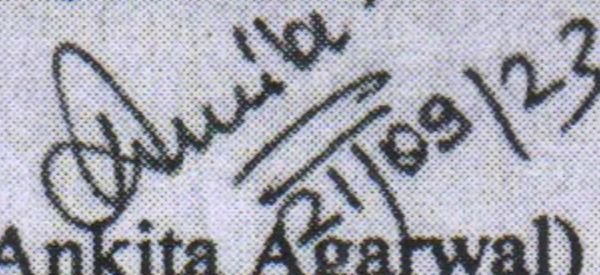
Telephone: - 0651-2490118

- (ii) *To communicate Energy Department, Govt. of Jharkhand regarding approval of the BoD, JUSNL and to release the fund for the above work in FY 2023-24 against the request made vide letter no. 555 dated 30.08.2023.*
- (iii) *Seeing the urgency of the matter as it is being monitored by Hon'ble Jharkhand High court in the WP (PIL) no. 2419/2022, to avoid the elapse of time, approval is accorded to invite NIT in anticipation of approval of Energy Department, GoJ.*

Date: 21.09.2023

Place: Ranchi

For Jharkhand Urja Sancharan Nigam Limited


(Ankita Agarwal)
Company Secretary



झारखण्ड ऊर्जा संचरण निगम लिमिटेड
JHARKHAND URJA SANCHARAN NIGAM LIMITED
(CIN: U40108JH2013SGC001704)
Regd. Office: - JUSNL Building, Kusai Colony, Doranda, Ranchi - 834002.
Telephone: - 0651-2490118

EXTRACT OF MINUTES OF FIFTY-THIRD (53RD) MEETING OF THE BOARD OF DIRECTORS OF JHARKHAND URJA SANCHARAN NIGAM LIMITED HELD ON MONDAY, 26TH DAY OF JUNE, 2023 AT 02:00 PM AT ENGINEERING BUILDING, DHURWA, RANCHI - 834004.

ITEM NO. 53-09:

Administrative approval for augmentation of 132/33 kV, 3x50 MVA Grid Sub-Station, Lohardaga.

Salient features of the Agenda Note were briefed before the Board.

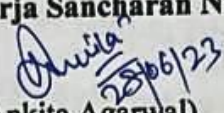
It was apprised to the Board that 132/33KV Grid sub-Station Lohardaga is one of the most important Grid Sub-Stations of district town of Lohardaga with 03 x 50 MVA = 150 MVA installed capacity. There is availability of 05 (Five) nos. of 33 KV feeder bay and 01 no. 33 KV Bus coupler bay at GSS Lohardaga through which 18 No's of PSS are connected with this Grid sub-stations. Also Electric Supply Division, Lohardaga are facing multiple interruption even outage of single feeder and also there is low voltage issue. To overcome this situation and considering the future power demand no of feeder bays required to be increased.

After deliberation, the Board of Directors unanimously approved to approach Energy Department, Govt. of Jharkhand for administrative approval for Augmentation of 132/33 kV 3x50 MVA GSS, Lohardaga by Design, engineering, supply of materials/equipment, erection, testing and commissioning of 04 nos. of new 33 kV feeder bays and augmentation of 2x80 MVA power transformers along with dismantling, shifting, erection, testing & commissioning of 315 KVA SST no. - I at 132/33 kV GSS Lohardaga at an estimated expenditure of Rs.23.58 Crore.

Date: 28.06.2023

Place: Ranchi

For Jharkhand Urja Sancharan Nigam Limited


(Ankita Agarwal)
Company Secretary

Annexure B

(GoJ Approval)

अनौपचारिक रूप
से परामर्शित

झारखण्ड सरकार
ऊर्जा विभाग

प्रेषक.

अविनाश कुमार,
सरकार के अपर मुख्य सचिव।

सेवा में,

महालेखाकार (लेखा एवं हकदारी),
झारखण्ड, राँची ।

द्वारा :-

आंतरिक वित्तीय सलाहकार

राँची, दिनांक 19/07/2023

विषयः

पतरातू सुपर थर्मल पावर प्लांट (3x800MW) से उत्पादित बिजली को परिसर से निकासी हेतु आधारभूत संचरण संरचनाओं के निर्माण की योजना हेतु कुल स्वीकृत प्राक्कलित राशि रु. 2181.96 करोड़ के क्रम में प्रथम पुनरीक्षण के फलस्वरूप योजना की कुल प्राक्कलित राशि रु० 2177.86 करोड़ की प्रशासनिक स्वीकृति प्रदान करने के संबंध में।

आदेश :- स्वीकृत ।

मंत्रिपरिषद की बैठक दिनांक 10.02.2022 को मद सं. 49 में लिए गए निर्णय के आलोक में प्रमल पावर प्लांट (3x800MW) से उत्पादित बिजली को परिसर से निकासी हेतु आधारभूत ढांचे के निर्माण की योजना हेतु कुल प्राक्कलित राशि रु. 2181.96 करोड़ की प्रशासनिक व्यय के साथ प्रदान की जाती है कि इस योजना के लिए Monitoring कोषांग गठित की जाय और लक्ष्यानुसृत ससमय पूर्ण हो सके। इस क्रम में विभागीय स्वीकृत्यादेश सं०-197, 2 एवं आवंटनादेश सं० 71, दि० 14.3.22 द्वारा रु० 31,55,30,000.00 (रुपये इकतीस करोड़ आठ लाख हजार मात्र) झा०ऊ०सं०नि०लि० को ऋण स्वरूप विमुक्त की गयी।

2. पबंध निदेशक, सांस्कृतिक विभाग के पत्रांक 19, दि. 04.03.2023 द्वारा सूचित किया गया है कि इस योजना की प्रशासनिक स्वीकृति के उपरांत ई-निविदा प्रकाशित की गई थी। प्रकाशित सभी निविदाओं में तीन-तीन एजेंसीयों ने भाग लिया, जिसमें L1 बोलीदाता के द्वारा सभी निविदाओं में प्राक्कलित राशि से लगभग 49% ज्यादा Quote किया गया।

उपरोक्त के आलोक में सम्पूर्ण मामले को निदेशक मंडल के समक्ष प्रस्तुत किया गया जिसमें निम्नलिखित निर्णय लिया गया : -

After deliberation on the facts and the proposal, the Board of Director unanimously decided to:-

- (i) Cancel all NTs/Tender under process against resolution no. 284 dated 18.02.2022 and sanction order no. 197 dated 14.03.2022 of Energy Department, GoJ.
- (ii) Prepare revised estimate on latest Board approved Schedule of Rates of JUSNL.
- (iii) Invite fresh tender for the project after obtaining revised administrative approval from Energy Department, GoJ.

निदेशक मंडल की बैठक में लिये गये निर्णय के आलोक में उपरोक्त परियोजनाओं की निर्माण से संबंधित पुनरीक्षित प्राक्कलन झारखण्ड ऊर्जा संचरण निगम लि० के निदेशक मंडल द्वारा स्वीकृत Schedule of Rate (SOR) से तैयार की गई, जिसकी विवरणी निम्नवत है:-

क्र० सं०	योजना का नाम	ट्रांसफार्मर क्षमता (MVA)	संचरण लाईन की लम्बाई (Km.)	प्राक्कलित राशि (करोड़ में)
1	400/220 के०वी० ग्रिड सब-स्टेशन, चाण्डिल तथा 400 के०वी० D/C 3 Ph QM पतरातू-चाण्डिल संचरण लाईन (130 कि०मी०), 400 के०वी० D/C 3 Ph QM चाण्डिल - धनबाद संचरण लाईन (130 कि०मी०), 400 के०वी० D/C 3 Ph QM चाण्डिल-चाईबासा संचरण लाईन (50 कि०मी०) तथा 220 के०वी० D/C 3 Ph चाण्डिल-चाण्डिल संचरण लाईन (10 कि०मी०)	1000	320	1302.14

2	400/220/132/33 के०वी० ग्रिड सब-स्टेशन, कोडरमा तथा 400 के०वी० D/C 3 Ph QM पतरातू-कोडरमा संचरण लाईन (133 कि०मी०) तथा 220 के०वी० D/C 3 Ph कोडरमा-गिरिडीह संचरण लाईन (80 कि०मी०)	1420	213	785.28
3	220/132/33 के०वी० ग्रिड सब-स्टेशन, पतरातू	500	—	90.44
कुल राशि				2177.86

पतरातू विद्युत उत्पादन निगम लि० के उत्पादित पावर को संचरण लाईन के माध्यम से पारेषण हेतु उक्त परियोजना माननीय प्रधानमंत्री पोर्टल (PMG Portal) पर पंजीकृत है एवं इसका मुख्य सचिव, झारखण्ड के द्वारा स्वयं Monitoring किया जा रहा है तथा निर्देश प्राप्त हुआ है कि तुरंत पुनरीक्षित प्राक्कलन के आधार पर पुनर्निविदा आमंत्रित किया जाय। पुनरीक्षित प्राक्कलन की राशि स्वीकृत राशि से कम है। ट्रांसफार्मर की क्षमता एवं संचरण लाईन की लम्बाई में परिवर्तन हुआ है तथा परियोजना की राशि में भी परिवर्तन हुआ है।

- मंत्रिपरिषद की बैठक दिनांक 11.07.2023 के मद सं० 04 में लिये गये निर्णय के आलोक में पतरातू सुपर थर्मल पावर प्लांट (3x800MW) से उत्पादित बिजली को परिसर से निकासी हेतु आधारभूत संचरण संरचनाओं के निर्माण की योजना हेतु कुल स्वीकृत प्राक्कलित राशि रु. 2181.96 करोड़ के क्रम में प्रथम पुनरीक्षण के फलस्वरूप योजना की कुल प्राक्कलित राशि रु० 2177.86 करोड़ की प्रशासनिक स्वीकृति प्रदान की जाती है।
- वित्तीय वर्ष 2023-24 में योजना हेतु राशि निम्नांकित बजट शीर्षान्तर्गत विकलित होगी :-

क्र०	बजटशीर्ष
1	मुख्यशीर्ष-6801-बिजली परियोजनाओं के लिए कर्ज, लघुशीर्ष-789- अनुसूचित जातियों के लिए विशेष घटक योजना, उपशीर्ष-37- झारखण्ड ऊर्जा संचरण निगम लि० को संचरण हेतु ऋण, विस्तृतशीर्ष-07-अन्य व्यय-63-ऋण एवं अग्रिम विपत्र कोड 10S68010078937000763
2	मुख्यशीर्ष-6801-बिजली परियोजनाओं के लिए कर्ज, लघुशीर्ष-796- जनजातीय क्षेत्र उपयोगिता, उपशीर्ष-37- झारखण्ड ऊर्जा संचरण निगम लि० को संचरण हेतु ऋण, विस्तृतशीर्ष-07-अन्य व्यय-63-ऋण एवं अग्रिम विपत्र कोड-10S68010079637000763
3	मुख्यशीर्ष-6801-बिजली परियोजनाओं के लिए कर्ज, लघुशीर्ष-205- संचरण तथा वितरण उपशीर्ष-37-झारखण्ड ऊर्जा संचरण निगम लि० को संचरण हेतु ऋण, विस्तृतशीर्ष-07-अन्य व्यय-63-ऋण एवं अग्रिम विपत्र कोड 10S68010020537000763

- झारखण्ड ऊर्जा संचरण निगम लि० को दिये जाने वाली ऋण की शर्तें निम्न प्रकार होंगी:-
 - (क) ऋण का पुनः भुगतान 10(दस) बराबर वार्षिक किस्तों में होगा। इसकी पहली किस्त की अदायगी ऋण निकासी की तिथि से एक साल बाद से प्रारम्भ होगी एवं तदनुसार अन्य किस्तों की अदायगी प्रत्येक वर्ष होगी।
 - (ख) इस ऋण पर 13 प्रतिशत की दर से वार्षिक ब्याज देय होगा ।
 - (ग) समय पर भुगतान करने पर 1/4 प्रतिशत की छूट देय होगा ।
 - (घ) समय पर भुगतान नहीं करने पर 2.5 प्रतिशत की दर से विलम्ब दण्ड सूद देय होगा।
- इस योजना के निकासी एवं व्ययन पदाधिकारी अवर सचिव, ऊर्जा विभाग, झारखण्ड, राँची होंगे। राशि का विकलन सचिवालय कोषागार, डोरंडा, राँची से किया जाएगा तथा झारखण्ड ऊर्जा संचरण निगम लिमिटेड के पी०एल० खाता में जमा किया जाएगा ।
- झारखण्ड ऊर्जा संचरण निगम लिमिटेड द्वारा निम्न शर्तों का अक्षरशः पालन किया जाएगा :-
 - i) विहित प्रपत्र में उपयोगिता प्रमाण पत्र उपलब्ध कराया जाएगा।
 - ii) योजना का मासिक भौतिक एवं वित्तीय प्रगति प्रतिवेदन अपर मुख्य सचिव, ऊर्जा विभाग को प्रत्येक माह के 5वीं तारीख को उपलब्ध कराना सुनिश्चित करेंगे ।
 - iii) अंकेक्षण हेतु लेखा संबंधी कागजात एवं विवरणी का संधारण ससमय करेंगे ।
 - iv) राशि की निकासी में वित्त विभाग के परिपत्र संख्या-2561, दिनांक 17.04.1998 एवं पत्रांक-1800, दिनांक-15.07.2003, वित्त विभाग के पत्रांक 2247, दि० 12.04.2002, कोषागार संहिता के नियम 300 एवं वित्त विभाग द्वारा समय-समय पर निर्गत परिपत्र का अनुपालन सुनिश्चित करेंगे।

- v) यह सुनिश्चित करेंगे कि इस योजना का दोहरीकरण नहीं हो रहा हो। साथ ही, इस योजनान्तर्गत राशि किसी अन्य शीर्ष से व्यय नहीं की जा रही हो।

झारखण्ड राज्यपाल के आदेश से

सरकार के अपर मुख्य सचिव

गोपनीय
मुहरबंद

ज्ञापांक : 03/ऊ.(सो.) 05/20(खण्ड-1).....79...

राँची, दिनांक : 19/07/2023

प्रतिलिपि—कोषागार पदाधिकारी, सचिवालय कोषागार, डोरण्डा, राँची को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

सरकार के अपर मुख्य सचिव

ज्ञापांक : 03/ऊ.(सो.) 05/20(खण्ड-1).....79...

राँची, दिनांक : 19/07/2023

प्रतिलिपि—आंतरिक वित्तीय सलाहकार, ऊर्जा विभाग, झारखण्ड, राँची को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

सरकार के अपर मुख्य सचिव

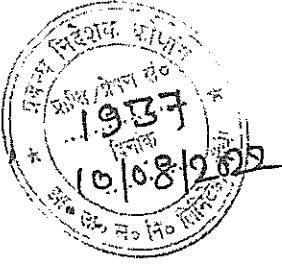
ज्ञापांक : 03/ऊ.(सो.) 05/20(खण्ड-1).....79...

राँची, दिनांक : 19/07/2023

प्रतिलिपि—विशेष सचिव, योजना—सह—वित्त विभाग (वित्त प्रभाग), झारखण्ड, राँची/माननीय विभागीय मंत्री के वरीय आप्त सचिव/प्रबंध निदेशक, झांऊंसं०नि०लि०, राँची/अवर सचिव (निकासी एवं व्ययन पदा०), ऊर्जा विभाग/अपर मुख्य सचिव, ऊर्जा के प्रधान आप्त सचिव/बजट शाखा, ऊर्जा विभाग/लेखा शाखा, ऊर्जा विभाग, झारखण्ड, राँची को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

सरकार के अपर मुख्य सचिव

गोपनीय



झारखण्ड सरकार
ऊर्जा विभाग

संकल्प

Director (R&D)
S. NARAK (N.W.D.)
CM
PR Head-Tend

सं० 02/ऊ०(शो०)01/22...1622

दिनांक : 05/08/2022

विषय:- जामताड़ा जिले के कुण्डहित प्रखण्ड में ग्रिड सब-स्टेशन (132/33 के०वी०) एवं 132 के०वी० जामताड़ा-मधुपुर संचरण लाईन के अधिष्ठापन हेतु रु० 84,12,66,126.00 की प्रशासनिक स्वीकृति के सम्बन्ध में।

राज्य सरकार झारखण्ड के सभी क्षेत्रों में नियमित एवं गुणवत्तापूर्ण विद्युतापूर्ति के लिए कटिबद्ध है। नियमित विद्युतापूर्ति कराने में स्थानीय स्तर पर पावर सब-स्टेशन (33/11 के०वी०) की भूमिका होती है। इस पावर स्टेशन पर बिजली उत्पादकों से प्राप्त विद्युत आपूर्ति कराने के लिए ग्रिड सब-स्टेशन (132/33 के०वी०) की अहम भूमिका होती है। राज्य में विभिन्न पावर सब-स्टेशन में उपलब्ध कराये जाने वाले विद्युत का आकलन के पश्चात यह पाया गया है कि जामताड़ा जिला एवं आस-पास के क्षेत्रों में उपलब्ध पावर सब-स्टेशन में उचित मात्रा एवं गुणवत्तापूर्ण विद्युत उपलब्ध कराने में कठिनाई हो रही है। इसका मुख्य कारण जामताड़ा ग्रिड सब-स्टेशन से पावर सब-स्टेशन की दूरी लगभग 60 किलोमीटर का होना है। फलस्वरूप सम्भावित विद्युत की खपत की तुलना में नियमित विद्युतापूर्ति नहीं की जा रही है। इस समस्या का समाधान जामताड़ा जिला में कुण्डहित प्रखण्ड में चिन्हित स्थल पर एक ग्रिड सब-स्टेशन के अधिष्ठापन से हो सकता है।

प्रस्तावित योजना में कुण्डहित प्रखण्ड में एक ग्रिड सब-स्टेशन का निर्माण किया जाएगा, जिसकी क्षमता 2 x 50 MVA होगी। उपायुक्त, जामताड़ा के पत्रांक 1008, दि० 20.10.2018 द्वारा मौजा भेलुआ, अंचल कुण्डहित में 10 एकड़ भूमि प्रस्तावित ग्रिड सब-स्टेशन हेतु निःशुल्क झारखण्ड ऊर्जा संचरण निगम लि० को हस्तांतरित कर दिया गया है। इस ग्रिड सब-स्टेशन से विद्युत प्राप्त करने एवं विभिन्न पावर सब-स्टेशनों को जोड़ने का दायित्व झारखण्ड बिजली वितरण निगम लि० की होती है, जिसके लिए अलग से प्रस्ताव तैयार किया जा रहा है। प्रस्तावित संचरण लाईन की कुल लम्बाई 33 किमी है। इस ग्रिड सब-स्टेशन के निर्माण से निम्नांकित लाभ होंगे :-

- i. Low Voltage समस्या से निदान
 - ii. Tripping की समस्या से निदान
 - iii. गुणवत्तापूर्ण एवं आवश्यकता के अनुरूप विद्युतापूर्ति इत्यादि
2. प्रस्तावित स्थल के जिस पावर सब-स्टेशन से विद्युतापूर्ति की जाएगी, उसकी संख्या 03 (तीन) है। ये तीन सब-स्टेशन क्रमशः कुण्डहित, नाला एवं बामाडिहा है। आच्छादन क्षेत्र में सम्भावित खपत लगभग 25-30 मेगावाट है।
3. प्रबंध निदेशक, झारखण्ड ऊर्जा संचरण निगम लि० के पत्रांक 43, दि० 16.06.2022 द्वारा इस योजना हेतु load flow study एवं तकनीकी अनुमोदित प्राक्कलन, विस्तृत परियोजना प्रतिवेदन एवं निदेशक मंडल के अनुमोदन के उपरांत योजना की स्वीकृति हेतु विभाग को प्रस्ताव उपलब्ध कराया गया है, जिसकी कुल लागत राशि रु० 84,12,66,126.00 (रु० चौरासी करोड़ बारह लाख छियासठ हजार एक सौ छब्बीस मात्र) है।

(8)

परियोजना की राशि निम्न बजटशीर्ष के अन्तर्गत विकसित होगी -

क्र०	बजटशीर्ष
1	मुख्यशीर्ष-8801 बिजली परियोजनाओं के लिए कर्ज, लघु शीर्ष 189 अनुमति प्राप्तियों के लिए विशेष घटक योजना, उप शीर्ष 37 झारखण्ड ऊर्जा संचरण निगम लि० को संचरण हेतु ऋण, वितरित शीर्ष 07 अन्य व्यय 03 ऋण एवं अधिम विपत्र कोड 10888010078837000783
2	मुख्यशीर्ष 8801 बिजली परियोजनाओं के लिए कर्ज, लघु शीर्ष 189 अनुरोधित क्षेत्र परियोजना, उप शीर्ष-37-झारखण्ड ऊर्जा संचरण निगम लि० को संचरण हेतु ऋण, वितरित शीर्ष 07 अन्य व्यय 63 ऋण एवं अधिम विपत्र कोड 10888010078837000783
3	मुख्यशीर्ष 8801 बिजली परियोजनाओं के लिए कर्ज, लघु शीर्ष-204-संचरण तथा निगम, उप शीर्ष-37 झारखण्ड ऊर्जा संचरण निगम लि० को संचरण हेतु ऋण वितरित शीर्ष 07 अन्य व्यय 63 ऋण एवं अधिम विपत्र कोड 10888010078837000783

वित्तीय वर्ष 2022-23 में संचरण के योजनाओं हेतु राशि रु० 500 करोड़ का उपबंध है।

- दिनांक 05.7.2022 को विकास आयुक्त की अध्यक्षता में गठित राज्य योजना प्राधिकृत समिति की बैठक में प्रस्ताव पर स्वीकृति प्रदान की गयी है।
- मंत्रिपरिषद की बैठक दिनांक 29.07.2022 को मद सं. 27 में लिए गए निर्णय के आलोक में जामताड़ा जिन क कुण्डहित प्रखण्ड में ग्रिड सब-स्टेशन (132/33 के०वी०) एवं 132 के०वी० जामताड़ा-मधुपुर संचरण लाइन के अधिष्ठापन हेतु रु० 84,12,66,126.00 की प्रशासनिक स्वीकृति एवं राशि व्यय करने की स्वीकृति प्रदान की जाती है।
- आदेश:- यह आदेश दिया जाता है कि इसे झारखण्ड गजट के असाधारण अंक में प्रकाशित किया जाय।

झारखण्ड राज्यपाल के आदेश सं.

ह०/

सरकार के प्रधान सचिव

ज्ञापाक 02/ऊ०(पी०)०१/७७.....

दिनांक

प्रतिलिपि :- सरकार के उप सचिव-सह-ई गजट नोडल पदाधिकारी, ऊर्जा विभाग को ई गजट के असाधारण अंक में प्रकाशार्थ प्रेषित।

ह०/-

सरकार के प्रधान सचिव

ज्ञापाक 02/ऊ०(पी०)०१/७७.....

दिनांक

प्रतिलिपि :- महालेखाकार, झारखण्ड, रौंदी को सूचनाएं एवं आवश्यक कार्रवाई हेतु प्रेषित।

ह०/-

सरकार के प्रधान सचिव

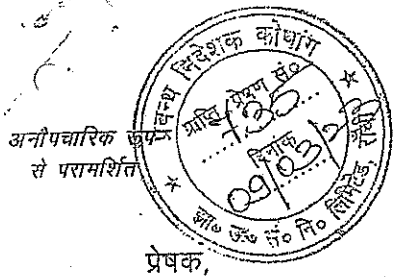
ज्ञापाक 07/ऊ०(पी०)०१/७७-1622

दिनांक

प्रतिलिपि :- मुख्य मिनिस्टर, झारखण्ड ऊर्जा संचरण निगम लि०, रौंदी/मा. मुख्य (ऊर्जा) वरी के अप्त सचिव/अवर सचिव (मिनिस्टर एवं व्ययन पदा०), ऊर्जा विभाग/प्रधान सचिव ऊर्जा विभाग के विशेष कार्य पदाधिकारी/लेखा सचिव, ऊर्जा विभाग, झारखण्ड, रौंदी को सूचनाएं एवं आवश्यक कार्रवाई हेतु प्रेषित।



सरकार के प्रधान सचिव



पत्रांक 02/ऊ०(वी०)-01/22.....

झारखण्ड सरकार
ऊर्जा विभाग

Director (P)
Director (F)
GM (LM)
9/8/22

Director (Project)
JUSNL, Ranchi

प्रेषक,

अविनाश कुमार,
सरकार के अपर मुख्य सचिव।

सेवा में,

महालेखाकार (लेखा एवं हकदारी),
झारखण्ड, राँची।

द्वारा :-

आंतरिक वित्तीय सलाहकार।

राँची, दिनांक

विषय :-

132/33 के०वी० ग्रिड सब-स्टेशन कुण्डहित एवं संबंधित संचरण लाईन के निर्माण से संबंधित योजना के कुल स्वीकृत प्राक्कलित राशि रु० 84,12,66,126.00 के अन्तर्गत वित्तीय वर्ष 2022-23 में संशोधित उपबंधित राशि रु० 261.41 करोड़ के विरुद्ध रु० 40.00 करोड़ (रु० चालीस करोड़) झा०ऊ०सं०नि०लि० को ऋण स्वरूप विमुक्त करने की स्वीकृति के संबंध में।

आदेश :-

स्वीकृत।

राज्य सरकार झारखण्ड के सभी क्षेत्रों में नियमित एवं गुणवत्तापूर्ण विद्युतापूर्ति के लिए कटिबद्ध है। नियमित विद्युतापूर्ति कराने में स्थानीय स्तर पर पावर सब-स्टेशन (33/11के०वी०) की भूमिका होती है। इस पावर स्टेशन पर बिजली उत्पादकों से प्राप्त विद्युत आपूर्ति कराने के लिए ग्रिड सब-स्टेशन (132/33 के०वी०) की अहम भूमिका होती है। राज्य में विभिन्न पावर सब-स्टेशन में उपलब्ध कराये जाने वाले विद्युत का आकलन के पश्चात यह पाया गया है कि जामताड़ा जिला एवं आस-पास के क्षेत्रों में उपलब्ध पावर सब-स्टेशन में उचित मात्रा एवं गुणवत्तापूर्ण विद्युत उपलब्ध कराने में कठिनाई हो रही है। इसका मुख्य कारण जामताड़ा ग्रिड सब-स्टेशन से पावर सब-स्टेशन की दूरी लगभग 60 किलोमीटर का होना है। फलस्वरूप सम्भावित विद्युत की खपत की तुलना में नियमित विद्युतापूर्ति नहीं की जा रही है। इस समस्या का समाधान जामताड़ा जिला में कुण्डहित प्रखण्ड में चिन्हित स्थल पर एक ग्रिड सब-स्टेशन के अधिष्ठापन से हो सकता है।

प्रस्तावित योजना में कुण्डहित प्रखण्ड में एक ग्रिड सब-स्टेशन का निर्माण किया जाएगा, जिसकी क्षमता 2 x 50 MVA होगी। उपायुक्त, जामताड़ा के पत्रांक 1008, दि० 20.10.2018 द्वारा मौजा भेलुआ, अंचल कुण्डहित में 10 एकड़ भूमि प्रस्तावित ग्रिड सब-स्टेशन हेतु निःशुल्क झारखण्ड ऊर्जा संचरण निगम लि० को हस्तांतरित कर दिया गया है। इस ग्रिड सब-स्टेशन से विद्युत प्राप्त करने एवं विभिन्न पावर सब-स्टेशनों को जोड़ने का दायित्व झारखण्ड बिजली वितरण निगम लि० की होती है, जिसके लिए अलग से प्रस्ताव तैयार किया जा रहा है। प्रस्तावित संचरण लाईन की कुल लम्बाई 33 किमी है। इस ग्रिड सब-स्टेशन के निर्माण से निम्नांकित लाभ होंगे :-

- Low Voltage समस्या से निदान
 - Tripping की समस्या से निदान
 - गुणवत्तापूर्ण एवं आवश्यकता के अनुरूप विद्युतापूर्ति इत्यादि
- प्रस्तावित स्थल के जिस पावर सब-स्टेशन से विद्युतापूर्ति की जाएगी, उसकी संख्या 03 (तीन) है। ये तीन सब-स्टेशन क्रमशः कुण्डहित, नाला एवं बामाडिहा है। आच्छादन क्षेत्र में सम्भावित खपत लगभग 25-30 मेगावाट है।
 - दिनांक 05.7.2022 को विकास आयुक्त की अध्यक्षता में गठित राज्य योजना प्राधिकृत समिति की बैठक में प्रस्ताव पर स्वीकृति प्रदान की गयी है।

4. मंत्रिपरिषद की बैठक दिनांक 29.07.2022 को मद सं. 27 में लिए गए निर्णय के आलोक में विभागीय संकल्प सं. 1622, दि. 05.08.2022 द्वारा जामताड़ा जिले के कुण्डहित प्रखण्ड में ग्रिड सब-स्टेशन (132/33 के.वी.) एवं 132 के.वी. जामताड़ा-मधुपुर संचरण लाइन के अधिष्ठापन हेतु रु. 84,12,66,126.00 की प्रशासनिक स्वीकृति एवं राशि व्यय करने की स्वीकृति प्रदान की गयी है।

5. प्रबंध निदेशक, झांझासं.नि.लि., राँची के पत्रांक 09, दि. 31.01.2023 द्वारा सूचित किया गया है कि मंत्रिपरिषद की बैठक दिनांक 29.07.2022 को मद सं. 27 में लिये गये निर्णय के आलोक में 132/33 के.वी. ग्रिड सब-स्टेशन कुण्डहित एवं संबंधित संचरण लाइन के निर्माण हेतु रु. 84,12,66,126.00 की प्रशासनिक स्वीकृति एवं राशि व्यय करने की स्वीकृति प्रदान की गई। निविदा निष्पादन के उपरांत दिनांक 18.01.2023 को कार्यादेश निर्गत किया जा चुका है। कार्य को सुचारु रूप से क्रियान्वित करने हेतु वित्तीय वर्ष 2022-23 में इस योजना के तहत रु. 40.00 करोड़ को विमुक्त करने हेतु अनुरोध किया गया है।

6. 132/33 के.वी. ग्रिड सब-स्टेशन कुण्डहित एवं संबंधित संचरण लाइन के निर्माण से संबंधित योजना के कुल स्वीकृत प्राक्कलित राशि रु. 84,12,66,126.00 के अन्तर्गत वित्तीय वर्ष 2022-23 में संचरण योजनाओं हेतु संशोधित उपबंधित राशि रु. 261.41 करोड़ के विरुद्ध रु. 40.00 करोड़ (रु. चालीस करोड़) झांझासं.नि.लि. को ऋण स्वरूप विमुक्त करने की स्वीकृति प्रदान की जाती है।

7. उक्त स्वीकृत राशि निम्नांकित बजट शीर्षान्तर्गत निम्न रूप से विकलित होगी :-

क्र.सं.	बजटशीर्ष	राशि (रुपये में)
1	मुख्यशीर्ष-6801-विजली परियोजनाओं के लिए कर्ज, लघुशीर्ष-789-अनुसूचित जातियों के लिए विशेष घटक योजना, उपशीर्ष-37-झारखण्ड ऊर्जा संचरण निगम लि. को संचरण हेतु ऋण, विस्तृत शीर्ष-07-अन्य व्यय-63-ऋण एवं अग्रिम विपत्र कोड 10S68010078937000763	रु. 4,80,00,000 (चार करोड़ अस्सी लाख)
2	मुख्यशीर्ष-6801-विजली परियोजनाओं के लिए कर्ज, लघुशीर्ष-796-जनजातीय-क्षेत्र-उपयोजना, उपशीर्ष-37-झारखण्ड ऊर्जा संचरण निगम लि. को संचरण हेतु ऋण, विस्तृत शीर्ष-07-अन्य व्यय-63-ऋण एवं अग्रिम विपत्र कोड 10S68010079637000763	रु. 10,40,00,000 (दस करोड़ चालीस लाख)
3	मुख्यशीर्ष-6801-विजली परियोजनाओं के लिए कर्ज, लघुशीर्ष-205-संचरण तथा वितरण उप शीर्ष-37-झारखण्ड ऊर्जा संचरण निगम लि. को संचरण हेतु ऋण, विस्तृत शीर्ष-07-अन्य व्यय-63-ऋण एवं अग्रिम विपत्र कोड 10S68010020537000763	रु. 24,80,00,000 (चौबीस करोड़ अस्सी लाख)
	कुल	रु. 40,00,00,000 (रु. चालीस करोड़)

8. झारखण्ड ऊर्जा संचरण निगम लि. को दिये जाने वाली ऋण की शर्तें निम्न प्रकार होंगी:-

(क) ऋण का पुनः भुगतान 10(दस) बराबर वार्षिक किस्तों में होगा। इसकी पहली किस्त की अदायगी ऋण निकासी की तिथि से एक साल बाद से प्रारम्भ होगी एवं तदनुसार अन्य किस्तों की अदायगी प्रत्येक वर्ष होगी।

(ख) इस ऋण पर 13 प्रतिशत की दर से वार्षिक ब्याज देय होगा।

(ग) समय पर भुगतान करने पर 1/4 प्रतिशत की छूट देय होगा।

(घ) समय पर भुगतान नहीं करने पर 2.5 प्रतिशत की दर से विलम्ब दण्ड सूद देय होगा।

9. इस योजना के निकासी एवं व्ययन पदाधिकारी अवर सचिव, ऊर्जा विभाग, झारखण्ड, राँची होंगे। राशि का विकलन सचिवालय कोषागार, डोरंडा, राँची से किया जाएगा तथा झारखण्ड ऊर्जा संचरण निगम लिमिटेड के पी.एल. खाता में जमा किया जाएगा।

10. झारखण्ड ऊर्जा संचरण निगम लिमिटेड द्वारा निम्न शर्तों का अक्षरशः पालन किया जाएगा :-

i) विहित प्रपत्र में उपयोगिता प्रमाण पत्र उपलब्ध कराया जाएगा।

ii) योजना का मासिक भौतिक एवं वित्तीय प्रगति प्रतिवेदन सचिव, ऊर्जा विभाग को प्रत्येक माह के 5वीं तारीख को उपलब्ध कराना सुनिश्चित करेंगे।

iii) अंकेक्षण हेतु लेखा संबंधी कागजात एवं विवरणी का संधारण करेंगे।

iv) राशि की निकासी में वित्त विभाग के परिपत्र संख्या-2561, दिनांक 17.04.1998 एवं पत्रांक-1800, दिनांक-15.07.2003, वित्त विभाग के पत्रांक 2247, दिनांक 12.04.2002, कोषागार संहिता के नियम 300 एवं वित्त विभाग द्वारा समय-समय पर निर्गत परिपत्र का अनुपालन सुनिश्चित करेंगे।

v) यह सुनिश्चित करेंगे कि इस योजना का दोहरीकरण नहीं हो रहा हो। साथ ही, इस योजनान्तर्गत राशि किसी अन्य शीर्ष से व्यय नहीं की जा रही हो।

11. प्रस्ताव पर माननीय मुख्य(ऊर्जा) मंत्री का अनुमोदन प्राप्त है।

12. प्रस्ताव पर आंतरिक वित्तीय सलाहकार की सहमति प्राप्त है।

13. अनुरोध है कि अवर सचिव (निकासी एवं व्ययन पदां), ऊर्जा विभाग, झारखण्ड, राँची के पदनाम से प्राधिकार पत्र निर्गत करने की कृपा की जाय।

झारखण्ड राज्यपाल के आदेश से

हो/-

सरकार के अपर मुख्य सचिव

दिनांक :

गोपनीय
मुहरबंद

ज्ञापांक : 02/ऊ०(यो०)-01/22.....

प्रतिलिपि-कोषागार पदाधिकारी, सचिवालय कोषागार, डोरण्डा, राँची को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

हो/-

सरकार के अपर मुख्य सचिव

दिनांक :

ज्ञापांक : 02/ऊ०(यो०)-01/22.....

प्रतिलिपि-आंतरिक वित्तीय सलाहकार, ऊर्जा विभाग, राँची को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

हो/-

सरकार के अपर मुख्य सचिव

दिनांक : 23/03/2023

ज्ञापांक : 02/ऊ०(यो०)-01/22.....

प्रतिलिपि-माननीय विभागीय मंत्री के आप्त सचिव/प्रबंध निदेशक, झारखण्ड संनि०लि०, राँची/अवर सचिव (निकासी एवं व्ययन पदां), ऊर्जा विभाग/अपर मुख्य सचिव, ऊर्जा के प्रधान आप्त सचिव/लेखा शाखा, ऊर्जा विभाग, झारखण्ड, राँची को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

सरकार के अपर मुख्य सचिव

झारखण्ड सरकार
ऊर्जा विभाग

प्रेषक,

अविनाश कुमार,
सरकार के अपर मुख्य सचिव।

सेवा में,

महालेखाकार (लेखा एवं हकदारी),
झारखण्ड, राँची।

द्वारा :-

आंतरिक वित्तीय सलाहकार

राँची, दिनांक

विषय:

डी०भी०सी० कमाण्ड एरिया के अन्तर्गत संचरण के क्षेत्र में 220/132/33 के०वी० ग्रिड सब-स्टेशन, हजारीबाग, गोमिया एवं बलियापुर तथा संबंधित संचरण लाइन के निर्माण हेतु कुल परियोजना लागत रु० 579.35 करोड़ (रु० पाँच सौ उनसी करोड़ पैंतीस लाख मात्र) की प्रशासनिक स्वीकृति के संबंध में।

आदेश :- स्वीकृत।

प्रबंध निदेशक, झारखण्ड ऊर्जा संचरण निगम लि०, राँची के पत्रांक 26, दि० 22.03.2023 द्वारा सूचित किया गया है कि झारखण्ड के 07 जिले यथा रामगढ़, हजारीबाग, चतरा, बोकारो, गिरिडीह, धनबाद एवं कोडरमा विद्युत संचरण के क्षेत्र में डी०भी०सी० पर पूर्णतः निर्भर है। झारखण्ड सरकार ने डी०भी०सी० कमाण्ड एरिया में समय-समय पर कई संचरण परियोजनाओं की स्थापना की स्वीकृति प्रदान की है। जिसके परिणाम स्वरूप गिरिडीह जिले के सरिया एवं जमुआ में 132/33 के०वी० ग्रिड सब-स्टेशन एवं गिरिडीह, धनबाद जिले के गोविन्दपुर में 220/132/33 के०वी० ग्रिड सब-स्टेशन की स्थापना सफलतापूर्वक की गई है, जिससे डी०भी०सी० पर निर्भरता कम हुई है। इसके अतिरिक्त चतरा जिले के डाढ़ा एवं बोकारो जिले के चन्द्रनक्यारी में 132/33 के०वी० ग्रिड सब-स्टेशन बन कर तैयार हैं, जिन्हें संचरण लाइन के तैयार हो जाने पर ऊर्जावित्त कर दिया जायेगा। साथ ही रामगढ़, गोला, पेटरवार, महुदा, दुग्दा, निरसा, पुटकी, विष्णुगढ़, बरही, हंटरगंज, बरकागाँव, सिमरिया एवं गाँवा में 132/33 के०वी० ग्रिड सब-स्टेशन का निर्माण कार्य चल रहा है।

डी०भी०सी० पर निर्भरता कम करने तथा उपरोक्त निर्माणाधीन ग्रिड सब-स्टेशन में से रामगढ़, बरही, विष्णुगढ़, निरसा एवं पुटकी को Connectivity उपलब्ध कराने हेतु हजारीबाग, बलियापुर, गोमिया में 220/132/33 के०वी० ग्रिड सब-स्टेशन के निर्माण की आवश्यकता है।

वर्तमान में निर्माणाधीन ग्रिड सब-स्टेशनों के पूर्णतः उपयोग हेतु निम्नलिखित संचरण परियोजनाओं का शीघ्र निर्माण अतिआवश्यक है :-

क्र० सं०	योजना का नाम	ट्रांसफार्मर क्षमता (MVA)	संचरण लाइन की लम्बाई	प्राक्कलित राशि (करोड़ में)
1	220/132/33 के०वी० ग्रिड सब-स्टेशन, हजारीबाग एवं 220 के०वी० डबल सर्किट तेनुघाट-हजारीबाग संचरण लाइन।	500	80	214.49
2	220/132/33 के०वी० ग्रिड सब-स्टेशन, गोमिया/ कथारा एवं 220 के०वी० डबल सर्किट तेनुघाट-गोमिया संचरण लाइन।	560	25	161.30
3	220/132/33 के०वी० ग्रिड सब-स्टेशन, बलियापुर एवं 220 के०वी० डबल सर्किट धनबाद-बलियापुर तथा 220 के०वी० दुमका-गोविन्दपुर संचरण लाइन का बलियापुर ग्रिड में लिलो	560	60	203.56
कुल रूपये				579.35

उपरोक्त परियोजनाओं के निर्माण कार्य पूरा होने के उपरान्त संचरण के क्षेत्र में संबंधित जिलों में गुणवत्तापूर्ण विद्युत आपूर्ति की जा सकेगी। जिससे वर्तमान में स्थापित उद्योग धंधों में विस्तार तथा नई उद्योगों की स्थापना की संभावना बढ़ जायेगी।

साथ ही पत्र द्वारा पुनरीक्षित तकनीकी अनुमोदित प्रावकलन, निदेशक मंडल के बैठक में लिये गये निर्णय की प्रति एवं विस्तृत परियोजना प्रतिवेदन की प्रति संलग्न करते हुए 220/132/33 केवी० ग्रीड सब-स्टेशन, हजारीबाग, गोमिया एवं बलियापुर तथा संबंधित संचरण लाईन के निर्माण हेतु कुल परियोजना लागत रु० 579.35 करोड़ की प्रशासनिक स्वीकृति एवं वित्तीय वर्ष 2023-24 में रु० 30.00 करोड़ विमुक्त करने की अध्याचना की गयी है।

- मंत्रिपरिषद की बैठक दिनांक 11.07.2023 के मद सं० 03 में लिये गये निर्णय के आलोक में डी०भी०सी० कमाण्ड एरिया के अन्तर्गत संचरण के क्षेत्र में 220/132/33 केवी० ग्रीड सब-स्टेशन, हजारीबाग, गोमिया एवं बलियापुर तथा संबंधित संचरण लाईन के निर्माण हेतु कुल परियोजना लागत रु० 579.35 करोड़ (रु० पाँच सौ उनासी करोड़ पैंतीस लाख मात्र) की प्रशासनिक स्वीकृति एवं वित्तीय वर्ष 2023-24 में रु० 30.00 करोड़ (रु० तीस करोड़ मात्र) झारखण्ड ऊर्जा संचरण निगम लि० को विमुक्त करने की स्वीकृति प्रदान की जाती है।
- उक्त स्वीकृत राशि निम्नांकित बजट शीर्षान्तर्गत निम्न रूप से विकलित होगी :-

क्र०	बजटशीर्ष	राशि (रुपये में)
1	मुख्यशीर्ष-6801-विजली परियोजनाओं के लिए कर्ज, लघुशीर्ष-789-अनुसूचित जातियों के लिए विशेष घटक योजना, उपशीर्ष-37-झारखण्ड ऊर्जा संचरण निगम लि० को संचरण हेतु ऋण, विस्तृतशीर्ष-07-अन्य व्यय-63-ऋण एवं अग्रिम विपत्र कोड 10S68010078937000763	रु० 3,60,00,000 (रु० तीन करोड़ साठ लाख)
2	मुख्यशीर्ष-6801-विजली परियोजनाओं के लिए कर्ज, लघुशीर्ष-796-जनजातीय क्षेत्र उपयोजना, उपशीर्ष-37-झारखण्ड ऊर्जा संचरण निगम लि० को संचरण हेतु ऋण, विस्तृतशीर्ष-07-अन्य व्यय-63-ऋण एवं अग्रिम विपत्र कोड-10S68010079637000763	रु० 7,80,00,000 (रु० सात करोड़ अस्सी लाख)
3	मुख्यशीर्ष-6801-विजली परियोजनाओं के लिए कर्ज, लघुशीर्ष-205-संचरण तथा वितरण उपशीर्ष-37-झारखण्ड ऊर्जा संचरण निगम लि० को संचरण हेतु ऋण, विस्तृतशीर्ष-07-अन्य व्यय-63-ऋण एवं अग्रिम विपत्र कोड 10S68010020537000763	रु० 18,60,00,000 (रु० अठारह करोड़ साठ लाख)
	कुल	रु० 30,00,00,000 (रु० तीस करोड़)

- झारखण्ड ऊर्जा संचरण निगम लि० को दिये जाने वाली ऋण की शर्तें निम्न प्रकार होंगी:-
 - (क) ऋण का पुनः भुगतान 10(दस) बराबर वार्षिक किस्तों में होगा। इसकी पहली किस्त की अदायगी ऋण निकासी की तिथि से एक साल बाद से प्रारम्भ होगी एवं तदनुसार अन्य किस्तों की अदायगी प्रत्येक वर्ष होगी।
 - (ख) इस ऋण पर 13 प्रतिशत की दर से वार्षिक ब्याज देय होगा।
 - (ग) समय पर भुगतान करने पर 1/4 प्रतिशत की छूट देय होगा।
 - (घ) समय पर भुगतान नहीं करने पर 2.5 प्रतिशत की दर से विलम्ब दण्ड सूद देय होगा।
- इस योजना के निकासी एवं व्ययन पदाधिकारी अवर सचिव, ऊर्जा विभाग, झारखण्ड, राँची होंगे। राशि का विकलन सचिवालय कोषागार, डोरंडा, राँची से किया जाएगा तथा झारखण्ड ऊर्जा संचरण निगम लिमिटेड के पी०एल० खाता में जमा किया जाएगा।
- झारखण्ड ऊर्जा संचरण निगम लिमिटेड द्वारा निम्न शर्तों का अक्षरशः पालन किया जाएगा :-
 - i) विहित प्रपत्र में उपयोगिता प्रमाण पत्र उपलब्ध कराया जाएगा।
 - ii) योजना का मासिक भौतिक एवं वित्तीय प्रगति प्रतिवेदन अपर मुख्य सचिव, ऊर्जा विभाग को प्रत्येक माह के 5वीं तारीख को उपलब्ध कराना सुनिश्चित करेंगे।
 - iii) अंकेक्षण हेतु लेखा संबंधी कागजात एवं विवरणी का संधारण ससमय करेंगे।
 - iv) राशि की निकासी में वित्त विभाग के परिपत्र संख्या-2561, दिनांक 17.04.1998 एवं पत्रांक-1800, दिनांक-15.07.2003, वित्त विभाग के पत्रांक 2247, दि० 12.04.2002, कोषागार संहिता के नियम 300 एवं वित्त विभाग द्वारा समय-समय पर निर्गत परिपत्र का अनुपालन सुनिश्चित करेंगे।

- v) यह सुनिश्चित करेंगे कि इस योजना का दोहरीकरण नहीं हो रहा हो। साथ ही, इस योजनान्तर्गत राशि किसी अन्य शीर्ष से व्यय नहीं की जा रही हो।
- vi) "मंत्रिपरिषद से स्वीकृति के एक माह के अंदर निविदा सम्पन्न करा लिया जाय"। इस शर्त का अनुपालन झारखण्ड ऊर्जा संचरण निगम लि० द्वारा ससमय किया जाएगा।
7. अनुरोध है कि अवर सचिव (निकासी एवं व्ययन पदा०), ऊर्जा विभाग, झारखण्ड, राँची के प्रदनाम से प्राधिकार पत्र निर्गत करने की कृपा की जाय।

झारखण्ड राज्यपाल के आदेश से

ह०/-

सरकार के अपर मुख्य सचिव

गोपनीय
मुहरबंद

ज्ञापांक : 02/ऊ०वि०(संचरण) 03/23

राँची, दिनांक :

प्रतिलिपि—कोषागार पदाधिकारी, सचिवालय कोषागार, डोरण्डा, राँची को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

ह०/-

सरकार के अपर मुख्य सचिव

ज्ञापांक : 02/ऊ०वि०(संचरण) 03/23

राँची, दिनांक :

प्रतिलिपि—आंतरिक वित्तीय सलाहकार, ऊर्जा विभाग, झारखण्ड, राँची को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

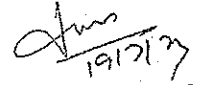
ह०/-

सरकार के अपर मुख्य सचिव

ज्ञापांक : 02/ऊ०वि०(संचरण) 03/23 81

राँची, दिनांक : 19/07/2023

प्रतिलिपि—विशेष सचिव, योजना-सह-वित्त विभाग (वित्त प्रभाग), झारखण्ड, राँची/माननीय विभागीय मंत्री के वरीय आप्त सचिव/प्रबंध निदेशक, झा०ऊ०सं०नि०लि०, राँची/अवर सचिव (निकासी एवं व्ययन पदा०), ऊर्जा विभाग/अपर मुख्य सचिव, ऊर्जा के प्रधान आप्त सचिव/बजट शाखा, ऊर्जा विभाग/लेखा शाखा, ऊर्जा विभाग, झारखण्ड, राँची को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।



सरकार के अपर मुख्य सचिव

Annexure C
(Central
Electricity
Authority
Approval)

2200/2018



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केंद्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत प्रणाली योजना एवं मूल्यांकन प्रभाग -II
Power System Planning & Appraisal Division-II

सेवा में / To,

संलग्न सूची के अनुसार
As per list enclosed

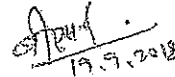
विषय : पारेषण तंत्र पर पूर्वी क्षेत्र स्थायी समिति (ईआरएससीटी) की प्रथम बैठक का कार्यवृत्त ।
Subject: 1st meeting of Eastern Region Standing Committee on Transmission (ERSCT) – Minutes.

महोदय(Sir)/महोदया(Madam),

पारेषण पर पूर्वी क्षेत्र स्थायी समिति (ईआरएससीटी) की पहली बैठक 16 जुलाई, 2018 को कोलकाता में आयोजित की गई थी। बैठक का कार्यवृत्त संलग्न है।

The 1st meeting of Eastern Region Standing Committee on Transmission (ERSCT) was held on 16th July 2018 at Kolkata. Minutes of the meeting is enclosed herewith.

भवदीय/Yours faithfully,


19.7.2018

(बी.एस. बैरवा/ B.S. Bairwa)

निदेशक/ Director

Copy for kind information to:

1) PPS to Member PS, CEA

Minutes of 1st meeting of ERSCT (16.07.2018)List of addressee:

1. Member Secretary, Eastern Regional Power Committee, 14, Golf Club Road, Tollygange, Kolkata-700033. Tel. No. 033-24235199 Fax No.033-24171358	2. Managing Director, Bihar State Power Transmission Company, Vidyut Bhavan (4 th floor), Baily Road, Patna-800021. Tel. 0612-2504442 Fax No. 0612-2504557
3. Chairman-cum-Managing Director, Jharkhand Urja Sancharan Nigam Limited Engineering Building, H.E.C., Dhurwa, Ranchi-834004. Fax-0651-2400799	4. Chairman-cum-Managing Director, Orissa Power Transmission Corporation Ltd, Jan path, Bhubaneswar-751022. Tel. No. 0674-2540098 Fax No.0674-2541904
5. Principal Chief Engineer cum Secretary, Power Department Government of Sikkim, Sikkim. Tel. No. 03592-2022440 Fax No.03592-202927	6. Managing Director, West Bengal State Electricity Transmission Company Ltd, Vidyut Bhavan (8 th Floor), A-block, Salt Lake City, Kolkata-700091. Tel. No. 033-23370206
7. Superintending Engineer, Electricity Department C/O Secretary (GA) Andaman and Nicobar Administration, Secretariat, Port Blair (AN)	8. Chief Operating Officer, Central Transmission Utility (CTU), Power Grid Corporation of India "Saudamini" Plot No. 2. Sector-29, Gurugram-122001 Tel. No. 0124-2571816 Fax No.0124-2571932
9. Director (System Operations), POSOCO B-9, Qutub Institutional Area, Katwaria Sarai, New Delhi-110016 Tel. No. 26852843 Fax No. 2626524525, 26536901	

Special Invitee :

- Chairman-cum-Managing Director,
Damodar Valley Corporation
DVC Towers, VIP Road,
Kolkata-700054.

Minutes of 1st meeting of Eastern Region Standing Committee on Transmission (ERSCT) held on 16th July 2018 at Kolkata

List of the participants is enclosed at **Annexure-I**.

Member (PS), CEA welcomed the participants. He stated that Ministry of Power, Govt. of India vide its order dated 13th April 2018, has constituted Eastern Region Standing Committee on Transmission (ERSCT) for planning of Transmission System in the Eastern Region in place of existing Standing Committee on Power System Planning. Accordingly, this is the first meeting of newly constituted Standing Committee. He thanked POWERGRID for hosting the meeting in the "City of Joy" Kolkata. After brief introduction of the participants, he requested Chief Engineer, CEA to start the proceedings.

Chief Engineer (PSPA-II), CEA stated that agenda points for this meeting inter-alia includes perspective intra-State transmission plan of Jharkhand, system strengthening schemes/ proposals of Orissa, West Bengal and follow up actions of the previous Standing Committee Meeting on Power System Planning. He informed that this is the first meeting of ERSCT. He stated that the MoP vide letter dated 13th April 2018, (copy enclosed at **Annexure-II**) have reconstituted the "Empowered Committee on Transmission" (ECT), "National Committee on Transmission"(NCT) and Regional Standing Committees on Transmission (SCT) for planning of Transmission System.

- The constitution of the "Eastern Region Standing Committee on Transmission" (ERSCT) for planning of Transmission System in the Region has been revised as given below:
 1. Member (Power System), Central Electricity Authority (CEA) as Chairperson
 2. Chief Operating Officer, Central Transmission Utility (POWERGRID) as Member
 3. Director (System Operation), Power System Operation Corporation Ltd. as Member
 4. Heads of State Transmission Utilities (STUs) of Bihar, Jharkhand, West Bengal, Odisha, Sikkim, Andaman Nicobar Islands as Member (STUs to coordinate with their respective Distribution Companies DISCOMs)
 5. Member Secretary of Eastern Region Power Committee as Member
 6. Chief Engineer (from Power System Wing), Central Electricity Authority (CEA) as Member Secretary
- The Terms of Reference (ToR) of ERSCT are as follows:
 - (i) Evolve and finalize system strengthening schemes for removal of operational constraints and transfer of surplus power through inter- regional corridors

- 7.7 Chief Engineer, CEA suggested that the transmission system of the UMPP can be optimised by placing sectionaliser between two split buses proposed at UMPP switchyard. He added that in case of fault in any of the transmission lines, the power could be evacuated by closing the sectionaliser. He also opined that LILO of one circuit of the Sundargarh-A – Dharamjaygarh 765kV D/c line at Odisha UMPP-A would be sufficient to evacuate the power at UMPP-A.
- 7.8 Member Secretary, ERPC stated that any new proposal /system strengthening should include implication of POC charges on each state. Representative of CTU replied that it is difficult to get an accurate estimation of the PoC charges on each state for the future proposals of system strengthening likely to come in next 4 to 5 years.
- 7.9 Member Secretary, ERPC stated that tentative allocation could also change as the states can change their opinion depending on time frame of implementation of the project. States agreed with the views of MS, ERPC.
- 7.10 Representative of CTU stated that CERC vide Amendment dated 17-02-2016 has directed CTU not to hold any connectivity/Access application in abeyance and process them within the timeline prescribed in Regulation 7 of the Connectivity Regulations.
- 7.11 Keeping in view the schedule commissioning of Odisha UMPP in 2024 and the issues raised on proposed transmission elements, it was decided that CEA, CTU, OPTCL and OIPL may jointly study the evacuation system of Odisha UMPP. The recommendations would be put up before the ERSCT in its next meeting for discussion.
- 8. Perspective transmission plan of JUSNL up to 2021-22**
- 8.1 Director, CEA informed that perspective transmission plan of JUSNL was discussed in the 19th meeting of SCPSPER, wherein it was decided that a separate meeting would be held at CEA to discuss the perspective intra-state transmission plan of JUSNL along with DVC. Accordingly, various rounds of discussions were held with stakeholders at CEA on 23-10-2017, 15-11-2017, 04-12-2017 and 13-12-2017, wherein the perspective intra-state transmission plan of JUSNL was finalised. On the basis of studies, following five (5) new 400/220 kV SS were agreed in-principle in intra-state system of JUSNL:
- (a) Jarsidih Substation, (400/220 kV, 2x500 MVA)
 - (b) Chandil Substation (New) (400/220 kV, 2x500 MVA)
 - (c) Koderma Substation (400/220 kV, 2x500 MVA)
 - (d) Mander Substation (400/220 kV, 2x500 MVA)
 - (e) Dumka Substation (New) (400/220 kV, 2x500 MVA)
- Creation of above substation and interconnections between them would complete the 400kV high-capacity ring viz. Patratu TPS – Koderma – Jasidih-Dumka– Dhanbad (ISTS) – New Chandil – Patratu TPS in Jharkhand, which shall improve reliability of power transfer within the state.

- 8.2 Representative of JUSNL stated that detailed scope of works (enclosed as **Annex-III**) included in their perspective transmission plan for 2021-22 is proposed to be implemented through PPP mode, World Bank funding, and State funding.
- 8.3 Representative of CTU enquired about the commissioning schedule of Patratu (3x800MW) TPS. Representative of JUSNL replied that Patratu Vidyut Unga Nigam Ltd (PVUNL), Unit-1, Unit-2 and Unit-3 are scheduled for commissioning in March 2022, September 2022 and March 2023 respectively.
- 8.4 On query about the progress of Tariff Base Competitive Bidding (TBCB) schemes, representative of JUSNL stated that total work which is to be carried out through TBCB mode is divided into 4 packages, 2 of the packages are under RfP stage and remaining 2 packages are under RfQ stage.
- 8.5 Representative of JUSNL stated that following additional projected loads of Jharkhand, which were not envisaged in 19th EPS, have been taken into consideration for arriving at the total load projection (4561 MW) in JUSNL's jurisdiction by 2021-22:
- The additional bulk industrial load of 950 MW across JBVNL supply area as per the assessment of Industries Department based on the MOUs signed with Govt. of Jharkhand and JBVNL's plan for electrification of 30, 29,567 number of house hold during 2017-2022.
 - Bulk load of 70 MW for supply to NTPC and SAIL.
 - A load of 20 MW considered for proposed Airport at Deogarh.
- 8.6 The representative of CTU stated that there were proposal of new 220kV substation at Patratu, Jasidih and Tamar, whereas these were not discussed in the meetings at CEA.
- 8.7 Representative of JUSNL stated the following, in support of additional transmission elements :
- (i) 220/132/33 kV system extension of under construction 400/220 kV Patratu S/s so as to form 400/220/132/33kV Patratu substation: Due to space constraint, 400/220 kV Patratu New S/s (under construction) would be linked to 220/132/33 kV Patratu New S/s (proposed in nearby location) through 1.5km 220kV D/c line (with twin moose ACSR conductor).
 - (ii) Upgradation of under constructing 220/132 kV Jasidih S/s to 400/220/132 kV substation: Due to constraint of space in the Jasidih 220/132 kV S/s (under construction), JUSNL have identified land in nearby location (about 2km away) for 400/220 kV Jasidih New S/s (proposed), which would be linked to Jasidih 220/132 kV S/s through 220kV D/c line (with twin moose ACSR conductor).
 - (iii) Upgradation of existing 132/33 kV Tamar S/s to 220/132/33 kV substation: Due to constraint of space in the existing Tamar substation, JUSNL have identified land in nearby location (about 2km away) for 220/132 kV

Tamar_New S/s(proposed), which would be linked to existing Tamar 132/33kV S/s through 132kV D/c line(with single moose conductor).

- 8.8 Chief Engineer, CEA opined that creation of new substation would definitely be more costly than augmentation of the existing substation because of establishment of complete infrastructure and various auxiliary facilities.
- 8.9 Member (Power System), CEA opined that planned intra-state transmission system for Jharkhand in the time frame of 2021-22 seems to be excess considering projected demand of Jharkhand for 2021-22. This would result higher tariff burden on consumers of Jharkhand. Therefore, optimum system may be planned commensurate with the projected demand.
- 8.10 Representative of POSOCO stated that entire power of Patratu Vidyut Utpadan Nigam Limited (PVUNL) (3x800 MW) could not be absorbed in Jharkhand system. Therefore, there is need for strong inter-connectivity with ISTS. Representative of CTU replied that 85% power of the project is allocated to Jharkhand. He also stated that Patratu generating station has strong ISTS connectivity of PVUNL with ISTS through Ranchi and Chandwa Pool (ISTS) substations. Moreover, the 400kV ring is proposed to be connected to ISTS substations at Dhanbad and Chaibasa.
- 8.11 On the query of Member Secretary, ERPC about consideration of Tenughat power generating station in the studies, PRDC/JUSNL replied that existing station and extension project of Tenughat has also been considered.
- 8.12 After deliberations, members were of the view that Jharkhand may not be able to attain the demand projected by them for 2021-22 time-frame, considering present trend in demand and also projections in 19th EPS. However, the system proposed by JUSNL at 8.2 was agreed with suggestion that the implementation of system may be done in phased manner matching with the growth of the electricity demand in the state.

9. System strengthening in southern Odisha

- 9.1 Director, CEA informed that in the 19th meeting of Standing Committee on Power System Planning for Eastern Region (SCPSPER) held on 01.09.2017, it was decided that a separate meeting would be held at CEA to discuss the intra-state system strengthening issue of Odisha. Subsequently, a meeting was held on 03.07.2018 to discuss above issues and following transmission system for additional feed to Southern Odisha was finalised.
- a) Narendrapur – Therubali – Jeypore 400kV D/c line along with 400kV switching station at Therubali and suitable reactive compensation
 - b) 765/400kV, 2x1500MVA new substation at Begunia
 - c) Switchgears at Begunia should be designed for 50kA or higher(for 1 sec) and 63kA (for 1 sec) at 765kV and 400kV levels respectively.
 - d) Angul – Begunia 765kV D/c line



Jharkhand Urja Sancharan Nigam Limited

ANNEXURE-I

PERSPECTIVE TRANSMISSION PROJECTS 2021-22 OF JUSNL (PPP Mode)

S.N.	Name of GSS / Trans. Line	Capacity / length	
		Capacity in MVA	Line Length in KM
A			
1	Establishment of new 400/220kV, 2x500MVA S/s at Chandil (New)	1000	
2	Patratu_New (PVUNL) – Chandil (New) 400kV D/c line with Quad Moose conductor		135
3	Dhanbad(NKTL) – Chandil (New) 400kV D/c line with Quad Moose conductor		125
4	Chaibasa(PGCIL) – Chandil (New) 400kV D/c line with Quad Moose conductor		100
5	LILO of Ranchi(PG) – Chandil_Old (JUSNL) 220kV D/C at Chandil (New). Ranchi(PG) – Chandil_Old (JUSNL) shall be LILOed at Sarwal (JUSNL) and Tamar(JUSNL) also, so as to form Ranchi(PG) – Sarwal (JUSNL) – Tamar (JUSNL) - Chandil(New) – Chandil (old)		20
Sub -Total (A)		1000	380
B			
1	Establishment of new 220/132kV 2x200MVA and 132/33 kV 2x80MVA S/s at 220/132/33kV Bero	560	
2	Mander (New) – Bero 220kV D/c line with Zebra conductor		21
3	Kamdara – Bero 132 kV D/c line with Panther conductor		50
Sub-Total (B)		560	71
C			
1	Establishment of new 220/132kV 2x200MVA S/s at Noamundi (New)	400	
2	Chaibasa(PG) – Noamundi (New) 220kV D/c line with Zebra conductor		69
3	Noamundi (Old) – Noamundi(New) 132kV D/c line with Panther Conductor		7

4	Manoharpur – Noamundi(New) 132kV D/c line with Panther Conductor		40
Sub -Total (C)		400	116
D			
1	Establishment of new 220/132 kV, 2x200MVA S/s at Khunti (New)	400	
2	Mander (New) – Khunti (New) 220kV D/c line with Zebra conductor		57
3	Simdega (New) – Khunti (New) 220kV D/c line with Zebra conductor		87
4	Khunti (New) – Khunti (Old) 132 kV D/c line with Panther conductor		14
5	LILO of Hatia (Old) – Kamdara 132 kV S/c line with HTLS (minimum 1050A) conductor at Khunti (New)		8
Sub -Total (D)		400	166
E			
1	Establishment of new - 400/220kV - 2x500MVA S/s at Dumka(New)	1000	
2	Jasidih – Dumka 400kV D/c line with Quad Moose conductor		131
3	Dhanbad – Dumka 400kV D/c line with Quad Moose conductor		122
4	LILO of Dumka – Godda 220kV D/c line at Dumka (New) with Zebra conductor		5
Sub-Total (E)		1000	258
F			
1	Establishment of new 400/220kV 2x500MVA, 220/132 kV 2x200MVA and 132/33 kV 2x80MVA S/s at 400/220/132/33kV Koderma	1560	
2	Patratu(PUVNL) - Koderma 400kV D/c Quad Moose line along with 2x63MVAR switchable line reactor in both the circuits at Koderma end		150
4	Jasidih – Koderma 400 kV D/c line with Quad Moose conductor		135
5	Koderma – Giridih 220kV D/c line with Zebra conductor		80
Sub-Total (F)		1560	365
G			

1	Establishment of new 220/132kV 2x200MVA and 132/33kV 2x80MVA S/s at 220/132/33kV Sarwal	560	
2	LILO of both circuits of Ranchi (PGCIL) – Tamar at Sarwal on Multi ckt. Tower..so as to form Ranchi(PG) – Sarwal (JUSNL) – Tamar (JUSNL) - Chandil(New) – Chandil (old).		10
Sub-Total (G)		560	10
H			
1	Establishment of new 220/132kV, 2x200MVA S/s at Jadugoda(New)	400	
2	Chandil (New) – Jadugoda (New) 220kV D/c line with Zebra conductor		80
3	Chaibasa(PGCIL) – Jadugoda (New) 220kV D/c line with Zebra conductor		60
4	Jadugoda (New) – Dhalbhumgarh 132kV D/c line with HTLS(1000A) conductor (1000A)		10
Sub-Total (H)		400	150
I			
1	Up-gradation of existing 132/33 kV Tamar S/s with 220/132 kV 2x200MVA ICT to form 220/132/33kV S/s	400	
2	Operation of Chandil(Old) – Ranchi 220 kV line (presently operated at 132 kV) at rated voltage. Dismantling of existing 132 kV LILO section at Tamar. LILO of both circuits of Chandil (JUSNL) – Ranchi (PGCIL) 220 kV D/C line at Tamar on Multi ckt. Tower.		10
Sub-Total (I)		400	10
J			
1	Establishment of new 400/220kV, 2x500MVA S/s at Mander	1000	
2	LILO of both the circuits of Ranchi(PG) – Patratu (New) 400 kV D/C Quad Moose line at Mander		10
3	220 kV D/C line : Mander - Ratu (JUSNL)		15
4	LILO of Hatia - Lohardaga 220 kV D/C line at Mander		10
Sub-Total (J)		1000	35
K			
1	Establishment of new 220/132kV 2x200MVA and 132/33 kV 2x50MVA S/s at 220/132/33 kV Palojori	500	

2	LILO of 220 kV D/C Dumka – Govindpur Line at Palojori GSS		10
Sub-Total (K)		500	10
L			
1	Establishment of new 220/132kV, 2x200MVA S/s at Simdega(New)	400	
2	Simdega(New) – Simdega(Old) 132 kV D/c line with Panther conductor .		10
Sub-Total (L)		400	10
M			
1	Up-gradation of 220/132kV Jasidih S/S with 400/220kV, 2x500MVA ICT to form Jasidih 400/220/132 S/s	1000	
Sub -Total (M)		1000	0
N			
1	Extension at 400/220kV Patraru(New) JUSNL S/S with 220/132kV 2x200MVA and 132/33kV 2x50MVA ICT to form Patraru 400/220/132/33kV S/s	500	
2	220 kV D/C line for termination of existing PTPS (Old) – Hatia(New) 220 kV D/c line at Patraru (New) so as to form Patraru(New) – Hatia (New) 220 kV D/c line.		2
3	132kV D/c line for termination of existing PTPS(Old) – Hatia(Old) D/C (with one circuit LILO at Kanke) from PTPS(Old) to Patraru (New) so as to form Patraru(New) – Hatia (Old) D/c line (with one circuit LILO at Kanke)		2
Sub-Total (N)		500	4
O			
1	Establishment of new 220/132kV, 2x200MVA and 132/33 kV 2x50MVA S/s at 220/132/33kV Hazaribagh	500	
	Tenughat TPS – Hazaribagh 220kV D/c line with Zebra conductor		58
Sub-Total (O)		500	58
P			
1	Establishment of new 220/132kV 2x200MVA and 132/33kV 2x80MVA S/s at 220/132/33kV Gomia	560	
2	Topchachi – Gomia 220 kV D/c line with Zebra conductor		50

3	Tenughat (TPS) – Gomia 220 kV D/C line with HTLS(1600A) conductor:		10
Sub-Total (P)		560	60
Q			
1	Establishment of new 220/33kV, 2x100MVA S/s at Barkatha	200	
2	Barkatha – Hazaribagh 220kV D/c line with Zebra conductor		18
Sub-Total (Q)		200	18
R			
1	Establishment of new 220/132kV 2x200MVA and 132/33kV 2x50MVA S/s at 220/132/33kV Topchanchi	500	
2	Baliyapur – Topchanchi 220kV D/C line with Zebra Conductor		50
3	Putki – Topchanchi 132kV D/C line with Panther Conductor		27
Sub-Total (R)		500	77
S			
1	Establishment of new 220/132kV 2x200MVA and 132/33kV 2x50MVA S/s at 220/132/33kV Baliyapur	500	
	LILO of 220 kV D/C Dumka –Govindpur Line at Baliyapur GSS		7
Sub-Total (S)		500	7

Jharkhand Uria Sancharan Nigam Limited

ANNEXURE-II

PERSPECTIVE TRANSMISSION PROJECTS 2021-22 OF JUSNL (WORLD BANK FUNDED)

S.N.	Name of GSS / Trans. Line	Capacity (MVA)	Length of Transmission Lines (KM)
A			
1	132/33 kV GSS at Silli (2x50 MVA)	100	
2	132 kV D/C 3 Ph. Silli - Chouka(132/33 kV) Trans line		70
B			
1	132/33 kV GSS at Irba (2x50 MVA)	100	
2	132 kV D/C 3 Ph. Irba - Kanke(132/33 kV) Trans line		13
3	132 kV D/C 3 Ph. Irba - Ratu(220/132/33 kV) Trans line		21
C			
1	132/33KV GSS Chainpur (2x50 MVA)	100	
2	132 kV D/C 3 Ph. Chainpur-Mahuadanr(132/33 kV) Trans line		42
3	LILO of 132 kV Gumla(132/33 kV) - Simdega(132/33 kV) Trans Line at GSS Chainpur		20
D			
1	132/33 kV GSS at Shikaripara (2x50 MVA)	100	
2	132 kV D/C 3 Ph. Dumka(132/33 kV) - Shikaripara Trans line		40
E			
1	132/33 kV GSS at Sundarnagar (2x50 MVA)	100	
2	LILO of 132 kV Ramchandrapur(220/132 kV) - Jadugoda(132/33 kV) Trans Line at GSS Sundarnagar		20

S.N.	Name of GSS / Trans. Line	Capacity (MVA)	Length of Transmission Lines (KM)
F			
1	132/33 kV GSS at Chhatarpur (2 x 50 MVA)	100	
2	132 kV D/C 3 Ph. Chhatarpur - Daltonganj(400/220/132 kV GSS) Trans line		50
3	132 kV D/C 3 Ph. Chhatarpur - Japla(132/33 kV) Trans line		40
G			
1	132/33KV GSS Meral (At 220/132 kV Garhwa GSS Down Stream) (2x50 MVA)	100	
H			
1	132/33KV GSS Mahuadanr (2x50 MVA)	100	
2	132 kV D/C 3 Ph. Latehar(400/220/132 kV) - Mahuadanr Trans line		45
I			
1	132/33 kV GSS at Angada (2x50 MVA)	100	
2	132 kV D/C 3 Ph. Silli(132/33 kV) - Angada Trans line		43
3	132 kV D/C 3 Ph. Angada - Sikidiri (Irba)(132/33 kV) Trans line		50
J			
1	132/33 kV GSS at Amrapara (2x50 MVA)	100	
2	132 kV D/C 3 Ph. Amrapara - Godda(220/132/33 kV) Trans line		80
3	132 kV D/C 3 Ph. Amrapara - Pakur(132/33 kV) Trans line		45
K			
1	LILO of one Ckt Of 132 KV D/C 3 ph Chaibasa(220/132 kV) - Manoharpur(132/33 kV)		14
L			

S.N.	Name of GSS / Trans. Line	Capacity (MVA)	Length of Transmission Lines (KM)
1	132/33KV GSS Ramkanda (2x50 MVA)	100	
2	132 kV D/C 3 Ph. Ramkanda - Garhwa(220/132 kV) Trans line		60
M			
1	132/33KV GSS Panki (2x50 MVA)	100	
2	132 kV D/C 3 Ph. Chhatarpur(132/33 kV) - Panki Trans line		50
N			
1	132/33KV GSS NagarUntari (2x50 MVA)	100	
2	132 kV D/C 3 Ph. Nagar Utari - Garhwa(220/132 kV) Trans line		40
O			
1	132/33 kV GSS at Chouka (2x50 MVA)	100	
2	132 kV D/C 3 Ph. Chouka - Tamar(220/132/33 kV) Trans line		75
P			
1	132 kV GSS at Chandawa (2x50 MVA)	100	
2	132 kV D/C 3 Ph. Chandawa - Latehar(400/220/132 kV) Trans line		70
Q			
1	132/33 kV GSS at Chakuliya (2x50 MVA)	100	
2	LILO of both 132 kV Bahragora(132/33 kV)-Dhalbhumgarh(132/33 kV) Trans Line at GSS Chakuliya		30
R			
1	132/33 kV GSS at Hansdiha (2x50 MVA)	100	
2	LILO of 132 kV Lalmatia(220/132 kV)-Dumka(132/33 kV) Trans Line at GSS Hansdiha		35
3	132 kV D/C 3 Ph. Hansdiha-Jasidih(400/220/132/33 kV) Trans Line		50

S.N.	Name of GSS / Trans. Line	Capacity (MVA)	Length of Transmission Lines (KM)
S			
1	132/33 kV GSS at Jarmundi (2x50 MVA)	100	
2	LILO of 132 kV D/C 3 Ph. Dumka(132/33 kV) – Deoghar(132/33 kV) Trans line at GSS Jarmundi		6

T			
1	132/33 kV GSS at Kandra (2x50 MVA)	100	
2	LILO of 132 kV D/C 3 Ph. Chandil(220/132 kV) – Rajkharsawan(132/33 kV) Trans line at Kandra		35

U			
1	132/33 kV GSS at Kalebira (2x50 MVA)	100	
2	132 kV D/C 3 Ph. Kalebira – Kamdara(132/33 kV) Trans line		40
3	132 kV D/C 3 Ph. Kalebira – Simdega(220/132 kV) Trans line		70

V			
1	132/33 kV GSS at Kurdeg (2x50 MVA)	100	
2	132 kV D/C 3 Ph. Kurdeg – Simdega(220/132) Trans line		45

W			
1	132/33 kV GSS at Sarath (2x50 MVA)	100	
2	132 kV D/C 3 Ph. Sarath - Palojori(220/132 kV) Trans Line		24
3	132 kV D/C 3 Ph. Sarath - Chitra(132/33 kV) Trans Line		20

X			
1	132/33 kV GSS at Surda (2x50 MVA)	100	
2	132 kV D/C 3 Ph. Surda-Jadugoda(220/132 kV) Trans Line		20

S.N.	Name of GSS / Trans. Line	Capacity (MVA)	Length of Transmission Lines (KM)
3	132 kV D/C 3 Ph. Surda-Bahragora(132/33 kV) Trans Line		29
4	132 kV D/C 3 Ph. Surda-Musabani(DVC)(132/33 kV) Trans Line		10

Y

1	132/33 kV GSS at Naudiha (Palamu) (2x50 MVA)	100	
2	132 kV D/C 3 Ph. Naudiha-Chhatrapur(132/33 kV) Trans Line		19

Z

1	132/33 kV GSS at Narayanpur (Devipur) (2x50 MVA)	100	
2	LILO of 132 kV D/C 3 ph. Jamtara(132/33 kV) - Madhupur(132/33 kV) Trans Line at Narayanpur (Devipur)		12



Jharkhand Urja Sancharan Nigam Limited

ANNEXURE-III

PERSPECTIVE TRANSMISSION PROJECTS 2021-22 OF JUSNL (State Plan funded))

S.N.	Name of GSS / Trans. Line	Capacity / length	
		Capacity in MVA	Line Length in KM
A			
1	132/33 kV GSS at Ramgarh(2x50 MVA)	100	
2	132 kV D/C 3 Ph. Ramgarh - PTPS Transmission line		40
3	132 kV D/C 3 Ph. Ramgarh - Hazaribagh Transmission line		65
Sub-Total (A)			
B			
1	132/33 kV GSS at Barkagaon (2x50 MVA)	100	
2	132 kV D/C 3 Ph. Barkagaon - PTPS (220 kV) Transmission line		32
Sub-Total (B)			
C			
1	132/33 kV GSS at Gola (2x50 MVA)	100	
2	132 kV D/C Ramgarh - Gola trans. line		37
3	132 kV D/C 3 Ph. Silli - Gola Transmission line		26
Sub-Total (C)			
D			
1	132/33 kV GSS at Barhi (2 x 50 MVA)	100	
2	132 kV D/C 3 Ph. Barhi - Chatra (Ikhori) Transmission line		24
3	132 kV D/C 3 Ph. Barhi - Hazaribagh (220 kV) Transmission line		42
Sub-Total (D)			
E			
1	132/33 kV GSS at Bishnugarh/ Banaso (2 x 50 MVA)	100	
2	132 kV D/C 3 Ph. Saria - Bishnugarh Transmission line		26
3	132 kV D/C 3 Ph. Gomia - Bishnugarh Transmission line		21
4	132 kV D/C 3 Ph. Bishnugarh - Hazaribagh Transmission line		47
Sub-Total (E)			
F			
1	132/33 kV GSS at Dugda (2 x 50 MVA)	100	
2	132 kV D/C 3 Ph. Dugda - Jainamore (Bokaro) Transmission line		22
3	132 kV D/C 3 Ph. Gomia - Dugda Transmission line		50
Sub-Total (F)			
G			
1	132/33 kV GSS at Putki (2 x 50 MVA)	100	
2	132 kV D/C 3 Ph. Putki - Govindpur Transmission line		33
Sub-Total (G)			

H			
1	132/33 kV GSS at Mahuda (2 x 50 MVA)	100	
2	132 kV D/C 3 Ph. Mahuda - Putki Transmission line		9
	Sub-Total (H)		
I			
1	132/33 kV GSS at Petarwar (2x50 MVA)	100	
2	132 kV D/C 3 Ph. Peterwar - Jaina More (Bokaro) Transmission line		23
3	132 kV D/C 3 Ph. Gola - Peterwar Transmission line		16
	Sub-Total (I)		
J			
1	132/33 kV GSS at Hunterganj (2x50 MVA)	100	
2	132 kV D/C Hunterganj-Itkhorri Trans Line		54
3	132 kV D/C Hunterganj-Chatra Trans Line		30
	Sub-Total (J)		
K			
1	132/33 kV Grid Sub-Station (2x50 MVA) Gawan	100	
2	132 kV D/C 3 Ph. Jamua - Gawan Transmission line (45 KM)		58
3	132 kV D/C 3 Ph. Koderma - Gawan Transmission line (60 KM)		54
	Sub-Total (K)		
L			
1	132/33 kV GSS at Nirsa (2x50 MVA)	100	
2	132 kV D/C 3 Ph. Nirsa - Balyapur Transmission line		24
	Sub-Total (L)		
M			
1	132/33 KV GSS Simaria	100	
2	132 kV D/C 3 Ph. Chatra-Simaria		28
	Sub-Total (M)		
	Total (A - M)	1300	761

Annexure D

(Detailed Project

Report)