

BEFORE
THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

Petition No. ____/TT/ ____

IN THE MATTER OF: -

Subject matter: Petition for truing up of Transmission tariff for 2019-24 and determination of transmission tariff for 2024-29 tariff block **for Asset under Eastern Region Expansion Scheme – XXVI (ERES-XXVI) in Eastern Region** under Section 62 read with Section 79 (1) (d) of Electricity Act, 2003 and under the Regulation 15 (1) (a) and Regulation 23 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 read with Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2019 and Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2024.

Power Grid Corporation of India Ltd.

---PETITIONER

Registered office: B-9, Qutab Institutional Area,
Katwaria Sarai, New Delhi. - 110 016.
Corporate Centre: 'SAUDAMINI', Plot No-2,
Sector-29, Gurgaon-122 001, Haryana.

Bihar State Power (Holding) Company Ltd.

---RESPONDENT

Vidyut Bhavan, Bailey Road,
Patna – 800 001, Bihar.
Represented by its Chairman

And others

Place: Gurgaon

Petitioner

Date: 25.04.2025

Chief General Manager (Commercial & RC)



BEFORE
THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

PETITION NO.:

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Subject matter: Petition for truing up of Transmission tariff for 2019-24 and determination of transmission tariff for 2024-29 tariff block **for Asset under Eastern Region Expansion Scheme –XXVI (ERES-XXVI) in Eastern Region** under Section 62 read with Section 79 (1) (d) of Electricity Act, 2003 and under the Regulation 15 (1) (a) and Regulation 23 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 read with Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2019 and Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2024.

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FILED BY

POWER GRID CORPORATION OF INDIA LTD.

GURGAON

REPRESENTED BY

DATED: 17.04.2025

(Mohd. Mohsin)

Chief General Manager (Commercial & RC)



BEFORE
THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

PETITION NO.:

IN THE MATTER OF:

Subject matter: Petition for truing up of Transmission tariff for 2019-24 and determination of transmission tariff for 2024-29 tariff block **for Asset under Eastern Region Expansion Scheme – XXVI (ERES-XXVI) in Eastern Region** under Section 62 read with Section 79 (1) (d) of Electricity Act, 2003 and under the Regulation 15 (1) (a) and Regulation 23 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 read with Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2019 and Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2024.

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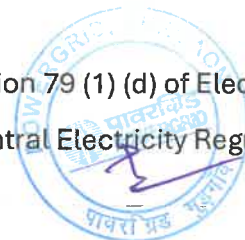
Vidyut Bhavan, Bailey Road,
Patna – 800 001, Bihar.
Represented by its Chairman

And others

To
The Secretary
Central Electricity Regulatory Commission
New Delhi 110001

Sir,

The present tariff Petition is filed under Section 62 read with Section 79 (1) (d) of Electricity Act, 2003 and under the Regulation 15 (1) (a) and Regulation 23 of Central Electricity Regulatory



Commission (Conduct of Business) Regulations, 2023 read with Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2019 and Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2024 and same may be pleased to be registered and taken on record by the Hon'ble Commission.

FILED BY

POWER GRID CORPORATION OF INDIA LTD.

GURGAON

REPRESENTED BY

DATED: 25.04.2025


(Mohd. Mohsin)


Chief General Manager (Commercial & RC)

**BEFORE
THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI**

PETITION NO.:

IN THE MATTER OF:

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Bihar State Power (Holding) Company Ltd.

---RESPONDENT

Vidyut Bhavan, Bailey Road,
Patna – 800 001, Bihar.
Represented by its Chairman

And others

MEMO OF PARTIES

Power Grid Corporation of India Ltd.

--- PETITIONER

VERSUS

Eastern Region

--- RESPONDENTS

1. Bihar State Power (Holding) Company Limited
Vidyut Bhawan, Bailey Road,
Patna - 781001, Bihar
Represented by its Chairman



2. West Bengal State Electricity Distribution Company Limited
Bidyut Bhawan, Bidhan Nagar,
Block DJ, Sector-II, Salt Lake City,
Kolkata - 700 091, West Bengal
Represented by its Chairman.
3. Grid Corporation Of Orissa Ltd
Shahid Nagar,
Bhubaneswar - 751 007, Odisha
Represented by its Chairman & Managing Director
4. Damodar Valley Corporation
DVC Tower, Maniktala
Civic Centre, VIP Road,
Kolkata - 700 054, West Bengal
Represented by its Chairman
5. Power Department, Govt. of Sikkim,
Gangtok – 737 101, Sikkim
Represented by its Commissioner and Secretary (Power)
6. Jharkhand Bijli Vitran Nigam Ltd
Engineering Building, H.E.C., Dhurwa,
Ranchi – 834 004, Jharkhand
Represented by its Chairman

GURGAON

DATED: 25.04.2025

PETITIONER
POWER GRID CORPORATION OF INDIA LTD.
REPRESENTED BY

Chief General Manager (Commercial & RC)



**BEFORE
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Represented by its Chairman

And others

MEMO OF APPEARANCE

POWER GRID CORPORATION OF INDIA LTD.

-- PETITIONER

1. Shri Dilip Nagesh Rozekar, ED (Commercial & Regulatory Cell), POWERGRID
2. **Shri Mohd. Mohsin, Chief GM (Commercial & Regulatory Cell), POWERGRID**
3. Shri V.C. Sekhar, Sr. GM (Regulatory Cell)
4. Shri Zafrul Hasan, GM (Commercial), POWERGRID



5. Smt. Suchitra Rani Gautam, DGM (Commercial)
6. Shri. Arjun Malhotra, Manager (Law-Commercial)

I, Mohd. Mohsin, the Petitioner above named do hereby nominate to act, plead and appear on my behalf in the aforesaid matter.

IN WITNESS WHEREOF I have set and subscribed my hands to this writing on this 25th date of Apr'2025.

PETITIONER

POWER GRID CORPORATION OF INDIA LTD.

GURGAON

DATED: 25.04.2025

(Mohd. Mohsin)

Chief General Manager (Commercial & RC)



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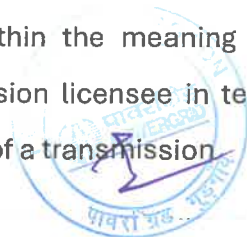
Represented by its Chairman

And others

A. EXECUTIVE SUMMARY OF THE PETITION:

(i) Brief Background of the Petitioner

1. The Petitioner herein, Power Grid Corporation of India Ltd. (Hereinafter referred to as **"POWERGRID/Petitioner"**) is a Government Company within the meaning of the Companies Act, 2013. POWERGRID is deemed transmission licensee in terms of Section 14 of the Electricity Act, 2003. POWERGRID by virtue of a transmission



licensee is required to inter-alia build, maintain and operate an efficient, coordinated and economical interstate transmission system (“ISTS”). POWERGRID operates and functions within the regulatory control of this Hon’ble Central Electricity Regulatory Commission (hereinafter referred to as “**Hon’ble Central Commission**”). Tariff for the transmission system established by POWERGRID is required to be determined by this Hon’ble Central Commission in accordance with the Tariff Regulations as notified by this Hon’ble Central Commission in exercise of its powers under Section 178 of the Electricity Act, 2003.

(ii) Brief Background of the Respondent(s):

POWERGRID has impleaded distribution licensees and Government department of the respective states which are engaged in distribution of electricity in Eastern Region of India. The respondents are also ‘Designated Inter State Transmission Customer’ (hereinafter referred to as ‘DICS’) in terms of the 2020 Sharing Regulations from Eastern region.

(iii) Background of Transmission Assets:

2. POWERGRID has filed the present petition for truing up of transmission tariff for 2019-24 and determination of transmission tariff for 2024-29 tariff block for the following Asset which are under “**Eastern Region Expansion Scheme – XXVI (ERES-XXVI)**” for the following:

Asset Name	DOCO	Remarks
1X500 MVA, 400/220kV 03rd ICT along with its associated 400kV and 220kV bays at 400/220kV Ranchi (PG) sub-station	01.06.2023	Herein referred as Asset-I

Entire scope of subject project is captured in the above table.



(iv) Summary of Claims:

3. A. POWERGRID is seeking truing up of transmission tariff for 2019-24 and determination of transmission tariff for 2024-29 tariff block for aforesaid transmission asset on capital cost comprising of capital cost incurred/Admitted upto 31.03.2019/DOCO and additional capital expenditure during 2019-24 & 2024-29 in accordance with terms of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 ("**Tariff Regulations, 2019**") and Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 ("**Tariff Regulations, 2024**").
4. The details of FR (Feasibility Report) /RCE (Revised Cost Estimate) approved cost vis-à-vis claimed capital cost as on 31.03.2019 and additional capital expenditure during 2019-24 and 2024-29 tariff block is as under:

TARIFF BLOCK 2019-24:

₹ in Lakhs								
Asset No	Apportioned approved cost as per FR	Capital cost as on COD	Additional Capitalization (2019-24)					Capital Cost as on 31.03.2024
			19-20	20-21	21-22	22-23	23-24	
I	3210.00	1957.79	-	-	-	-	686.08	2643.87

TARIFF BLOCK 2024-29:

₹ in Lakhs								
Asset No	Apportioned approved cost as per FR	Capital cost as on 31.03.2024	Additional Capitalization (2024-29)					Capital Cost as on 31.03.2029
			24-25	25-26	26-27	27-28	28-29	
I	3210.00	2643.87	497.38	50.00	0.00	0.00	0.00	3191.25



5. Details of tariff claimed are as under:

True up annual transmission tariff for 2019-24 tariff block:

Tariff For 2019-24 Block						
						₹ in Lakhs
Asset No	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Asset-I	Tariff (approved vide CERC order 351/TT/2023)	-	-	-	-	518.82
	True-Up tariff (claimed vide instant petition)	-	-	-	-	547.74

Tariff For 2024-29 Block					
					₹ in Lakhs
Asset No	2024-25	2025-26	2026-27	2027-28	2028-29
Asset-I	655.12	697.76	698.85	696.41	695.21

6. It is prayed to the Hon'ble Commission to take on record the instant petition and approve the capital cost claimed for tariff determination & condone the time overrun of 44 days and it is further prayed to condone the contested period of time overrun, reimburse expenditure of petition filing fee, license fee, newspaper publication expenses and RLDC fee & charges etc.

B. DETAILED PETITION:

MOST RESPECTFULLY SHOWETH:

Issue wise submission(s):

7. The Petitioner herein, Power Grid Corporation of India Ltd/ POWERGRID, is a Government Company within the meaning of the Companies Act, 1956. POWERGRID is a deemed transmission licensee under Section 14 of the Electricity Act 2003.



8. POWERGRID being transmission licensee is required to inter-alia build, maintain and operate an efficient, coordinated and economical interstate transmission system (ISTS). The tariff for the said transmission systems shall be determined by the Hon'ble Central Commission in accordance with the Tariff Regulations, 2019 and 2024.
9. That the subject project/petition covers approval of transmission tariff for following Asset:

Asset No	Asset Name	DOCO	Remarks
Asset-I	1X500 MVA, 400/220kV 03rd ICT alongwith its associated 400kV and 220kV bays at 400/220kV Ranchi (PG) sub-station	01.06.2023	Covered under instant petition <i>(Earlier covered under Petition no. 351/TT/2023)</i>

COST DETAILS:

TARIFF BLOCK 2019-24:

10. The details of admitted cost for the asset covered in instant petition as per Hon'ble Commission order dated 01.11.2024 in petition no. 351/TT/2023 **(Encl-1)** for 2019-24 tariff block, and claimed cost now is given hereunder:

Asset No	Apportioned approved cost as per FR	Capital cost admitted as on COD	Additional Capitalization allowed (2019-24)					₹ in Lakhs
								Capital Cost allowed as on 31.03.2024
			19-20	20-21	21-22	22-23	23-24	
I	3210.00	1900.81*	-	-	-	-	385.69	2286.50
<p><i>Remarks, if any: -</i></p> <p><i>*: Cost after deduction of IDC & IEDC amounting to Rs. 17.71 lakhs & Rs. 56.98 lakhs respectively against time overrun not condoned by CERC.</i></p>								



INITIAL SPARES:

11. It is submitted that the initial spares for Sub-station head of the subject Asset under Regulation 23 of the CERC (Terms and Conditions of Tariff) Regulations 2019 had been claimed as per details given here under:

₹ in Lakhs					
Asset	Components of the Asset	Plant and Machinery cost for calculation of initial spares	Initial spares claimed		Ceiling limit as per Regulations (%)
			Amount (₹)	Percentage (%)	
Asset-I	Transmission Line	-	-	-	1.00
	Sub-station*	2860.83	117.65	4.29%	6.00
	PLCC	-	-	-	3.50

**Ranchi 400/220kV: Brownfield AIS*

The initial spares claimed only under S/S head and the same are within the permissible limits as per Regulations 2019.

The Hon'ble Commission vide their order dated 01.11.2024 in petition no. 351/TT/2023 has admitted the same.

Further, the initial spares discharge statement for the instant Asset-I is as tabulated below:

Asset name	Total initial spares in Auditor certificate		Spares Discharge (₹ in Lakhs)							
			COD		2023-24		2024-25 (est.)		2025-26 (est.)	
			TL	SS	TL	SS	TL	SS	TL	SS
Asset-I	-	117.65	-	25.65	-	30.56	-	61.45	-	-

DIRECTION(S) IN TARIFF ORDER 351/TT/2023:

12. It is relevant to mention here that Hon'ble Commission vide order dated 01.11.2024 in petition no. 351/TT/2023 had observed variation in the cost estimate viz. cost estimate for the subject project as per Investment approval (Rs. 32.10 crs) vis-à-vis the cost estimate by CTUIL while approving this scheme (Rs. 27.00 crs).



I. The Hon'ble Commission further directed the petitioner to submit the reasons for the above-mentioned cost variation.

➤ With regards to the above, it is submitted that the basis of cost estimates, reflected in the Office Memorandum of schemes approved by CTUIL are not known to the petitioner. However, variation in the cost estimates, as prepared by the Petitioner vis-à-vis the CTUIL, could be on the following grounds based on the petitioner's assessment:

- i. Variation in price level (and thus variable indices/ SORs) used for arriving at the estimates.
- ii. The estimates of the petitioner are based on BOQs as prepared through detailed engineering by the petitioner.
- iii. Estimates of the petitioner are influenced by the actual site conditions marked for execution of project.
- iv. Whether the estimates prepared (by CTUIL), comprises of parameters (in addition to equipment cost) such as IDC/ IEDC /contingencies/ minor infrastructure works and are in the same arithmetic proportions/ratios, etc as is the approach used by the petitioner for computing the estimates.

Further, the probable grounds as mentioned above are not sacrosanct and may evolve with time apart from modification of the methodology adopted.

➤ In the instant case, i.e. ERES-XXVI, the cost estimate is Rs. 32.10 crs as per Investment approval (dtd 25.01.2022) of petitioner. The following is the breakup of the cost estimate prepared by Petitioner (same also provided in Annexure-I of the investment approval):



(Cost updated to September 2021 price level)			
Sl. No.	DESCRIPTION		AMOUNT (Rs. in Crs.)
A	Civil Works		
	i) Infrastructure for substation		0.20
B	Equipment Cost		
	a) Substation		27.21
	Sub Total (A TO B)		27.41
C	Incidental Expenditure During construction (IEDC)	@ 10.75% of C	2.95
D	Contingencies @ 3% of C		0.82
	Sub Total (A TO D)		31.18
E	Interest During Construction (IDC)		0.92
	GRAND TOTAL		32.10

{For the equipment i.e. 500 MVA ICT, Unit rates for 400kV, 500 MVA Transformer and Substation equipment's have been taken from Schedule of Rates (which has been prepared based on the average of unit rates of latest LOAs/Bids and/or from Raw material prices) for September'2021 Price level had been considered by the petitioner}

- Whereas in the instant case, i.e. ERES-XXVI, the cost estimate is Rs. 27.00 crs as prepared by CTUIL. It is re-iterated that that the details of the said cost estimate of CTUIL is not known to the petitioner, however, it is likely that CTUIL may have considered the following (point wise assessment w.r.t. abstract cost as per I.A.):
- Non-consideration of estimate for minor infrastructure works in an existing substation i.e. Ranchi 400/220kV S/s.
 - Variation or lower estimation in cost considered for the equipment (i.e. 500 MVA 400kV ICT & associated equipment) due to use of different price indices(s)/SOR(s).
 - Non-consideration of estimate for IEDC or use of alternate factor(s) resulting in lower amount.
 - Non-consideration of estimate for Contingencies.
 - Use of different computation factor resulting in lower amount of IDC.



It is prayed to the Hon'ble Commission to admit and approve the cost estimate of the petitioner amounting to Rs. 32.10 crs as per the subject Investment approval (dtd 25.01.2022).

II. Further, CERC had mentioned that it is desirable to keep cost variation in cost estimates to minimum and also directed CTUIL to put a procedure in place (in consultation with National Committee on Transmission (NCT)) for following cases:

- (a) where variation of IA cost vis-a-vis CTUIL estimate exceeds 10%.
- (b) where IA cost exceeds the CTUIL estimate by 100 crores.

- With regards to above, it is submitted that direction of the Hon'ble Commission has been conveyed to CTUIL vide our letter dated 04.12.2024.
- Consequently, the matter was taken up in the 26th meeting of the National Committee on Transmission (NCT) held on 06.01.2025. It is submitted that in response to the above stated observation & direction of the Hon'ble Commission, the following was deliberated and decided in this NCT meeting:

Quote

The matter was deliberated in NCT and it was decided that the following procedure shall be followed by CTUIL in case variation of DPR cost is beyond 10% of CTUIL's estimated cost.

- a. *Within 30 days of the allocation of the project/scheme by CTUIL, the Transmission Licensee (TSP) shall intimate the DPR cost alongwith break-up of cost estimate including compensation cost with supporting documents to CTUIL.*
- b. *CTUIL shall analyse the DPR cost as submitted by TSP and may ask for further clarification along with supporting documents as required within 7 days' time. TSP shall furnish the requisite details to CTUIL within another 7 days' time.*
- c. *CTUIL shall prepare a comparison statement of their original estimated cost vs Licensee's DPR cost. After due diligence, CTUIL shall revise the cost estimate of the ISTS project/scheme, if required and intimate the revised cost estimate to TSP without any change in timeline of the project/scheme within 10 working days if the CTUIL revised cost estimate of ISTS project/scheme is less than Rs.100 Cr.*
- d. *If CTUIL revised cost estimate of ISTS project/scheme is greater than Rs. 100 Cr., then CTUIL shall bring up the scheme in the NCT as a fresh agenda.*

Unquote

The relevant extract of the 26th NCT are enclosed as **Encl-2.**



13. Furthermore, the Hon'ble Commission vide order dated 01.11.2024 in petition no. 351/TT/2023 did not condone the time overrun instant asset. However, liberty was provided in the said order to the petitioner to furnish the time overrun due to shut-down constraints for 44 days at the time of truing up.

That as per the IA dated 25.01.2022, the transmission scheme was scheduled to be put into commercial operation by February 2023. Further, CTUIL, vide its OM dated 16.11.2021, approved the transmission scheme under the Regulated Tariff Mechanism (RTM) with an implementation schedule of 15 months from the date of its OM, thus the transmission asset was to be put under commercial operation by 15.02.2023. However, the transmission asset has been commissioned w.e.f. 01.06.2023 with a time over-run of 106 days as tabulated below:

Asset	SCOD	COD	Time overrun	Remarks
Asset-I	15.02.2023	01.06.2023	106 days	Not condoned

Direction(s) at Para 38 of the order in 351/TT/2023:

Quote

“

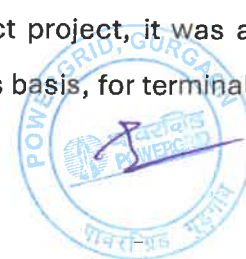
38. In the absence of any corroborating documentary evidence in support of the 44-day shutdown delay, we are not inclined to condone the delay as claimed by the Petitioner on account of the delay in availing of requisite shutdown approvals. However, the Petitioner is granted the liberty to furnish the time overrun reasons qua shutdown of 44 days when truing up the tariff Petition for the 2019-24 period is filed along with supporting data/communications.

“

Unquote

With regards to above the detailed justification is as below:

- A. The instant asset had to be commissioned in the existing 400/220 Ranchi (Namkum) S/S. In order to execute the extension works under the subject project, it was a necessity to obtain shutdown(s) (S/D), preferably on continuous basis, for terminal and pre-commissioning works.



- B. After the completion of major part of erection works associated with instant asset i.e. 500 MVA 400kV ICT-3 at Ranchi, the request for approval for shutdown(s) were made to ERLDC. The approval of shutdown provided by ERLDC required consent of regional Load Despatch Centres i.e. SLDCs operating Eastern Region especially SLDC-Ranchi.
- C. It is submitted that, the shutdown were applied to carry out necessary works like bus stringing, bus-bar stability, protection testing, etc. Further, the nature of shutdown sought was of “continuous” basis for an uninterrupted duration as the secured and continuous shut-downs would pave way for speedy execution.
- D. In this regard, the petitioner approached the concerned departments i.e. ERLDC & SLDCs of ER for availing the requisite shutdowns, the requests were mostly accorded by ERLDC, however, the consent from SLDCs of ER were denied repeatedly owing to various system/ grid/ availability / load constraints and other related factors as detailed in the table below:

S. No.	S/D applied		S/D status	Remarks
1	07.04.2023	14.04.2023	SD required for Erection & Bus stringing works of ICT <i>{Approved by ERLDC.</i> <u>Consent denied by SLDC-Ranchi}</u>	ERLDC: Approved S/D extract enclosed. (enclosed as 1(A)) SLDC: Denied stating “State system at all time high. Load at Ranchi all time high, so redundancy is required. Hence, S/D may be deferred till peak summer season”. (email enclosed as 1(B))
2	18.04.2023	18.04.2023	SD required for Erection & Bus stringing works of ICT <i>{Approved by ERLDC.</i> <u>Consent denied by SLDC-Ranchi}</u>	ERLDC: Approved S/D extract enclosed. (enclosed as 2(A)) SLDC: Denied stating “State system at all time high. Load at Ranchi all time high, so redundancy is required. Hence, S/D may be deferred till peak summer season. (emails enclosed as 2(B))



	<ul style="list-style-type: none"> No further S/D applied for month of April'2024 based on feedback of system requirements from SDLC & ERLDC as stated above. 			
3	08.05.2023	10.05.2023	SD required for Erection & Bus stringing works of ICT <i>{Approved by ERLDC, Consented by SLDCs}</i>	ERLDC: Approved S/D extract enclosed. (enclosed as 3(A)) Email to RTMAC- ER: (emails describing works under process upon S/D approval and return of S/D enclosed as 3(B)) Remark: Delay of 30 days (Initially applied for 07.04.2023-14.04.2023, could be availed from 08.05.2023-10.5.2023)
4	12.05.2023	13.05.2023	Bus bar stability testing and protection checking of ICT-3 (for 400kV Bus I&II and 220kV Bus I & II) <i>{Approved by ERLDC for 12.05.2013 only.</i> <i>Consent denied by SLDC-Ranchi}</i>	ERLDC: Approved S/D for 12.05.2023 only extract enclosed. (enclosed as 4(A)) SLDC: Denied stating "Summer temperature very high and demand also very high at Ranchi, hence, S/D may be deferred". Remark: POWERGID requested again mentioning that S/D will facilitate this new 500 MVA ICT commissioning which shall help in meeting peak load demand. (emails enclosed as 4(B))
5	17.05.2023	20.05.2023	Bus bar stability testing and protection checking of ICT-3 (for 400kV Bus II and 220kV Bus I & II) <i>{Approved by ERLDC, Consent by SLDC-Ranchi only for 18.05.2023, denied for other dates}</i>	ERLDC: Approved S/D extract enclosed. (enclosed as 5(A)) SLDC: Consented for 01 day only i.e. 18.05.2023. But, denied for 17.05.2023 & 19.05.2023-20.05.2023. Stating "S/D may be deferred in view of continuous Load shedding & public agitation in Ranchi complex" (emails enclosed as 5(B)) Remark: Only partial work corresponding to 400KV Bus-II completed.



6	21.05.2023	21.05.2023	<p>Bus bar stability testing and protection checking of ICT-3 (for 220kV Bus I & II)</p> <p><i>{not applied in ERLDC.</i></p> <p><u>Requested directly for Consent to SLDC-Ranchi}</u></p>	<p>ERLDC: Not applied.</p> <p>Requested directly to SLDC -Ranchi for S/D of 21.05.2023 in lieu of decline of 19/20.05.2023 S/D consent.</p> <p>(email enclosed as 6(A))</p> <p>SLDC:Denied stating “Coal shortage at Inland Power’s Thermal Plant feeding power to Ranchi likely to lead in loss of power generation. Hence, S/D not possible and be deferred”.</p> <p>(emails enclosed as 6(B))</p>
7	24.05.2023	25.05.2023	<p>Bus bar stability testing and protection checking of ICT-3 (for 220kV Bus I & II)</p> <p><u>{Not given consideration due to VIP movement in OCC/ERLDC}</u></p>	<p>S/D requested not considered for approval in OCC/ERLDC in view of visit of Hon’ble President of India from 24.05.23 to 26.05.23 in Ranchi city.</p> <p>Hence, approval not sought further for these dates.</p> <p>(Newspaper clipping enclosed as 7)</p>
8	27.05.2023	27.05.2023	<p>Bus bar stability testing and protection checking of ICT-3 (for 220kV Bus I & II)</p> <p><i>{Approved by ERLDC.</i></p> <p><u>Consented by SLDCs}</u></p>	<p>ERLDC: Approved S/D extract enclosed. (enclosed as 8(A))</p> <p>Email to RTMAC- ER: (emails enclosed as 8(B))</p> <p>Remark: Delay of 14 days</p> <p>(Initially applied for 12.05.2023-13.05.2023, could be availed from 27.05.2023)</p>
<p>• Total delay claimed against Shutdown delay is 44 days as per Sl. Nos 03 & 08 above.</p> <p>The relevant documents/ reports & emails are enclosed in sequence under the Encl-3.</p>				



E. It is submitted that the Hon'ble Commission may appreciate that the petitioner kept on knocking on the doors of ERLDC & SLDCs, however, the shutdown could not be availed, in the desired manner, even after approval of same in the various OCCs & approval through ERLDC. Furthermore, the approval of shutdown came with considerable delay, and for staggered dates hving various riders attached viz. stringent returning conditions, which hampering the pace of the progress of the project and the same was beyond the control of Petitioner.

F. It is prayed before the Hon'ble Central Commission to kindly condone the aforementioned delay in completion of subject assets as the said delay was beyond the control of POWERGRID and were "uncontrollable" in nature.

As provided in Regulation 22(2) of the Tariff Regulations 2019 for "*uncontrollable factors*" as under:

"22. Controllable and Uncontrollable factors: *The following shall be considered as controllable and uncontrollable factors for deciding time overrun, cost escalation, IDC and IEDC of the new projects:*

.....

(2) The "uncontrollable factors" shall include but shall not be limited to the following:

- a. *Force Majeure events*;*
- b. *Change in Law; and*
- c. *Land acquisition except where the delay is attributable to the generating company or the transmission licensee."*

**Natural Force Majeure Events (a) Act of God, including, but not limited to drought, fire and explosion (to the extent originating from a source external to the Site), earthquake, volcanic eruption, landslide, flood, cyclone, typhoon, tornado, or exceptionally adverse weather conditions which are in excess of the statistical measures for the last hundred (100) years;"*

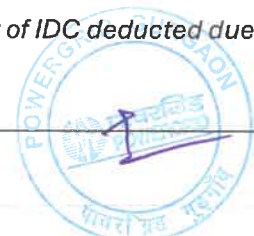


14. Based on Audited cost certificate dated 09.01.2025 (**Encl-4A**), the details of capital cost as under:

₹ in Lakhs								
Asset No	Apportioned approved cost as per FR	Capital cost as on COD	Additional Capitalization (2019-24)					Capital Cost as on 31.03.2024 *
			19-20	20-21	21-22	22-23	23-24	
I	3210.00	1975.50	-	-	-	-	668.37	2643.87
<p>Remarks, if any: -</p> <p>* Cost depicted in above table upto 31.03.2024, however, total cost as per Audited certificates may be higher due to inclusion of proposed add-cap for tariff period 2024-29.</p>								

15. The capital cost being claimed, for tariff period 2019-24, alongwith comparison with admitted / approved cost as per Hon'ble Commission order dated 01.11.2024 in petition no. 351/TT/2023 is hereunder:

Asset-I								
₹ in Lakhs								
Asset No	Apportioned approved cost as per FR	Capital cost as on 31.03.2019	Additional Capitalization (2019-24)					Capital Cost as on 31.03.2024
			19-20	20-21	21-22	22-23	23-24	
As approved vide CERC order no. 351/TT/2023 dated 01.11.2024 (A)								
I	3210.00	1900.81*	-	-	-	-	385.69	2286.50
As claimed in instant petition (B)								
I	3210.00	1957.79**	-	-	-	-	686.08	2643.87
Variation (B-A)								
I	-	56.98	-	-	-	-	300.39	357.37
Remarks, if any: -								
(i) increase in claim of capital cost as on COD owing to adjustment of IDC deducted due to time overrun with IDC discharged after COD. (refer computation table at para 18)								



Cost Variation justification:

It is submitted that the Add - Cap approved by the Hon'ble Commission vide order dated 01.11.2024 in petition no. 351/TT/2023 were based on projections.

In this regard, it may be noted that while projecting the estimated add cap, contracts were not closed and hence, liabilities could not be finalized. However, in the instant true up petition, add cap is being claimed on the basis of actual payments made to the contractor after receipt of invoices from the contractor and incorporating the amendments till the end of tariff block 2019-24. Thus, the primary reason for variation in actual ACE w.r.t approved ACE is that add cap claimed is based on actual payments made to the vendor after receipt of final invoices and incorporating the amendments.

Further, it is submitted that the additional capitalization claimed for the instant asset is within the original scope of work and higher than the estimated add cap as submitted earlier. The Liability flow statement for instant Asset is enclosed at **Encl-4C**

TARIFF BLOCK 2024-29:

16. The capital cost claimed for tariff block 2024-29 for the instant asset is as hereunder:

₹ in Lakhs								
Asset No	Apportioned approved cost as per FR	Capital cost considered as on 31.03.2024	Additional Capitalization (2024-29)					Capital Cost considered as on 31.03.2029
			24-25	25-26	26-27	27-28	28-29	
I	3210.00	2643.87	497.38	50.00	0.00	0.00	0.00	3191.25
Remarks, if any: - Add-cap claimed within cut-off date (30.06.2026)								

ADDITIONAL CAPITALIZATION DETAILS:

17. The additional capitalization details are as hereunder:

The cut-off date(s) for the instant Asset is as tabulated below:

Asset No.	DOCO date	Cutoff date
Asset-I	01.06.2023	30.06.2026



The Additional capitalization is being claimed as per following mentioned relevant Regulation(s):

ADD-CAP FOR TARIFF BLOCK 2019-24:

₹ in Lakhs				
Asset-I				
Additional Capitalization Claimed (2019-24)				
2019-20	2020-21	2021-22	2022-23	2023-24
-	-	-	-	668.37*
*includes IDC discharge after COD				
Applicable regulation				
-	-	-	-	24(1)(a)

ADD-CAP FOR TARIFF BLOCK 2024-29:

₹ in Lakhs				
Asset-I				
Additional Capitalization Claimed (2024-29)				
2024-25	2025-26	2026-27	2027-28	2028-29
497.38	50.00	0.00	0.00	0.00
Applicable regulation				
24(1)(a) & 24(1)(b)	24(1)(a)	-	-	-

It is submitted that the additional capitalization claimed for the Asset is within the original scope of the work.

It is re-iterated that the liability flow statement having Package/ Contractor wise detail is enclosed at **Encl-4C**.



18. The cost details as worked out for the purpose of computation of Truing-Up tariff for period 2019-24 and Transmission tariff for the period 2024-29 for the instant asset is detailed hereunder as:

Asset-I					
					₹ in Lakhs
Expenditure	Land, B & CW and Batteries	TL	Sub-station	Comm. System excl. OPGW & IT Equip incl. Software	Total
Cost upto COD (01.06.2023) As per Audited Certificate	0.00	0.00	1958.47	17.03	1975.50
Less: Accrual IDC discharged after COD	0.00	0.00	17.56	0.15	17.71
Less: IDC due to time overrun not-condoned	Not considered for adjustment *				
Less: IEDC due to time overrun not-condoned					
Expenditure considered upto COD	0.00	0.00	1940.91	16.88	1957.79
Expenditure for FY 2023-24 (As per auditor certificate)	0.00	0.00	658.45	9.92	668.37
Add: Accrual IDC discharged in FY 2023-24	0.00	0.00	17.56	0.15	17.71
Expenditure considered for FY 2023-24	0.00	0.00	676.01	10.07	686.08
Total Completion Cost considered upto 31.03.2024	0.00	0.00	2616.92	26.95	2643.87
Est. Expenditure for 2024-25 (As per auditor certificate)	20.00	0.00	473.46	3.92	497.38
Est. Expenditure for 2025-26 (As per auditor certificate)	0.00	0.00	50.00	0.00	50.00
Est. Expenditure for 2026-29 (As per auditor certificate)	0.00	0.00	0.00	0.00	0.00
Total Completion Cost considered upto 31.03.2029	20.00	0.00	3140.38	30.87	3191.25
Total completion cost (As per Audited Certificate)	20.00	0.00	3140.38	30.87	3191.25
*Remarks: <ul style="list-style-type: none"> The Hon'ble Commission vide order dated 01.11.2024 in 351/TT/2023 did not condone the entire time overrun of 106 days. The Hon'ble Commission further provided liberty to the petitioner to resubmit the delay owing to Shutdown (i.e. 44 days out of total delay of 106 days) alongwith documentary proof(s), which is now submitted vide instant truing-up petition. 					

- Further, in the said tariff order no. 351/TT/2023, the IDC & IEDC had been deducted by the Hon'ble Commission for the entire period of time overrun i.e. 106 days and no bifurcation is available in the tariff order regarding re-claimable IDC & IEDC against the 44 days of delay qua shutdown.
- Thus, the total IDC & IEDC disallowed due to entire time overrun of 106 days, is being considered in the computation of capital cost upto DOCO through the claim is being re-submitted for 44 days of time overrun only.

COD:

19. The instant Asset-I is a single composite asset with COD approved by the Hon'ble Commission as 01.06.2023.

TRANSMISSION TARIFF:

20. **Transmission tariff:**

The 2019-2024 truing up exercise is to be done at the time of filing tariff petition for next block, i.e. 2024-29 period as per regulation 13 of Tariff Regulation 2019-24.

Regulation 13 of Tariff Regulation 2019-24:

Quote

"The Commission shall carry out truing up exercise for the period 2019-24 along with the tariff petition filed for the next tariff period, for the following:"

Unquote

That the Petitioner is required to adjust the yearly impact of MAT as per regulation 31 (3) of the tariff Regulation 2019-24 period dated 07.03.2019 in the truing up petition for 2019-24 tariff block.

Regulation 31 (3) of the tariff Regulation 2019-24:

Quote

The generating company or the transmission licensee, as the case may be, shall true up the grossed up rate of return on equity at the end of every financial year based on actual tax paid together with any additional tax demand including interest thereon, duly adjusted for any refund of tax including interest received from the income tax authorities pertaining to the tariff period 2019-24 on actual gross income of any financial year.



However, penalty, if any, arising on account of delay in deposit or short deposit of tax amount shall not be claimed by the generating company or the transmission licensee, as the case may be. Any under-recovery or over-recovery of grossed up rate on return on equity after truing up, shall be recovered or refunded to beneficiaries or the long term customers, as the case may be, on year to year basis

Unquote

It is submitted that the Income Tax assessment of the Petitioner has been completed and Assessment Orders have been issued by the Income Tax Department for FY 2019-20 and 2020-21; and that the Income Tax returns have been filed with the Income Tax Department for FY 2021-22, 2022-23 & 2023-24.

As such, basis of year wise effective tax rate and Grossed up ROE to be trued up accordingly for the block period 2019-24 is summarized as under:

Financial Year	Basis considered	Total Tax & Interest paid (Rs)	Assessed MAT Income under Sec 115 JB (Rs)	Effective Tax percentage	Grossed up ROE (Base rate/(1-t))
2019-20	Assessment Order	24,52,62,76,991	1,40,37,47,53,855	17.472%	18.782%
2020-21	Assessment Order	26,08,93,59,008	1,49,32,09,65,036	17.472%	18.782%
2021-22	Actual Tax paid	31,81,46,40,406	1,82,08,92,88,030	17.472%	18.782%
2022-23	Actual Tax paid	30,42,88,20,993	1,74,15,76,29,306	17.472%	18.782%
2023-24	Actual Tax paid	31,32,12,38,737	1,79,26,53,31,597	17.472%	18.782%

The above Effective Tax percentage shall be applied by the petitioner in arriving out the Grossed-up ROE rate in all cases of truing up petitions to be filed for the period 2019-24. It is submitted that effective rate of tax considered for FY 2019-20 and 2020-21 are based on Assessment Order issued by Income-Tax authorities, for the purpose of grossing up of ROE rate and that the effective rate of tax considered for FY 2021-22, FY 2022-23 and FY 2023-24 are based on the Income-tax returns filed, for the purpose of grossing up of ROE rate of respective years.



The Hon'ble Commission is requested to allow the petitioner to claim the differential tariff on account of the trued-up ROE based on effective tax rate calculated on completion of Income-tax assessment/re-assessment for the F/Y 2019-20, 2020-21, 2021-22, 2022-23 and 2023-24 on receipt of the respective assessment orders, directly from the beneficiaries, on year-to-year basis as provided in the Regulation.

In line with the above Regulation, the tariff for each year of the tariff period 2019-24 has been trued up considering the above effective tax percentage to arrive at Grossed up ROE rate.

While filing Tariff petition for 2019-24 period, the petitioner had prayed for allowing the floating rate of Interest on loan adjustments. As per Hon'ble Commission order dated 29.04.2023 in petition no. 196/TT/2022, it has been stated that the weighted average rate of IoL has been considered on the basis of rate prevailing as on 1.4.2019 and accordingly, the floating rate of interest on actual, applicable from time to time, if any, during 2019-24 tariff shall be considered at the time of true up or next revision of tariff.

Accordingly in the present petition, truing up of transmission tariff for the tariff block 2019-24 is being carried out based on actual additional capitalization during 2019-24 tariff block, change in MAT rate as well as actual floating rate of interest during 2019-24.

21. The trued up annual transmission tariff for the tariff period 2019-24 is summarized as below:

Truing-Up Tariff For 2019-24 Block						
						₹ in Lakhs
Asset No	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Asset-I	Tariff (approved vide CERC order 351/TT/2023)	-	-	-	-	518.82
	True-Up tariff (claimed vide instant petition)	-	-	-	-	547.74

Tariff Filing Formats along with the other relevant information and supporting documentation are attached hereto as **Encl-5**.



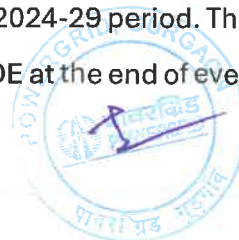
That in the subject petition, details are provided in various Tariff Forms with respect to Capital Cost as per books / Gross Block amount as per Books. It is submitted that the petitioner has opted for deemed cost exemption as per Para D7 AA of Ind AS 101 'First-time Adoption of Indian Accounting Standards'. Accordingly Carrying value i.e. Gross Block less Accumulated Depreciation is considered as deemed cost as on the date of transition i.e. 1st April 2015. As such, in case of assets commissioned before 01.04.2015, the accumulated depreciation as on 1st April 2015 is added back to the deemed Capital Cost as per books / Gross Block amount as per Books for arriving at the figures to be provided in various Tariff Forms.

22. The tariff for 2024-29 tariff block is summarized below:

Tariff For 2024-29 Block					
					₹ in Lakhs
Asset No	2024-25	2025-26	2026-27	2027-28	2028-29
Asset-I	655.12	697.76	698.85	696.41	695.21

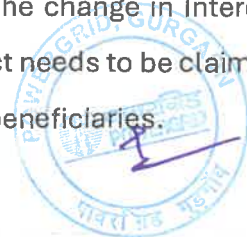
Tariff Filing Formats along with the other relevant information and supporting documentation are attached hereto as **Encl-6**.

23. The asset-I shall complete 12 years of useful life after tariff block 2024-29 and thus depreciation till the life of 12 years has been calculated based on the straight-line method and at rate specified in Appendix-I as per clause 33 (5) of the CERC Tariff regulations 2024. The details have been computed and are provided in Form- 10 A.
24. That, it is submitted that the petitioner is currently liable to pay income tax at MAT rate specified in Income-tax Act, 1961. Therefore, ROE has been calculated @ 18.782% after grossing up the ROE with MAT rate of 17.472% (Base Rate 15% + Surcharge 12% + Cess 4%) based on the formula given at regulation 31 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 for 2024-29 period. That as per clause 31 (3) of the above regulation, the grossed up rate of ROE at the end of every



financial year shall be trued up based on actual tax paid together with any additional tax demand including interest thereon duly adjusted for any refund of tax including interest received from the IT authorities pertaining to the tariff period 2024-29 on actual gross income of any financial year. However, penalty, if any, arising on account of delay in deposit or short deposit of tax amount shall not be claimed by the generating company or the transmission licensee, as the case may be. Any under-recovery or over-recovery of grossed up rate on ROE after truing up shall be recovered or refunded to beneficiaries or the long term customers, as the case may be on year to year basis. It is further submitted that adjustment due to any additional tax demand including interest duly adjusted for any refund of tax including interest received from IT authorities shall be recoverable /adjustable during the tariff period 2024-29 on year to year basis on receipt of Income Tax assessment order.

- 25.** Under CGST Act, 2017 implemented w.e.f. 01.07.2017, the Govt. of India has exempted the charges of transmission of electricity vide notification no. 12/2017 – Central Tax (Rate) dated 28.06.2017 at serial no. 25 under the heading 9969 “Transmission or distribution of electricity by an electric transmission or distribution utility” by giving applicable GST rate as NIL. Hence, the Transmission Charges as indicated at para 21 & 22 above is exclusive of GST. Further, if GST is levied at any rate and at any point of time in future on Charges of Transmission of Electricity, the same shall be borne and additionally paid by the respondent(s) to the petitioner and the same shall be charged & billed separately by the petitioner. Further additional taxes, if any, are to be paid by the petitioner on account of demand from Govt. / Statutory authorities, the same may be allowed to be recovered from the beneficiaries.
- 26.** In the tariff calculation for 2019-24 period, Interest on Loan has been calculated on the basis of actual rate of interest of various loans deployed for each year. In the tariff calculation for 2024-29 period, Interest on Loan has been calculated on the basis of interest rates prevailing as on 01.04.2024 for respective loans. The change in Interest rate due to floating rate of interest applicable, if any, for the project needs to be claimed / adjusted over the tariff block of 05 years directly from / with the beneficiaries.



For the purpose of the supporting documents for rate of interest, a compendium of floating rate of interest of various loans during the tariff period 2019-24 was submitted in the petition vide Diary NO:677/2024.

These documents/details are also available on our website at the following link:

https://apps.powergrid.in/cerc/docs/Western%20Region/2024/09/Khargone%20TPS/Scanned_petition_Khargone_TPS.pdf.

27. The transmission charges at para 21 & 22 above is inclusive of O&M expenses derived for the subject asset based on the norms for O&M expenditure for Transmission System as specified under regulation 36 (3) (a) of the tariff regulations for block 2024-29.
28. That as per Regulation 36(3)(d) of CERC Tariff Regulations, 2024, the Security Expenses, Insurance and Capital Spares more than Rs. 10 Lakh for transmission system shall be allowed separately after prudence check.

SECURITY EXPANSES:

In this regard, it is submitted that a separate petition shall be filed for truing up of security expenses from 01.04.2019 to 31.03.2024 under the Regulation 35 (3) (C) of Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2019 and recovery of security expenses from 01.04.2024 to 31.03.2029 under the Regulation 36 (3) (d) of Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2024.

INSURANCE:

In this regard, it is submitted that a separate petition shall be filed before Hon'ble Commission for claiming the overall Insurance Expenses and consequential Interest on Working Capital (IOWC) on the same considering actual Insurance Expense incurred by the Petitioner for the F/Y 2023-24 after escalating the same at 5.25% per annum for arriving at the Estimated Insurance Expense for the year 2024-25, 2025-26, 2026-27, 2027-28 and 2028-29.



CAPITAL SPARE:

With regard to Capital Spares, the Petitioner has filed a separate Petition bearing No 45/MP/2024 for claiming the capital spares under Tariff Regulations 2019. Further, as per Tariff Regulations, 2024, Capital spares consumed and consequential Interest on Working Capital (IOWC) on the same shall be claimed by the Petitioner as per actual through a separate petition.

Accordingly, these expenses are not claimed in the subject petition through the relevant Tariff Form and shall be claimed separately.

29. That as per Regulation 99 of CERC Tariff Regulations, 2024, the fees and charges of Central Transmission Utility of India Limited ('CTUIL') shall be allowed separately by the Commission through a separate regulation. Further, it provides that that until such regulation is issued by the Commission, the expenses of CTUIL shall be borne by POWERGRID which shall be recovered by POWERGRID as additional O&M expenses through a separate petition.

Accordingly, the expenses of CTUIL borne by POWERGRID shall be claimed through a separate petition.

30. The application filing fee, expenses incurred on publication of Notices in Newspapers and License fee may be allowed to be recovered separately from the respondents in terms of Regulation 94(1) of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024. The fees and charges to be paid by the petitioner as ISTS licensee (deemed ISTS licensee) under CERC (Fees and Charges of RLDC and other matters) Regulations as amended from time to time shall also be recoverable from the DICs as provided under clause 94 (3) of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024.

31. The Transmission Charges and other related Charges indicated at para 21 & 22 above, is exclusive of incentive, late payment surcharge, FERV, any statutory taxes, levies, duties, cess, filing fees, license fee, RLDC fees and charges, capital spares, security expenses, insurance expenses or any other kind of imposition (s) and/ or other surcharges etc.



whatsoever imposed / charged by any Government (Central/State) and / or any other local bodies/authorities/regulatory authorities in relation to transmission of electricity, environmental protection, and/or in respect of any of its installation associated with the Transmission System and the same shall be borne and additionally paid by the respondent(s) to the petitioner and the same shall be charged, billed separately by the petitioner on the respondents.

SHARING OF TRANSMISSION CHARGES:

32. Transmission Tariff for 2019-24 as per above, shall be recovered as per Regulation 57 of CERC Tariff Regulations, 2019 and CERC Sharing Regulations, in vogue.
Transmission Tariff for 2024-29 as per above, shall be recovered as per Regulation 78 of CERC Tariff Regulations, 2024 and CERC Sharing Regulations, in vogue.
33. In the circumstances mentioned above it will be just and proper that the transmission tariff for the asset covered under this petition be allowed to be charged from the beneficiaries on the basis set out above. **The Petitioner submits that Encl.-1 to Encl.-7 may please be treated as integral part of this petition.**

PRAYERS:

34. **PRAYERS:**

It is respectfully prayed that the Hon'ble Commission may be pleased to

- a) Approve the trued-up Transmission Tariff for 2019-24 block and transmission tariff for 2024-29 block for the asset covered under this petition, as per para 21 & 22 above.
- b) Approve the time overrun of 44 days qua shutdown as claimed in the instant petition.
- c) Admit & approve the Estimated cost as per Investment Approval of the subject project.



- d) Allow the petitioner to recover the shortfall or refund the excess Annual Fixed Charges, on account of Return on Equity due to change in applicable Minimum Alternate/Corporate Income Tax rate as per the Income Tax Act, 1961 (as amended from time to time) of the respective financial year directly without making any application before the Commission as provided in Tariff Regulation 2019 and Tariff regulations 2024 as per para 21 & 22 above for respective block.
- e) Approve the reimbursement of expenditure by the beneficiaries towards petition filing fee, and expenditure on publishing of notices in newspapers in terms of Regulation 94 (1) Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024, and other expenditure (if any) in relation to the filing of petition.
- f) Allow the petitioner to bill and recover Licensee fee and RLDC fees & charges, separately from the respondents in terms of Regulation 94 (3) and (4) Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024.
- g) Allow the petitioner to bill and adjust impact on Interest on Loan due to change in Interest rate on account of floating rate of interest applicable during 2024-29 period, if any, from the respondents.
- h) Allow the petitioner to file a separate petition before Hon'ble Commission for claiming the overall security expenses and consequential IOWC on that security expenses as mentioned at para 28 above.
- i) Allow the petitioner to file a separate petition before Hon'ble Commission for claiming the overall insurance expenses and consequential IOWC on that insurance expenses as mentioned at para 28 above.
- j) Allow the petitioner to file a separate petition before Hon'ble Commission for claiming the overall capital spares at the end of tariff block as per actual as mentioned at Para 28 above.



- k) Allow the petitioner to claim expenses of CTUIL borne by POWERGRID through a separate petition as mentioned at para 29 above.
- l) Allow the Petitioner to bill and recover GST on Transmission Charges separately from the respondents, if GST on transmission is levied at any rate in future. Further, any taxes including GST and duties including cess etc. imposed by any statutory/Govt./municipal authorities shall be allowed to be recovered from the beneficiaries.

and pass such other relief as Hon'ble Commission deems fit and appropriate under the circumstances of the case and in the interest of justice

GURGAON
DATED: 05.04.2025

FILED BY
POWER GRID CORPORATION OF INDIA LTD.

REPRESENTED BY


(Mohd. Mohsin)

Chief General Manager (Commercial & RC)



BEFORE
THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

PETITION NO.:

IN THE MATTER OF:

Subject matter: Petition for truing up of Transmission tariff for 2019-24 and determination of transmission tariff for 2024-29 tariff block **for Asset under Eastern Region Expansion Scheme – XXVI (ERES-XXVI) in Eastern Region** under Section 62 read with Section 79 (1) (d) of Electricity Act, 2003 and under the Regulation 15 (1) (a) and Regulation 23 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 read with Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2019 and Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2024.

Power Grid Corporation of India Ltd.

---PETITIONER

Registered office: B-9, Qutab Institutional Area,
Katwaria Sarai, New Delhi. - 110 016.

Corporate Centre: 'SAUDAMINI', Plot No-2,
Sector-29, Gurgaon-122 001, Haryana.

Bihar State Power (Holding) Company Ltd.

---RESPONDENT

Vidyut Bhavan, Bailey Road,
Patna – 800 001, Bihar.

Represented by its Chairman

And others

AFFIDAVIT VERIFYING THE PETITION

I, Mohd. Mohsin, S/O Late Shri Akhtar Hasan, working as Chief General Manager (Commercial & RC) in the Powergrid Corporation of India Ltd., having its registered Office at B-9, Institutional Area, Katwaria Sarai, New Delhi-110 016, do hereby solemnly affirm and state as under: -



1. That the deponent is the Chief General Manager of Petitioner and is well conversant with the facts and the circumstances of the case and therefore competent to swear this affidavit.
2. That the accompanying Petition under Section 62 of the Electricity Act, 2003, has been filed by my authorised representative/nominated counsel under my instruction and the contents of the same are true and correct to the best of my knowledge and belief.
3. That the contents of Para 01 to 34 of the facts as mentioned in the Petition are true and correct based on the my personal knowledge, belief and records maintained in the office and the contents of Para 01 to 34 of the Petition are believed to be true on the basis of the legal advice received.
4. That the annexures annexed to the Petition are correct and true copies of the respective originals.
5. That the Deponent has not filed any other Petition or Appeal before any other forum or court of law with respect to the subject matter of the dispute

VERIFICATION

Solemnly affirmed at Gurgaon on this 25th day of **Apr'2025** that the contents of the above affidavit are true to my knowledge and belief and no part of it is false and nothing material has been concealed there from.



ATTESTED

MAHENDER S. PUNIA
ADVOCATE & NOTARY
Distt. Gurugram (Haryana) India



Ref: CC/Commercial/2024

Date: 28.08.2024

LETTER OF AUTHORIZATION

In reference to the POWER OF ATTORNEY dated 14.08.2024 and in supersession of letter of authorization dated 13.12.2022 I hereby authorize following executives to sign Petitions, Appeals, Vakalatnama, Affidavits, etc. and to represent POWERGRID before various forums/ courts / tribunals i.e Central Electricity Regulatory Commission, State Electricity Regulatory Commission, Appellate Tribunal for Electricity, High courts and Supreme Court etc. :

1. Sh. Mohd. Mohsin, Chief General Manager
2. Sh. V. C. Sekhar, Senior General Manager
3. Sh. Zafrul Hasan, General Manager

Further, following executives are authorised to represent cases before Central Electricity Regulatory Commission and Appellate Tribunal for Electricity

1. Sh. Angaru Naresh Kumar, Deputy General Manager
2. Smt. Suchitra Gautam, Deputy General Manager
3. Sh. Vishal Sagar, Deputy General Manager
4. Sh. G. Vijay, Deputy General Manager
5. Sh. Vivek Kumar Singh, Deputy General Manager
6. Sh. Amit Kumar Chachan, Deputy General Manager
7. Smt. Supriya Singh, Chief Manager (Law)
8. Sh. Arjun Malhotra, Manager (Law)
9. Smt. Tanushree Rao, Deputy Manager (Law)



28/08/2024

Dilip Nagesh Rozekar
Executive Director (Commercial & RC)

दिलीप रोजेकर / DILIPROZEKAR

Executive Director (Commercial & Regulatory Cell)
पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड
Power Grid Corporation of India Ltd.
(भारत सरकार का उद्यम) / (A Govt. of India Enterprise)
Plot No.-2, Sector-29, Gurgaon- 122 001 (Haryana)



**Central Electricity Regulatory Commission
New Delhi**

Petition No. 351/TT/2023

Coram:

**Shri Jishnu Barua, Chairperson
Shri Ramesh Babu V., Member**

Date of Order: 01.11.2024

In the matter of:

Approval under Regulation 86 of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 1999 and the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for the determination of transmission tariff from the COD to 31.3.2024 for transmission asset, namely, 1x500 MVA , 400/220 kV 3rd ICT along with its associated 400 kV and 220 kV bays at 400/220 kV Ranchi Sub-station under "Eastern Region Expansion Scheme - XXVI" in the Eastern Region.

And in the matter of:

**Power Grid Corporation of India Limited,
"Saudamini", Plot No. 2,
Sector 29, Gurgaon-122001 (Haryana)**

...Petitioner

Vs.

1. **Bihar State Power (Holding) Company Limited,
Vidyut Bhawan, Bailey Road, Patna-800001**
2. **West Bengal State Electricity Distribution Company Limited,
Bidyut Bhawan, Bidhan Nagar, Block DJ, Sector-II,
Salt Lake City, Calcutta-700091**
3. **Grid Corporation of Orissa Limited,
Shahid Nagar, Bhubaneswar-751007**
4. **Damodar Valley Corporation,
DVC Tower, Maniktala, Civic Centre,
VIP Road, Calcutta-700054**
5. **Power Department,
Government of Sikkim, Gangtok-737101**
6. **Jharkhand Bijli Vitran Nigam Limited,
Engineering Building, H.E.C., Dhurwa
Ranchi-834004**



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ATTESTED TRUE COPY
Authorised Signatory
Power Grid Corporation of India Ltd.
Plot No.-2, Sector-29, Gurgaon-122-001 (Haryana)

...Respondents



Parties Present : Shri Mohd. Mohsin, PGCIL
Shri Zafrul Hasan, PGCIL
Shri Amit Yadav, PGCIL

ORDER

The Petitioner, Power Grid Corporation of India Limited, has filed the instant Petition for the determination of transmission tariff under the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 (hereinafter referred to as "the 2019 Tariff Regulations") from the date of commercial operation (COD) to 31.3.2024 for the transmission asset, namely, 1x500 MVA, 400/220 kV 3rd ICT along with its associated 400 kV and 220 kV bays at 400/220 kV Ranchi Sub-station (hereinafter referred to as "the transmission asset") under "Eastern Region Expansion Scheme - XXVI" in the Eastern Region (hereinafter referred to as "the transmission scheme").

2. The Petitioner has made the following prayers in the instant Petition:

*"1) Approve the Transmission Tariff for the tariff block 2019-24 block for the asset covered under this petition, as per **para –8.3** above*

2) Admit the capital cost as claimed in the Petition and approve the Additional Capitalisation incurred/projected to be incurred.

3) Approve the COD for the subject Asset-I and allow full tariff as claimed under instant petition.

4) Allow the petitioner to recover the shortfall or refund the excess Annual Fixed Charges, on account of Return on Equity due to change in applicable Minimum Alternate/Corporate Income Tax rate as per the Income Tax Act, 1961 (as amended from time to time) of the respective financial year directly without making any application before the Commission as provided in Tariff Regulation 2019 as per para 8.3 above for respective block.

5) Approve the reimbursement of expenditure by the beneficiaries towards petition filing fee, and expenditure on publishing of notices in newspapers in terms of Regulation 70 (1) Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019, and other expenditure (if any) in relation to the filing of the petition.

6) Allow the petitioner to bill and recover Licensee fees and RLDC fees and charges, separately from the respondents in terms of Regulation 70 (3) and (4) Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019.



7) Allow the petitioner to bill and adjust the impact on Interest on Loan due to change in Interest rate on account of floating rate of interest applicable during 2019-24 period, if any, from the beneficiaries.

8) Allow the Petitioner to bill and recover GST on Transmission Charges separately from the respondents, if GST on transmission is levied at any rate in future. Further, any taxes including GST and duties including cess etc. imposed by any statutory/Govt./municipal authorities shall be allowed to be recovered from the beneficiaries.

9) Allow interim tariff in accordance with Regulation 10(3) of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for the purpose of inclusion in the PoC charges.

and pass such other relief as Hon'ble Commission deems fit and appropriate under the circumstances of the case and in the interest of justice."

Background

3. The brief facts of the case submitted by the Petitioner are as follows:

a) The Petitioner was entrusted with implementing work covered under "Eastern Region Expansion Scheme—XXVI." The Petitioner's Competent Authority accorded the Investment Approval (IA) for the transmission scheme vide Memorandum No. C/CP/PA2122-10-0AW-IA028 dated 25.1.2022 for an estimated cost of ₹3210 lakh, including an Interest During Construction (IDC) of ₹92 lakh based on the September 2021 price level.

b) The scope of work covered under the transmission scheme is as follows:

Broad Scope:

- 1X500 MVA, 400/220 kV 3rd ICT along with associated bays at Ranchi (PG) Sub-station.\s

400 kV

- Transformer bays: 1 No.
- 500 MVA, 400/220 kV ICT: 1 No.

220 kV

- Transformer bays: 1 No.

c) The transmission scheme was initially discussed in the 2nd Eastern Region Power Committee (Transmission Planning) (ERPCTP)



meeting on 30.9.2020. The following was discussed in the said

meeting:

" 220 kV Ranchi (PGCIL) S/s is having the transformation capacity of 630 MVA (2x315MVA ICT). From the load pattern of both ICTs, it has been observed that the power flow through both the transformers exceeds more than 400-450 MW during peak hours, thereby not meeting the N-1 reliability criteria. Further, from system studies it was observed that with the delay in implementation of PVUNL and its associated system, the ICTs at Ranchi gets loaded to about 310 MVA per ICT in the base case. In view of above, he proposed to augment the transformation capacity at Ranchi S/s with additional 400/220 kV, 500 MVA ICT along with associated bays in ISTS..."

- d) The transmission scheme was ratified and approved in the 3rd ERPCTP meeting held on 9.2.2021. The relevant extract is as follows:

".....ERLDC stated that considering the load growth in the Jharkhand capital city and incoming additional 220 kV connectivity from Mejia-A and Ramgarh of DVC to Ranchi, one additional 400/220 kV ICT is required at Ranchi..."

- e) As per the Ministry of Power (MoP) order dated 28.10.2021, the ISTS projects costing up to ₹10000 lakh will be approved by the Central Transmission Utility (now Central Transmission Utility of India Limited [CTUIL]) along with the mode on implementation under intimation to the National Committee on Transmission (NCT) and MoP. Also, no prior consent of the Regional Power Committees (RPCs) shall be required for the project proposals costing up to ₹50000 lakh. In line with the MoP order dated 28.10.2021, CTUIL, vide its Office Memorandum (OM) dated 16.11.2021, approved the implementation of the transmission scheme under the Regulated Tariff Mechanism (RTM) mode with an implementation schedule of 15 months from the date of its OM. Further, the scope of works stated by the CTUIL vide its OM dated 16.11.2021 was noted in the agenda of the 7th NCT meeting.

4. We have considered the submissions of the Petitioner. It is noted that the estimated cost considered by the CTUIL while approving the scheme is ₹2700 lakh, and IA approved



by the Petitioner's Board is ₹3210 lakh. Thus, there is a variation of about ₹510 lakh (18.88%) compared with the estimated cost of CTUIL. We, accordingly, direct the Petitioner to submit the reasons for cost variation compared to the CTUIL estimated cost at the time of truing-up of the 2019-24 tariff period.

5. The Commission observes that a number of transmission schemes with estimated costs up to Rs. 100 Crore are being approved by the CTUIL to be implemented through the RTM route. These transmission schemes are being awarded to the existing Transmission Licensees (POWERGRID as well as other TBCB Licensees) along with the estimated cost and implementation timeframe. After the award, the licensees obtain investment approval from their board. It is desirable that the variation in the investment approval cost as compared to the estimated cost by CTUIL, which should be a minimum. In the instant case there is a variation of 18.8% in the IA cost of PGCIL as compared to the cost estimated by CTUIL. This cost variation may be due to some additional scope of work and/or on account of the estimated cost of the items under the scope of work.

6. Accordingly, the commission directs CTUIL to put in place a procedure in consultation with NCT for ratification/approval of the schemes in case of the following (1) variation of IA cost beyond, 10% of the CTUIL's estimated cost (2) Where the IA cost arrived at by the implementing agency exceeds 100 cr for a transmission scheme awarded by CTUIL.

7. The entire scope of the transmission scheme has been completed and covered in the instant Petition.

8. The details of the scheduled date of commercial operation (SCOD), COD, and the time over-run of the transmission asset are as follows:



Name of Asset	SCOD as per IA	COD	Delay
1x500 MVA , 400/220 kV 3 rd ICT along with its associated 400 kV and 220 kV bays at 400/220 kV Ranchi Sub-station	15.2.2023	1.6.2023	106 days

9. The Respondents, mainly the beneficiaries of the Eastern Region, are Distribution Licensees and Power Departments procuring transmission service from the Petitioner.

10. The Petitioner has served a copy of the Petition on the Respondents, and notice regarding the filing of this Petition has also been published in the newspapers in accordance with Section 64 of the Electricity Act, 2003. No comments or suggestions have been received from the general public in response to the aforesaid notice. Respondent No. 1, Bihar State Power Holding Company Limited (BSPHCL), vide affidavit dated 1.12.2023, has filed its reply and has raised the issues of time over-run, cost over-run, and on the components of annual fixed charges claimed by the Petitioner. The Petitioner has filed its rejoinder to the reply of BSPHCL vide affidavit dated 5.4.2024. The issues raised by BSPHCL and the clarifications given by the Petitioner are considered in the subsequent paragraphs of this order.

11. This order is being issued considering the submissions made by the Petitioner in the Petition dated 17.8.2023 and subsequent affidavits dated 7.5.2024 and 14.5.2024, BSPHCL's reply filed affidavit dated 1.12.2023, and the Petitioner's rejoinder dated 5.4.2024.

12. The final hearing in this matter was held on 16.7.2024, and the order was reserved.

13. Having heard the representatives of the Petitioner and after perusing the material on record, we proceed to dispose of the Petition.

Determination of Annual Fixed Charges For The 2019-24 Tariff Period

14. The Petitioner has claimed the following transmission charges in respect of the transmission asset for the 2019-24 tariff period:



(₹ in lakh)	
Particulars	2019-20 (pro-rata for 305 days)
Depreciation	96.63
Interest on loan	92.18
Return on equity	101.40
Interest on working capital	14.05
O&M expenses	223.54
Total AFC	527.80

15. The Petitioner has claimed the following Interest on Working Capital (IWC) in respect of the transmission asset for the 2019-24 tariff period:

(₹ in lakh)	
Particulars	2019-20 (pro-rata for 305 days)
O&M Expenses	22.35
Maintenance Spares	40.24
Receivables	77.87
Total Working Capital	140.46
Rate of Interest (in %)	12.00
Interest on Working Capital	16.86
Pro rata Interest on Working Capital	14.05

Date of Commercial Operation (COD)

16. The Petitioner has claimed the COD of the transmission asset as 1.6.2023. In support of the COD claimed the Petitioner has furnished a Central Electricity Authority (CEA) Energization Certificate dated 29.5.2023, an Eastern Regional Load Despatch Centre (ERLDC) Charging Certificate dated 14.6.2023, a self-declared COD letter dated 1.6.2023 and the CMD's certificate.

17. Regulation 5 of the 2019 Tariff Regulations provides as follows:

"5. Date of Commercial Operation: (1) *The date of commercial operation of a generating station or unit thereof or a transmission system or element thereof and associated communication system shall be determined in accordance with the provisions of the Grid Code.*

(2) *In case the transmission system or element thereof executed by a transmission licensee is ready for commercial operation but the interconnected generating station or the transmission system of other transmission licensee as per the agreed project implementation schedule is not ready for commercial operation, the transmission licensee may file petition*



before the Commission for approval of the date of commercial operation of such transmission system or element thereof:

Provided that the transmission licensee seeking the approval of the date of commercial operation under this clause shall give prior notice of at least one month, to the generating company or the other transmission licensee and the long term customers of its transmission system, as the case may be, regarding the date of commercial operation:

Provided further that the transmission licensee seeking the approval of the date of commercial operation of the transmission system under this clause shall be required to submit the following documents along with the petition:

- (a) Energisation certificate issued by the Regional Electrical Inspector under Central Electricity Authority;*
- (b) Trial operation certificate issued by the concerned RLDC for charging element with or without electrical load;*
- (c) Implementation Agreement, if any, executed by the parties;*
- (d) Minutes of the coordination meetings or related correspondences regarding the monitoring of the progress of the generating station and transmission systems;*
- (e) Notice issued by the transmission licensee as per the first proviso under this clause and the response;*
- (f) Certificate of the CEO or MD of the company regarding the completion of the transmission system including associated communication system in all respects."*

18. We have considered the Petitioner's submissions and taking into consideration the CEA Energization Certificate dated 29.5.2023, the ERLDC Certificate dated 14.6.2023 certifying the successful completion of the trial run on 31.5.2023, a self-declaration of COD letter dated 1.6.2023 and the CMD's Certificate, the COD of the transmission asset is approved as 1.6.2023.

Capital Cost

19. Regulation 19 of the 2019 Tariff Regulations provides as follows:

"19 Capital Cost: (1) *The Capital cost of the generating station or the transmission system, as the case may be, as determined by the Commission after prudence check in accordance with these regulations shall form the basis for determination of tariff for existing and new projects.*

(2) *The Capital Cost of a new project shall include the following:*

- (a) The expenditure incurred or projected to be incurred up to the date of commercial operation of the project;*
- (b) Interest during construction and financing charges, on the loans (i) being equal to 70% of the funds deployed, in the event of the actual equity in excess of 30% of the funds deployed, by treating the excess equity as normative loan, or (ii) being equal to the actual amount of loan in the event of the actual equity less than 30% of the funds deployed;*
- (c) Any gain or loss on account of foreign exchange risk variation pertaining to the loan amount availed during the construction period;*



- (d) Interest during construction and incidental expenditure during construction as computed in accordance with these regulations;
 - (e) Capitalised Initial Spares subject to the ceiling rates in accordance with these regulations;
 - (f) Expenditure on account of additional capitalization and de-capitalisation determined in accordance with these regulations;
 - (g) Adjustment of revenue due to sale of infirm power in excess of fuel cost prior to the date of commercial operation as specified under Regulation 7 of these regulations;
 - (h) Adjustment of revenue earned by the transmission licensee by using the Asset-before the date of commercial operation;
 - (i) Capital expenditure on account of ash disposal and utilization including handling and transportation facility;
 - (j) Capital expenditure incurred towards railway infrastructure and its augmentation for transportation of coal upto the receiving end of the generating station but does not include the transportation cost and any other appurtenant cost paid to the railway.
 - (k) Capital expenditure on account of biomass handling equipment and facilities, for co-firing;
 - (l) Capital expenditure on account of emission control system necessary to meet the revised emission standards and sewage treatment plant;
 - (m) Expenditure on account of fulfilment of any conditions for obtaining environment clearance for the project;
 - (n) Expenditure on account of change in law and force majeure events; and
 - (o) Capital cost incurred or projected to be incurred by a thermal generating station, on account of implementation of the norms under Perform, Achieve and Trade (PAT) scheme of Government of India shall be considered by the Commission subject to sharing of benefits accrued under the PAT scheme with the beneficiaries.
- (3) The Capital cost of an existing project shall include the following:
- (a) Capital cost admitted by the Commission prior to 1.4.2019 duly trued up by excluding liability, if any, as on 1.4.2019;
 - (b) Additional capitalization and de-capitalization for the respective year of tariff as determined in accordance with these regulations;
 - (c) Capital expenditure on account of ash disposal and utilization including handling and transportation facility;
 - (d) Capital expenditure on account of ash disposal and utilization including handling and transportation facility;
 - (e) Capital expenditure incurred towards railway infrastructure and its augmentation for transportation of coal up to the receiving end of generating station but does not include the transportation cost and any other appurtenant cost paid to the railway; and
 - (f) Capital cost incurred or projected to be incurred by a thermal generating station, on account of implementation of the norms under Perform, Achieve and Trade (PAT) scheme of Government of India shall be considered by the Commission subject to sharing of benefits accrued under the PAT scheme with the beneficiaries.
- (4) The capital cost in case of existing or new hydro generating station shall also include:
- (a) cost of approved rehabilitation and resettlement (R&R) plan of the project in conformity with National R&R Policy and R&R package as approved; and
 - (b) cost of the developer's 10% contribution towards Rajiv Gandhi Grameen Vidyutikaran Yojana (RGGVY) and Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY) project in the affected area.
- (5) The following shall be excluded from the capital cost of the existing and new projects:
- (a) The Asset-forming part of the project, but not in use, as declared in the tariff petition;
 - (b) De-capitalised Asset-after the date of commercial operation on account of replacement or removal on account of obsolescence or shifting from one project to another project:

Provided that in case replacement of transmission Asset-is recommended by Regional Power Committee, such Asset-shall be decapitalised only after its redeployment;



Provided further that unless shifting of an Asset-from one project to another is of permanent nature, there shall be no de-capitalization of the concerned asset.

- (c) In case of hydro generating stations, any expenditure incurred or committed to be incurred by a project developer for getting the project site allotted by the State Government by following a transparent process;*
- (d) Proportionate cost of land of the existing project which is being used for generating power from generating station based on renewable energy; and*
- (e) Any grant received from the Central or State Government or any statutory body or authority for the execution of the project which does not carry any liability of repayment."*

20. The Petitioner has submitted the Auditor's Certificate dated 7.7.2023 and has claimed the following capital cost incurred as on the COD and has projected additional capitalisation to be incurred in respect of the transmission asset as below:

Approved cost as per FR	Admitted cost as on COD	Additional Capitalization				Estimated completion cost	(₹ in lakh)
		2023-24	2024-25	2025-26	2026-27		Estimated completion cost as on 31.3.2024
3210.00	1975.50	385.69	274.23	254.92	300.91	3191.25	2361.19

21. The Petitioner has submitted that the estimated completion cost is ₹3191.25 lakh, and the estimated capital cost as on 31.3.2024 is ₹2361.19 lakh, which is within the approved FR cost of ₹3210 lakh. Hence, there is no cost overrun.

22. The Petitioner has further submitted that the reason for cost variation was mainly due to Price Variation (PV), which was on account of the price difference from the time of approval of the transmission scheme till the award of various contracts which were based on the competitive prices received as per the competitive bidding. The contracts for various packages under the transmission scheme were awarded to the lowest evaluated and responsive bidder and, therefore, the award prices represented the lowest prices offered at the time of bidding of various packages. The cost variation was mainly due to differences in the awarded rate and other associated factors that were beyond the control of the Petitioner. Hence, the Petitioner has prayed before the Commission that marginal cost variation be



allowed in the transmission asset on its merit as the estimated completion cost is within the approved FR cost. (Which transmission asset – the current one or all such cases in future?)

23. BSPHCL, in its reply, has submitted that the cost overrun in the cost is due to the price variation. Therefore, it may be rejected.

24. In response, the Petitioner has submitted that there is no cost overrun with respect to the approved FR cost and that the transmission tariff may be allowed on the estimated completion cost of ₹2361.19 lakh until 31.3.2024.

25. We have considered the submissions of the Petitioner and BSPHCL. Considering that the estimated capital cost of ₹2361.19 lakh and the estimated completion cost of ₹3191.25 lakh up to 31.3.2024 and FY 2026-27, respectively, are less than the FR cost amounting to ₹3210.00 lakh, there is no cost overrun with respect to the transmission asset.

Time over-run

26. The Petitioner has submitted that, as per the IA dated 25.1.2022, the transmission scheme was scheduled to be put into commercial operation by February 2023. Further, since the CTUIL, vide its OM dated 16.11.2021, approved the transmission scheme under the Regulated Tariff Mechanism (RTM) with an implementation schedule of 15 months from the date of its OM, the SCOD of the transmission asset was 15.2.2023. However, the transmission asset was put into commercial operation on 1.6.2023 with a time over-run of 106 days. The detailed reasons for the time over-run submitted by the Petitioner are as follows:

Delay Due to Belated Award of Packages (LOA)

27. The Petitioner has submitted that the works under the transmission scheme were awarded under the substation package on 4.5.2022 and the transformer package on 19.5.2022. With regard to the transmission scheme, the date of approval of CTUIL's OM is 16.11.2021, and the IA is 25.1.2022. The award of works could be made only after four



months (approximately) from the date of the IA, which had a cascading effect on the execution of works leading to the eventual completion of the transmission scheme beyond SCOD, with a delay of 106 days.

Delay due to requisite shutdown approvals

28. The Petitioner has submitted that the transmission asset was required to be commissioned in the existing 400/220 Ranchi (Namkum) Substation. Therefore, it was necessary to obtain multiple shutdowns for terminal and pre-commissioning works. After completion of the erection works associated with the transmission asset, the request for approval of shutdowns was made to Eastern Regional Load Despatch Centre (ERLDC) and Jharkhand Urja Sancharan Nigam Limited (JUSNL) as site works were progressing at the desired pace, and such shutdowns were applied for to carry out the necessary works like erection, bus stringing, and bus-bar stability, etc. The Petitioner has further submitted that it approached the concerned authorities/STUs to avail the requisite shutdowns. However, the requests for requisite shutdowns were denied a few times owing to various system/ grid/ availability constraints. The Petitioner has provided the following details of the shutdowns (SD) that were applied for but not approved:

	Shutdown applied		Shutdown (SD) status	Remark(s)
1	7.4.2023	14.4.2023	SD required for erection and bus stringing for 220 kV side of ICT <i>Denied</i>	Not approved by ERLDC and JUSNL
2	26.4.2023	26.4.2023	SD required for bus stringing for 220 kV side of ICT <i>Denied</i>	Not approved by ERLDC and JUSNL
3	2.5.2023	2.5.2023	SD required for bus stringing for 220 kV side of ICT <i>Denied</i>	Not approved by ERLDC and JUSNL
4	8.5.2023	10.5.2023	SD required for bus stringing for 220 kV side of ICT <i>Approved and availed</i>	Approved in 4 th request. Delay of 31 days
5	12.5.2023	13.5.2023	SD required for bus stringing for 220 kV side of ICT <i>Denied</i>	Not approved by ERLDC in view of high loading and demand.



	Shutdown applied		Shutdown (SD) status	Remark(s)
6	17.5.2023	17.5.2023	SD required for bus stringing for 220 kV side of ICT <i>Denied</i>	Not approved by ERLDC in view of high loading and demand.
7	18.5.2023	19.5.2023	SD required for bus stringing for 220 kV side of ICT <i>Approved and availed</i>	Approved. Partial work done. Delay of 6 days
8	20.5.2023	21.5.2023	SD required for bus stringing for 220 kV side of ICT <i>Denied</i>	Not approved by ERLDC in view of Load shedding and public agitation.
9	23.5.2023	25.5.2023	SD required for bus stringing for 220 kV side of ICT <i>Denied</i>	Not approved by ERLDC in view of the visit of the Hon'ble President of India from 24.5.2023 to 26.5.2023.
10	27.5.2023	27.5.2023	SD required for testing bus bar stability <i>Approved and availed</i>	Approved in 2 nd request. Delay of 7 days

29. The Petitioner has submitted that it needed to avail of shutdowns continuously, as the secured and continuous shutdowns would have helped in better planning and speedy execution of the transmission scheme. The Petitioner has further submitted that it is evident from the above deliberations that the shutdowns were not provided continuously for the desired period and that the shutdowns were approved intermittently, that too with the various returning conditions. The Petitioner has furnished the relevant e-mail exchanged substantiating its claim for a total delay of 44 days towards the delay in the approval of the shutdowns. Based on this, the Petitioner has submitted that the delay was beyond its control and that the events associated with the delay were unforeseen. The Petitioner has further submitted that though various problems occurring concurrently could have delayed the transmission scheme enormously, the experience and expertise of the Petitioner in project planning and execution curtailed the delay through its efficient and relentless efforts. Therefore, the Petitioner has prayed to condone the delay in completing the transmission asset as it was beyond its control.



30. BSPHCL, with regard to the delay in the award of packages, has submitted that the delay in the award of the transmission scheme by the Petitioner shows the Petitioner's lack of efficiency in the implementation of the transmission scheme. Therefore, the delay may not be condoned, and financial implications may not be considered in accordance with Regulation 22(1) of the 2019 Tariff Regulations. BSPHCL has further submitted that there is no specific data and certificate provided by the Petitioner on this account, and as such, the delay may not be condoned by the Commission.

31. As regards the delay attributed to availing shutdown approvals, BSPHCL has submitted that the email exchanged for the concerned shutdown (SD), as submitted by the Petitioner in the Petition, is not relevant. BSPHCL has further submitted that the emails related to SD requests for the dates 26.4.2023, 2.2.2023, and 18.5.2023 have not been enclosed. Therefore, the Petitioner's claim for condonation of the delay of 44 days on account of availing SD is not maintainable and may be rejected.

32. In response, the Petitioner has submitted that the reasons for the time overrun on account of the belated award of packages and delay in requisite shutdown approvals, along with justification and relevant documentary evidence, have been provided in the Petition. Thus, the Petitioner has prayed for condonation of delay owing to factors classified as uncontrollable and unforeseen.

Analysis and Decision for Time Overrun

33. On perusal of the record, we note that as per the IA dated 25.1.2022, the transmission scheme was scheduled to be commissioned by February 2023. The CTUIL, vide its OM dated 16.11.2021, approved the transmission scheme under the RTM with an implementation schedule of 15 months from the date of OM, i.e., by 15.2.2023, against which the transmission scheme was put into commercial operation on 1.6.2023, i.e., with a delay of 106 days.



34. On consideration of the submissions of the Petitioner and BSPHCL on the issue of time overrun, we are not agreeable with the contention of the Petitioner that the four months' time after the date of the IA dated 25.1.2022 had a cascading effect on the execution of works due to which the transmission scheme was completed beyond its SCOD that led to a delay of 106 days delay. In our view, the time taken for the award of work must be considered in the total time period of scheduled commissioning approved vide IA dated 25.1.2022. The Petitioner has given no convincing reasons to substantiate the delay in awarding the packages, which affected the execution of the transmission asset and can be considered uncontrollable. For the reasons mentioned above, we do not find any justifiable reasons to condone the delay because of the delayed award of the packages against the transmission scheme. Accordingly, all the Petitioner's contentions on this count are rejected.

35. The Petitioner also contended that after the erection works associated with the transmission asset were completed, the requests for shutdowns were made to ERLDC and JUSNL as site works were progressing at the desired pace. The shutdowns were applied for to carry out the necessary works like erection, bus stringing, bus-bar stability, etc. Contending such, the Petitioner has stated that the requests for requisite shutdowns were denied a few times owing to various system/ grid/ availability constraints.

36. Per contra, BSPHCL has contended that the details of emails with reference to shutdown requests for 26.4.2023, 2.2.2023, and 18.5.2023 have not been enclosed and, as such, the Petitioner's claim for the delay of 44 days on account of it has to be rejected.

37. We have considered the above contentions of the Petitioner and have perused the record. The Petitioner has contended that a 44-day delay occurred due to the denial of the requisite shutdowns needed to complete the work for various system/grid/availability constraints. However, the supporting documents concerning the denial of shutdowns applied for on 26.4.2023, 2.5.2023, 17.5.2023, 20.5.2023 to 21.5.2023, and from 23.5.2023 to



25.5.2023 have not been furnished by the Petitioner. We also note that the delay claimed by the Petitioner, along with the reason furnished above, is after the SCOD.

38. In the absence of any corroborating documentary evidence in support of the 44-day shutdown delay, we are not inclined to condone the delay as claimed by the Petitioner on account of the delay in availing of requisite shutdown approvals. However, the Petitioner is granted the liberty to furnish the time overrun reasons qua shutdown of 44 days when truing up the tariff Petition for the 2019-24 period is filed along with supporting data/communications.

39. Accordingly, the summary of time over-run claimed by the Petitioner in respect of the transmission asset condoned/not condoned is as follows:

Name of Asset	SCOD	COD	Time over-run claimed	Time over-run condoned	Time over-run not condoned
1x500 MVA, 400/220 kV 3 rd ICT along with its associated 400 kV and 220 kV bays at 400/220 kV Ranchi sub-station	15.2.2023	1.6.2023	106 days	Nil	106 days

Interest During Construction (IDC) and Incidental Expenditure During Construction (IEDC)

40. The Petitioner has submitted that out of a total IDC of ₹17.71 lakh, 'nil' IDC has been discharged up to COD, and the same was discharged in the financial year (FY) 2023-24. The Petitioner has further submitted that the entire IEDC amounting to ₹264.46 lakh covered under the instant Petition has been discharged up to the COD.

41. We have considered the Petitioner's submissions. The IDC of ₹1.48 lakh and ₹16.23 lakh claimed for Bond LXXI and Bond LXXII, respectively, has been disallowed as the respective draws of the loans were after the SCOD, i.e., 15.2.2023.



42. IEDC amounting to ₹56.98 lakh has been disallowed proportionately as the delay has not been condoned. Accordingly, the details of IDC and IEDC allowed and disallowed for the transmission asset are as follows:

(₹ in lakh)

IDC claimed	IDC disallowed due to time over-run not condoned	IDC allowed	IEDC claimed	IEDC disallowed due to time over-run not condoned	IEDC allowed
17.71	17.71	0.00	264.46	56.98	207.48

Initial Spares

43. The Petitioner has claimed the following Initial Spares in respect of the transmission asset:

(₹ in lakh)

Head	Plant and Machinery Cost	Initial Spares claimed		Ceiling as per Regulations (in%)
		Amount	Percentage (in%)	
Sub-station (Brown-field)	2860.83	117.65	4.29	6
TL	-	-	-	1
PLCC	-	-	-	3.5

44. The Petitioner has submitted the following details of the discharge of Initial Spares in respect of the transmission asset:

(₹ in lakh)

Total Initial Spares in Auditor's Certificate		Initial Spares Discharge (₹ in lakh)							
		COD		2023-24 (est.)		2024-25 (est.)		2025-26 (est.)	
TL	SS	TL	SS	TL	SS	TL	SS	TL	SS
-	117.65	-	25.65	-	50.85	-	34.39	-	6.77

45. Regulation 23(d) of the 2019 Tariff Regulations provides that the Initial Spares shall be capitalized as a percentage of plant and machinery cost up to the cut-off date, subject to the following ceiling norms.

“(d) Transmission System

(i) Transmission line: 1.00%

(ii) Transmission sub-station

- (Green Field): 4.00%

- (Brown Field): 6.00%

(iii) Series Compensation devices and HVDC Station: 4.00%



- (iv) GIS Insulated Sub-station
 - (Green Field): 5.00%
 - (Brown Field): 7.00%
 (v) Communication System: 3.50%
 (vi) Static Synchronous Compensator: 6.00%”

46. The Initial Spares for the transmission asset are allowed as a percentage of the plant and machinery cost. The Initial Spares allowed as per Regulation 23(d) of the 2019 Tariff Regulations in respect of the transmission asset are as follows:

(₹ in lakh)

Head	Plant and Machinery cost for calculation of Initial Spares (A)	Initial Spares claimed (B)	Ceiling as per Regulations (in %) (C)	Allowable Initial Spares D= (A-B)*C/(100%-C)	Initial Spares allowed
Sub-station (Brown-field)	2860.83	117.65	6	175.10	117.65

Capital cost allowed as on COD

47. The capital cost allowed in respect of the transmission asset as on COD is as follows:

(₹ in lakh)

Capital cost claimed till COD	Less: IDC disallowed as on COD	Less: IEDC disallowed as on COD	Capital cost approved as on COD
1975.50	17.71	56.98	1900.81

Additional Capital Expenditure (ACE)

48. The Petitioner has submitted that the admissibility of the ACE incurred after the COD is to be dealt with in accordance with the provisions of Regulation 24 of the 2019 Tariff Regulations.

49. Regulation 24 of the 2019 Tariff Regulations provides as follows:

“24. Additional Capitalisation within the original scope and up to the cut-off date

(1) *The additional capital expenditure in respect of a new project or an existing project incurred or projected to be incurred, on the following counts within the original scope of work, after the date of commercial operation and up to the cut-off date may be admitted by the Commission, subject to prudence check:*

- (a) *Undischarged liabilities recognized to be payable at a future date;*
- (b) *Works deferred for execution;*
- (c) *Procurement of initial capital spares within the original scope of work, in accordance with the provisions of Regulation 23 of these regulations;*
- (d) *Liabilities to meet award of arbitration or for compliance of the directions or order of any statutory authority or order or decree of any court of law;*



- (e) Change in law or compliance of any existing law; and
(f) Force Majeure events:

Provided that in case of any replacement of the assets, the additional capitalization shall be worked out after adjusting the gross fixed assets and cumulative depreciation of the assets replaced on account of de-capitalization.

(2) The generating company or the transmission licensee, as the case may be shall submit the details of works asset wise/work wise included in the original scope of work along with estimates of expenditure, liabilities recognized to be payable at a future date and the works deferred for execution.”

50. The ACE incurred/projected to be incurred in respect of the transmission asset is mainly on account of the balance/ retention payments and works deferred for execution. Therefore, the same may be allowed under Regulations 24(1)(a) and 24(1)(b) of the 2019 Tariff Regulations. The Petitioner has submitted the details of underlying reasons for additional capitalisation of the transmission asset in Form-7.

51. BSPHCL, in its reply, has submitted that the Petitioner's claim with respect to the ACE may be considered in accordance with the definition of the cut-off date given in Regulation 24 of the 2019 Tariff Regulations subject to a prudence check and further Regulation 24(2) of the 2019 Tariff Regulations may be kept in view by the Commission.

52. The details of ACE claimed by the Petitioner for the 2019-24 tariff period, as well as the liability flow statement for the transmission asset, are as follows:

(₹ in lakh)

Head/Party wise	Particulars	Outstanding liability as on COD/ 1.6.2023	Discharged amount			Additional liability recognized			Outstanding liability as on 31.3.2024
			2022-23	2023-24	Total (19-24)	2022-23	2023-24	Total (19-24)	
Jackson Ltd/Hitachi Energy India Ltd	Sub-station	1195.75	0.00	385.69	385.69	0.00	0.00	0.00	810.06

(₹ in lakh)

Head/Party	Particulars	Outstanding liability as on 31.3.2024	Discharged amount				Additional liability recognized		
			2024-25	2025-26	2026-27	Total (2024-29)	2024-25	2025-26	Total (2024-29)
Jackson Ltd/Hitachi Energy India Ltd	Sub-station	810.06	264.23	244.92	300.91	810.06	10	10	20

53. The Petitioner has submitted that the ACE claimed is mainly on account of ICT and other miscellaneous work, which are a part of the scope and are based on actual payments made to the contractor after receipt of final invoices from the contractor and incorporating the amendments. The Petitioner has also submitted that the payment was made after the invoice submission and after reconciliation under the contracts' provisions. The Petitioner has also submitted that the actual expenditure for the FY 2023-24 will be provided during the truing-up.

54. We have gone through the submissions of the Petitioner and BSPHCL. The COD of the transmission asset is 1.6.2023. Accordingly, the cut-off date of the transmission asset is 30.6.2026. The ACE claimed by the Petitioner for the 2019-24 tariff period is allowed under Regulations 24(1)(a) and 24(1)(b) of the 2019 Tariff Regulations. The Petitioner has projected ACE in the FY 2024-25, FY 2025-26, and FY 2026-27. However, it has not been considered as the same shall be dealt with separately as per the applicable Tariff Regulations for the 2024-29 tariff period. Accordingly, the ACE allowed in respect of the transmission asset is as follows:

(₹ in lakh)

Particulars	Regulations	ACE allowed
		2023-24
Balance and retention payments for liabilities other than IDC	24(1)(a) and 24(1)(b) of the 2019 Tariff Regulations	385.69
Total ACE		385.69

55. Accordingly, the capital cost considered in respect of the transmission asset for the 2019-24 tariff period is as follows:



(₹ in lakh)		
Capital cost considered as on COD	ACE 2023-24	Capital cost as on 31.3.2024
1900.81	385.69	2286.50

Debt-Equity Ratio

56. Regulation 18 of the 2019 Tariff Regulations provides as follows:

“18. Debt-Equity Ratio: (1) For new projects, the debt-equity ratio of 70:30 as on date of commercial operation shall be considered. If the equity actually deployed is more than 30% of the capital cost, equity in excess of 30% shall be treated as normative loan:

Provided that:

- i. where equity actually deployed is less than 30% of the capital cost, actual equity shall be considered for determination of tariff:
- ii. the equity invested in foreign currency shall be designated in Indian rupees on the date of each investment:
- iii. any grant obtained for the execution of the project shall not be considered as a part of capital structure for the purpose of debt: equity ratio.

Explanation.-The premium, if any, raised by the generating company or the transmission licensee, as the case may be, while issuing share capital and investment of internal resources created out of its free reserve, for the funding of the project, shall be reckoned as paid up capital for the purpose of computing return on equity, only if such premium amount and internal resources are actually utilised for meeting the capital expenditure of the generating station or the transmission system.

(2) The generating company or the transmission licensee, as the case may be, shall submit the resolution of the Board of the company or approval of the competent authority in other cases regarding infusion of funds from internal resources in support of the utilization made or proposed to be made to meet the capital expenditure of the generating station or the transmission system including communication system, as the case may be.

(3) In case of the generating station and the transmission system including communication system declared under commercial operation prior to 1.4.2019, debt: equity ratio allowed by the Commission for determination of tariff for the period ending 31.3.2019 shall be considered:

Provided that in case of a generating station or a transmission system including communication system which has completed its useful life as on or after 1.4.2019, if the equity actually deployed as on 1.4.2019 is more than 30% of the capital cost, equity in excess of 30% shall not be taken into account for tariff computation;

Provided further that in case of projects owned by Damodar Valley Corporation, the debt: equity ratio shall be governed as per sub-clause (ii) of clause (2) of Regulation 72 of these regulations.

(4) In case of the generating station and the transmission system including communication system declared under commercial operation prior to 1.4.2019, but where debt: equity ratio has not been determined by the Commission for determination of tariff for the period ending 31.3.2019, the Commission shall approve the debt: equity ratio in accordance with clause (1) of this Regulation.



(5) Any expenditure incurred or projected to be incurred on or after 1.4.2019 as may be admitted by the Commission as additional capital expenditure for determination of tariff, and renovation and modernization expenditure for life extension shall be serviced in the manner specified in clause (1) of this Regulation.

(6) Any expenditure incurred for the emission control system during the tariff period as may be admitted by the Commission as additional capital expenditure for determination of supplementary tariff, shall be serviced in the manner specified in clause (1) of this Regulation.”

57. The Petitioner has claimed a debt-equity ratio of 70:30, and the same has been considered by the Commission in accordance with Regulation 18 of the 2019 Tariff Regulations and the same is as follows:

Funding	Capital cost as on 1.6.2023 (₹ in lakh)	(in %)	Capital cost as on 31.3.2024 (₹ in lakh)	(in %)
Debt	1330.57	70.00	1600.55	70.00
Equity	570.24	30.00	685.95	30.00
Total	1900.81	100.00	2286.50	100.00

Depreciation

58. Regulation 33 of the 2019 Tariff Regulations provides as follows:

“33. Depreciation: (1) Depreciation shall be computed from the date of commercial operation of a generating station or unit thereof or a transmission system or element thereof including communication system. In case of the tariff of all the units of a generating station or all elements of a transmission system including communication system for which a single tariff needs to be determined, the depreciation shall be computed from the effective date of commercial operation of the generating station or the transmission system taking into consideration the depreciation of individual units:

Provided that effective date of commercial operation shall be worked out by considering the actual date of commercial operation and installed capacity of all the units of the generating station or capital cost of all elements of the transmission system, for which single tariff needs to be determined.

(2) The value base for the purpose of depreciation shall be the capital cost of the Asset admitted by the Commission. In case of multiple units of a generating station or multiple elements of a transmission system, weighted average life for the generating station of the transmission system shall be applied. Depreciation shall be chargeable from the first year of commercial operation. In case of commercial operation of the Asset-for part of the year, depreciation shall be charged on pro rata basis.

(3) The salvage value of the asset shall be considered as 10% and depreciation shall be allowed up to maximum of 90% of the capital cost of the asset:

Provided that the salvage value for IT equipment and software shall be considered as NIL and 100% value of the assets shall be considered depreciable;



Provided further that in case of hydro generating stations, the salvage value shall be as provided in the agreement, if any, signed by the developers with the State Government for development of the generating station

Provided also that the capital cost of the assets of the hydro generating station for the purpose of computation of depreciated value shall correspond to the percentage of sale of electricity under long-term power purchase agreement at regulated tariff:

Provided also that any depreciation disallowed on account of lower availability of the generating station or unit or transmission system as the case may be, shall not be allowed to be recovered at a later stage during the useful life or the extended life.

(4) Land other than the land held under lease and the land for reservoir in case of hydro generating station shall not be a depreciable asset and its cost shall be excluded from the capital cost while computing depreciable value of the asset.

(5) Depreciation shall be calculated annually based on Straight Line Method and at rates specified in Appendix-I to these regulations for the Asset-of the generating station and transmission system:

Provided that the remaining depreciable value as on 31st March of the year closing after a period of 12 years from the effective date of commercial operation of the station shall be spread over the balance useful life of the asset

(6) In case of the existing projects, the balance depreciable value as on 1.4.2019 shall be worked out by deducting the cumulative depreciation as admitted by the Commission upto 31.3.2019 from the gross depreciable value of the assets.

(7) The generating company or the transmission licensee, as the case may be, shall submit the details of proposed capital expenditure five years before the completion of useful life of the project along with justification and proposed life extension. The Commission based on prudence check of such submissions shall approve the depreciation on capital expenditure.

(8) In case of de-capitalization of assets in respect of generating station or unit thereof or transmission system or element thereof, the cumulative depreciation shall be adjusted by taking into account the depreciation recovered in tariff by the de-capitalized asset during its useful services.

(9) Where the emission control system is implemented within the original scope of the generating station and the date of commercial operation of the generating station or unit thereof and the date of operation of the emission control system are the same, depreciation of the generating station or unit thereof including the emission control system shall be computed in accordance with Clauses (1) to (8) of this Regulation.

(10) Depreciation of the emission control system of an existing or a new generating station or unit thereof where the date of operation of the emission control system is subsequent to the date of commercial operation of the generating station or unit thereof, shall be computed annually from the date of operation of such emission control system based on straight line method, with salvage value of 10%, over a period of

- a) twenty-five years, in case the generating station or unit thereof is in operation for fifteen years or less as on the date of operation of the emission control system; or*
- b) balance useful life of the generating station or unit thereof plus fifteen years, in case the generating station or unit thereof is in operation for more than fifteen years as on the date of operation of the emission control system; or*

c) ten years or a period mutually agreed by the generating company and the beneficiaries, whichever is higher, in case the generating station or unit thereof has completed its useful life.”

59. The depreciation is worked out considering the admitted capital expenditure as on the COD. The Weighted Average Rate of Depreciation (WAROD) has been worked out as per the rates of depreciation specified in the 2019 Tariff Regulations and has been placed as Annexure-I. The depreciation allowed in respect of the transmission asset for the 2019-24 tariff period is as follows:

		(₹ in lakh)
	Particulars	2023-24 (pro-rata for 305 days)
A	Opening Gross Block	1900.81
B	Addition during the year 2019-24 due to projected ACE	385.69
C	Closing Gross Block (A+B)	2286.50
D	Average Gross Block (A+C)/2	2093.66
E	Average Gross Block (90% depreciable assets)	2074.43
F	Average Gross Block (100% depreciable assets)	19.23
G	Depreciable value (excluding IT equipment and software) (E*90%)	1866.98
H	Depreciable value of IT equipment and software (F*100%)	19.23
I	Total Depreciable Value (G+H)	1886.22
J	Weighted average rate of Depreciation (WAROD) (in %)	5.37%
K	Lapsed useful life at the beginning of the year (Year)	0
L	Balance useful life at the beginning of the year (Year)	25
M	Depreciation during the year (D*J)	93.68
N	Cumulative Depreciation at the end of the year	93.68
O	Remaining Aggregate Depreciable Value at the end of the year	1792.54

Interest on Loan (IoL)

60. Regulation 32 of the 2019 Tariff Regulations provides as follows:

“32. Interest on loan capital: (1) The loans arrived at in the manner indicated in Regulation 18 of these regulations shall be considered as gross normative loan for calculation of interest on loan.

(2) The normative loan outstanding as on 1.4.2019 shall be worked out by deducting the cumulative repayment as admitted by the Commission up to 31.3.2019 from the gross normative loan.

(3) The repayment for each of the year of the tariff period 2019-24 shall be deemed to be equal to the depreciation allowed for the corresponding year/period. In case of decapitalization of asset, the repayment shall be adjusted by taking into account cumulative repayment on a pro rata basis and the adjustment should not exceed cumulative depreciation recovered upto the date of de-capitalisation of such asset.

(4) Notwithstanding any moratorium period availed by the generating company or the transmission licensee, as the case may be, the repayment of loan shall be considered from



the first year of commercial operation of the project and shall be equal to the depreciation allowed for the year or part of the year.

(5) The rate of interest shall be the weighted average rate of interest calculated on the basis of the actual loan portfolio after providing appropriate accounting adjustment for interest capitalized:

Provided that if there is no actual loan for a particular year but normative loan is still outstanding, the last available weighted average rate of interest shall be considered;

Provided further that if the generating station or the transmission system, as the case may be, does not have actual loan, then the weighted average rate of interest of the generating company or the transmission licensee as a whole shall be considered.

(5a) The rate of interest on loan for installation of emission control system shall be the weighted average rate of interest of actual loan portfolio of the emission control system or in the absence of actual loan portfolio, the weighted average rate of interest of the generating company as a whole shall be considered.

(6) The interest on loan shall be calculated on the normative average loan of the year by applying the weighted average rate of interest.

(7) The changes to the terms and conditions of the loans shall be reflected from the date of such re-financing”.

61. The Weighted Average Rate of Interest on Loan (WAROI) has been considered based on the prevailing rates on COD of the transmission asset for the respective loans. The Petitioner has prayed that the change in the interest rate due to the floating rate of interest applicable, if any, during the 2019-24 tariff period may be adjusted. Accordingly, the floating interest rate, if any, shall be considered when truing-up.

62. BSPHCL, in its reply, has submitted that the 2019 Tariff Regulations do not permit the change in interest rate due to the floating interest rate applicable, if any.

63. We have considered the submissions of the Petitioner and BSPHCL. The IoL has been worked out in accordance with Regulation 32 of the 2019 Tariff Regulations. The IoL allowed in respect of the transmission asset is as follows:

		(₹ in lakh)
	Particulars	2023-24 (pro-rata for 305 days)
A	Gross Normative Loan	1330.57
B	Cumulative Repayments up to Previous Year	0.00
C	Net Loan-Opening (A-B)	1330.57
D	Addition due to ACE	269.98



	Particulars	2023-24 (pro-rata for 305 days)
E	Repayment during the year	93.68
F	Net Loan-Closing (C+D-E)	1506.87
G	Average Loan (C+F)/2	1418.72
H	Weighted Average Rate of Interest on Loan (in %)	7.56%
I	Interest on Loan (G*H)	89.38

Return on Equity (RoE)

64. Regulations 30 and 31 of the 2019 Tariff Regulations provide as follows:

“30. Return on Equity: (1) Return on equity shall be computed in rupee terms, on the equity base determined in accordance with Regulation 18 of these regulations.

(2) Return on equity shall be computed at the base rate of 15.50% for thermal generating station, transmission system including communication system and run-of river hydro generating station, and at the base rate of 16.50% for the storage type hydro generating stations including pumped storage hydro generating stations and run-of-river generating station with pondage:

Provided that return on equity in respect of Additional Capitalization after cutoff date beyond the original scope excluding Additional Capitalization due to Change in Law, shall be computed at the weighted average rate of interest on actual loan portfolio of the generating station or the transmission system or in the absence of actual loan portfolio of the generating station or the transmission system, the weighted average rate of interest of the generating company or the transmission licensee, as the case may be, as a whole shall be considered, subject to ceiling of 14%.

Provided further that:

i. In case of a new project, the rate of return on equity shall be reduced by 1.00% for such period as may be decided by the Commission, if the generating station or transmission system is found to be declared under commercial operation without commissioning of any of the Restricted Governor Mode Operation (RGMO) or Free Governor Mode Operation (FGMO), data telemetry, communication system up to load dispatch centre or protection system based on the report submitted by the respective RLDC;

ii. in case of existing generating station, as and when any of the requirements under (i) above of this Regulation are found lacking based on the report submitted by the concerned RLDC, rate of return on equity shall be reduced by 1.00% for the period for which the deficiency continues;

iii. in case of a thermal generating station, with effect from 1.4.2020:

a) rate of return on equity shall be reduced by 0.25% in case of failure to achieve the ramp rate of 1% per minute;

b) an additional rate of return on equity of 0.25% shall be allowed for every incremental ramp rate of 1% per minute achieved over and above the ramp rate of 1% per minute, subject to ceiling of additional rate of return on equity of 1.00%:

Provided that the detailed guidelines in this regard shall be issued by National Load Dispatch Centre by 30.6.2019.

(3) The return on equity in respect of additional capitalization on account of emission control system shall be computed at the base rate of one year marginal cost of lending rate (MCLR)



of the State Bank of India as on 1st April of the year in which the date of operation (ODe) occurs plus 350 basis point, subject to ceiling of 14%;

31. Tax on Return on Equity:(1) The base rate of return on equity as allowed by the Commission under Regulation 30 of these regulations shall be grossed up with the effective tax rate of the respective financial year. For this purpose, the effective tax rate shall be considered on the basis of actual tax paid in respect of the financial year in line with the provisions of the relevant Finance Acts by the concerned generating company or the transmission licensee, as the case may be. The actual tax paid on income from other businesses including deferred tax liability (i.e. income from business other than business of generation or transmission, as the case may be) shall be excluded for the calculation of effective tax rate.

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

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

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

Illustration-

(i) In case of a generating company or a transmission licensee paying Minimum Alternate Tax (MAT) @ 21.55% including surcharge and cess:

$$\text{Rate of return on equity} = 15.50 / (1 - 0.2155) = 19.758\%$$

(ii) In case of a generating company or a transmission licensee paying normal corporate tax including surcharge and cess:

(a) Estimated Gross Income from generation or transmission business for FY 2019-20 is Rs 1,000 crore;

(b) Estimated Advance Tax for the year on above is Rs 240 crore;

(c) Effective Tax Rate for the year 2019-20 = Rs 240 Crore / Rs 1000 Crore = 24%;

(d) Rate of return on equity = $15.50 / (1 - 0.24) = 20.395\%$.

(3) The generating company or the transmission licensee, as the case may be, shall true up the grossed up rate of return on equity at the end of every financial year based on actual tax paid together with any additional tax demand including interest thereon, duly adjusted for any refund of tax including interest received from the income tax authorities pertaining to the tariff period 2019-24 on actual gross income of any financial year. However, penalty, if any, arising on account of delay in deposit or short deposit of tax amount shall not be claimed by the generating company or the transmission licensee, as the case may be. Any under-recovery or over-recovery of grossed up rate on return on equity after truing up, shall be recovered or refunded to beneficiaries or the long term customers, as the case may be, on year to year basis."



65. The Petitioner has submitted that the MAT rate applies to it. The applicable MAT rate has been considered for RoE, which shall be trued up in accordance with Regulation 31(3) of the 2019 Tariff Regulations. BSPHCL, in its reply, has submitted that RoE and tax on RoE as contemplated under Regulations 30 and 31 of the 2019 Tariff Regulations may only be taken into consideration.

66. In response, the Petitioner has submitted that the contention of BSPHCL that no proper exercise was carried out by the Petitioner in calculating the MAT rate or RoE is incorrect. The Petitioner has submitted that the data with regard to the actual tax paid will be submitted at the time of truing-up.

67. Considering the submissions of the Petitioner, RoE allowed with respect to the transmission asset is as follows:

(₹ in lakh)		
	Particulars	2023-24 (pro-rata for 305 days)
A	Opening Equity	570.24
B	Addition due to ACE	115.71
C	Closing Equity (A+B)	685.95
D	Average Equity (A+C)/2	628.10
E	Return on Equity (Base Rate) (in %)	15.50
F	Tax Rate applicable (in %)	17.472
G	Rate of Return on Equity (in %)	18.782
H	Return on Equity (D*G)	98.31

Operation & Maintenance Expenses (O&M Expenses)

68. Regulation 35(3)(a) of the 2019 Tariff Regulations provides as follows:

“35(3) Transmission system: (a) The following normative operation and maintenance expenses shall be admissible for the combined transmission system:

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Norms for sub-station Bays (₹ Lakh per bay)					
765 kV	45.01	46.60	48.23	49.93	51.68
400 kV	32.15	33.28	34.45	35.66	36.91
220 kV	22.51	23.30	24.12	24.96	25.84
132 kV and below	16.08	16.64	17.23	17.83	18.46
Norms for Transformers (₹ Lakh per MVA)					
765 kV	0.491	0.508	0.526	0.545	0.564
400 kV	0.358	0.371	0.384	0.398	0.411
220 kV	0.245	0.254	0.263	0.272	0.282
132 kV and below	0.245	0.254	0.263	0.272	0.282



Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Norms for AC and HVDC lines (₹ Lakh per km)					
Single Circuit (Bundled Conductor with six or more sub-conductors)	0.881	0.912	0.944	0.977	1.011
Single Circuit (Bundled conductor with four sub-conductors)	0.755	0.781	0.809	0.837	0.867
Single Circuit (Twin & Triple Conductor)	0.503	0.521	0.539	0.558	0.578
Single Circuit (Single Conductor)	0.252	0.26	0.27	0.279	0.289
Double Circuit (Bundled conductor with four or more sub-conductors)	1.322	1.368	1.416	1.466	1.517
Double Circuit (Twin & Triple Conductor)	0.881	0.912	0.944	0.977	1.011
Double Circuit (Single Conductor)	0.377	0.391	0.404	0.419	0.433
Multi Circuit (Bundled Conductor with four or more sub-conductor)	2.319	2.401	2.485	2.572	2.662
Multi Circuit (Twin & Triple Conductor)	1.544	1.598	1.654	1.713	1.773
Norms for HVDC stations					
HVDC Back-to-Back stations (Rs Lakh per 500 MW) (Except Gazuwaka BTB)	834	864	894	925	958
Gazuwaka HVDC Back-to-Back station (₹ Lakh per 500 MW)	1,666	1,725	1,785	1,848	1,913
500 kV Rihand-Dadri HVDC bipole scheme (Rs Lakh) (1500 MW)	2,252	2,331	2,413	2,498	2,586
±500 kV Talcher- Kolar HVDC bipole scheme (Rs Lakh) (2000 MW)	2,468	2,555	2,645	2,738	2,834
±500 kV Bhiwadi-Balia HVDC bipole scheme (Rs Lakh) (2500 MW)	1,696	1,756	1,817	1,881	1,947
±800 kV, Bishwanath-Agra HVDC bipole scheme (Rs Lakh) (3000 MW)	2,563	2,653	2,746	2,842	2,942

Provided that the O&M expenses for the GIS bays shall be allowed as worked out by multiplying 0.70 of the O&M expenses of the normative O&M expenses for bays;

Provided further that:

- the operation and maintenance expenses for new HVDC bi-pole schemes commissioned after 1.4.2019 for a particular year shall be allowed pro-rata on the basis of normative rate of operation and maintenance expenses of similar HVDC bi-pole scheme for the corresponding year of the tariff period;
- the O&M expenses norms for HVDC bi-pole line shall be considered as Double Circuit quad AC line;
- the O&M expenses of ±500 kV Mundra-Mohindergarh HVDC bipole scheme (2000 MW) shall be allowed as worked out by multiplying 0.80 of the normative O&M expenses for ±500 kV Talchar-Kolar HVDC bi-pole scheme (2000 MW);
- the O&M expenses of ±800 kV Champa-Kurukshetra HVDC bi-pole scheme (3000 MW) shall be on the basis of the normative O&M expenses for ±800 kV, Bishwanath-Agra HVDC bi-pole scheme;
- the O&M expenses of ±800 kV, Alipurduar-Agra HVDC bi-pole scheme (3000 MW) shall be allowed as worked out by multiplying 0.80 of the normative O&M expenses for ±800 kV, Bishwanath-Agra HVDC bi-pole scheme; and



- vi. *the O&M expenses of Static Synchronous Compensator and Static Var Compensator shall be worked at 1.5% of original project cost as on commercial operation which shall be escalated at the rate of 3.51% to work out the O&M expenses during the tariff period. The O&M expenses of Static Synchronous Compensator and Static Var Compensator, if required, may be reviewed after three years*

(b) The total allowable operation and maintenance expenses for the transmission system shall be calculated by multiplying the number of sub-station bays, transformer capacity of the transformer (in MVA) and km of line length with the applicable norms for the operation and maintenance expenses per bay, per MVA and per km respectively.

(c) The Security Expenses and Capital Spares for transmission system shall be allowed separately after prudence check:

Provided that the transmission licensee shall submit the assessment of the security requirement and estimated security expenses, the details of year-wise actual capital spares consumed at the time of truing up with appropriate justification."

69. The O&M Expenses claimed by the Petitioner in respect of the transmission asset for the 2019-24 tariff period are as follows:

(₹ in lakh)		
Sr. No.	Particulars	2023-24 (pro-rata for 305 days)
1	1 No. 400 kV Transformer Bay	30.76
2	1 No. 220 kV Transformer Bay	21.53
3	500 MVA , 400/220 kV ICT	171.25
	Total O&M Charges Claimed	223.54

70. BSPHCL has submitted that O&M Expenses may be considered as per Regulation 35(3) (a) of the 2019 Tariff Regulations.

71. We have considered the submissions of the Petitioner and BSPHCL and have perused the record. The following O&M Expenses are allowed as per the norms specified in the 2019 Tariff Regulations in respect of the transmission asset:

(₹ in lakh)				
Sr. No.	Particulars	Norms as per Regulation 35(3)(a) of the 2019 Tariff Regulations	O&M Charges Claimed	O&M Charges Allowed for FY 2023-24 (pro-rata for 305 days)
1	1 No. 400 kV Transformer Bay	36.91	30.76	30.76
2	1 No. 220 kV Transformer Bay	25.84	21.53	21.53
3	500 MVA , 400/220 kV ICT	0.411	171.25	171.25
	Total O&M Charges		223.54	223.54



Interest on Working Capital (IWC)

72. Regulations 34(1)(c), 34(3), 34(4) and 3(7) of the 2019 Tariff Regulations specify as follows:

“34. Interest on Working Capital: (1) The working capital shall cover:

(c) For Hydro Generating Station (including Pumped Storage Hydro Generating Station) and Transmission System:

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

(ii) Maintenance spares @ 15% of operation and maintenance expenses including security expenses; and

(iii) Operation and maintenance expenses, including security expenses for one month.”

“(3) Rate of interest on working capital shall be on normative basis and shall be considered as the bank rate as on 1.4.2019 or as on 1st April of the year during the tariff period 2019- 24 in which the generating station or a unit thereof or the transmission system including communication system or element thereof, as the case may be, is declared under commercial operation, whichever is later:

Provided that in case of truing-up, the rate of interest on working capital shall be considered at bank rate as on 1st April of each of the financial year during the tariff period 2019-24.

(4) Interest on working capital shall be payable on normative basis notwithstanding that the generating company or the transmission licensee has not taken loan for working capital from any outside agency.”

“3. Definitions. - In these regulations, unless the context otherwise requires:-

(7) ‘Bank Rate’ means the one year marginal cost of lending rate (MCLR) of the State Bank of India issued from time to time plus 350 basis points;”

73. The Petitioner has submitted that it has computed IWC for the 2019-24 period, considering the SBI Base Rate plus 350 basis points on the transmission scheme's COD. The Petitioner has considered the IWC rate as 12.00% for FY 2023-24.

74. IWC is worked out in accordance with Regulation 34 of the 2019 Tariff Regulations. The Rate of Interest (RoI) considered is 12.00% (SBI 1-year MCLR applicable as on 1.4.2023 of 8.50% plus 350 basis points). The components of the working capital and interest allowed thereon are as follows:

Particulars	(₹ in lakh)
	2023-24 (pro-rata for 305 days)
Working Capital for O&M Expenses (O&M Expenses for one month)	22.35
Working Capital for Maintenance Spares (15% of O&M Expenses)	40.24
Working Capital for Receivables (Equivalent to 45 days of annual fixed cost /annual transmission charges)	76.55
Total Working Capital	139.14
Rate of Interest for working capital (in %)	12.00%
Interest on working capital	13.91



Annual Fixed Charges for the 2019-24 Tariff Period

75. The transmission charges allowed for the 2019-24 tariff period in respect of the transmission asset are as follows:

Particulars	(₹ in lakh)
	2023-24 (pro-rata for 305 days)
Depreciation	93.68
Interest on Loan	89.38
Return on Equity	98.31
O&M Expenses	223.54
Interest on Working Capital	13.91
Total	518.82

Filing Fee and Publication Expenses

76. The Petitioner has sought reimbursement of the fee paid by it for filing the Petition and incurred towards publication expenses.

77. BSPHCL has submitted that the grant of filing fees and expenses incurred is at the discretion of the Commission and need not necessarily be allowed in all cases.

78. In response, the Petitioner has submitted that the filing fee and publication expenses have been sought in accordance with Regulation 70(1) of the 2019 Tariff Regulations. The Petitioner has further submitted that the Commission, in its order dated 28.3.2016 in Petition No. 137/TT/2015 for the determination of tariff for the 2014-19 tariff period, has allowed the recovery of Petition filing fee and publication of notices from the beneficiaries on a pro-rata basis.

79. We have considered the submissions of the Petitioner and BSPHCL. We are of the view that the Petitioner is entitled to reimbursement of the filing fees and publication expenses in connection with the instant Petition directly from the beneficiaries on a pro-rata basis in accordance with Regulation 70(1) of the 2019 Tariff Regulations. Therefore, the contention of the BSPHCL that the filing fee and expenses incurred are at the the discretion of the Commission and need not be allowed is misconceived, and the same is accordingly rejected.



Licence Fee and RLDC Fees and Charges

80. The Petitioner has sought reimbursement of the licence fee in accordance with Regulation 70(4) of the 2019 Tariff Regulations. The Petitioner shall be entitled to reimbursement of the licence fee in accordance with Regulation 70(4) of the 2019 Tariff Regulations for the 2019-24 tariff period. The Petitioner shall also be entitled to recovery of RLDC fees and charges in accordance with Regulation 70(3) of the 2019 Tariff Regulations for the 2019-24 tariff period.

Goods and Services Tax

81. The Petitioner has submitted that if GST is levied at any rate and at any point of time in the future on charges of transmission of electricity, the same shall be borne and additionally paid by the Respondent(s) to the Petitioner and the same shall be charged and billed separately by the Petitioner. Further additional taxes, if any, are to be paid by the Petitioner on account of demand from Government/ statutory authorities, and the same may be allowed to be recovered from the beneficiaries.

82. BSPHCL has submitted that Regulation 56 of the 2019 Tariff Regulations contemplates recovery of statutory charges by the generating company and not by the transmission licensee. Therefore, the Petitioner's claim in this regard is premature and liable to be rejected.

83. We have considered the submissions of the Petitioner and BSPHCL. Since GST is not levied on transmission service at present, we are of the view that the Petitioner's prayer in this regard is premature.

Security Expenses

84. The Petitioner has submitted that security expenses in respect of transmission assets are not claimed in the instant Petition, and it would file a separate Petition for claiming the

overall security expenses and the consequential IWC as per Regulation 35(3)(c) of the 2019 Tariff Regulations.

85. We have considered the Petitioner's and BSHPCL's submissions. The Petitioner has claimed consolidated security expenses on a projected basis for the 2019-24 tariff period on the basis of actual security expenses incurred in the FY 2018-19 in Petition No. 260/MP/2020. The Commission, vide its order dated 3.8.2021 in Petition No. 260/MP/2020, has approved security expenses from 1.4.2019 to 31.3.2024. Therefore, the Petitioner's prayer in the instant Petition for allowing it to file a separate Petition for claiming the overall security expenses has become infructuous.

Capital Spares

86. The Petitioner has sought reimbursement of capital spares at the end of the tariff period. The Petitioner's claim, if any, shall be dealt with in accordance with the provisions of the 2019 Tariff Regulations.

Sharing of Transmission Charges

87. With effect from 1.11.2020, the sharing of transmission charges is governed by the provisions of the Central Electricity Regulatory Commission (Sharing of Transmission Charges and Losses) Regulations, 2020 (the 2020 Sharing Regulations). Accordingly, the billing, collection, and disbursement of transmission charges shall be recovered in terms of provisions of the 2020 Sharing Regulations as provided in Regulation 57 of the 2019 Tariff Regulations.

Interim Tariff

88. The Petitioner has prayed to allow the interim tariff, in accordance with Regulation 10(3) of the 2019 Tariff Regulations, to be included in the point-of-connection charges.



89. We have considered the Petitioner's submissions. Since we have determined the transmission tariff in respect of the transmission asset in this order, the prayer for the interim tariff becomes redundant. Therefore, we have not considered it in this order.

90. To summarize, Annual Fixed Charges (AFC) allowed in respect of the transmission asset for the 2019-24 tariff period in this order are as follows:

(₹ in lakh)	
Particulars	2023-24 (pro-rata for 305 days)
AFC	518.82

91. The Annexure-I to this order forms part of the order.

92. This order disposes of Petition No. 351/TT/2023 in terms of the above findings and discussions.

sd/-
(Ramesh Babu V.)
Member

sd/-
(Jishnu Barua)
Chairperson



Annexure-I

(₹ in lakh)					
Particulars	Admitted capital cost as on COD	Projected ACE 2023-24	Admitted capital cost as on 31.3.2024	Depreciation rate	Annual depreciation 2023-24
Substation	1884.43	380.00	2264.43	5.28%	109.53
IT Equipment	16.39	5.69	22.08	15.00%	2.88
Total	1900.81	385.69	2286.50		112.41
				Average Gross Block	2093.66
				WAROD	5.37%

Page 41 to 26
ATTESTED TRUE COPY
Authorised Signatory
Power Grid Corporation of India Ltd.
Plot No.-2, Sector-29, Gurgaon- 122 001 (Haryana)



ENCL 2



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

As per list of Addresses

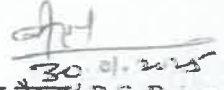
विषय: ट्रांसमिशन पर राष्ट्रीय समिति (एनसीटी) की छम्बीसवीं बैठक के कार्यवृत्त ।

Subject: Minutes of the 26th Meeting of National Committee on Transmission (NCT) – regarding.

महोदया (Madam) / महोदय (Sir),

The 26th meeting of the National Committee on Transmission (NCT) was held on 6th January, 2025 at Bangaram Island, Lakshadweep. Minutes of the meeting are enclosed herewith.

भवदीय/Yours faithfully,


 30.01.2025
 (बी.एस.बैरवा/ B.S. Barwa)

मुख्य अभियन्ता (इंचार्ज) एवं सदस्य सचिव (एन.सी.टी.)/
 Chief Engineer (I/C) & Member Secretary (NCT)

प्रतिलिपि / Copy to:

Joint Secretary (Trans); Ministry of Power, New Delhi-110001



List of Addressees:

1.	Chairperson, Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi – 110 066.	2.	Member (Power Systems), Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi – 110 066.
3.	Member (Economic & Commercial), Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi – 110 066.	4.	Director (Trans), Ministry of Power Shram Shakti Bhawan, New Delhi-110001.
5.	Sh. Lalit Bohra, Joint Secretary Room no 602, Atal Akshay Urja Bhawan Opposite CGO Complex, Gate No. 2, Lodhi Road, New Delhi – 110003	6.	Chief Operating Officer, CTUIL, Floors No. 5-10, Tower 1, Plot No. 16, IRCON International Tower, Institutional Area, Sector 32, Gurugram, Haryana - 122001.
7.	Sh. Rajnath Ram, Adviser (Energy), NITI Aayog, Parliament Street, New Delhi – 110 001.	8.	CMD, Grid Controller of India, B-9 (1 st Floor), Qutub Institutional Area, Katwaria Sarai, New Delhi – 110016
9.	Sh. Ravinder Gupta Ex. Chief Engineer CEA		

Special Invitee

1. Chief Engineer (PCD), CEA
2. CEO, RECPDCL
3. CEO, PFCCL



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	Summary of the deliberations of the 26 th meeting of NCT held on 6 th January, 2025	27



Minutes of the 26th meeting of National Committee on Transmission (NCT)

The 26th meeting of the National Committee on Transmission (NCT) was held on 6th January, 2025 at Bangaram Island, Lakshadweep. List of participants is enclosed at **Annexure-I**. Agenda wise deliberations are given below:

1 Confirmation of the minutes of the 25th meeting of National Committee on Transmission.

1.1 The minutes of the 25th meeting of NCT held on 28.11.2024 were issued on 10.12.2024 vide CEA letter Nos. CEA-PS-12-13/3/2019-PSPA-II. No comments have been received on the minutes.

1.2 Members confirmed the minutes.

2 Status of the transmission schemes noted/approved/recommended to MoP in the 25th meetings of NCT:

2.1 Status of new transmission schemes approved/recommended:

Sl. No.	Name of the Transmission Scheme	Noted/ Recommended / Approved	Mode of Implementation	BPC	Award/ Gazette notification
1.	Transmission system for proposed Green Hydrogen / Green Ammonia projects in Kakinada area, Andhra Pradesh (Phase-I)	Recommended	TBCB	PFFCL	Scheme notified in Gazette by MoP on 26.12.2024.
2.	Augmentation of transformation capacity at 765/400 kV Sipat STPS in Chhattisgarh by 1x1500 MVA, 765/400 kV ICT (3rd).	Approved	To be implemented by NTPC	Not applicable	Not applicable

2.2 Status of transmission schemes where modifications was suggested by NCT:

Sl. No.	Scheme where modifications was suggested	Status
1.	Post facto approval for modification in the scope of work of Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part 1) (Bikaner Complex) – Part-E	Informed to CTUIL vide letter dated 10.12.2024.
2.	Bid process for selection of Bidder as Transmission Service Provider (TSP) to establish “Transmission system strengthening to facilitate evacuation of power from Bhadla/Bikaner complex”	CTUIL vide letter dated 10.12.2024 awarded the scheme to implementing agency. Scheme was de-notified vide Gazette dated 31.12.2024.
3.	Consideration of GIS station in place of AIS station for the scheme “Transmission System for Offshore wind farm in Tamil Nadu {500 MW VGF}”	Informed to MoP vide letter dated 10.12.2024. MoP to modify the O.M.



- (b) Implementation timeframe for the links – 5 years from the date of allocation
- (c) The HVDC scheme may be taken up for implementation through RTM mode in view of strategic location of Greater Nicobar Islands.
- (d) Grant, if any, for this HVDC scheme may be considered under Green Energy Corridor-III scheme.
- (e) The HVDC system may be included under the National Component mentioned in the CERC Sharing Regulations for tariff recovery purpose.

4.4 CERC observation on variation in the Investment Approval (IA) cost as compared to the estimated cost by CTUIL for the transmission schemes awarded to the existing Transmission Licensees

4.4.1 Transmission schemes with estimated cost of less than ₹100 Crores are awarded by CTUIL to the existing Transmission Licensees (POWERGRID as well as other TBCB Licensees) along with estimated cost and implementation timeframe.

4.4.2 Representative from CTUIL stated that POWERGRID vide letter dt 04.12.2024 has informed CTUIL that they are in receipt of tariff order dated 01.11.2024 issued by the Hon'ble CERC in the petition Nos. 351/TT/2023 regarding approval of transmission tariff for the tariff period 2019-24 for the project "Eastern Region Expansion Scheme-XXVI" in Eastern Region. In the said tariff order, CERC has observed that estimated cost considered by CTUIL while approving the scheme was ₹ 27.00 Crores and Investment approval (IA) approved by the petitioner's board was ₹ 32.10 crores. Thus, there is variation of about ₹5.10 crores (18.88%) compared with the estimated cost of CTUIL. the commission directs CTUIL to put in place a procedure in consultation with NCT for ratification/approval of the schemes in case of the following (1) variation of IA cost beyond 10% of CTUIL's estimated cost, (2) Where the IA cost arrived at by the implementing agency exceeds 100 cr. for a transmission scheme awarded by CTUIL.

4.4.3 The matter was deliberated in NCT and it was decided that the following procedure shall be followed by CTUIL in case variation of DPR cost is beyond 10% of CTUIL's estimated cost.

- a. Within 30 days of the allocation of the project/scheme by CTUIL, the Transmission Licensee (TSP) shall intimate the DPR cost alongwith break-up of cost estimate including compensation cost with supporting documents to CTUIL.
- b. CTUIL shall analyse the DPR cost as submitted by TSP and may ask for further clarification along with supporting documents as required within 7 days' time. TSP shall furnish the requisite details to CTUIL within another 7 days' time.
- c. CTUIL shall prepare a comparison statement of their original estimated cost vs Licensee's DPR cost. After due diligence, CTUIL shall revise the cost estimate of the ISTS project/scheme, if required and intimate the revised cost estimate to TSP



without any change in timeline of the project/scheme within 10 working days if the CTUIL revised cost estimate of ISTS project/scheme is less than Rs.100 Cr.

- d. If CTUIL revised cost estimate of ISTS project/scheme is greater than Rs. 100 Cr., then CTUIL shall bring up the scheme in the NCT as a fresh agenda.

4.5 Alignment of packages of Transmission Schemes

4.5.1 Rajasthan Ph-IV Part-2 (5.5 GW) scheme

4.5.1.1 Representative from CTUIL stated that in the 22nd meeting of NCT, the matter for alignment of Rajasthan Ph-IV Part-2 (5.5 GW) scheme was discussed wherein CTUIL informed that as per the Gazette notification, all the packages of Rajasthan Ph-IV Part-2 (5.5 GW) scheme packages i.e. Part A, B, C, D, E, F, H1, H2 to be aligned and awarded at same time. The H2 package (RTM) was later decided to be matched with H1 package. CTUIL further mentioned that Part C and Part-E were transferred to the successful bidder on 19.08.2024 (REC), Part-A was transferred to the successful bidder on 21.08.2024 (REC) whereas Part B and Part D were transferred to the successful bidder on 22.08.2024 (PFC). Matter was also discussed in 22nd NCT meeting held on 23.08.2024 wherein it was decided that RECPDCL may align its packages i.e. Part-A, C & E to Part-B & D (PFCCL) i.e. 22/08/24. However, above packages were not aligned.

4.5.1.2 It was further informed that CERC vide ROP for hearing dated 30/12/24 on TL petitions for above packages asked CTUIL to explore possibilities of amending the TSAs to align the SCOD of all five packages (A to E) with the concerned/relevant stakeholders and file an affidavit indicating outcome thereof within 2 weeks.

4.5.1.3 After deliberations, NCT agreed that the SCOD of Rajasthan Ph-IV Part-2 (5.5 GW) Part-A, C & E (RECPDCL) may be aligned to Part-B & D (PFCCL) i.e. SCOD-22/08/26 by amending the respective TSAs, as mentioned below. Further, the balance packages (Part-F, H1/H2) SCOD will be as per their already signed TSA/schedule.

Sl. No.	Name of Project	Name of successful bidder	SCOD as per present TSA	SCOD as per modified TSA
1.	Rajasthan Ph-IV Part-2 Part A	Rajasthan IV A Power transmission Ltd.	21.08.2026	22.08.2026
2.	Rajasthan Ph-IV Part-2 Part B	Sirohi Transmission Ltd.	22.08.2026	22.08.2026
3.	Rajasthan Ph-IV Part-2 Part C	Rajasthan IV C Power transmission Ltd.	19.08.2026	22.08.2026
4.	Rajasthan Ph-IV Part-2 Part D	Beawar - Mandsaur Transmission Ltd.	22.08.2026	22.08.2026
5	Rajasthan Ph-IV Part-2 Part E	Rajasthan IV E Power Transmission Ltd.	19.08.2026	22.08.2026
6	Rajasthan Ph-IV Part-2 Part F	Barmer I Transmission Ltd.	07.11.2026	NA
7	Rajasthan Ph-IV Part-2 Part H1	Rajasthan IV. H1 Power Transmission Ltd.	15.10.2026	NA



Annexure-I

List of participants of the 26th meeting of NCT

CEA:

1. Sh. Ghanshyam Prasad, Chairperson, CEA & Chairman, NCT
2. Sh. A.K. Rajput, Member (Power Systems)
3. Sh. Ishan Sharan, Chief Engineer (PSPA-I)
4. Sh. B.S. Bairwa, Chief Engineer (I/c) (PSPA-II)
5. Sh. Rahul Raj, Director (PSPA-II)
6. Ms. Priyam Srivastava, Deputy Director (PCD)
7. Sh. Pranay Garg, Deputy Director (PSPA-II)

MoP:

1. Sh. Om Kant Shukla, Director (Trans.)

MNRE:

1. Sh. Tarun Singh, Scientist E
2. Sh. Himanshu Prabhakar, Under Secretary

SECI:

1. Sh. Vineet Kumar, DGM
2. Sh. R.K. Agarwal, Consultant

NITI Ayog:

1. Sh. Manoj Kumar Upadhyay, Deputy Advisor

CTUIL:

1. Sh. Ashok Pal, COO
2. Sh. K K Sarkar, Sr GM
3. Sh. Rajesh Kumar, Sr GM
4. Sh. P.S. Das, Sr GM
5. Sh. Vikas Bagadia, Sr. GM
6. Sh. H.S. Kaushal, Senior GM
7. Sh. Kashish Bhambhani, GM
8. Sh. Pratyush Singh, DGM
9. Sh. Sandeep Kumawat, DGM
10. Sh. Mahendranath Malla, Chief Manager
11. Sh. Chinmay Sharma, Chief Manager

GRID India:

1. Ms. S Usha, ED (NLDC)
2. Sh. Priyam Jain, Chief Manager
3. Sh. Raj Kishan, Deputy Manager

RECPDCL



1. Sh. T.S.C Bosh, CEO
2. Sh. Satyaban Sahu, GM (Tech)

PFCCL

1. Sh. Manoj Rana, CEO
2. Sh. Sanjay Nayak, AVP
3. Sh. Navin Phogat, GM (Tech)
4. Sh. Rishab Jain, GM
5. Sh. Deepak Kumar, AM

POWERGRID

1. Sh. Naveen Srivastava, Director (Operation)
2. Sh. Doman Yadav, ED
3. Sh. Vishal Singh, GM

Expert Member

1. Sh. Ravinder Gupta, Ex Chief Engineer, CEA



Ref: CC/Comml./ER_351_TT_2023

Dated: 04.12.2024

Sh. Ashok Pal

COO

Central Transmisison Utility of India
Floors No. 5-10, Tower 1, Plot No. 16,
Institutional Area, Sector 32,
Gurugram, Haryana – 122001

Sub: Direction issued by CERC vide order dated 01.11.2024 in Tariff order 351/TT/2023- regarding.

Sir,

We are in reciept of tariff order dated 01.11.2024 issued by the Hon'ble CERC in the petition no. 351/TT/2023 regarding approval of transmissiosn tariff for the tariff period 2019-24 for the project "Eastern Region Expansion Scheme – XXVI" in Eastern Region (Annexure-A).

In the said tariff order, CERC has observed variation in the cost estimate viz. cost estimate for the subject project as per Invetsment approval is Rs. 32.10 crores against which the cost estimate considered by CTUIL while approving this scheme is Rs. 27.00 crores.

Further, CERC has mentioned that it is desirable to keep such variation in cost estimates to minimum and also directed CTUIL to put a precedure in place (in consultation with National Committee on Transmission {NCT}) for following cases:

- (a) where variation of IA cost vis-a-vis CTUIL estimate exceeds 10%.
- (b) where IA cost exceeds the CTUIL estimate by 100 crores.

In view of the above, the matter may kindly be taken up for perusal at your end and if found desirable, a brain storming session may be convened to address the issue.

Thanking you,

Yours faithfully,

Dilip Nagesh Rozekar

Executive Director (Commercial & Regulatory Cell)



C/CP/PA2122-10-0AW-IA028

January 25, 2022

MEMORANDUM**SUB: INVESTMENT APPROVAL FOR "EASTERN REGION EXPANSION SCHEME-XXVI (ERES-XXVI)"**

Investment approval for "EASTERN REGION EXPANSION SCHEME-XXVI (ERES-XXVI)" has been accorded by the Competent Authority on January 25, 2022 as per the details given below:

1. SCOPE OF PROJECT

Broad Scope of works:

(i) 1x500 MVA, 400/220 kV 3rd ICT along with associated bays at Ranchi (PG) S/s
400 kV

i) Transformer bays : 1 No.

ii) 500 MVA, 400/220 kV ICT: 1 No.

220 kV

Transformer bays : 1 No.

2. PROJECT COST & FUNDING

The estimated cost of the project based on September, 2021 price level is **₹32.10 crore** including IDC of **₹0.92 crore**. The abstract cost estimate is attached as **Annexure - I**.

The project is proposed to be implemented through Debt (70%) and Equity (30%) with loan component from domestic borrowing/ bonds/ External Commercial Borrowing (ECB) etc. and equity component through internal resources.

3. COMMISSIONING SCHEDULE

The project is scheduled to be commissioned by February, 2023.


(Priti Nahar)
DGM (CP)



Annexure – I

ABSTRACT COST ESTIMATE		
Eastern Region Expansion Scheme-XXVI (ERES-XXVI)		
(September 2021 price level)		
Sl. No.	DESCRIPTION	AMOUNT (Rs. in crore)
A	Civil Works	
	i) Infrastructure for substations	0.20
B	Equipment Cost	
	a) Substations	27.21
	Sub Total (A TO B)	27.41
C	Incidental Expenditure During construction (IEDC) @ 10.75% of C	2.95
D	Contingencies @ 3% of C	0.82
	Sub Total (A TO D)	31.18
E	Interest During Construction (IDC)	0.92
	GRAND TOTAL	32.10



वितरण /Distribution:

1. Chairman, BSEB, Bidyut Bhawan, Bailey Road, Patna – 800 001
2. Chairman, WBSEB, Bidyut Bhawan, Bidhan Nagar, Block- DJ, Sector-II, Salt Lake City, Kolkata – 700 091
3. Chairman, Jharkhand UrjaVikas Nigam Ltd. Ranchi, Engineering Building, H.E.C Dhurwa, Ranchi – 834 004
4. Secretary (Power), Power Department, Govt. of Sikkim, Gangtok – 727 102
5. CMD, GRIDCO, Vidyut Bhawan, Janpath, Bhubaneswar – 751 007
6. CMD, Power System Operation Corporation Limited, B-9 (1st Floor), Qutab Institutional Area, Katwaria Sarai, New Delhi -11001

प्रति विनम्र सूचनार्थ /Copy for kind information, please:

1. PS to Secretary (Power), MoP, Shram Shakti Bhawan, New Delhi- 110 001
2. PS to Addl. Secretary & Financial Advisor, MoP, Shram Shakti Bhawan, New Delhi- 110 001
3. Chairperson, CEA, Sewa Bhawan, R.K. Puram, New Delhi- 110 066
4. Secretary, CERC, 3rd & 4th Floor, Chanderlok building, 36, Janpath, New Delhi- 110 001
5. CEO, NITI Aayog, Yojana Bhawan, New Delhi- 110 001
6. Advisor, PAMD, NITI Aayog, Yojana Bhawan, New Delhi
7. Member Secretary, NRPC, 18/A, Shaheed Jeet Singh Sansanwal Marg, Katwaria Sarai, New Delhi- 110 016
8. Member (Power Systems), CEA, Sewa Bhawan, R.K.Puram, New Delhi- 110 066
9. Secretary, CEA, Sewa Bhawan, R.K.Puram, New Delhi- 110 066 – 03 copies
10. Joint Secretary, Ministry of Statistics & Programme Implementation, Sardar Patel Bhawan, New Delhi-110001
11. Joint Secretary (Transmission), MoP, Shram Shakti Bhawan, New Delhi- 110 001
12. Joint Secretary (Plan Finance Div.-II), Ministry of Finance, North Block, New Delhi- 110 001
13. Director (Transmission), MoP, Shram Shakti Bhawan, New Delhi- 110 001
14. Director, Ministry of Finance (Plan finance Div.), North Block, New Delhi- 110 001
15. Deputy Secretary, Cabinet Secretariat, Rashtrapati Bhawan, New Delhi- 110 001
16. Under Secretary, Finance & Budget Section, MoP, Shram Shakti Bhawan, New Delhi- 110 001
17. CMD, Power System Operation Corporation Limited, B-9 (1st Floor), Qutab Institutional Area, Katwaria Sarai, New Delhi -11001


(Priti Nahar)
DGM (CP)



सेंट्रल ट्रांसमिशन यूटिलिटी ऑफ इंडिया लिमिटेड
CENTRAL TRANSMISSION UTILITY OF INDIA LIMITED
 (Wholly Owned Subsidiary of Power Grid Corporation of India Limited)
 (A Government of India Enterprise)

Ref.: C/CTU/AI/00/1st CCTP

16th November 2021

OFFICE MEMORANDUM

Sub: Inter State Transmission Schemes (costing up to Rs.100 Cr.) to be taken up for implementation under Regulated Tariff Mechanism (RTM).

The undersigned is directed to inform that CTU has approved implementation of the following ISTS costing less than or equal to Rs.100 Cr. in line with MoP office order dated 28.10.2021 under the Regulated Tariff Mechanism (RTM) mode by the implementing agencies as indicated in the table below:

Sl.	Name of scheme	Implementing Agency
Northern Region		
1.	Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS	Bikaner-II Bhiwadi Transco Ltd. (a subsidiary of Power Grid Corporation of India Ltd.) [now known as POWERGRID Bikaner Transmission System Ltd.]
2.	Augmentation of transformation capacity at 400/220 kV Ludhiana (PG) Substation	Power Grid Corporation of India Ltd.
3.	Augmentation of Transformation capacity at 400/220 kV Kurukshetra (PG) & Patiala (PG) Substations	Power Grid Corporation of India Ltd.
Southern Region		
4.	Requirement of 765 kV spare (1-Ph) Reactors unit at 765kV Warangal New (Part-A)	Warora Kurnool Transmission Ltd. (a subsidiary of Adani Transmission Ltd.)
5.	Requirement of 765 kV spare (1-Ph) Reactors unit at 765kV Chilkaluripeta (Part-B)	POWERGRID Southern Interconnector Transmission System Ltd. (a subsidiary of Power Grid Corporation of India Ltd.)
6.	Scheme to bypass NGR to use Switchable Line Reactor as Bus Reactor at 765kV Chilkaluripeta	POWERGRID Southern Interconnector Transmission System Ltd. (a subsidiary of Power Grid Corporation of India Ltd.)
7.	1 no. 400 kV bay at 765/400 kV Kurnool (New) Substation	Power Grid Corporation of India Ltd.
Eastern Region		
8.	Eastern Region Expansion Scheme-XXVI (ERES-XXVI)	Power Grid Corporation of India Ltd.
North Eastern Region		
9.	Additional scope under NERSS-XIII scheme	Power Grid Corporation of India Ltd.



Western Region

10.	Transmission Network Expansion in Gujarat to increase its ATC from ISTS (Part-A)	Power Grid Corporation of India Ltd.
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Detailed scope of works for the above schemes, as approved by CTU are given at **Annexure-I**.

Respective agencies shall enter into concession agreement with CTU for implementation of the above-mentioned schemes through Regulated Tariff Mechanism (RTM).

This issues with the approval of Competent Authority.



(Partha Sarathi Das)
Sr. General Manager

Encl: as stated.



To:

1. Director (Projects) Power Grid Corporation of India Ltd., Saudamini, Plot No. 2, Sector-29, Gurgaon- 122 001	2. CEO M/s POWERGRID Southern Interconnector Transmission Ltd. (PSITL) (a subsidiary of Power Grid Corporation of India Ltd.) B-9, Qutub Institutional Area, Katwaria Sarai, New Delhi – 110016
3. Shri Ajit Ranjan N R Das Project Incharge M/s Bikaner-II Bhiwadi Transco Ltd. (BBTL) (a subsidiary of Power Grid Corporation of India Ltd.) [POWERGRID Bikaner Transmission System Limited] C/o ED (TBCB) Power Grid Corporation of India Ltd. Saudamini, Plot No. 2, Sector-29, Gurgaon- 122 001	4. Shri Ankesh Kumar M/s Warora Kurnool Transmission Ltd. (WKTL) (a subsidiary of Adani Transmission Ltd.) Adani Corporate House, Shantigram, S.G. Highway, Ahmedabad -382421

Copy to:

1. Sh. Ishan Sharan Chief Engineer & Member Secretary (NCT) Central Electricity Authority Sewa Bhawan, R.K.Puram, New Delhi-110 066.	2. Sh. Goutam Ghosh Director (Trans) Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi 110 001
--	--



Annexure-I**Northern Region:****1. Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS**

S. No.	Scope of the Transmission Scheme	Capacity	Implementation timeframe
1.	2x500MVA, 400/220 kV ICT at Bikaner-II PS	400/220 kV, 500 MVA ICT –2 nos. 400 kV ICT bays – 2 nos. 220 kV ICT bays – 2 nos.	ICT-I: Mar' 2023 ICT-II: Apr' 2023
2.	4 nos. 220 kV line bays	220 kV line bays - 4 nos.	1 no. of bay: Mar' 2023 1 no. of bay: Apr' 2023 2 no. of bays: Dec' 2023
Total Estimated Cost:		70 Cr.	

2. Augmentation of transformation capacity at 400/220 kV Ludhiana (PG) Substation:

S. No.	Scope of the Transmission Scheme	Capacity	Implementation timeframe
1	Replacement of 1x315 MVA, 400/220 kV ICT by 1x500 MVA, 400/220kV ICT at Ludhiana (PG) S/s	400/220 kV, 500 MVA ICT – 1 no.	15 months from issue of OM by CTU
Total Estimated Cost		14 Cr.	

3. Augmentation of Transformation capacity at 400/220 kV Kurukshetra (PG) & Patiala (PG) Substations:

S. No.	Scope of the Transmission Scheme	Capacity	Implementation timeframe
1	1x 500 MVA, 400/220 kV ICT at Kurukshetra (PG) S/s	400/220kV 500 MVA ICT:1 no 400 kV ICT bay – 1 no. 220 kV ICT bay – 1 no.	15 months from issue of OM by CTU
2	1x 500 MVA, 400/220 kV ICT at Patiala (PG) S/s	400/220kV 500 MVA ICT:1 no 400 kV ICT bay – 1 no. 220 kV ICT bay – 1 no.	May'23
Total Estimated Cost		54 Cr.	



	765 kV D/c line at Chilkaluripeta 765 kV S/s..		
	Total Estimated Cost (Rs Lakhs)	32 Lakhs (approx.)	

7. 1 no. 400 kV bay at 765/400 kV Kurnool (New) Substation

Sl. No	Scope of the Transmission Scheme	Capacity /km	Implementation timeframe
1	1 no. of 400 kV bay at 765/400 kV Kurnool (New)	400kV line bay-1 no	Oct'22
	Total Estimated Cost (Rs Crores)	9 Cr.	

Eastern Region

8. Eastern Region Expansion Scheme-XXVI (ERES-XXVI):

Sl. No.	Scope of the Transmission Scheme	Capacity /km	Implementation timeframe
1.	Installation of 500 MVA. 400/220kV ICT (3 rd) at Ranchi (PG)	400/220 kV, 500 MVA ICT- 1 no. 400 kV ICT bays- 1 nos. 220 kV ICT bays- 1 nos.	15 months from issue of OM by CTU
	Total Estimated Cost (Rs. Crore)	27 Cr.	

North Eastern Region

9. Additional scope under NERSS-XIII scheme

Sl. No.	Scope of the Transmission Scheme	Capacity /km	Implementation timeframe
1.	CT of 132kV Imphal (POWERGRID) – Imphal (Manipur) bay-2 to be upgraded to 1200 A at Imphal (POWERGRID) S/s	NIL	In matching timeframe to SCOD of NERSS-XIII, i.e. Sep'2022
	Total Estimated Cost (Rs. Lakhs)	10 lakhs (approx.)	



Approved Shutdown list for the month of April'23

ENCL 3--

1(A)

Sr. No	Request Type	Name of Requesting Agency	Element Name	Daily/ Continuous	Reason	From Date	From Time	To Date	To Time	Shutdown Creation Date	Approval Date	Time taken Calculated
1	NON-OCC	WBSETCL	400KV-MEDINIPUR-NEW CHANDITALA-2	D	Tree Trimming between TL: 295-296-297.	01-04-2023	07:00	01-04-2023	10:00	29-03-2023 15:13	31-03-2023 10:17	43.07
2	NON-OCC	WBSETCL	400KV-MEDINIPUR-NEW CHANDITALA-1	D	Tree Trimming between TL: 295-296-297.	01-04-2023	11:00	01-04-2023	15:00	29-03-2023 15:13	31-03-2023 10:17	43.07
3	OCC	ER-II	400KV-BAHARAMPUR-BHERAMARA-3	D	Replacement of Damage(blackish) Insulator due to lightening.	01-04-2023	09:00	01-04-2023	17:00	29-03-2023 10:29	31-03-2023 11:55	49.43
4	OCC	NRLDC	A/R OF 400KV-NAUBATPUR(BH)-BALIA-1	D	For Installation of OPGW work.	01-04-2023	07:00	01-04-2023	18:00	28-03-2023 13:02	30-03-2023 10:53	45.85
5	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-PUSAULI-1	D	OPGW installation work	01-04-2023	07:00	01-04-2023	17:00	28-03-2023 16:09	30-03-2023 10:53	42.73
6	OCC	ER-I	A/R OF 400KV-PUSAULI(PG)-NABINAGAR(BRBCL)-2	D	OPGW installation work	01-04-2023	08:30	01-04-2023	17:00	28-03-2023 16:34	30-03-2023 10:53	42.32
7	OCC	PG (ODISHA PROJECT)	400KV/220KV 315 MVA ICT 3 AT ROURKELA	C	For attending Oil Mixing from OLTC to Main Tank of ICT#3	01-04-2023	09:00	04-04-2023	17:00	29-03-2023 15:49	31-03-2023 10:23	42.57
8	OCC	ER-I	A/R OF 765KV-GAYA-VARANASI-2	D	FOR OPGW INSTALLATION WORK	01-04-2023	07:00	01-04-2023	17:00	29-03-2023 17:02	30-03-2023 10:53	17.85
9	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-BANKA(PG)-2	D	For OPGW installation Work	01-04-2023	07:00	01-04-2023	17:00	28-03-2023 11:39	30-03-2023 10:53	47.23
10	OCC	ER-II	A/R OF 400KV-DURGAPUR-SAGARDIGHI-1	D	For OPGW installation Work	01-04-2023	07:00	01-04-2023	17:00	30-03-2023 11:32	31-03-2023 10:23	22.85
11	NON-OCC	ER-II	400KV-KISHANGANJ-RANGPO-2	D	For Installation of OPGW	01-04-2023	07:00	01-04-2023	17:00	30-03-2023 11:38	31-03-2023 10:23	22.75
12	OCC	WRLDC	A/R OF 765KV-NEW RANCHI-DHARAMJAIGARH-1	D	FOR OPGW ERECTION WORKS by POWERGRID	01-04-2023	07:00	01-04-2023	18:00	29-03-2023 11:12	31-03-2023 10:26	47.23
13	OCC	ER-I	A/R OF 400KV-KHSTPP-BARH-2	D	For OPGW rectification work	01-04-2023	07:00	01-04-2023	17:00	29-03-2023 18:00	31-03-2023 17:14	47.23
14	EMERGENCY	ER-II	400KV-BAHARAMPUR-SAGARDIGHI-2	D	For replacement of damaged insulator due to lightning	02-04-2023	08:00	02-04-2023	14:00	30-03-2023 22:32	01-04-2023 21:46	47.23
15	OCC	ER-II	400KV-BAHARAMPUR-BHERAMARA-3	D	Replacement of Damage(blackish) Insulator due to lightening.	02-04-2023	09:00	02-04-2023	17:00	26-03-2023 10:29	28-03-2023 10:29	48.00
16	OCC	NRLDC	A/R OF 400KV-NAUBATPUR(BH)-BALIA-1	D	For Installation of OPGW work.	02-04-2023	07:00	02-04-2023	18:00	29-03-2023 13:02	31-03-2023 11:16	46.23
17	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-PUSAULI-1	D	OPGW installation work	02-04-2023	07:00	02-04-2023	17:00	29-03-2023 16:09	31-03-2023 11:16	43.12
18	OCC	ER-I	A/R OF 400KV-PUSAULI(PG)-NABINAGAR(BRBCL)-2	D	OPGW installation work	02-04-2023	08:30	02-04-2023	17:00	29-03-2023 16:34	31-03-2023 11:16	42.70
19	OCC	ER-I	A/R OF 765KV-GAYA-VARANASI-2	D	FOR OPGW INSTALLATION WORK	02-04-2023	07:00	02-04-2023	17:00	27-03-2023 16:12	29-03-2023 16:20	48.13
20	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-BANKA(PG)-2	D	For OPGW installation Work	02-04-2023	07:00	02-04-2023	17:00	30-03-2023 10:27	31-03-2023 11:16	24.82
21	OCC	ER-I	220KV MAIN BUS - 1 AT RANCHI	D	DISCONNECTION OF JUMPER FOR EQUIPMENT ERECTION IN 211 MAIN BAY WHICH IS UNDER CONSTRUCTION	02-04-2023	09:00	02-04-2023	13:00	30-03-2023 10:43	31-03-2023 11:24	24.68

पिंकी देबनाथ

(Pinki Debnath)
Ch Manager



मा. दसा

(Manas Das)
Dy General Manager

99	OCC	GRIDCO	A/R OF 220KV-PANDIABILI-SAMANGARA-2	D	OPGW Stringing	06-04-2023	07:00	06-04-2023	17:00	03-04-2023 12:26	05-04-2023 10:01	45.58
100	OCC	GRIDCO	A/R OF 220KV-PANDIABILI-SAMANGARA-1	D	OPGW Stringing	06-04-2023	07:00	06-04-2023	17:00	03-04-2023 12:28	05-04-2023 10:01	45.55
101	OCC	BSPTCL	132KV-KATAYA-KUSAHA-1	D	For line & bay maintenance work	06-04-2023	08:00	06-04-2023	16:00	03-04-2023 17:26	05-04-2023 13:26	44.00
102	OCC	GRIDCO	400KV/220KV 315 MVA ICT 3 AT MENDHASAL	D	Repairing & checking of aircell of conservator tank	06-04-2023	09:00	06-04-2023	17:00	02-04-2023 16:18	04-04-2023 15:32	47.23
103	OCC	ER-II	400KV-BINAGURI-MALBASE-3	D	FOR INSULATOR STRING REPLACEMENT	06-04-2023	09:00	06-04-2023	17:00	03-04-2023 11:28	05-04-2023 10:28	47.00
104	NON-OCC	ER-II	400KV/220KV 500 MVA ICT 3 AT MAITHON(PG)	D	For safety measure to passing the Vehicle carrying 500MVA Spare ICT under 220kV Side of ICT-3.	06-04-2023	10:00	06-04-2023	12:00	03-04-2023 15:27	05-04-2023 16:47	49.33
105	OCC	NRLDC	A/R OF 400KV-NAUBATPUR(BH)-BALIA-1	D	For Installation of OPGW work.	06-04-2023	07:00	06-04-2023	18:00	03-04-2023 13:02	05-04-2023 10:00	44.97
106	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-PUSAULI-1	D	OPGW installation work	06-04-2023	07:00	06-04-2023	17:00	03-04-2023 16:09	05-04-2023 10:00	41.85
107	OCC	ER-I	A/R OF 400KV-PUSAULI(PG)-NABINAGAR(BRBCL)-2	D	OPGW installation work	06-04-2023	08:30	06-04-2023	17:00	03-04-2023 16:34	05-04-2023 10:00	41.43
108	OCC	ER-I	A/R OF 765KV-GAYA-VARANASI-2	D	FOR OPGW INSTALLATION WORK	06-04-2023	07:00	06-04-2023	17:00	03-04-2023 16:20	05-04-2023 13:26	45.10
109	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-BANKA(PG)-2	D	For OPGW installation Work	06-04-2023	07:00	06-04-2023	17:00	03-04-2023 10:27	05-04-2023 10:00	47.55
110	OCC	ER-II	A/R OF 400KV-DURGAPUR-SAGARDIGHI-1	D	For OPGW installation Work	06-04-2023	07:00	06-04-2023	17:00	03-04-2023 11:32	05-04-2023 10:00	46.47
111	NON-OCC	ER-II	400KV-KISHANGANJ-RANGPO-2	D	For Installation of OPGW	06-04-2023	07:00	06-04-2023	17:00	03-04-2023 11:38	05-04-2023 10:06	46.47
112	OCC	MBPCL	RONGNICHU - 220KV - BUS 1	D	Switchyard equipment cleaning work.	06-04-2023	08:00	06-04-2023	17:00	03-04-2023 17:06	05-04-2023 10:23	41.28
113	OCC	MBPCL	220KV-RONGNICHU-RANGPO-1	D	Switchyard equipment cleaning work.	06-04-2023	08:00	06-04-2023	17:00	03-04-2023 12:09	05-04-2023 10:06	45.95
114	OCC	WBSETCL	400KV-KHARAGPUR-KOLAGHAT-1	D	Tree Trimming & maintenance Work	06-04-2023	06:00	06-04-2023	15:00	03-04-2023 12:18	05-04-2023 10:06	45.80
115	OCC	WRLDC	A/R OF 765KV-NEW RANCHI-DHARAMJAIGARH-1	D	FOR OPGW ERECTION WORKS by POWERGRID	06-04-2023	07:00	06-04-2023	18:00	03-04-2023 11:31	05-04-2023 10:00	46.48
116	OCC	ER-I	A/R OF 400KV-KHSTPP-BARH-2	D	For OPGW rectification work	06-04-2023	07:00	06-04-2023	17:00	03-04-2023 17:12	05-04-2023 10:00	40.80
117	OCC	ER-II	400KV-JEERAT-NEW JEERAT-2	D	Replacement of defective CLR insulators	07-04-2023	08:00	07-04-2023	17:00	04-04-2023 16:38	06-04-2023 09:56	41.30
118	OCC	GRIDCO	A/R OF 220KV-PANDIABILI-SAMANGARA-2	D	OPGW Stringing	07-04-2023	07:00	07-04-2023	17:00	04-04-2023 12:26	06-04-2023 10:02	45.60
119	OCC	GRIDCO	A/R OF 220KV-PANDIABILI-SAMANGARA-1	D	OPGW Stringing	07-04-2023	07:00	07-04-2023	17:00	04-04-2023 12:28	06-04-2023 10:02	45.57
120	OCC	ER-I	400KV TIE BAY OF DHANBAD-1 AND FUTURE AT RANCHI	C	ICT-3 MAIN BAY EQUIPEMENT ERECTION	07-04-2023	09:00	14-04-2023	17:00	04-04-2023 11:44	06-04-2023 10:02	46.30
121	NON-OCC	WBSETCL	400KV MAIN BUS - 2 AT GOKARNA	D	For operation checking and Testing of 89B PG Isolator of ICT-3	07-04-2023	08:00	07-04-2023	16:00	04-04-2023 12:58	06-04-2023 09:56	44.97
122	OCC	ER-II	400KV-RANGPO-TEESTA - III-1	D	FOR OPGW INSTALLATION WORK	07-04-2023	07:00	07-04-2023	17:00	05-04-2023 10:44	06-04-2023 09:56	23.20
123	OCC	WBSETCL	400KV-NEW PPSP-ARAMBAGH-1	D	Tree trimming work	07-04-2023	06:00	07-04-2023	15:00	04-04-2023 10:42	06-04-2023 09:56	47.23
124	NON-OCC	GRIDCO	220KV-BOLANGIR(PG)-SADEIPALI-1	D	Relay testing at Sadaeipali.	07-04-2023	10:30	07-04-2023	13:30	04-04-2023 12:25	06-04-2023 13:25	49.00
125	NON-OCC	ER-I	A/R OF 400KV-MAITHON-GAYA-1	D	Rectification of Earth-wire suspension clamp	07-04-2023	08:00	07-04-2023	17:00	04-04-2023 14:11	06-04-2023 13:25	47.23
126	OCC	NRLDC	A/R OF 400KV-NAUBATPUR(BH)-BALIA-1	D	For Installation of OPGW work.	07-04-2023	07:00	07-04-2023	18:00	04-04-2023 13:02	06-04-2023 09:51	44.82
127	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-PUSAULI-1	D	OPGW installation work	07-04-2023	07:00	07-04-2023	17:00	04-04-2023 16:09	06-04-2023 09:51	41.70
128	OCC	ER-I	A/R OF 400KV-PUSAULI(PG)-NABINAGAR(BRBCL)-2	D	OPGW installation work	07-04-2023	08:30	07-04-2023	17:00	04-04-2023 16:34	06-04-2023 09:51	41.28

पिंकी देबनथ

(Pinki Debnath)
Ch Manager



मानस दास

(Manas Das)
Dy General Manager

1(A)

SD OF 400KV TIE BAY OF DHANBAD-1 AND FUTURE AT RANCHI FROM 07.04.23 TO
14.04.23

RTAMCPatna <rtamcer1@powergrid.co.in>

Tue 04/04/2023 10:49

To: Babru Bahan Nanda (बब्रु बाहन नन्द) <babru@powergrid.in>

Cc: Ankur Kumar (अंकुर कुमार) <ankur@powergrid.in>; Hansraj Prasad (हंसराज प्रसाद)

<hansraj@powergrid.in>; Shabbir Ahamad Ansari (शब्बीर अहमद अंसारी)

<shabbirahamadansari@powergrid.in>; Pandi Krishnan N (पाण्डी कृष्णन एन.)

<pandikrishnan.n@powergrid.in>; Angsujit Bhattacharya (ए. भट्टाचार्य) <angsujit@powergrid.in>

REGARDS

RTAMC PAINA

MOB-9771413600, 8544401068

From: erldcoutagenotification@grid-india.in

To: "RTAMCPatna" <rtamcer1@powergrid.co.in>

Cc: erldcoutage@grid-india.in

Sent: Tuesday, April 4, 2023 10:39:04 AM

Subject: Status Of Shutdown Request For - 400KV TIE BAY OF DHANBAD-1 AND FUTURE AT RANCHI starting from 4/7/2023 9:00:00 AM

Respected Sir / Madam,

It is to inform you that the shutdown request for this element has been Submitted. The summary for this outage is given below-

Name of Requesting Agency	ER-I
Element Name	400KV TIE BAY OF DHANBAD-1 AND FUTURE AT RANCHI
Nature of Shutdown	OCC
Type	OCB
Requested Shutdown Date	07-04-2023 09:00 - 14-04-2023 18:00
Reason	ICT-3 MAIN BAY EQUIPEMENT ERECTION IN 409 BAY (UNDER CONSTRUCTION HEAD)
Requester Remarks	

Regards,
ERLDC Outage

****This is a system generated notification mail. Please do not reply to this.**

****For any query, please reply to erldcoutage@grid-india.in**

Follow Grid-India on:

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4(B)

Outlook

FW: FW: D-3 S/D approval of 220KV Main BUS-II on 18.04.2023 at Ranchi S/S for ICT-3 Bay extension work under ERSS-XXVI

From erldcoutage@grid-india.in <erldcoutage@grid-india.in>

Date Mon 17/04/2023 19:03

To ankur@powergrid.in <ankur@powergrid.in>; RTAMCPatna <rtamcer1@powergrid.co.in>

For info and na please.

सादर धन्यवाद / Thanks & Regards,

ईआरएलडीसी आउटेज टीम / ERLDC Outage Team

पू.क्षे.भार.प्रे.के. / Eastern Regional Load Despatch Centre

ग्रिड कंट्रोलरऑफ इंडिया लिमिटेड

Grid Controller of India Limited

formerly Power System Operation Corporation Ltd. (POSOCO)



ग्रिड-इंडिया
GRID-INDIA

From: SLDC,JSEB Ranchi <sldcranchi@gmail.com>

Sent: 17 April 2023 18:35

To: ERLDC Outage <erldcoutage@grid-india.in>; ERLDC Posoco Kolkata <erldc.cal@gmail.com>

Cc: RTAMC Patna <rtamcer1@powergrid.co.in>

Subject: Re: FW: D-3 S/D approval of 220KV Main BUS-II on 18.04.2023 at Ranchi S/S for ICT-3 Bay extension work under ERSS-XXVI

****Warning****

This email has not originated from Grid-India. Do not click on attachment or links unless sender is reliable. Malware/ Viruses can be easily transmitted via email.

Sir,

The state system is at an all time high. At this time, the load at ranchi is approx 350 MW so high system redundancy is required.

Hence the said S/D may be deferred till peak summer season.

On Mon, Apr 17, 2023 at 6:27 PM ERLDC Outage <erldcoutage@grid-india.in> wrote:

Sir/Madam,

For your consent please.

सादर धन्यवाद / Thanks & Regards,

ईआरएलडीसी आउटेज टीम / ERLDC Outage Team

पू.क्षे.भार.प्रे.के. / Eastern Regional Load Despatch Centre

ग्रिड कंट्रोलरऑफ इंडिया लिमिटेड

Grid Controller of India Limited

formerly Power System Operation Corporation Ltd. (POSOCO)



ग्रिड-इंडिया
GRID-INDIA



Approved Shutdown list for the month of April'23

Sr. No	Request Type	Name of Requesting Agency	Element Name	Daily/ Continuous	Reason	From Date	From Time	To Date	To Time	Shutdown Creation Date	Approval Date	Time taken Calculated
1	NON-OCC	WBSETCL	400KV-MEDINIPUR-NEW CHANDITALA-2	D	Tree Trimming between TL: 295-296-297.	01-04-2023	07:00	01-04-2023	10:00	29-03-2023 15:13	31-03-2023 10:17	43.07
2	NON-OCC	WBSETCL	400KV-MEDINIPUR-NEW CHANDITALA-1	D	Tree Trimming between TL: 295-296-297.	01-04-2023	11:00	01-04-2023	15:00	29-03-2023 15:13	31-03-2023 10:17	43.07
3	OCC	ER-II	400KV-BAHARAMPUR-BHERAMARA-3	D	Replacement of Damage(blackish) Insulator due to lightening.	01-04-2023	09:00	01-04-2023	17:00	29-03-2023 10:29	31-03-2023 11:55	49.43
4	OCC	NRLDC	A/R OF 400KV-NAUBATPUR(BH)-BALIA-1	D	For Installation of OPGW work.	01-04-2023	07:00	01-04-2023	18:00	28-03-2023 13:02	30-03-2023 10:53	45.85
5	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-PUSAULI-1	D	OPGW installation work	01-04-2023	07:00	01-04-2023	17:00	28-03-2023 16:09	30-03-2023 10:53	42.73
6	OCC	ER-I	A/R OF 400KV-PUSAULI(PG)-NABINAGAR(BRBCL)-2	D	OPGW installation work	01-04-2023	08:30	01-04-2023	17:00	28-03-2023 16:34	30-03-2023 10:53	42.32
7	OCC	PG (ODISHA PROJECT)	400KV/220KV 315 MVA ICT 3 AT ROURKELA	C	For attending Oil Mixing from OLTC to Main Tank of ICT#3	01-04-2023	09:00	04-04-2023	17:00	29-03-2023 15:49	31-03-2023 10:23	42.57
8	OCC	ER-I	A/R OF 765KV-GAYA-VARANASI-2	D	FOR OPGW INSTALLATION WORK	01-04-2023	07:00	01-04-2023	17:00	29-03-2023 17:02	30-03-2023 10:53	17.85
9	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-BANKA(PG)-2	D	For OPGW installation Work	01-04-2023	07:00	01-04-2023	17:00	28-03-2023 11:39	30-03-2023 10:53	47.23
10	OCC	ER-II	A/R OF 400KV-DURGAPUR-SAGARDIGHI-1	D	For OPGW installation Work	01-04-2023	07:00	01-04-2023	17:00	30-03-2023 11:32	31-03-2023 10:23	22.85
11	NON-OCC	ER-II	400KV-KISHANGANJ-RANGPO-2	D	For Installation of OPGW	01-04-2023	07:00	01-04-2023	17:00	30-03-2023 11:38	31-03-2023 10:23	22.75
12	OCC	WRLDC	A/R OF 765KV-NEW RANCHI-DHARAMJAIGARH-1	D	FOR OPGW ERECTION WORKS by POWERGRID	01-04-2023	07:00	01-04-2023	18:00	29-03-2023 11:12	31-03-2023 10:26	47.23
13	OCC	ER-I	A/R OF 400KV-KHSTPP-BARH-2	D	For OPGW rectification work	01-04-2023	07:00	01-04-2023	17:00	29-03-2023 18:00	31-03-2023 17:14	47.23
14	EMERGENCY	ER-II	400KV-BAHARAMPUR-SAGARDIGHI-2	D	For replacement of damaged insulator due to lightning	02-04-2023	08:00	02-04-2023	14:00	30-03-2023 22:32	01-04-2023 21:46	47.23
15	OCC	ER-II	400KV-BAHARAMPUR-BHERAMARA-3	D	Replacement of Damage(blackish) Insulator due to lightening.	02-04-2023	09:00	02-04-2023	17:00	26-03-2023 10:29	28-03-2023 10:29	48.00
16	OCC	NRLDC	A/R OF 400KV-NAUBATPUR(BH)-BALIA-1	D	For Installation of OPGW work.	02-04-2023	07:00	02-04-2023	18:00	29-03-2023 13:02	31-03-2023 11:16	46.23
17	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-PUSAULI-1	D	OPGW installation work	02-04-2023	07:00	02-04-2023	17:00	29-03-2023 16:09	31-03-2023 11:16	43.12
18	OCC	ER-I	A/R OF 400KV-PUSAULI(PG)-NABINAGAR(BRBCL)-2	D	OPGW installation work	02-04-2023	08:30	02-04-2023	17:00	29-03-2023 16:34	31-03-2023 11:16	42.70
19	OCC	ER-I	A/R OF 765KV-GAYA-VARANASI-2	D	FOR OPGW INSTALLATION WORK	02-04-2023	07:00	02-04-2023	17:00	27-03-2023 16:12	29-03-2023 16:20	48.13
20	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-BANKA(PG)-2	D	For OPGW installation Work	02-04-2023	07:00	02-04-2023	17:00	30-03-2023 10:27	31-03-2023 11:16	24.82
21	OCC	ER-I	220KV MAIN BUS - 1 AT RANCHI	D	DISCONNECTION OF JUMPER FOR EQUIPMENT ERECTION IN 211 MAIN BAY WHICH IS UNDER CONSTRUCTION	02-04-2023	09:00	02-04-2023	13:00	30-03-2023 10:43	31-03-2023 11:24	24.68

पिंकी देबनाथ

(Pinki Debnath)
Ch Manager

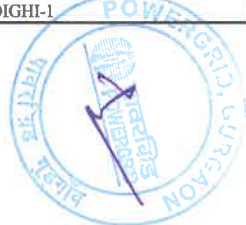
मा. दसा

(Manas Das)
Dy General Manager

459	OCC	ER-II	132KV-MELLI-SILIGURI-1	D	Sag Rectification work due to hill sinking at Span Loc.126-127	18-04-2023	09:00	18-04-2023	17:00	16-04-2023 16:22	17-04-2023 16:05	23.72
460	OCC	ER-I	765KV-GAYA-VARANASI-1	D	REPLACEMENT INSULATORS BY POLYMER INSULATOR AT MAJOR LOCATIONS	18-04-2023	09:00	18-04-2023	17:00	11-04-2023 14:36	13-04-2023 16:24	49.80
461	OCC	WRLDC	A/R OF 765KV-NEW RANCHI-DHARAMJAGARH-2	D	FOR OPGW ERECTION WORKS by POWERGRID	18-04-2023	07:00	18-04-2023	18:00	15-04-2023 15:40	17-04-2023 15:53	48.22
462	OCC	ER-I	400KV-NEW PURNEA-FARAKKA-1	D	TIGHTENING OF H/W FITTINGS & CLEANING OF INSULATOR	18-04-2023	08:00	18-04-2023	17:00	16-04-2023 09:38	17-04-2023 16:52	31.23
463	OCC	ER-I	A/R OF 400KV-MAITHON-KHSTPP-2	D	For OPGW installation Work under Strengthening of OPGW Network in ER Project	18-04-2023	08:00	18-04-2023	17:00	16-04-2023 13:02	17-04-2023 15:38	26.60
464	OCC	PG (ODISHA PROJECT)	A/R OF 400KV-RENGALI-INDRAVATI-1	D	Auto Recloser to be kept in Non Auto Mode during Polymer PID scanning	18-04-2023	06:00	18-04-2023	15:00	12-04-2023 18:12	14-04-2023 18:05	47.88
465	OCC	ER-II	220KV-CHUKHA-BIRPARA-1	D	TL LA installation work at various locations.	18-04-2023	08:00	18-04-2023	17:00	13-04-2023 01:10	14-04-2023 18:10	41.00
466	OCC	ER-I	A/R OF 400KV-ROURKELA-CHAIBASA-2	D	TO FACILITE THE S/D OF 400 KV JAMSHEDPUR CHAIBASA 2 ON SAME TOWER	18-04-2023	09:00	18-04-2023	17:00	15-04-2023 16:24	17-04-2023 15:38	47.23
467	OCC	PMTL	CHANDAUTI (PMTL) - 220KV - BUS 2	D	AMP WORK	18-04-2023	09:00	18-04-2023	17:00	15-04-2023 17:38	17-04-2023 16:52	47.23
468	OCC	PMTL	132KV MAIN BAY OF PUPRI-2 AT SITAMARHI	D	AMP WORK	18-04-2023	10:00	18-04-2023	17:00	16-04-2023 12:55	17-04-2023 16:47	27.87
469	OCC	ER-I	400KV TIE BAY OF (MUZAFFARPUR-I AND KISHANGANJ(PG)-II) AT NEW PURNEA	D	AMP WORK	18-04-2023	09:00	18-04-2023	17:00	16-04-2023 12:59	17-04-2023 16:13	27.23
470	OCC	JUSNL	220KV-CHANDIL-RANCHI-1	D	Genus meter (Sr No-ER 2203-A) to be installed and L&T meter to be removed.	18-04-2023	10:00	18-04-2023	16:00	16-04-2023 18:49	17-04-2023 16:47	21.97
471	OCC	ER-I	220KV MAIN BAY OF 315MVA ICT-II AT RANCHI	D	Disconnection of Jumper of LV Main Bay for Construction work of upcoming ICT-3 at 400kV Ranchi SS	18-04-2023	09:00	18-04-2023	17:00	15-04-2023 19:05	17-04-2023 16:05	45.00
472	OCC	WRLDC	A/R OF 220KV-BUDHIPADAR-KORBA-3	D	FOR OPGW ERECTION WORKS by POWERGRID alongwith 765KV-DHARAMJAGARH-RANCHI-1 & 2	18-04-2023	07:00	18-04-2023	18:00	15-04-2023 16:51	17-04-2023 16:05	47.23
473	EMERGENCY	DVC	400KV-KODERMA-BIHARSARIFF(PG)-2	D	for checking and replacement of single phase tripping relay(21XY1/XY2)	18-04-2023	12:00	18-04-2023	17:00	15-04-2023 18:06	17-04-2023 17:06	47.00
474	NON-OCC	GRIDCO	400KV/220KV 315 MVA ICT 1 AT MERAMANDALI	C	Mechanical & Electrical related work for the commissioning of Nitrogen Injected Fire Protection System(NIFPS) of the ICT.	18-04-2023	08:00	21-04-2023	17:00	15-04-2023 16:52	16-04-2023 16:06	23.23
475	OCC	NRLDC	A/R OF 400KV-NAUBATPUR(BH)-BALIA-1	D	For Installation of OPGW work.	18-04-2023	07:00	18-04-2023	18:00	16-04-2023 13:02	17-04-2023 15:38	26.60
476	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-PUSAULI-1	D	OPGW installation work	18-04-2023	07:00	18-04-2023	17:00	16-04-2023 13:02	17-04-2023 15:38	26.60
477	OCC	ER-I	A/R OF 400KV-PUSAULI(PG)-NABINAGAR(BRBL)-2	D	OPGW installation work	18-04-2023	08:30	18-04-2023	17:00	16-04-2023 13:02	17-04-2023 15:38	26.60
478	OCC	ER-I	A/R OF 765KV-GAYA-VARANASI-2	D	FOR OPGW INSTALLATION WORK	18-04-2023	07:00	18-04-2023	17:00	27-03-2023 16:43	29-03-2023 16:20	47.62
479	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-BANKA(PG)-2	D	For OPGW installation Work	18-04-2023	07:00	18-04-2023	17:00	16-04-2023 13:02	17-04-2023 15:38	26.60
480	OCC	ER-II	A/R OF 400KV-DURGAPUR-SAGARDIGHI-1	D	For OPGW installation Work	18-04-2023	07:00	18-04-2023	17:00	16-04-2023 13:02	17-04-2023 15:38	26.60

पिंकी देबनाथ

(Pinki Debnath)
Ch Manager



मानस दास

(Manas Das)
Dy General Manager

2(B)

Outlook

FW: FW: D-3 S/D approval of 220KV Main BUS-II on 18.04.2023 at Ranchi S/S for ICT-3 Bay extension work under ERSS-XXVI

From erldcoutage@grid-india.in <erldcoutage@grid-india.in>

Date Mon 17/04/2023 19:03

To ankur@powergrid.in <ankur@powergrid.in>; RTAMCPatna <rtamcer1@powergrid.co.in>

For info and na please.

सादर धन्यवाद / Thanks & Regards,

ईआरएलडीसी आउटेज टीम / ERLDC Outage Team

पू.क्ष.भार.प्रे.के. / Eastern Regional Load Despatch Centre

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड

Grid Controller of India Limited

formerly Power System Operation Corporation Ltd. (POSOCO)



ग्रिड-इंडिया
GRID-INDIA

From: SLDC, JSEB Ranchi <slsdranchi@gmail.com>

Sent: 17 April 2023 18:35

To: ERLDC Outage <erldcoutage@grid-india.in>; ERLDC Posoco Kolkata <erldc.cal@gmail.com>

Cc: RTAMC Patna <rtamcer1@powergrid.co.in>

Subject: Re: FW: D-3 S/D approval of 220KV Main BUS-II on 18.04.2023 at Ranchi S/S for ICT-3 Bay extension work under ERSS-XXVI

****Warning****

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Sir,

The state system is at an all time high. At this time, the load at ranchi is approx 350 MW so high system redundancy is required.

Hence the said S/D may be deferred till peak summer season.

On Mon, Apr 17, 2023 at 6:27 PM ERLDC Outage <erldcoutage@grid-india.in> wrote:

Sir/Madam,

For your consent please.

सादर धन्यवाद / Thanks & Regards,

ईआरएलडीसी आउटेज टीम / ERLDC Outage Team

पू.क्ष.भार.प्रे.के. / Eastern Regional Load Despatch Centre

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड

Grid Controller of India Limited

formerly Power System Operation Corporation Ltd. (POSOCO)



ग्रिड-इंडिया
GRID-INDIA



From: RTAMCPatna <rtamcer1@powergrid.co.in>

Sent: 17 April 2023 18:20

To: ERLDC Outage <erldcoutage@grid-india.in>

Subject: Fwd: D-3 S/D approval of 220KV Main BUS-II on 18.04.2023 at Ranchi S/S for ICT-3 Bay extension work under ERSS-XXVI

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Viruses can be easily transmitted via email.

REGARDS

RTAMC PATNA

MOB-9771413600, 8544401068

From: "RTAMCPatna" <rtamcer1@powergrid.co.in>

To: "erldcoutage" <erldcoutage@grid-india.in>, "erldcoutage" <erldcoutage@gmail.com>

Sent: Monday, April 17, 2023 6:15:18 PM

Subject: Fwd: D-3 S/D approval of 220KV Main BUS-II on 18.04.2023 at Ranchi S/S for ICT-3 Bay extension work under ERSS-XXVI

REGARDS

RTAMC PATNA

MOB-9771413600, 8544401068

From: "RTAMCPatna" <rtamcer1@powergrid.co.in>

To: "erldcoutage" <erldcoutage@grid-india.in>

Sent: Saturday, April 15, 2023 1:16:54 PM

Subject: Fwd: D-3 S/D approval of 220KV Main BUS-II on 18.04.2023 at Ranchi S/S for ICT-3 Bay extension work under ERSS-XXVI

R/sir,

As per trailing mail, kindly accord S/D of 220 kV Main Bus-2 at Ranchi SS on dtd 18.04.2023 from 09:30 hrs to 13:30 hrs.

REGARDS

RTAMC PATNA

MOB-9771413600, 8544401068

From: "pandikrishnan n" <pandikrishnan.n@powergrid.in>

To: "RTAMCPatna" <rtamcer1@powergrid.co.in>

Cc: rksaini@powergrid.in, angsujit@powergrid.in, shilpi@powergrid.in, "dilip prajapati" <dilip.prajapati@powergrid.in>, babru@powergrid.in, "s samanta" <s.samanta@powergrid.in>

Sent: Saturday, April 15, 2023 12:27:50 PM

Subject: Re: D-3 S/D approval of 220KV Main BUS-II on 18.04.2023 at Ranchi S/S for ICT-3 Bay extension work under ERSS-XXVI

Dear sir,

For your kind information that, the above shutdown was proposed on 02.04.2023 and due to construction activities, there was a delay in returning the permit of 220kV Bus-1 which was under shutdown on same day. The 220kV Bus-1 was charged at 17:29 Hrs and the shutdown of 220KV Bus-2 could not be able to avail on 02.04.2023. So, you are kindly requested to consider the request for shutdown of 220kV Bus-2 at Ranchi SS on 18.04.2023.

Regards,

N.Pandikrishnan



Approved Shutdown list for the month of May'23

3(A)

Sr. No	Request Type	Name of Requesting Agency	Element Name	Daily/ Continuous	Reason	From Date	From Time	To Date	To Time	Shutdown Creation Date	Approval Date	Time taken Calculated
1	OCC	BHUTAN	400KV-BINAGURI-TALA-4	D	Carrying out Field Efficiency test(FET) for THP unit- IV	01-05-2023	17:00	01-05-2023	23:00	29-04-2023 16:53	30-04-2023 16:07	23.23
2	NON-OCC	WBSETCL	A/R OF 400KV-KOLAGHAT-NEW CHANDITALA-1	D	OPGW installation work	01-05-2023	08:00	01-05-2023	17:00	27-04-2023 15:15	28-04-2023 15:30	24.25
3	NON-OCC	ER-I	A/R OF 400KV-NEW RANCHI-RANCHI-4	D	For PID testing	01-05-2023	08:00	01-05-2023	17:00	27-04-2023 10:34	28-04-2023 15:30	28.93
4	NON-OCC	ER-I	A/R OF 400KV-NEW RANCHI-RANCHI-3	D	For PID testing	01-05-2023	08:00	01-05-2023	17:00	27-04-2023 10:34	28-04-2023 15:30	28.93
5	NON-OCC	WBSETCL	A/R OF 400KV-ARAMBAGH-BAKRESWAR-1	D	OPGW installation work	01-05-2023	08:00	01-05-2023	17:00	26-04-2023 17:54	28-04-2023 15:30	45.60
6	OCC	DARLIPALI (NTPC)	262MVAR 765KV B/R-1 AT DARLIPALI (DSTPS)	C	ANNUAL TESTING OF BREAKER, CT, ISOLATOR, LA BUSHING OF REACTOR BAY AND ATTENDING SOME DEFECTS IN REACTOR.	01-05-2023	08:00	07-05-2023	17:00	28-04-2023 10:07	30-04-2023 10:07	48.00
7	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-PUSAULI-1	D	OPGW installation work	01-05-2023	07:00	01-05-2023	17:00	26-04-2023 16:16	28-04-2023 15:30	47.23
8	NON-OCC	ER-II	400KV-TEESTA-III-RANGPO-1	D	OPGW installation Work	01-05-2023	07:00	01-05-2023	16:00	26-04-2023 16:46	28-04-2023 16:00	47.23
9	OCC	ER-I	A/R OF 765KV-GAYA-VARANASI-2	D	OPGW installation Work	01-05-2023	07:00	01-05-2023	17:00	28-04-2023 15:38	30-04-2023 10:07	42.48
10	OCC	ER-I	A/R OF 400KV-PUSAULI(PG)-NABINAGAR(BRCL)-2	D	OPGW installation Work	01-05-2023	07:00	01-05-2023	17:00	26-04-2023 17:02	28-04-2023 16:16	47.23
11	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-BANKA(PG)-2	D	OPGW installation Work	01-05-2023	07:00	01-05-2023	17:00	26-04-2023 17:02	28-04-2023 16:16	47.23
12	OCC	ER-II	A/R OF 400KV-DURGAPUR-SAGARDIGHI-1	D	OPGW installation Work	01-05-2023	07:00	01-05-2023	17:00	28-04-2023 18:22	30-04-2023 11:25	41.05
13	OCC	ER-I	A/R OF 400KV-MOTIHARI-BARH-2	D	PID Test.	01-05-2023	07:00	01-05-2023	17:00	29-04-2023 18:37	30-04-2023 11:25	16.80
14	OCC	ER-I	A/R OF 400KV-BARH-MOTIHARI-1	D	PID Test.	01-05-2023	07:00	01-05-2023	17:00	29-04-2023 18:37	30-04-2023 11:25	16.80
15	OCC	NRLDC	A/R OF 400KV-NAUBATPUR(BH)-BALIA-1	D	OPGW installation work	01-05-2023	07:00	01-05-2023	18:00	29-04-2023 18:46	30-04-2023 11:25	16.65
16	EMERGENCY	ER-I	A/R OF 400KV-NABINAGAR (NPGC)-JAKKANPUR(BH)-1	D	installation of pilot insulator string	01-05-2023	08:00	01-05-2023	17:00	29-04-2023 18:51	30-04-2023 11:25	16.57
17	EMERGENCY	ER-I	400KV-NABINAGAR (NPGC)-JAKKANPUR(BH)-2	D	installation of pilot insulator string	01-05-2023	08:00	01-05-2023	17:00	29-04-2023 18:56	30-04-2023 11:29	16.55
18	OCC	NRLDC	132KV-RIHAND-NAGARUNTARI-1	C	Replacemnet of old isolator with new one	01-05-2023	10:00	06-05-2023	17:00	29-04-2023 19:02	30-04-2023 11:29	16.45
19	OCC	WRLDC	A/R OF 765KV-NEW RANCHI-DHARAMJAIGARH-1	D	OPGW installation work	01-05-2023	07:00	01-05-2023	08:00	29-04-2023 19:37	30-04-2023 11:25	15.80
20	NON-OCC	ER-II	A/R OF 400KV-BINAGURI-BONGAIGAON-2	D	Reconductoring works of 400 KV Binaguri-Bongaigaon-1	02-05-2023	08:00	02-05-2023	17:00	29-04-2023 15:38	01-05-2023 10:23	42.75
21	EMERGENCY	BSPTCL	220KV-PATNA-FATUHA-1	D	sag rectification	02-05-2023	08:00	02-05-2023	17:00	29-04-2023 11:37	01-05-2023 10:51	47.23
22	OCC	ER-I	400KV TIE BAY OF (315MVA ICT-I AND 175MVAR BR-I) AT JAMSHEDPUR	C	Replacement & Testing of LBB relay (411) under ADD CAP	02-05-2023	09:00	03-05-2023	17:00	29-04-2023 16:23	01-05-2023 15:58	47.57
23	OCC	GRIDCO	220KV-ROURKELA-TARKERA-1	D	Installation and commissioning of MFM, tightening of jumpers at Tarkera end.	02-05-2023	08:00	02-05-2023	16:00	30-04-2023 12:04	01-05-2023 09:37	21.55
24	OCC	ER-I	A/R OF 220KV-PUSAULI(PG)-DURGAUTI-1	D	OPGW Installation work	02-05-2023	07:00	02-05-2023	17:00	30-04-2023 09:25	01-05-2023 10:43	25.30
25	OCC	ER-I	A/R OF 220KV-PUSAULI(PG)-DURGAUTI-2	D	OPGW Installation work	02-05-2023	07:00	02-05-2023	17:00	30-04-2023 11:29	01-05-2023 10:43	23.23
26	NON-OCC	WBSETCL	A/R OF 400KV-KOLAGHAT-NEW CHANDITALA-1	D	OPGW installation work	02-05-2023	08:00	02-05-2023	17:00	29-04-2023 15:15	01-05-2023 10:39	43.40
27	NON-OCC	ER-I	A/R OF 400KV-NEW RANCHI-RANCHI-4	D	PID testing	02-05-2023	08:00	02-05-2023	17:00	30-04-2023 10:34	01-05-2023 10:39	24.08

पिंकी देबनाथ

(Pinki Debnath)
Ch Manager



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(Manas Das)
Dy General Manager

187	OCC	ER-II	A/R OF 400KV-SAGARDIGHI-FSTPP-1	D	OPGW installation Work	08-05-2023	07:00	08-05-2023	17:00	03-05-2023 11:12	04-05-2023 15:57	28.75
188	OCC	ER-II	220KV-SILIGURI-KISHANGANJ(PG)-1	D	Installation of TLA	08-05-2023	09:00	08-05-2023	17:00	03-05-2023 11:30	04-05-2023 16:02	28.53
189	OCC	ER-I	220KV RANCHI MTPS(DVC)-1	C	ICT-3 BAY EXTENSION WORKS (UNDER CONSTRUCTION ERSS XXVI) AT RANCHI	08-05-2023	09:30	10-05-2023	17:00	03-05-2023 15:39	04-05-2023 16:02	24.38
190	OCC	PG (ODISHA PROJECT)	330MVAR 765KV B/R-2 AT ANGUL	D	AMP/Spare Rotation	08-05-2023	09:00	08-05-2023	13:00	01-05-2023 17:46	03-05-2023 15:46	46.00
191	OCC	ER-II	765KV-MEDINIPUR-NEW JEEAT-2	D	Replacement of defective CLR insulator	08-05-2023	05:00	08-05-2023	16:00	02-05-2023 08:50	04-05-2023 09:50	49.00
192	OCC	ER-II	A/R OF 400KV-BINAGURI-BONGAIGAON-2	D	Reconductoring works of 400 KV Binaguri-Bongaigaon-1	08-05-2023	08:00	08-05-2023	17:00	02-05-2023 14:45	04-05-2023 11:45	45.00
193	OCC	ER-I	400KV TIE BAY OF (315MVA ICT-II AND 125MVAR BR-II) AT JAMSHEDPUR	C	Replacement & Testing of LBB relay (402) under ADD CAP	08-05-2023	09:00	09-05-2023	17:00	02-05-2023 17:01	04-05-2023 16:15	47.23
194	OCC	ER-I	220KV TRANSFER BUS COUPLER BAY AT PUSAULI(PG)	D	AMP WORK	08-05-2023	09:00	08-05-2023	17:00	02-05-2023 19:15	04-05-2023 16:15	45.00
195	OCC	PG (ODISHA PROJECT)	400KV MAIN BAY OF 63MVAR BR AT JEYPORE	D	To take measurement required for Isolator retrofitting work for change from gang operation to Individual operation	08-05-2023	10:00	08-05-2023	12:00	02-05-2023 17:01	04-05-2023 16:15	47.23
196	OCC	GRIDCO	400KV/220KV 315 MVA ICT 1 AT INDRAVATI	D	AMP WORK	08-05-2023	09:00	08-05-2023	17:00	02-05-2023 18:13	04-05-2023 16:13	46.00
197	OCC	ER-I	400KV/220KV 315 MVA ICT 2 AT JAMSHEDPUR	D	Replacement & Testing of LBB relay (403 BAY) under ADD CAP	08-05-2023	08:00	08-05-2023	17:00	02-05-2023 16:59	04-05-2023 16:13	47.23
198	OCC	ER-I	125MVAR 400KV B/R-2 AT JAMSHEDPUR	D	Replacement & Testing of LBB relay(401) under ADD CAP	08-05-2023	09:00	08-05-2023	17:00	02-05-2023 17:15	04-05-2023 16:15	47.00
199	OCC	PMTL	400KV TIE BAY OF (125MVAR 400KV B/R-2 AND 400KV-MOTIHARI-1) AT SITAMARHI	D	AMP WORK	08-05-2023	10:00	08-05-2023	17:00	02-05-2023 17:01	04-05-2023 16:15	47.23
200	NON-OCC	ER-II	400KV-TEESTA-III-RANGPO-1	D	OPGW installation Work	08-05-2023	09:00	08-05-2023	16:00	02-05-2023 16:01	04-05-2023 17:01	49.00
201	NON-OCC	ER-I	A/R OF 400KV-NEW RANCHI-RANCHI-4	D	PID Testing	08-05-2023	07:00	08-05-2023	17:00	04-05-2023 12:16	06-05-2023 11:30	47.23
202	NON-OCC	ER-I	A/R OF 400KV-NEW RANCHI-RANCHI-3	D	PID Testing	08-05-2023	07:00	08-05-2023	17:00	04-05-2023 15:30	06-05-2023 11:30	44.00
203	OCC	BHUTAN	220KV-CHUKHA-BIRPARA-1	C	Changing of complete set of flashover disc insulators	08-05-2023	09:00	10-05-2023	17:00	05-05-2023 12:15	07-05-2023 11:29	47.23
204	NON-OCC	WBSETCL	A/R OF 400KV-KOLAGHAT-NEW CHANDITALA-1	D	OPGW installation work	08-05-2023	08:00	08-05-2023	17:00	03-05-2023 15:15	04-05-2023 15:57	24.70
205	NON-OCC	WBSETCL	A/R OF 400KV-ARAMBAGH-BAKRESWAR-1	D	OPGW installation work	08-05-2023	08:00	08-05-2023	17:00	02-05-2023 17:54	04-05-2023 15:57	46.05
206	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-PUSAULI-1	D	OPGW installation work	08-05-2023	07:00	08-05-2023	17:00	03-05-2023 10:29	04-05-2023 15:57	29.47
207	OCC	ER-I	A/R OF 765KV-GAYA-VARANASI-2	D	OPGW installation work	08-05-2023	07:00	08-05-2023	17:00	26-04-2023 17:50	28-04-2023 15:50	46.00
208	OCC	ER-I	A/R OF 400KV-PUSAULI(PG)-NABINAGAR(BRCL)-2	D	OPGW installation Work	08-05-2023	07:00	08-05-2023	17:00	02-05-2023 16:13	04-05-2023 15:57	47.73
209	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-BANKA(PG)-2	D	OPGW installation Work	08-05-2023	07:00	08-05-2023	17:00	02-05-2023 16:14	04-05-2023 15:57	47.72
210	OCC	ER-II	A/R OF 400KV-DURGAPUR-SAGARDIGHI-1	D	OPGW installation Work	08-05-2023	07:00	08-05-2023	17:00	02-05-2023 18:22	04-05-2023 15:57	45.58
211	OCC	ER-I	A/R OF 400KV-BARI-MOTIHARI-1	D	PID Testing.	08-05-2023	07:00	08-05-2023	17:00	02-05-2023 18:37	04-05-2023 15:57	45.33
212	OCC	ER-I	A/R OF 400KV-MOTIHARI-BARH-2	D	PID Testing.	08-05-2023	07:00	08-05-2023	17:00	03-05-2023 18:37	04-05-2023 15:57	21.33
213	OCC	NRLDC	A/R OF 400KV-NAUBATPUR(BH)-BALIA-1	D	OPGW installation work	08-05-2023	07:00	08-05-2023	18:00	02-05-2023 18:46	04-05-2023 15:57	45.18
214	NON-OCC	JLHEP	220KV-NEW MELLI-JORETHANG-1	D	Preventive Maintenance work	08-05-2023	08:00	08-05-2023	17:00	03-05-2023 12:23	04-05-2023 16:02	27.65
215	EMERGENCY	BSPTCL	220KV-PATNA-FATUHA-1	D	sag rectification	09-05-2023	08:00	09-05-2023	17:00	07-05-2023 10:44	08-05-2023 10:57	24.22
216	OCC	WRLDC	A/R OF 765KV-NEW RANCHI-DHARAMJAGARH-1	D	OPGW installation work	09-05-2023	07:00	09-05-2023	18:00	07-05-2023 17:54	08-05-2023 10:37	16.72

पिंकी देबनाथ

(Pinki Debnath)
Ch Manager

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(Manas Das)
Dy General Manager

Re: Extension of shut down of 220KV Ranchi-MTPS,Mejia (DVC) line upto 19:30 hrs

Dilip Prajapati (दिलीप प्रजापति) <dilip.prajapati@powergrid.in>

Wed 10/05/2023 19:18

305

To: rtamcer1@powergrid.co.in <rtamcer1@powergrid.co.in>

Cc: Rajesh Kumar Saini (राजेश कुमार सैनी) <rksaini@powergrid.in>; Angsujit Bhattacharya (ए. भट्टाचार्य) <angsujit@powergrid.in>; Niranjana Rajwar (निरंजन रजवार) <niranjanaajwar@powergrid.in>; Shilpi Naina Toppo (शिल्पी नैना टोप्पो) <shilpi@powergrid.in>; Babru Bahan Nanda (बब्रु बाहन नन्द) <babru@powergrid.in>

Dear Sir,

The shutdown work of 220 KV Ranchi-MTPS/Mejia(DVC) Line for ICT-3 bay extension work at Ranchi SS has been completed. Men and Materials have been removed from site.

The Permit order no. 16-1000225129, has been returned.

You are requested to accord the charging code of 220 KV Ranchi-MTPS/Mejia(DVC) Line.

Regards,

DILIP PRAJAPATI

ENGINEER

POWERGRID,400KV RANCHI SS

From: Shilpi Naina Toppo (शिल्पी नैना टोप्पो) <shilpi@powergrid.in>

Sent: Wednesday, May 10, 2023 6:00 PM

To: rtamcer1@powergrid.co.in <rtamcer1@powergrid.co.in>

Cc: Rajesh Kumar Saini (राजेश कुमार सैनी) <rksaini@powergrid.in>; Angsujit Bhattacharya (ए. भट्टाचार्य) <angsujit@powergrid.in>; Dilip Prajapati (दिलीप प्रजापति) <dilip.prajapati@powergrid.in>; Niranjana Rajwar (निरंजन रजवार) <niranjanaajwar@powergrid.in>

Subject: Extension of shut down of 220KV Ranchi-MTPS,Mejia (DVC) line upto 19:30 hrs

Dear sir,

Hardware fitting work of ICT-3 bay extension is going on and is expected to be finished today by 19:30 hrs. Hence you are requested to extend the shut down of 220KV Ranchi-MTPS,Mejia (DVC) line upto 19:30 hrs today.

Regards,

Shilpi N. Toppo

Manager

From: Babru Bahan Nanda (बब्रु बाहन नन्द) <babru@powergrid.in>

Sent: Monday, May 8, 2023 9:54 AM

To: rtamcer1@powergrid.co.in

Cc: Rajesh Kumar Saini (राजेश कुमार सैनी) <rksaini@powergrid.in>; Angsujit Bhattacharya (ए. भट्टाचार्य) <angsujit@powergrid.in>; Shilpi Naina Toppo (शिल्पी नैना टोप्पो) <shilpi@powergrid.in>; Niranjana Rajwar (निरंजन रजवार) <niranjanaajwar@powergrid.in>; Dilip Prajapati (दिलीप प्रजापति) <dilip.prajapati@powergrid.in>

Subject: Switching Off code for 220 KV Ranchi MTPS,Mejia(DVC)Line

Dear Sir

You are requested to accord the switching off code for 220 KV Ranchi-MTPS,Mejia(DVC)Line for ICT-3 bay extension work from 10:00 Hrs of 08.05.2023 to 17:30 of 10.05.2023. The shutdown was approved in sl no: 20.



Approved Shutdown list for the month of May'23

Sr. No	Request Type	Name of Requesting Agency	Element Name	Daily/ Continuous	Reason	From Date	From Time	To Date	To Time	Shutdown Creation Date	Approval Date	Time taken Calculated
1	OCC	BHUTAN	400KV-BINAGURI-TALA-4	D	Carrying out Field Efficiency test(FET) for THP unit- IV	01-05-2023	17:00	01-05-2023	23:00	29-04-2023 16:53	30-04-2023 16:07	23.23
2	NON-OCC	WBSETCL	A/R OF 400KV-KOLAGHAT-NEW CHANDITALA-1	D	OPGW installation work	01-05-2023	08:00	01-05-2023	17:00	27-04-2023 15:15	28-04-2023 15:30	24.25
3	NON-OCC	ER-I	A/R OF 400KV-NEW RANCHI-RANCHI-4	D	For PID testing	01-05-2023	08:00	01-05-2023	17:00	27-04-2023 10:34	28-04-2023 15:30	28.93
4	NON-OCC	ER-I	A/R OF 400KV-NEW RANCHI-RANCHI-3	D	For PID testing	01-05-2023	08:00	01-05-2023	17:00	27-04-2023 10:34	28-04-2023 15:30	28.93
5	NON-OCC	WBSETCL	A/R OF 400KV-ARAMBAGH-BAKRESWAR-1	D	OPGW installation work	01-05-2023	08:00	01-05-2023	17:00	26-04-2023 17:54	28-04-2023 15:30	45.60
6	OCC	DARLIPALI (NTPC)	262MVAR 765KV B/R-1 AT DARLIPALI (DSTPS)	C	ANNUAL TESTING OF BREAKER, CT, ISOLATOR, LA ,BUSHING OF REACTOR BAY AND ATTENDING SOME DEFECTS IN REACTOR.	01-05-2023	08:00	07-05-2023	17:00	28-04-2023 10:07	30-04-2023 10:07	48.00
7	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-PUSAULI-1	D	OPGW installation work	01-05-2023	07:00	01-05-2023	17:00	26-04-2023 16:16	28-04-2023 15:30	47.23
8	NON-OCC	ER-II	400KV-TEESTA-III-RANGPO-1	D	OPGW installation Work	01-05-2023	07:00	01-05-2023	16:00	26-04-2023 16:46	28-04-2023 16:00	47.23
9	OCC	ER-I	A/R OF 765KV-GAYA-VARANASI-2	D	OPGW installation Work	01-05-2023	07:00	01-05-2023	17:00	28-04-2023 15:38	30-04-2023 10:07	42.48
10	OCC	ER-I	A/R OF 400KV-PUSAULI(PG)-NABINAGAR(BRCL)-2	D	OPGW installation Work	01-05-2023	07:00	01-05-2023	17:00	26-04-2023 17:02	28-04-2023 16:16	47.23
11	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-BANKA(PG)-2	D	OPGW installation Work	01-05-2023	07:00	01-05-2023	17:00	26-04-2023 17:02	28-04-2023 16:16	47.23
12	OCC	ER-II	A/R OF 400KV-DURGAPUR-SAGARDIGHI-1	D	OPGW installation Work	01-05-2023	07:00	01-05-2023	17:00	28-04-2023 18:22	30-04-2023 11:25	41.05
13	OCC	ER-I	A/R OF 400KV-MOTIHARI-BARH-2	D	PID Test.	01-05-2023	07:00	01-05-2023	17:00	29-04-2023 18:37	30-04-2023 11:25	16.80
14	OCC	ER-I	A/R OF 400KV-BARH-MOTIHARI-1	D	PID Test.	01-05-2023	07:00	01-05-2023	17:00	29-04-2023 18:37	30-04-2023 11:25	16.80
15	OCC	NRLDC	A/R OF 400KV-NAUBATPUR(BH)-BALIA-1	D	OPGW installation work	01-05-2023	07:00	01-05-2023	18:00	29-04-2023 18:46	30-04-2023 11:25	16.65
16	EMERGENCY	ER-I	A/R OF 400KV-NABINAGAR (NPGC)-JAKKANPUR(BH)-1	D	installation of pilot insulator string	01-05-2023	08:00	01-05-2023	17:00	29-04-2023 18:51	30-04-2023 11:25	16.57
17	EMERGENCY	ER-I	400KV-NABINAGAR (NPGC)-JAKKANPUR(BH)-2	D	installation of pilot insulator string	01-05-2023	08:00	01-05-2023	17:00	29-04-2023 18:56	30-04-2023 11:29	16.55
18	OCC	NRLDC	132KV-RIHAND-NAGARUNTARI-1	C	Replacemnet of old isolator with new one	01-05-2023	10:00	06-05-2023	17:00	29-04-2023 19:02	30-04-2023 11:29	16.45
19	OCC	WRLDC	A/R OF 765KV-NEW RANCHI-DHARAMAIGARH-1	D	OPGW installation work	01-05-2023	07:00	01-05-2023	08:00	29-04-2023 19:37	30-04-2023 11:25	15.80
20	NON-OCC	ER-II	A/R OF 400KV-BINAGURI-BONGAIGAON-2	D	Reconductoring works of 400 KV Binaguri-Bongaigaon-1	02-05-2023	08:00	02-05-2023	17:00	29-04-2023 15:38	01-05-2023 10:23	42.75
21	EMERGENCY	BSPTCL	220KV-PATNA-FATUHA-1	D	sag rectification	02-05-2023	08:00	02-05-2023	17:00	29-04-2023 11:37	01-05-2023 10:51	47.23
22	OCC	ER-I	400KV TIE BAY OF (315MVA ICT-1 AND 175MVAR BR-I) AT JAMSHEDPUR	C	Replacement & Testing of LBB relay (41 I) under ADD CAP	02-05-2023	09:00	03-05-2023	17:00	29-04-2023 16:23	01-05-2023 15:58	47.57
23	OCC	GRIDCO	220KV-ROURKELA-TARKERA-1	D	Installation and commissioning of MFM, tightening of jumpers at Tarkera end.	02-05-2023	08:00	02-05-2023	16:00	30-04-2023 12:04	01-05-2023 09:37	21.55
24	OCC	ER-I	A/R OF 220KV-PUSAULI(PG)-DURGAUTI-1	D	OPGW Installation work	02-05-2023	07:00	02-05-2023	17:00	30-04-2023 09:25	01-05-2023 10:43	25.30
25	OCC	ER-I	A/R OF 220KV-PUSAULI(PG)-DURGAUTI-2	D	OPGW Installation work	02-05-2023	07:00	02-05-2023	17:00	30-04-2023 11:29	01-05-2023 10:43	23.23
26	NON-OCC	WBSETCL	A/R OF 400KV-KOLAGHAT-NEW CHANDITALA-1	D	OPGW installation work	02-05-2023	08:00	02-05-2023	17:00	29-04-2023 15:15	01-05-2023 10:39	43.40
27	NON-OCC	ER-I	A/R OF 400KV-NEW RANCHI-RANCHI-4	D	PID testing	02-05-2023	08:00	02-05-2023	17:00	30-04-2023 10:34	01-05-2023 10:39	24.08

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(Pinki Debnath)
Ch Manager

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(Manas Das)
Dy General Manager



331	OCC	ER-I	220KV TRANSFER BUS AT RANCHI	D	BUS BAR STABILITY TESTING AND PROTECTION CHECKING OF ICT-3 BAY EXTENSION WORKS	12-05-2023	07:00	12-05-2023	17:00	09-05-2023 13:13	11-05-2023 11:04	45.85
332	OCC	ER-I	400KV MAIN BAY OF 125MVAR B/R-1 AT MUZAFFARPUR(PG)	C	LBB RELAY RETROFITTING	12-05-2023	09:00	13-05-2023	17:00	09-05-2023 15:16	11-05-2023 11:05	43.82
333	NON-OCC	ER-I	SITAMARHI - 400KV - BUS 1	D	Beam erection for the 400 kV Bay extension work	12-05-2023	10:00	12-05-2023	14:00	09-05-2023 15:26	11-05-2023 11:01	43.58
334	NON-OCC	ER-II	400KV-TEESTA-III-RANGPO-1	D	OPGW installation Work	12-05-2023	07:00	12-05-2023	16:00	10-05-2023 14:54	11-05-2023 10:59	20.08
335	OCC	ER-II	A/R OF 400KV-BINAGURI-BONGAIGAON-2	D	Reconductoring work with HTLS conductor in Ckt.-1.	12-05-2023	08:00	12-05-2023	17:00	09-05-2023 02:03	10-05-2023 17:23	39.33
336	OCC	PG (ODISHA PROJECT)	A/R OF 400KV-JHARSUGUDA-RAIGARH-2	D	To facilitate SD of 400KV-JHARSUGUDA-RAIGARH-4.	12-05-2023	08:00	12-05-2023	17:00	08-05-2023 16:23	10-05-2023 17:59	49.60
337	NON-OCC	WBSETCL	A/R OF 400KV-KOLAGHAT-NEW CHANDITALA-1	D	OPGW installation work	12-05-2023	08:00	12-05-2023	17:00	09-05-2023 15:15	11-05-2023 10:54	43.65
338	NON-OCC	ER-I	A/R OF 400KV-RANCHI-NEW RANCHI-1	D	PID Test	12-05-2023	07:00	12-05-2023	17:00	09-05-2023 11:51	11-05-2023 11:05	47.23
339	NON-OCC	ER-I	A/R OF 400KV-RANCHI-NEW RANCHI-2	D	PID Test	12-05-2023	07:00	12-05-2023	17:00	09-05-2023 13:05	11-05-2023 11:05	46.00
340	OCC	WRLDC	A/R OF 765KV-NEW RANCHI-DHARAMJAIGARH-2	D	OPGW ERECTION WORKS by POWERGRID	12-05-2023	07:00	12-05-2023	18:00	09-05-2023 11:57	11-05-2023 11:11	47.23
341	OCC	WRLDC	A/R OF 220KV-BUDHIPADAR-KORBA-3	D	OPGW ERECTION WORK	12-05-2023	07:00	12-05-2023	17:00	09-05-2023 13:07	11-05-2023 12:07	47.00
342	EMERGENCY	BSPTCL	220KV-PATNA-FATUHA-1	D	Sag rectification	12-05-2023	08:00	12-05-2023	17:00	09-05-2023 16:49	11-05-2023 16:03	47.23
343	EMERGENCY	WBSETCL	400KV-KOLAGHAT-KHARAGPUR-2	D	Relay Testing work at Kharagpur	12-05-2023	10:00	12-05-2023	16:00	09-05-2023 20:46	11-05-2023 17:46	45.00
344	NON-OCC	WBSETCL	A/R OF 400KV-ARAMBAGH-BAKRESWAR-1	D	OPGW installation work	12-05-2023	08:00	12-05-2023	17:00	09-05-2023 17:54	11-05-2023 10:54	41.00
345	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-PUSAULI-1	D	OPGW Installation work	12-05-2023	07:00	12-05-2023	17:00	10-05-2023 10:29	11-05-2023 10:54	24.42
346	OCC	ER-I	A/R OF 765KV-GAYA-VARANASI-2	D	OPGW Installation work	12-05-2023	07:00	12-05-2023	17:00	26-04-2023 15:32	28-04-2023 15:50	48.30
347	OCC	ER-I	A/R OF 400KV-PUSAULI(PG)-NABINAGAR(BRCL)-2	D	OPGW installation Work	12-05-2023	07:00	12-05-2023	17:00	09-05-2023 16:13	11-05-2023 10:54	42.68
348	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-BANKA(PG)-2	D	OPGW installation Work	12-05-2023	07:00	12-05-2023	17:00	09-05-2023 16:14	11-05-2023 10:54	42.67
349	OCC	ER-II	A/R OF 400KV-DURGAPUR-SAGARDIGHI-1	D	OPGW installation Work	12-05-2023	07:00	12-05-2023	17:00	09-05-2023 18:22	11-05-2023 10:54	40.53
350	OCC	NRLDC	A/R OF 400KV-NAUBATPUR(BH)-BALIA-1	D	OPGW installation work	12-05-2023	07:00	12-05-2023	18:00	09-05-2023 18:46	11-05-2023 10:54	40.13
351	NON-OCC	ILHEP	220KV-NEW MELLI-JORETHANG-1	D	Preventive Maintenance Work	12-05-2023	08:00	12-05-2023	17:00	09-05-2023 12:23	11-05-2023 11:04	46.68
352	OCC	WRLDC	A/R OF 765KV-NEW RANCHI-DHARAMJAIGARH-1	D	OPGW installation work	13-05-2023	07:00	13-05-2023	18:00	10-05-2023 09:50	12-05-2023 09:47	47.95
353	OCC	ER-I	A/R OF 220KV-PUSAULI(PG)-DURGAUT-2	D	OPGW Installation work	13-05-2023	07:00	13-05-2023	17:00	11-05-2023 10:35	12-05-2023 09:35	23.00
354	OCC	ER-I	A/R OF 220KV-PUSAULI(PG)-DURGAUT-1	D	OPGW Installation work	13-05-2023	07:00	13-05-2023	17:00	11-05-2023 10:35	12-05-2023 09:35	23.00
355	OCC	ER-II	A/R OF 400KV-SAGARDIGHI-FSTPP-1	D	OPGW installation Work	13-05-2023	07:00	13-05-2023	17:00	11-05-2023 11:12	12-05-2023 10:24	23.20
356	OCC	ER-II	220KV-SILIGURI-KISHANGANJ(PG)-2	D	Installation of TLA	13-05-2023	09:00	13-05-2023	17:00	11-05-2023 11:30	12-05-2023 10:40	23.17
357	OCC	ER-II	400KV-ALIPURDUAR (PG)-JIGMELLING-1	D	Replacement of defective insulators due to lightning	13-05-2023	08:00	13-05-2023	17:00	02-05-2023 17:44	04-05-2023 17:47	48.05
358	NON-OCC	WBSETCL	400KV-PPSP-BIDHANNAGAR-2	D	Tree Trimming	13-05-2023	07:00	13-05-2023	16:00	11-05-2023 09:34	12-05-2023 10:54	25.33
359	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-VARANASI-1	D	PID TEST	13-05-2023	07:00	13-05-2023	17:00	06-05-2023 15:36	08-05-2023 15:46	48.17
360	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-VARANASI-2	D	PID TEST	13-05-2023	07:00	13-05-2023	17:00	06-05-2023 16:18	08-05-2023 15:46	47.47

पिंकी देबनाथ

(Pinki Debnath)
Ch Manager



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(Manas Das)
Dy General Manager

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 Outlook

Re: FW: Status Of Shutdown Request For - 220KV MAIN BUS - 1 AT RANCHI starting from 5/12/2023 7:00:00 AM

From sldcranchi@gmail.com <sldcranchi@gmail.com>

Date Thu 11/05/2023 19:29

To erldcoutage@grid-india.in <erldcoutage@grid-india.in>; erldccr@grid-india.in <erldccr@grid-india.in>

Cc RTAMCPatna <rtamcer1@powergrid.co.in>

Sir/Madam,

Considering the very high temperature and high demand at Ranchi, the said S/D may be deferred.

On Thu, May 11, 2023 at 11:15 AM ERLDC Outage <erldcoutage@grid-india.in> wrote:

Sir,

For consent please.

Thanks and Regards

ERLDC Outage Team

From: ERLDC Outage Notification <erldcoutagenotification@grid-india.in>

Sent: Tuesday, May 9, 2023 10:10 AM

To: rtamcer1@powergrid.co.in

Cc: ERLDC Outage <erldcoutage@grid-india.in>

Subject: Status Of Shutdown Request For - 220KV MAIN BUS - 1 AT RANCHI starting from 5/12/2023 7:00:00 AM

Respected Sir / Madam,

It is to inform you that the shutdown request for this element has been Submitted. The summary for this outage is given below-

Name of Requesting Agency	ER-I
Element Name	220KV MAIN BUS - 1 AT RANCHI
Nature of Shutdown	OCC
Type	ODB



Requested Shutdown Date	12-05-2023 07:00 - 12-05-2023 17:00
Reason	BUS BAR STABILITY TESTING AND PROTECTION CHECKING OF ICT-3 BAY EXTENSION WORKS (UNDER CONSTRUCTION HEAD ERSS XXVI)
Requester Remarks	

Regards,
ERLDC Outage

**This is a system generated notification mail. Please do not reply to this.

**For any query, please reply to erldcoutage@grid-india.in

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Regards,
State Load Despatch Centre (SLDC)
Jharkhand Urja Sancharan Nigam Limited, Ranchi
Mobile: (+91) 9431135537, 7781017818
Landline: 0651-3500920

Email: sldcranchi@gmail.com
sldcranchi.report@gmail.com



Photo/Evidence attached (if required) :	NA
* any other information as required :	S/D OF 220KV RANCHI-MEJIA LINE IS REQUIRED IN VIEW OF SAFETY MEASURE.

THANKING YOU

With best Regards:

बहु बाहन नन्द / Babru Bahan Nanda
अभियंता(प.प्र) / Engineer (AM)

पावर ग्रिड कॉर्पोरेशन ऑफ़ इंडिया लिमिटेड
Power Grid Corporation of India Limited
४००/२२० के.वी. नामकुम उपकेन्द्र
400/220 KV Namkum Sub-Station
नामकुम, रांची
Namkum, Ranchi
Mob-9439232474, 7008688132

From: Niranjana Rajwar (निरंजन रजवार) <niranjanaajwar@powergrid.in>
Sent: Thursday, May 11, 2023 8:38 PM
To: RTAMCPatna <rtamcer1@powergrid.co.in>
Cc: Babru Bahan Nanda (बहु बाहन नन्द) <babru@powergrid.in>; Dilip Prajapati (दिलीप प्रजापति) <dilip.prajapati@powergrid.in>; R Wadhwa (आर. वाधवा) <r_wadhwa@powergrid.in>; Ankur Kumar (अंकुर कुमार) <ankur@powergrid.in>; Surya Prakash (सूर्य प्रकाश) <surya_prakash@powergrid.in>; Rajesh Kumar Saini (राजेश कुमार सैनी) <rksaini@powergrid.in>; S Samanta (एस. सामंता) <s.samanta@powergrid.in>; Angsujit Bhattacharya (ए. भट्टाचार्य) <angsujit@powergrid.in>; Shilpi Naina Toppo (शिल्पी नैना टोप्पो) <shilpi@powergrid.in>
Subject: Re: Status Of Shutdown Request For - 220KV MAIN BUS - 1 AT RANCHI starting from 5/12/2023 7:00:00 AM

In reference to trailing mail, We are hereby submitting to your good offices that 220kV Bus shutdown for 12.05.23 and 13.05.23 for stability test is required as commissioning work of ICT is going on its peak.

It is well known that upcoming 500MVA ICT-3 at 400/220kV Ranchi is being commissioned for system strengthening of Eastern Region and once the ICT would be charged, JUSNL system would be connected with 1130MVA CAPACITY.

Furthermore, The JUSNL system would be strengthen and conditions like overload & high temperature would be mitigated.

In view of above scenario as mentioned, concurrence of above shutdown is highly solicited for system strengthening only.

Therefore, kindly accord the 220kV Bus shutdown along with transfer Bus and 220kV Mejia line for 12.05.23 and 13.05.23 for stability test.

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From: RTAMCPatna <rtamcer1@powergrid.co.in>
Sent: Thursday, May 11, 2023 7:43:06 PM
To: Shilpi Naina Toppo (शिल्पी नैना टोप्पो) <shilpi@powergrid.in>; Angsujit Bhattacharya (ए. भट्टाचार्य) <angsujit@powergrid.in>; Niranjana Rajwar (निरंजन रजवार) <niranjanaajwar@powergrid.in>; Rajesh Kumar Saini (राजेश कुमार सैनी) <rksaini@powergrid.in>
Cc: R Wadhwa (आर. वाधवा) <r_wadhwa@powergrid.in>; Surya Prakash (सूर्य प्रकाश) <surya_prakash@powergrid.in>; Ankur Kumar (अंकुर कुमार) <ankur@powergrid.in>
Subject: Fwd: Status Of Shutdown Request For - 220KV MAIN BUS - 1 AT RANCHI starting from 5/12/2023 7:00:00 AM



Approved Shutdown list for the month of May'23

Sr. No	Request Type	Name of Requesting Agency	Element Name	Daily/ Continuous	Reason	From Date	From Time	To Date	To Time	Shutdown Creation Date	Approval Date	Time taken Calculated
1	OCC	BHUTAN	400KV-BINAGURI-TALA-4	D	Carrying out Field Efficiency test(FET) for THP unit- IV	01-05-2023	17:00	01-05-2023	23:00	29-04-2023 16:53	30-04-2023 16:07	23.23
2	NON-OCC	WBSETCL	A/R OF 400KV-KOLAGHAT-NEW CHANDITALA-1	D	OPGW installation work	01-05-2023	08:00	01-05-2023	17:00	27-04-2023 15:15	28-04-2023 15:30	24.25
3	NON-OCC	ER-I	A/R OF 400KV-NEW RANCHI-RANCHI-4	D	For PID testing	01-05-2023	08:00	01-05-2023	17:00	27-04-2023 10:34	28-04-2023 15:30	28.93
4	NON-OCC	ER-I	A/R OF 400KV-NEW RANCHI-RANCHI-3	D	For PID testing	01-05-2023	08:00	01-05-2023	17:00	27-04-2023 10:34	28-04-2023 15:30	28.93
5	NON-OCC	WBSETCL	A/R OF 400KV-ARAMBAGH-BAKRESWAR-1	D	OPGW installation work	01-05-2023	08:00	01-05-2023	17:00	26-04-2023 17:54	28-04-2023 15:30	45.60
6	OCC	DARLIPALI (NTPC)	262MVAR 765KV B/R-1 AT DARLIPALI (DSTPS)	C	ANNUAL TESTING OF BREAKER, CT, ISOLATOR, LA ,BUSHING OF REACTOR BAY AND ATTENDING SOME DEFECTS IN REACTOR.	01-05-2023	08:00	07-05-2023	17:00	28-04-2023 10:07	30-04-2023 10:07	48.00
7	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-PUSAULI-1	D	OPGW installation work	01-05-2023	07:00	01-05-2023	17:00	26-04-2023 16:16	28-04-2023 15:30	47.23
8	NON-OCC	ER-II	400KV-TEESTA-III-RANGPO-1	D	OPGW installation Work	01-05-2023	07:00	01-05-2023	16:00	26-04-2023 16:46	28-04-2023 16:00	47.23
9	OCC	ER-I	A/R OF 765KV-GAYA-VARANASI-2	D	OPGW installation Work	01-05-2023	07:00	01-05-2023	17:00	28-04-2023 15:38	30-04-2023 10:07	42.48
10	OCC	ER-I	A/R OF 400KV-PUSAULI(PG)-NABINAGAR(BRCL)-2	D	OPGW installation Work	01-05-2023	07:00	01-05-2023	17:00	26-04-2023 17:02	28-04-2023 16:16	47.23
11	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-BANKA(PG)-2	D	OPGW installation Work	01-05-2023	07:00	01-05-2023	17:00	26-04-2023 17:02	28-04-2023 16:16	47.23
12	OCC	ER-II	A/R OF 400KV-DURGAPUR-SAGARDIGHI-1	D	OPGW installation Work	01-05-2023	07:00	01-05-2023	17:00	28-04-2023 18:22	30-04-2023 11:25	41.05
13	OCC	ER-I	A/R OF 400KV-MOTIHARI-BARH-2	D	PID Test.	01-05-2023	07:00	01-05-2023	17:00	29-04-2023 18:37	30-04-2023 11:25	16.80
14	OCC	ER-I	A/R OF 400KV-BARH-MOTIHARI-1	D	PID Test.	01-05-2023	07:00	01-05-2023	17:00	29-04-2023 18:37	30-04-2023 11:25	16.80
15	OCC	NRLDC	A/R OF 400KV-NAUBATPUR(BH)-BALIA-1	D	OPGW installation work	01-05-2023	07:00	01-05-2023	18:00	29-04-2023 18:46	30-04-2023 11:25	16.65
16	EMERGENCY	ER-I	A/R OF 400KV-NABINAGAR (NPGC)-JAKKANPUR(BH)-1	D	installation of pilot insulator string	01-05-2023	08:00	01-05-2023	17:00	29-04-2023 18:51	30-04-2023 11:25	16.57
17	EMERGENCY	ER-I	400KV-NABINAGAR (NPGC)-JAKKANPUR(BH)-2	D	installation of pilot insulator string	01-05-2023	08:00	01-05-2023	17:00	29-04-2023 18:56	30-04-2023 11:29	16.55
18	OCC	NRLDC	132KV-RIHAND-NAGARUNTARI-1	C	Replacemnet of old isolator with new one	01-05-2023	10:00	06-05-2023	17:00	29-04-2023 19:02	30-04-2023 11:29	16.45
19	OCC	WRLDC	A/R OF 765KV-NEW RANCHI-DHARAMJAIGARH-1	D	OPGW installation work	01-05-2023	07:00	01-05-2023	08:00	29-04-2023 19:37	30-04-2023 11:25	15.80
20	NON-OCC	ER-II	A/R OF 400KV-BINAGURI-BONGAIGAON-2	D	Reconductoring works of 400 KV Binaguri-Bongaigaon-1	02-05-2023	08:00	02-05-2023	17:00	29-04-2023 15:38	01-05-2023 10:23	42.75
21	EMERGENCY	BSPTCL	220KV-PATNA-FATUHA-1	D	sag rectification	02-05-2023	08:00	02-05-2023	17:00	29-04-2023 11:37	01-05-2023 10:51	47.23
22	OCC	ER-I	400KV TIE BAY OF (315MVA ICT-1 AND 175MVAR BR-I) AT JAMSHEDPUR	C	Replacement & Testing of LBB relay (411) under ADD CAP	02-05-2023	09:00	03-05-2023	17:00	29-04-2023 16:23	01-05-2023 15:58	47.57
23	OCC	GRIDCO	220KV-ROURKELA-TARKERA-1	D	Installation and commissioning of MFM, tightening of jumpers at Tarkera end.	02-05-2023	08:00	02-05-2023	16:00	30-04-2023 12:04	01-05-2023 09:37	21.55
24	OCC	ER-I	A/R OF 220KV-PUSAULI(PG)-DURGAUTI-1	D	OPGW Installation work	02-05-2023	07:00	02-05-2023	17:00	30-04-2023 09:25	01-05-2023 10:43	25.30
25	OCC	ER-I	A/R OF 220KV-PUSAULI(PG)-DURGAUTI-2	D	OPGW Installation work	02-05-2023	07:00	02-05-2023	17:00	30-04-2023 11:29	01-05-2023 10:43	23.23
26	NON-OCC	WBSETCL	A/R OF 400KV-KOLAGHAT-NEW CHANDITALA-1	D	OPGW installation work	02-05-2023	08:00	02-05-2023	17:00	29-04-2023 15:15	01-05-2023 10:39	43.40
27	NON-OCC	ER-I	A/R OF 400KV-NEW RANCHI-RANCHI-4	D	PID testing	02-05-2023	08:00	02-05-2023	17:00	30-04-2023 10:34	01-05-2023 10:39	24.08

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479	OCC	ER-II	A/R OF 400KV-BINAGURI-BONGAIGAON-2	D	Reconductoring work with HTLS conductor in Ckt-I	17-05-2023	08:00	17-05-2023	17:00	08-05-2023 17:20	10-05-2023 17:23	48.05
480	NON-OCC	WBSETCL	A/R OF 400KV-KOLAGHAT-NEW CHANDITALA-1	D	OPGW installation work	17-05-2023	08:00	17-05-2023	17:00	15-05-2023 15:15	16-05-2023 10:21	19.10
481	NON-OCC	ER-I	A/R OF 400KV-RANCHI-NEW RANCHI-1	D	PID Test	17-05-2023	07:00	17-05-2023	17:00	15-05-2023 11:03	16-05-2023 10:21	23.30
482	NON-OCC	ER-I	A/R OF 400KV-RANCHI-NEW RANCHI-2	D	PID Test	17-05-2023	07:00	17-05-2023	17:00	15-05-2023 11:03	16-05-2023 10:21	23.30
483	OCC	ER-I	400KV MAIN BAY OF BIHARSARIFF-I AT MUZAFFARPUR(PG)	C	LBB relay retrofitting	17-05-2023	09:00	18-05-2023	17:00	14-05-2023 11:29	16-05-2023 10:36	47.12
484	OCC	BSPTCL	132KV-SITAMARHI-RUNNISAIDPUR-1	D	Tree pruning work	17-05-2023	09:00	17-05-2023	17:00	13-05-2023 17:28	15-05-2023 15:33	46.08
485	OCC	BSPTCL	132KV-SITAMARHI-RUNNISAIDPUR-2	D	Tree pruning work	17-05-2023	09:00	17-05-2023	17:00	13-05-2023 17:28	15-05-2023 15:33	46.08
486	OCC	ER-II	A/R OF 400KV-DURGAPUR-KHSTPP-1	D	OPGW installation work	17-05-2023	07:00	17-05-2023	17:00	14-05-2023 10:54	16-05-2023 10:21	47.45
487	OCC	ER-I	400KV MAIN BUS - 2 AT RANCHI	D	Bus bar stability testing and protection checking of ICT-3 bay extension works.	17-05-2023	07:00	17-05-2023	17:00	14-05-2023 23:07	16-05-2023 10:36	35.48
488	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-BALIA-1	D	PID Test	17-05-2023	07:00	17-05-2023	17:00	11-05-2023 23:09	13-05-2023 23:19	48.17
489	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-BALIA-2	D	PID Test	17-05-2023	07:00	17-05-2023	17:00	11-05-2023 23:51	13-05-2023 23:19	47.47
490	OCC	DVC	400KV-RANCHI-RAGHUNATHPUR-3	D	Relay Maintenance at RTPS	17-05-2023	09:00	17-05-2023	17:00	14-05-2023 09:15	16-05-2023 10:33	49.30
491	OCC	ER-I	400KV-BIHARSARIFF(PG)-MUZAFFARPUR(PG)-1	D	Replacement of insulators at major crossing	17-05-2023	08:00	17-05-2023	17:00	14-05-2023 23:46	16-05-2023 10:33	34.78
492	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-MUZAFFARPUR(PG)-2	D	To facilitate shutdown of parallel circuit	17-05-2023	08:00	17-05-2023	17:00	15-05-2023 23:49	16-05-2023 10:21	10.53
493	OCC	ER-I	400KV MAIN BAY OF DARBHANGA (DMTCL)-2 AT SITAMARHI	D	AMP WORK	17-05-2023	10:00	17-05-2023	17:00	14-05-2023 13:00	16-05-2023 10:36	45.60
494	NON-OCC	ER-II	400KV-TEESTA-III-RANGPO-1	D	OPGW installation Work	17-05-2023	09:00	17-05-2023	16:00	15-05-2023 13:29	16-05-2023 10:33	21.07
495	OCC	WRLDC	A/R OF 220KV-BUDHIPADAR-KORBA-3	D	OPGW installation work	17-05-2023	07:00	17-05-2023	18:00	15-05-2023 13:34	16-05-2023 10:21	20.78
496	OCC	WRLDC	A/R OF 765KV-NEW RANCHI-DHARAMJAIGARH-2	D	OPGW installation work	17-05-2023	07:00	17-05-2023	18:00	15-05-2023 13:37	16-05-2023 10:21	20.73
497	EMERGENCY	WBSETCL	125MVAR 400KV B/R-2 AT GOKARNA	D	Readjustment of WTI & OTI alarm and trip temperature	17-05-2023	12:00	17-05-2023	13:00	14-05-2023 16:51	16-05-2023 16:05	47.23
498	NON-OCC	WBSETCL	A/R OF 400KV-ARAMBAGH-BAKRESWAR-1	D	OPGW installation work	17-05-2023	08:00	17-05-2023	17:00	14-05-2023 17:54	16-05-2023 09:50	39.93
499	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-PUSAULI-1	D	OPGW Installation work	17-05-2023	07:00	17-05-2023	17:00	14-05-2023 10:29	16-05-2023 09:50	47.35
500	OCC	ER-I	A/R OF 765KV-GAYA-VARANASI-2	D	OPGW installation Work	17-05-2023	07:00	17-05-2023	17:00	27-04-2023 11:50	28-04-2023 15:50	28.00
501	OCC	ER-I	A/R OF 400KV-PUSAULI(PG)-NABINAGAR(BRCL)-2	D	OPGW installation Work	17-05-2023	07:00	17-05-2023	17:00	14-05-2023 16:13	16-05-2023 09:50	41.62
502	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-BANKA(PG)-2	D	OPGW installation Work	17-05-2023	07:00	17-05-2023	17:00	14-05-2023 16:14	16-05-2023 09:50	41.60
503	OCC	ER-II	A/R OF 400KV-DURGAPUR-SAGARDIGHI-1	D	OPGW installation Work	17-05-2023	07:00	17-05-2023	17:00	14-05-2023 18:22	16-05-2023 09:50	39.47
504	OCC	NRLDC	A/R OF 400KV-NAUBATPUR(BH)-BALIA-1	D	OPGW installation work	17-05-2023	07:00	17-05-2023	18:00	14-05-2023 18:46	16-05-2023 09:50	39.07
505	NON-OCC	JLHEP	220KV-JORETHANG-NEW MELLI-2	D	Preventive Maintenance work	18-05-2023	08:00	18-05-2023	17:00	15-05-2023 12:33	17-05-2023 10:20	45.78
506	OCC	WRLDC	A/R OF 765KV-NEW RANCHI-DHARAMJAIGARH-1	D	OPGW installation work	18-05-2023	07:00	18-05-2023	18:00	15-05-2023 15:45	17-05-2023 10:10	42.42
507	OCC	ER-I	A/R OF 220KV-PUSAULI(PG)-DURGAUT-1	D	OPGW Installation work	18-05-2023	07:00	18-05-2023	17:00	15-05-2023 10:35	17-05-2023 10:10	47.58

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508	OCC	ER-I	A/R OF 220KV-PUSAULI(PG)-DURGAUTI-2	D	OPGW Installation work	18-05-2023	07:00	18-05-2023	17:00	15-05-2023 10:35	17-05-2023 10:10	47.58
509	OCC	ER-II	A/R OF 400KV-SAGARDIGHI-FSTPP-1	D	OPGW installation Work	18-05-2023	07:00	18-05-2023	17:00	15-05-2023 11:12	17-05-2023 10:10	46.97
510	OCC	WBSETCL	400KV-NEW PPSP-ARAMBAGH-2	D	Tree trimming	18-05-2023	07:00	18-05-2023	16:00	15-05-2023 16:42	17-05-2023 10:20	41.63
511	OCC	ER-II	A/R OF 400KV-BINAGURI-BONGAIGAON-2	D	Reconductoring work with HTLS conductor in Ckt-I	18-05-2023	08:00	18-05-2023	17:00	08-05-2023 22:20	10-05-2023 17:23	43.05
512	NON-OCC	WBSETCL	A/R OF 400KV-KOLAGHAT-NEW CHANDITALA-1	D	OPGW installation work	18-05-2023	08:00	18-05-2023	17:00	15-05-2023 15:15	17-05-2023 10:10	42.92
513	NON-OCC	ER-I	A/R OF 400KV-RANCHI-NEW RANCHI-1	D	PID TEST	18-05-2023	07:00	18-05-2023	17:00	15-05-2023 11:03	17-05-2023 10:16	47.22
514	NON-OCC	ER-I	A/R OF 400KV-RANCHI-NEW RANCHI-2	D	PID TEST	18-05-2023	07:00	18-05-2023	17:00	15-05-2023 11:03	17-05-2023 10:16	47.22
515	OCC	ER-II	A/R OF 400KV-DURGAPUR-KHSTPP-1	D	OPGW installation work	18-05-2023	07:00	18-05-2023	17:00	15-05-2023 10:54	17-05-2023 10:10	47.27
516	OCC	ER-I	400KV-BIHARSARIFF(PG)-MUZAFFARPUR(PG)-1	D	INSULATOR REPLACEMENT AT MAJOR CROSSINGS	18-05-2023	08:00	18-05-2023	17:00	15-05-2023 23:46	17-05-2023 10:20	34.57
517	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-MUZAFFARPUR(PG)-2	D	To facilitate shutdown of parallel circuit	18-05-2023	08:00	18-05-2023	17:00	15-05-2023 23:49	17-05-2023 10:16	34.45
518	OCC	ER-I	80MVAR SWITCHABLE L/R OF 400KV-PATNA-BARH-1 AT PATNA	D	MODIFICATION OF PRV TRIPPING	18-05-2023	09:00	18-05-2023	17:00	15-05-2023 11:39	17-05-2023 10:38	46.98
519	NON-OCC	ER-I	A/R OF 400KV-BIHARSARIFF-KODARMA-1	D	PID TEST	18-05-2023	08:00	18-05-2023	17:00	15-05-2023 12:03	17-05-2023 10:16	46.22
520	OCC	ER-I	400KV-BINAGURI-NEW PURNEA-1	D	CHECKING DT SCHEME AT NEW PURNEA	18-05-2023	09:00	18-05-2023	17:00	15-05-2023 12:20	17-05-2023 10:20	46.00
521	NON-OCC	ER-II	400KV-TEESTA-III-RANGPO-1	D	OPGW installation Work	18-05-2023	09:00	18-05-2023	16:00	15-05-2023 13:29	17-05-2023 10:20	44.85
522	OCC	GRIDCO	400KV-LAPANGA-OPGC (IB THERMAL)-1	D	Tree trimming	18-05-2023	07:00	18-05-2023	17:00	15-05-2023 15:14	17-05-2023 10:38	43.40
523	OCC	GRIDCO	220KV-KATAPALLI-BOLANGIR(PG)-1	D	Tree trimming	18-05-2023	07:00	18-05-2023	16:00	15-05-2023 15:17	17-05-2023 10:42	43.42
524	OCC	PG (ODISHA PROJECT)	MAIN BAY (BUS 1) OF STATCOM AT JEYPORE	D	AMP WORKS	18-05-2023	08:00	18-05-2023	17:00	16-05-2023 09:52	17-05-2023 10:35	24.72
525	OCC	BSPTCL	132KV-KHSTPP-KAHALGAON(BSEB)-1	D	Tree pruning work and Maintenance work in line.	18-05-2023	09:00	18-05-2023	16:00	16-05-2023 15:14	17-05-2023 10:38	19.40
526	OCC	WRLDC	A/R OF 765KV-NEW RANCHI-DHARAMJAIGARH-2	D	OPGW ERECTION WORKS by POWERGRID	18-05-2023	07:00	18-05-2023	18:00	15-05-2023 13:14	17-05-2023 12:28	47.23
527	OCC	ER-I	220KV MAIN BUS - 1 AT RANCHI	D	BUS BAR STABILITY TESTING AND PROTECTION CHECKING OF ICT-3 BAY EXTENSION WORKS (UNDER ERSS XXVI)	18-05-2023	07:00	18-05-2023	17:00	15-05-2023 15:27	17-05-2023 12:27	45.00
528	OCC	ER-I	220KV-RANCHI-MTPS(DVC)-1	D	BUS BAR STABILITY TESTING AND PROTECTION CHECKING OF ICT-3 BAY EXTENSION WORKS (UNDER ERSS XXVI)	18-05-2023	07:00	18-05-2023	17:00	15-05-2023 13:13	17-05-2023 12:27	47.23
529	OCC	ER-I	220KV TRANSFER BUS AT RANCHI	D	BUS BAR STABILITY TESTING AND PROTECTION CHECKING OF ICT-3 BAY EXTENSION WORKS (UNDER ERSS XXVI)	18-05-2023	07:00	18-05-2023	17:00	15-05-2023 13:27	17-05-2023 12:27	47.00
530	OCC	WRLDC	A/R OF 220KV-BUDHIPADAR-KORBA-3	D	OPGW ERECTION WORKS by POWERGRID	18-05-2023	07:00	18-05-2023	18:00	15-05-2023 13:14	17-05-2023 12:28	47.23
531	OCC	ER-I	400KV MAIN BAY OF 125MVAR BR-II AT JAMSHEDPUR	C	Replacement & Testing of LBB relay(401) under ADD CAP	18-05-2023	09:00	19-05-2023	17:00	16-05-2023 07:21	17-05-2023 08:21	25.00
532	OCC	ER-I	400KV MAIN BAY OF 125 MVAR B/R-2 AT SITAMARHI	D	AMP	18-05-2023	10:00	18-05-2023	17:00	16-05-2023 09:07	17-05-2023 08:21	23.23
533	NON-OCC	WBSETCL	A/R OF 400KV-ARAMBAGH-BAKRESWAR-1	D	OPGW installation work	18-05-2023	08:00	18-05-2023	17:00	15-05-2023 17:54	17-05-2023 10:10	40.27
534	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-PUSAULI-1	D	OPGW installation work	18-05-2023	07:00	18-05-2023	17:00	15-05-2023 10:29	17-05-2023 10:10	47.68
535	OCC	ER-I	A/R OF 765KV-GAYA-VARANASI-2	D	OPGW installation Work	18-05-2023	07:00	18-05-2023	17:00	26-04-2023 15:55	28-04-2023 15:50	47.92
536	OCC	ER-I	A/R OF 400KV-PUSAULI(PG)-NABINAGAR(BRBL)-2	D	OPGW installation Work	18-05-2023	07:00	18-05-2023	17:00	15-05-2023 16:13	17-05-2023 10:10	41.95

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537	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-BANKA(PG)-2	D	OPGW installation Work	18-05-2023	07:00	18-05-2023	17:00	15-05-2023 16:14	17-05-2023 10:10	41.93
538	OCC	ER-II	A/R OF 400KV-DURGAPUR-SAGARDIGHI-1	D	OPGW installation Work	18-05-2023	07:00	18-05-2023	17:00	15-05-2023 18:22	17-05-2023 10:10	39.80
539	OCC	NRLDC	A/R OF 400KV-NAUBATPUR(BH)-BALIA-1	D	OPGW installation work	18-05-2023	07:00	18-05-2023	18:00	15-05-2023 18:46	17-05-2023 10:10	39.40
540	NON-OCC	JLHEP	220KV-JORETHANG-NEW MELLI-2	D	Preventive Maintenance work	19-05-2023	08:00	19-05-2023	17:00	16-05-2023 12:33	18-05-2023 10:21	45.80
541	OCC	WRLDC	A/R OF 765KV-NEW RANCHI-DHARAMJAIGARH-1	D	OPGW installation work	19-05-2023	07:00	19-05-2023	18:00	16-05-2023 15:45	18-05-2023 10:07	42.37
542	OCC	ER-I	A/R OF 220KV-PUSAULI(PG)-DURGAUT-1	D	OPGW Installation work	19-05-2023	07:00	19-05-2023	17:00	16-05-2023 10:35	18-05-2023 10:07	47.53
543	OCC	ER-I	A/R OF 220KV-PUSAULI(PG)-DURGAUT-2	D	OPGW Installation work	19-05-2023	07:00	19-05-2023	17:00	16-05-2023 10:35	18-05-2023 10:07	47.53
544	OCC	ER-II	A/R OF 400KV-SAGARDIGHI-FSTPP-1	D	OPGW installation Work	19-05-2023	07:00	19-05-2023	17:00	16-05-2023 11:12	18-05-2023 10:07	46.92
545	OCC	WBSETCL	400KV-KOLAGHAT-ARAMBAGH-1	D	Tree trimming	19-05-2023	07:00	19-05-2023	16:00	16-05-2023 17:06	18-05-2023 10:21	41.25
546	NON-OCC	WBSETCL	A/R OF 400KV-KOLAGHAT-NEW CHANDITALA-1	D	OPGW installation work	19-05-2023	08:00	19-05-2023	17:00	16-05-2023 15:15	18-05-2023 10:13	42.97
547	NON-OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-MUZAFFARPUR(PG)-1	D	PID TEST	19-05-2023	08:00	19-05-2023	17:00	16-05-2023 12:03	18-05-2023 10:13	46.17
548	NON-OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-MUZAFFARPUR(PG)-2	D	PID TEST	19-05-2023	08:00	19-05-2023	17:00	16-05-2023 12:03	18-05-2023 10:13	46.17
549	OCC	PMTL	400KV MAIN BAY OF 400KV/220KV 500 MVA ICT 2 AT SITAMARHI	D	AMP WORK	19-05-2023	09:00	19-05-2023	17:00	16-05-2023 11:33	18-05-2023 10:32	46.98
550	OCC	PG (ODISHA PROJECT)	400KV/220KV 315 MVA ICT 3 AT JEYPORE	D	AMP WORK	19-05-2023	08:00	19-05-2023	14:00	17-05-2023 14:23	18-05-2023 10:32	20.15
551	OCC	BSPTCL	132KV-KAHALGAON(BSEB)-LALMATIA-1	D	Tree pruning work and Maintenance work in line.	19-05-2023	09:00	19-05-2023	17:00	16-05-2023 15:14	18-05-2023 10:32	43.30
552	OCC	BSPTCL	132KV-KHSTPP-LALMATIA-1	D	Tree pruning work and Maintenance work in line.	19-05-2023	09:00	19-05-2023	17:00	16-05-2023 15:34	18-05-2023 10:32	42.97
553	OCC	ER-II	400KV-DURGAPUR-KHSTPP-1	D	Installation of OPGW (longer river span crossing between T.No. 253 to 254)	19-05-2023	07:00	19-05-2023	17:00	17-05-2023 09:15	18-05-2023 10:21	25.10
554	OCC	ER-II	400KV-ALIPURDUAR (PG)-JIGMELLING-2	D	Replacement of defective insulators	19-05-2023	08:00	19-05-2023	17:00	15-05-2023 10:33	17-05-2023 10:51	48.30
555	OCC	ER-I	220KV MAIN BUS - 2 AT RANCHI	D	BUS BAR STABILITY TESTING AND PROTECTION CHECKING OF ICT-3 BAY EXTENSION WORKS (UNDER ERSS XXVI)	19-05-2023	07:00	19-05-2023	17:00	17-05-2023 11:37	18-05-2023 10:24	22.78
556	OCC	ER-I	220KV-RANCHI-MTPS(DVC)-1	D	BUS BAR STABILITY TESTING AND PROTECTION CHECKING OF ICT-3 BAY EXTENSION WORKS (UNDER ERSS XXVI)	19-05-2023	07:00	19-05-2023	17:00	17-05-2023 11:39	18-05-2023 10:24	22.75
557	OCC	ER-I	220KV TRANSFER BUS AT RANCHI	D	BUS BAR STABILITY TESTING AND PROTECTION CHECKING OF ICT-3 BAY EXTENSION WORKS (UNDER ERSS XXVI)	19-05-2023	07:00	19-05-2023	17:00	17-05-2023 11:41	18-05-2023 10:24	22.72
558	OCC	ER-I	125MVAR 400KV B/R-2 AT JAMSHEDPUR	D	CSD Commissioning & Testing for Main Bay CB (401) retrofitted under Add. Cap.	19-05-2023	09:00	19-05-2023	18:00	16-05-2023 16:13	18-05-2023 15:27	47.23
559	OCC	ER-II	A/R OF 400KV-BINAGURI-BONGAIGAON-2	D	Reconductoring works of 400 KV Binaguri-Bongaigaon-1	19-05-2023	08:00	19-05-2023	17:00	16-05-2023 16:41	18-05-2023 16:59	48.30
560	NON-OCC	WBSETCL	A/R OF 400KV-ARAMBAGH-BAKRESWAR-1	D	OPGW installation work	19-05-2023	08:00	19-05-2023	17:00	16-05-2023 17:54	18-05-2023 10:07	40.22
561	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-PUSAULI-1	D	OPGW installation work	19-05-2023	07:00	19-05-2023	17:00	16-05-2023 10:29	18-05-2023 10:07	47.63
562	OCC	ER-I	A/R OF 765KV-GAYA-VARANASI-2	D	OPGW installation Work	19-05-2023	07:00	19-05-2023	17:00	26-04-2023 15:52	28-04-2023 15:50	47.97
563	OCC	ER-I	A/R OF 400KV-PUSAULI(PG)-NABINAGAR(BRCL)-2	D	OPGW installation Work	19-05-2023	07:00	19-05-2023	17:00	16-05-2023 16:13	18-05-2023 10:07	41.90
564	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-BANKA(PG)-2	D	OPGW installation Work	19-05-2023	07:00	19-05-2023	17:00	16-05-2023 16:14	18-05-2023 10:07	41.88

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(Pinki Debnath)
Ch Manager



मा. दाम

(Manas Das)
Dy General Manager

565	OCC	ER-II	A/R OF 400KV-DURGAPUR-SAGARDIGHI-1	D	OPGW installation Work	19-05-2023	07:00	19-05-2023	17:00	16-05-2023 18:22	18-05-2023 10:07	39.75
566	OCC	NRLDC	A/R OF 400KV-NAUBATPUR(BH)-BALIA-1	D	OPGW installation work	19-05-2023	07:00	19-05-2023	18:00	16-05-2023 18:46	18-05-2023 10:07	39.35
567	NON-OCC	JLHEP	220KV-JORETHANG-NEW MELLI-2	D	Preventive Maintenance work	20-05-2023	08:00	20-05-2023	17:00	17-05-2023 12:33	19-05-2023 10:31	45.97
568	OCC	WRLDC	A/R OF 765KV-NEW RANCHI-DHARAMJAIGARH-1	D	OPGW installation work	20-05-2023	07:00	20-05-2023	18:00	17-05-2023 15:45	19-05-2023 10:09	42.40
569	OCC	ER-I	A/R OF 220KV-PUSAULI(PG)-DURGAUTI-1	D	OPGW Installation work	20-05-2023	07:00	20-05-2023	17:00	17-05-2023 10:35	19-05-2023 10:09	47.57
570	OCC	ER-I	A/R OF 220KV-PUSAULI(PG)-DURGAUTI-2	D	OPGW Installation work	20-05-2023	07:00	20-05-2023	17:00	17-05-2023 10:35	19-05-2023 10:09	47.57
571	OCC	ER-II	A/R OF 400KV-SAGARDIGHI-FSTPP-1	D	OPGW installation Work	20-05-2023	07:00	20-05-2023	17:00	17-05-2023 11:12	19-05-2023 10:09	46.95
572	OCC	WBSETCL	400KV-ARAMBAGH-NEW CHANDITALA-1	D	Tree trimming	20-05-2023	07:00	20-05-2023	16:00	17-05-2023 16:37	19-05-2023 10:39	42.03
573	NON-OCC	WBSETCL	A/R OF 400KV-KOLAGHAT-NEW CHANDITALA-1	D	OPGW installation work	20-05-2023	08:00	20-05-2023	17:00	17-05-2023 08:58	19-05-2023 10:16	49.30
574	OCC	FR-I	220KV-RANCHI-MTPS(DVC)-1	D	BUS BAR STABILITY TESTING AND PROTECTION CHECKING OF ICT-3 BAY EXTENSION WORKS (UNDER ERSS XXVI)	20-05-2023	07:00	20-05-2023	17:00	18-05-2023 11:45	19-05-2023 10:45	23.00
575	OCC	FR-I	220KV TRANSFER BUS AT RANCHI	D	BUS BAR STABILITY TESTING AND PROTECTION CHECKING OF ICT-3 BAY EXTENSION WORKS (UNDER ERSS XXVI)	20-05-2023	07:00	20-05-2023	17:00	18-05-2023 11:48	19-05-2023 10:45	22.95
576	OCC	FR-I	220KV MAIN BUS - 1 AT RANCHI	D	BUS BAR STABILITY TESTING AND PROTECTION CHECKING OF ICT-3 BAY EXTENSION WORKS (UNDER ERSS XXVI)	20-05-2023	07:00	20-05-2023	17:00	18-05-2023 11:48	19-05-2023 10:45	22.95
577	NON-OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-PUSAULI-2	D	PID TEST	20-05-2023	08:00	20-05-2023	17:00	17-05-2023 12:07	19-05-2023 10:09	46.03
578	NON-OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-PUSAULI-1	D	PID TEST	20-05-2023	08:00	20-05-2023	17:00	17-05-2023 12:07	19-05-2023 10:09	46.03
579	OCC	ER-I	400KV-NEW RANCHI-CHANDWA-2	D	CONSTRUCTION WORK OF 400KV CHANDWA-LATEHAR D/C LINE UNDER CONSULTANCY SERVICES TO JUSNL	20-05-2023	08:00	20-05-2023	17:00	15-05-2023 10:28	16-05-2023 14:28	28.00
580	OCC	ER-I	400KV-NEW RANCHI-CHANDWA-1	D	CONSTRUCTION WORK OF 400KV CHANDWA-LATEHAR D/C LINE UNDER CONSULTANCY SERVICES TO JUSNL	20-05-2023	07:00	20-05-2023	17:00	14-05-2023 16:09	16-05-2023 14:32	46.38
581	OCC	ER-II	400KV-DURGAPUR-KHSTPP-1	D	Installation of OPGW (longer river span crossing between T.No. 253 to 254) Shutdown of 400KV- DURGAPUR-KHSTPP-1 is required	20-05-2023	07:00	20-05-2023	17:00	17-05-2023 09:15	19-05-2023 10:39	49.40
582	OCC	ER-II	A/R OF 400KV-BINAGURI-BONGAIGAON-2	D	Reconductoring work with HTLS conductor in Ckt-I	20-05-2023	08:00	20-05-2023	17:00	15-05-2023 10:29	17-05-2023 09:34	47.08
583	OCC	ER-II	400KV-ALIPURDUAR (PG)-JIGMELLING-2	D	Replacement of defective insulators	20-05-2023	08:00	20-05-2023	17:00	15-05-2023 11:36	17-05-2023 10:51	47.25
584	OCC	GRIDCO	400KV-LAPANGA-OPGC (IB THERMAL)-2	D	Trimming of tree branches	20-05-2023	07:00	20-05-2023	17:00	17-05-2023 10:59	19-05-2023 10:39	47.67
585	OCC	PG (ODISHA PROJECT)	125MVAR MSR-1 OF STATCOM AT JEYPORE	D	AMP WORKS	20-05-2023	09:00	20-05-2023	17:00	17-05-2023 11:08	19-05-2023 10:39	47.52
586	OCC	ER-I	400KV-BINAGURI-NEW PURNEA-2	D	CHECKING DT SCHEME AT NEW PURNEA	20-05-2023	08:00	20-05-2023	17:00	17-05-2023 12:22	19-05-2023 10:31	46.15
587	OCC	ER-II	A/R OF 400KV-KISHANGANJ(PG)-RANGPO-2	D	OPGW installation work	20-05-2023	07:00	20-05-2023	17:00	18-05-2023 09:20	19-05-2023 10:16	24.93
588	NON-OCC	ER-II	400KV-DURGAPUR-BIDHANNAGAR-2	D	protection trip testing of 404 CB (Main Bay), newly retrofitted against ADDCAP at Durgapur S/s.	20-05-2023	09:30	20-05-2023	13:00	17-05-2023 11:17	19-05-2023 10:31	47.23
589	OCC	PMTL	400KV MAIN BAY OF 125 MVAR B/R-1 AT SITAMARHI	D	AMP WORK	20-05-2023	10:00	20-05-2023	17:00	17-05-2023 11:25	19-05-2023 10:39	47.23
590	NON-OCC	WBSETCL	A/R OF 400KV-ARAMBAGH-BAKRESWAR-1	D	OPGW installation work	20-05-2023	08:00	20-05-2023	17:00	17-05-2023 17:54	19-05-2023 10:09	40.25
591	OCC	ER-I	A/R OF 765KV-GAYA-VARANASI-2	D	OPGW installation Work	20-05-2023	07:00	20-05-2023	17:00	26-04-2023 15:40	28-04-2023 15:50	48.17

पिंकी देबनथ

(Pinki Debnath)
Ch Manager



मानस दास

(Manas Das)
Dy General Manager

5(B)

<angsujit@powergrid.in>; Niranjan Rajwar (निरंजन रजवार) <niranjanrajwar@powergrid.in>
Cc: R Wadhwa (आर. वाधवा) <r_wadhwa@powergrid.in>; Surya Prakash (सूर्य प्रकाश) <surya_prakash@powergrid.in>; Rajesh Kumar Saini (राजेश कुमार सैनी) <rk_saini@powergrid.in>; Ankur Kumar (अंकुर कुमार) <ankur@powergrid.in>; Hansraj Prasad (हंसराज प्रसाद) <hansraj@powergrid.in>; Sudeep Kumar (सुदीप कुमार) <sudeepkumar@powergrid.in>; Shabbir Ahamed Ansari (शब्बीर अहमद अंसारी) <shabbirahamadansari@powergrid.in>
Subject: Fw: FW: Shutdown Approval Request For Bus Bar Stability tests at Ranchi for 500 MVA ICT3 Bay Extension Work(Revised Plan)

REGARDS
RTAMC PATNA
MOB-9771413600/ 8544401068

From: SLDC, JSEB Ranchi. <sldcranchi@gmail.com>
Sent: Friday, May 19, 2023 9:40 PM
To: ERLDC Outage <erldcoutage@grid-india.in>; ERLDC Control Room <erldccr@grid-india.in>; RTAMC Patna <rtamcer1@powergrid.co.in>; rtamcer1 <rtamcer1@powergrid.in>
Cc: SLDC DVC <dvcslcdc@gmail.com>
Subject: Re: FW: FW: Shutdown Approval Request For Bus Bar Stability tests at Ranchi for 500 MVA ICT3 Bay Extension Work(Revised Plan)

Sir,

As per instruction of higher authority, the proposed S/D of 220 KV Main Bus- I at Ranchi (PG) S/S for dated 20.05.2023 from 07:00 hrs to 17:00 hrs may kindly be deferred till further due to continuous load shedding & public agitation in Ranchi complex.

On Fri, May 19, 2023 at 8:24 PM ERLDC Outage <erldcoutage@grid-india.in> wrote:

Sir,

Please find the attached approval for requested shutdown for 20-05-23.

Regards

ERLDC Outage



From: SLDC DVC <dvcslcdc@gmail.com>
Sent: Friday, May 19, 2023 7:19 PM
To: ERLDC Outage <erldcoutage@grid-india.in>
Cc: RABIN MANDAL DGM Transmission <rabin.mandal@dvc.gov.in>; mtps220kvcontrolroom@gmail.com
Subject: Re: FW: Shutdown Approval Request For Bus Bar Stability tests at Ranchi for 500 MVA ICT3 Bay Extension Work(Revised Plan)

****Warning****

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Thanks and Regards

ERLDC Outage Team

From: rtamcer1 <rtamcer1@powergrid.in>
Sent: Thursday, May 18, 2023 9:19 AM
To: ERLDC Control Room <erldccr@grid-india.in>; erldc.cal@gmail.com; ERLDC Outage <erldcoutage@grid-india.in>
Cc: sldcranchi@gmail.com; mtps220kvcontrolroom@gmail.com
Subject: Re: Shutdown Approval Request For Bus Bar Stability tests at Ranchi for 500 MVA ICT3 Bay Extension Work(Revised Plan)

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REGARDS
RTAMC PATNA
MOB-9771413600/ 8544401068

From: rtamcer1 <rtamcer1@powergrid.in>
Sent: Thursday, May 18, 2023 9:00 AM
To: ERLDCCR@GRID-INDIA.IN <ERLDCCR@GRID-INDIA.IN>; erldc.cal@gmail.com <erldc.cal@gmail.com>
Cc: sldcranchi@gmail.com <sldcranchi@gmail.com>; mtps220kvcontrolroom@gmail.com <mtps220kvcontrolroom@gmail.com>
Subject: Fw: Shutdown Approval Request For Bus Bar Stability tests at Ranchi for 500 MVA ICT3 Bay Extension Work(Revised Plan)

REGARDS
RTAMC PATNA
MOB-9771413600/ 8544401068



From: Niranjana Rajwar (निरंजन रजवार) <niranjanaajwar@powergrid.in>
Sent: Thursday, May 18, 2023 8:57 AM
To: rtamcer1 <rtamcer1@powergrid.in>
Cc: S Samanta (एस. सामंता) <s.samanta@powergrid.in>; Rajesh Kumar Saini (राजेश कुमार सैनी) <rksaini@powergrid.in>; Ankur Kumar (अंकुर कुमार) <ankur@powergrid.in>; Angsujit Bhattacharya (ए. भट्टाचार्य) <angsujit@powergrid.in>; Shilpi Naina Toppo (शिल्पी नैना टोप्पो) <shilpi@powergrid.in>; Babru Bahan Nanda (बब्रु बाहन नन्द) <babru@powergrid.in>; Dilip Prajapati (दिलीप प्रजापति) <dilip.prajapati@powergrid.in>; Rohit Kumar Srivastava (रोहित कुमार श्रीवास्तव) <rohitkumar@powergrid.in>
Subject: Re: Shutdown Approval Request For Bus Bar Stability tests at Ranchi for 500 MVA ICT3 Bay Extension Work(Revised Plan)

Respected Sir,

Shutdown work of 400kV Bus-2 for Bus Bar completed today and has been returned at 08:27Hrs dtd 18.05.23.

The entire team was engaged in testing of 400kV Bus-2 and completed it successfully till 08:27Hrs of today dtd 18.05.23.

In view of the situation as sought above, It is kind request to consider the **rescheduling of shutdown of 220kV Bus-1 only.**

Plan for 220kV Bus-2 shutdown shall be intact as per schedule given in trailing mail.

So, Plan for revised schedule may be considered as following.

1. 220KV Main BUS-II with Transfer Bus and 220kV Mejia line : on 19.05.2023
2. 220KV Main BUS-I with Transfer Bus and 220kV Mejia line: on 20.05.2023.

Regards
Niranjan Rajwar
Manager,
POWERGRID 400/220 Namkum Substation

From: Shilpi Naina Toppo (शिल्पी नैना टोप्पो) <shilpi@powergrid.in>
Sent: 18 May 2023 08:38
To: Niranjan Rajwar (निरंजन रजवार) <niranjanrajwar@powergrid.in>
Subject: Fw: Shutdown Approval Request For Bus Bar Stability tests at Ranchi for 500 MVA ICT3 Bay Extension Work(Revised Plan)

From: Rajesh Kumar Saini (राजेश कुमार सैनी) <rksaini@powergrid.in>
Sent: Wednesday, May 17, 2023 11:32 AM
To: SLDC JUSNL Ranchi <slsdcranchi@gmail.com>
Cc: edoperationjusnl@gmail.com <edoperationjusnl@gmail.com>; Director JUSNL <dir.p.jusnl@gmail.com>; S Samanta (एस. सामंता) <s.samanta@powergrid.in>; Ankur Kumar (अंकुर कुमार) <ankur@powergrid.in>; ajitpratapsingh@ntpc.co.in <ajitpratapsingh@ntpc.co.in>; Shailesh Prakash <shaileshjseb@gmail.com>; Ram Kumar Gazaresen (आर.के. गजरेसन) <gazaresen@powergrid.in>; Saket Saurav (साकेत सौरव) <saket.saurav@powergrid.in>
Subject: Re: Shutdown Approval Request For Bus Bar Stability tests at Ranchi for 500 MVA ICT3 Bay Extension Work(Revised Plan)

Dear Sir,

In trailing mail, 08-05-2023 may be read as 18-05-2023.

With Regards,

(Rajesh Kr. Saini)

Sr. DGM / Ranchi SS

9771463614



<shilpi@powergrid.in>

Subject: Re: Shutdown Approval Request For Bus Bar Stability tests at Ranchi for 500 MVA ICT3 Bay Extension Work(Revised Plan)

Respected Sir,

As shutdown of 400 Main BUS-II is planned for tomorrow dtd 17.05.23 for Bus Bar stability test.

Since Wiring & connection on 220kV Side are already completed, therefore It has been planned to reschedule the shutdown of 220kV Bus Shutdown for their stability test.

It is also to be submitted that commissioning of 500 MVA ICT-3 at 400/220 KV Ranchi SS is highly matter of concern to SLDC/JUSNL also ,So It is kind request to consider concurrence of the shutdown request as per following plans and schedules.

1. 400 Main BUS-II : on Dtd 17.05.2023
2. 220KV Main BUS-I with Transfer Bus and 220kV Mejia line: on dtd 18.05.2023
3. 220KV Main BUS-II with Transfer Bus and 220kV Mejia line : on dtd 19.05.2023

Regards

Niranjan

From: Babru Bahan Nanda (बब्रु बाहन नन्द) <babru@powergrid.in>

Sent: 12 May 2023 18:07

To: rtamcer1 <rtamcer1@powergrid.in>

Cc: Dilip Prajapati (दिलीप प्रजापति) <dilip.prajapati@powergrid.in>; R Wadhwa (आर. वाधवा)

<r_wadhwa@powergrid.in>; Ankur Kumar (अंकुर कुमार) <ankur@powergrid.in>; Surya Prakash (सूर्य प्रकाश)

<surya_prakash@powergrid.in>; Rajesh Kumar Saini (राजेश कुमार सेनी) <rksaini@powergrid.in>; S Samanta (एस.

सामंती) <s.samanta@powergrid.in>; Angsujit Bhattacharya (ए. भट्टाचार्य) <angsujit@powergrid.in>; Shilpi Naina Toppo

(शिल्पी नैना टोप्पो) <shilpi@powergrid.in>; Niranjan Rajwar (निरंजन रजवार) <niranjanrajwar@powergrid.in>

Subject: Shutdown Approval Request For Bus Bar Stability tests at Ranchi for 500 MVA ICT3 Bay Extension Work(Revised Plan)

Dear Sir

As sought in trailing mail,Commissioning of 500 MVA ICT-3 at 400/220 KV Ranchi SS is almost at its final stage.

So, Busbar stability tests are to be carried out as per the following plans and schedules.

1. 400 Main BUS-II : on Dtd 17.05.2023
2. 220KV Main BUS-I with Transfer Bus and 220kV Mejia line: on dtd 20.05.2023
3. 220KV Main BUS-II with Transfer Bus and 220kV Mejia line : on dtd 21.05.2023

Complete Element name (Voltage level, Rating, number) :	400 Main BUS-II at Ranchi Ss
Reason of shutdown :	BUS BAR STABILITY TESTING AND PROTECTION CHECKING OF ICT-3 BAY EXTENSION WORKS (UNDER CONSTRUCTION HEAD ERSS XXVI)
Nature of shutdown :	OCC
OCC No. & Serial No. :	202 nd (MAY) OCC /246 /ODB
Shutdown requisition date and time :	(FROM 07:00 TO 17:00HRS) ON 17.05.2023
Any associated element outage :	NA



(A)

Kindly Note : RTAMC ER1 email ID changed from rtamcer1@powergrid.co.in to rtamcer1@powergrid.in.

It is requested to send email to rtamcer1@powergrid.in for future communication.

From: Niranjana Rajwar (निरंजन रजवार) <niranjanaajwar@powergrid.in>

Sent: Friday, May 19, 2023 11:40 PM

To: rtamcer1 <rtamcer1@powergrid.in>

Cc: Rajesh Kumar Saini (राजेश कुमार सैनी) <rksaini@powergrid.in>; Ankur Kumar (अंकुर कुमार) <ankur@powergrid.in>; S Samanta (एस. सामंता) <s.samanta@powergrid.in>; Shilpi Naina Toppo (शिल्पी नैना टोप्पो) <shilpi@powergrid.in>; Angsujit Bhattacharya (ए. भट्टाचार्य) <angsujit@powergrid.in>; Rohit Kumar Srivastava (रोहित कुमार श्रीवास्तव) <rohitkumar@powergrid.in>; Babru Bahan Nanda (बब्रु बाहन नन्द) <babru@powergrid.in>; Dilip Prajapati (दिलीप प्रजापति) <dilip.prajapati@powergrid.in>

Subject: Re: FW: FW: Shutdown Approval Request For Bus Bar Stability tests at Ranchi for 500 MVA ICT3 Bay Extension Work(Revised Plan)

Respected Sir

As shutdown of 220kV Bus-1 for dtd 20.05.23 has been deffered by SLDC as sought in trailing mail.

200kV Bus -1 shutdown was already approved, accordingly all arrangement for testing of Bus bar stability and protection checking of ICT-3 was ready at site.

In view of situation as sought in trailing mail by SLDC Ranchi, We are requesting you to please consider the concurrence for shutdown of 220kV Bus -1 along with transfer Bus and 200kV Mejia line for Dated 21.05.23.

Your kind consideration is highly solicited.

Regards



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From: rtamcer1 <rtamcer1@powergrid.in>

Sent: Friday, 19 May, 2023, 9:43 pm

To: Shilpi Naina Toppo (शिल्पी नैना टोप्पो) <shilpi@powergrid.in>; Angsujit Bhattacharya (ए. भट्टाचार्य)

Outlook

61B

Re: Shutdown Approval Request For Bus Bar Stability tests at Ranchi for 500 MVA ICT3 Bay Extension Work(Revised Plan)

From SLDC,JSEB Ranchi <sldcranchi@gmail.com>

Date Sat 20/05/2023 16:17

To ERLDC Outage <erldcoutage@grid-india.in>

Cc dvcsldc@gmail.com <dvcsldc@gmail.com>; preetoshonly@gmail.com <preetoshonly@gmail.com>; ranjtushar@gmail.com <ranjtushar@gmail.com>; sldcranchi.report@gmail.com <sldcranchi.report@gmail.com>; Ankur Kumar {अंकुर कुमार} <ankur@powergrid.in>; rtamcer1 <rtamcer1@powergrid.in>

Sir

Due to coal shortage IPL(Inland Power) one of the CPP feeding power into Ranchi Complex will shutdown its generation unit . Therefore, the proposed S/D is not possible right now. Kindly, defer the S/D till further.

Regards

SLDC Ranchi

On Sat, May 20, 2023 at 12:06 PM SLDC,JSEB Ranchi <sldcranchi@gmail.com> wrote:

Sir,

Accorded on following condition:-

- 1.kindly allow to avail 250 MW power on ICTs of Hatia GSS during S/D.
- 2.The proposed S/D must be returned on or before 17:00 Hrs to avoid load shedding in ranchi complex.

On Sat, May 20, 2023 at 10:53 AM ERLDC Outage <erldcoutage@grid-india.in> wrote:

Sir,

For consent Please.

Regards

ERLDC Outage

From: rtamcer1 <rtamcer1@powergrid.in>

Sent: Saturday, May 20, 2023 12:43 AM

To: sldcranchi@gmail.com; ERLDC Outage <erldcoutage@grid-india.in>; ERLDC Outage <erldcoutage@grid-india.in>

Cc: Ankur Kumar {अंकुर कुमार} <ankur@powergrid.in>

Subject: [SPAM]Fw: FW: Shutdown Approval Request For Bus Bar Stability tests at Ranchi for 500 MVA ICT3 Bay Extension Work(Revised Plan)

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REGARDS

RTAMC PATNA

MOB-9771413600/ 8544401068

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Home › India › President Murmu to embark on a three-day visit to Jharkhand from tomorrow

President Murmu to embark on a three-day visit to Jharkhand from tomorrow

ANI 23 May 2023 10:14 pm IST



President Droupadi Murmu (File Photo/ANI)

Text Size: A- A+

New Delhi [India], May 23 (ANI): President Droupadi Murmu will embark on a three-day visit to Jharkhand from May 24 to 26, 2023.

Advertisement

During her tour, President Murmu will visit Ranchi and Kunti districts of Jharkhand.

According to President's Secretariat, on May 24, 2023, the President will inaugurate the new building of the Jharkhand High Court at Ranchi.



President Murmu will grace a Women's Conference organized by the Union Ministry of Tribal Affairs at Khunti on May 25, 2023. On the same day, she will also grace the 2nd convocation of the Indian Institute of Information Technology, at Namkum, Ranchi.

On the same evening, she will attend a civic reception hosted in her honour by the Government of Jharkhand at Raj Bhavan, Ranchi, as stated by the President's Secretariat. (ANI)

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Approved Shutdown list for the month of May'23

Sr. No	Request Type	Name of Requesting Agency	Element Name	Daily/ Continuous	Reason	From Date	From Time	To Date	To Time	Shutdown Creation Date	Approval Date	Time taken Calculated
1	OCC	BHUTAN	400KV-BINAGURI-TALA-4	D	Carrying out Field Efficiency test(FET) for THP unit- IV	01-05-2023	17:00	01-05-2023	23:00	29-04-2023 16:53	30-04-2023 16:07	23.23
2	NON-OCC	WBSETCL	A/R OF 400KV-KOLAGHAT-NEW CHANDITALA-1	D	OPGW installation work	01-05-2023	08:00	01-05-2023	17:00	27-04-2023 15:15	28-04-2023 15:30	24.25
3	NON-OCC	ER-I	A/R OF 400KV-NEW RANCHI-RANCHI-4	D	For PID testing	01-05-2023	08:00	01-05-2023	17:00	27-04-2023 10:34	28-04-2023 15:30	28.93
4	NON-OCC	ER-I	A/R OF 400KV-NEW RANCHI-RANCHI-3	D	For PID testing	01-05-2023	08:00	01-05-2023	17:00	27-04-2023 10:34	28-04-2023 15:30	28.93
5	NON-OCC	WBSETCL	A/R OF 400KV-ARAMBAGH-BAKRESWAR-1	D	OPGW installation work	01-05-2023	08:00	01-05-2023	17:00	26-04-2023 17:54	28-04-2023 15:30	45.60
6	OCC	DARLIPALI (NTPC)	262MVAR 765KV B/R-1 AT DARLIPALI (DSTPS)	C	ANNUAL TESTING OF BREAKER, CT, ISOLATOR, LA BUSHING OF REACTOR BAY AND ATTENDING SOME DEFECTS IN REACTOR.	01-05-2023	08:00	07-05-2023	17:00	28-04-2023 10:07	30-04-2023 10:07	48.00
7	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-PUSAULI-1	D	OPGW installation work	01-05-2023	07:00	01-05-2023	17:00	26-04-2023 16:16	28-04-2023 15:30	47.23
8	NON-OCC	ER-II	400KV-TEESTA-III-RANGPO-1	D	OPGW installation Work	01-05-2023	07:00	01-05-2023	16:00	26-04-2023 16:46	28-04-2023 16:00	47.23
9	OCC	ER-I	A/R OF 765KV-GAYA-VARANASI-2	D	OPGW installation Work	01-05-2023	07:00	01-05-2023	17:00	28-04-2023 15:38	30-04-2023 10:07	42.48
10	OCC	ER-I	A/R OF 400KV-PUSAULI(PG)-NABINAGAR(BRBCL)-2	D	OPGW installation Work	01-05-2023	07:00	01-05-2023	17:00	26-04-2023 17:02	28-04-2023 16:16	47.23
11	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-BANKA(PG)-2	D	OPGW installation Work	01-05-2023	07:00	01-05-2023	17:00	26-04-2023 17:02	28-04-2023 16:16	47.23
12	OCC	ER-II	A/R OF 400KV-DURGAPUR-SAGARDIGHI-1	D	OPGW installation Work	01-05-2023	07:00	01-05-2023	17:00	28-04-2023 18:22	30-04-2023 11:25	41.05
13	OCC	ER-I	A/R OF 400KV-MOTIHARI-BARH-2	D	PID Test.	01-05-2023	07:00	01-05-2023	17:00	29-04-2023 18:37	30-04-2023 11:25	16.80
14	OCC	ER-I	A/R OF 400KV-BARH-MOTIHARI-1	D	PID Test.	01-05-2023	07:00	01-05-2023	17:00	29-04-2023 18:37	30-04-2023 11:25	16.80
15	OCC	NRLDC	A/R OF 400KV-NAUBATPUR(BH)-BALIA-1	D	OPGW installation work	01-05-2023	07:00	01-05-2023	18:00	29-04-2023 18:46	30-04-2023 11:25	16.65
16	EMERGENCY	ER-I	A/R OF 400KV-NABINAGAR (NPGC)-JAKKANPUR(BH)-1	D	installation of pilot insulator string	01-05-2023	08:00	01-05-2023	17:00	29-04-2023 18:51	30-04-2023 11:25	16.57
17	EMERGENCY	ER-I	400KV-NABINAGAR (NPGC)-JAKKANPUR(BH)-2	D	installation of pilot insulator string	01-05-2023	08:00	01-05-2023	17:00	29-04-2023 18:56	30-04-2023 11:29	16.55
18	OCC	NRLDC	132KV-RIHAND-NAGARUNTARI-1	C	Replacemnet of old isolator with new one	01-05-2023	10:00	06-05-2023	17:00	29-04-2023 19:02	30-04-2023 11:29	16.45
19	OCC	WRLDC	A/R OF 765KV-NEW RANCHI-DHARAMJAIGARH-1	D	OPGW installation work	01-05-2023	07:00	01-05-2023	08:00	29-04-2023 19:37	30-04-2023 11:25	15.80
20	NON-OCC	ER-II	A/R OF 400KV-BINAGURI-BONGAIGAON-2	D	Reconductoring works of 400 KV Binaguri-Bongaigaon-1	02-05-2023	08:00	02-05-2023	17:00	29-04-2023 15:38	01-05-2023 10:23	42.75
21	EMERGENCY	BSPTCL	220KV-PATNA-FATUHA-1	D	sag rectification	02-05-2023	08:00	02-05-2023	17:00	29-04-2023 11:37	01-05-2023 10:51	47.23
22	OCC	ER-I	400KV TIE BAY OF (315MVA ICT-1 AND 175MVAR BR-I) AT JAMSHEDPUR	C	Replacement & Testing of LBB relay (411) under ADD CAP	02-05-2023	09:00	03-05-2023	17:00	29-04-2023 16:23	01-05-2023 15:58	47.57
23	OCC	GRIDCO	220KV-ROURKELA-TARKERA-1	D	Installation and commissioning of MFM, tightening of jumpers at Tarkera end.	02-05-2023	08:00	02-05-2023	16:00	30-04-2023 12:04	01-05-2023 09:37	21.55
24	OCC	ER-I	A/R OF 220KV-PUSAULI(PG)-DURGAUT-1	D	OPGW Installation work	02-05-2023	07:00	02-05-2023	17:00	30-04-2023 09:25	01-05-2023 10:43	25.30
25	OCC	ER-I	A/R OF 220KV-PUSAULI(PG)-DURGAUT-2	D	OPGW Installation work	02-05-2023	07:00	02-05-2023	17:00	30-04-2023 11:29	01-05-2023 10:43	23.23
26	NON-OCC	WBSETCL	A/R OF 400KV-KOLAGHAT-NEW CHANDITALA-1	D	OPGW installation work	02-05-2023	08:00	02-05-2023	17:00	29-04-2023 15:15	01-05-2023 10:39	43.40
27	NON-OCC	ER-I	A/R OF 400KV-NEW RANCHI-RANCHI-4	D	PID testing	02-05-2023	08:00	02-05-2023	17:00	30-04-2023 10:34	01-05-2023 10:39	24.08

पिंकी देबनाथ

(Pinki Debnath)
Ch Manager



मा. दसा

(Manas Das)
Dy General Manager

796	NON-OCC	WBSETCL	A/R OF 400KV-ARAMBAGH-BAKRESWAR-1	D	OPGW installation work	27-05-2023	08:00	27-05-2023	17:00	24-05-2023 17:54	26-05-2023 10:14	40.33
797	OCC	ER-I	220KV-RANCHI-MTPS(DVC)-1	D	BUS BAR STABILITY & PROTECTION CHECKING OF UPCOMING ICT-3	27-05-2023	08:00	27-05-2023	16:00	24-05-2023 11:34	26-05-2023 10:48	47.23
798	OCC	ER-I	220KV MAIN BUS - 1 AT RANCHI	D	FOR BUS BAR STABILITY & PROTECTION CHECKING OF UPCOMING ICT-3	27-05-2023	08:00	27-05-2023	16:00	24-05-2023 13:48	26-05-2023 10:48	45.00
799	OCC	ER-I	400KV-BARIPADA-TISCO-1	D	REPLACEMENT OF BROKEN INSULATOR BY MISCREANTS	27-05-2023	08:00	27-05-2023	17:00	24-05-2023 14:16	26-05-2023 13:30	47.23
800	OCC	ER-I	220KV TRANSFER BUS AT RANCHI	D	BUS BAR STABILITY & PROTECTION CHECKING OF UPCOMING ICT-3	27-05-2023	08:00	27-05-2023	16:00	24-05-2023 16:56	26-05-2023 14:56	46.00
801	OCC	ER-II	400KV-DURGAPUR-KHSTPP-1	D	For Installation of OPGW (longer river span crossing between T.No. 253 to 254)	27-05-2023	11:00	27-05-2023	16:00	24-05-2023 16:06	26-05-2023 15:20	47.23
802	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-BANKA(PG)-2	D	OPGW installation Work	27-05-2023	07:00	27-05-2023	17:00	24-05-2023 16:14	26-05-2023 10:14	42.00
803	OCC	ER-II	A/R OF 400KV-DURGAPUR-SAGARDIGHI-1	D	OPGW installation Work	27-05-2023	07:00	27-05-2023	17:00	24-05-2023 18:22	26-05-2023 10:20	39.97
804	OCC	WRLDC	A/R OF 765KV-NEW RANCHI-DHARAMJAIGARH-1	D	OPGW installation work	28-05-2023	07:00	28-05-2023	18:00	24-05-2023 15:45	26-05-2023 15:07	47.37
805	OCC	ER-I	A/R OF 220KV-PUSAULI(PG)-DURGAUT-1	D	OPGW Installation work	28-05-2023	07:00	28-05-2023	17:00	25-05-2023 10:35	26-05-2023 15:07	28.53
806	OCC	ER-I	A/R OF 220KV-PUSAULI(PG)-DURGAUT-2	D	OPGW Installation work	28-05-2023	07:00	28-05-2023	17:00	25-05-2023 10:35	26-05-2023 15:07	28.53
807	OCC	ER-II	A/R OF 400KV-SAGARDIGHI-FSTPP-1	D	OPGW installation Work	28-05-2023	07:00	28-05-2023	17:00	25-05-2023 11:12	26-05-2023 15:07	27.92
808	NON-OCC	WBSETCL	A/R OF 400KV-KOLAGHAT-NEW CHANDITALA-1	D	OPGW installation work	28-05-2023	08:00	28-05-2023	17:00	25-05-2023 15:15	26-05-2023 15:14	23.98
809	OCC	ER-II	A/R OF 400KV-KISHANGANJ(PG)-RANGPO-2	D	OPGW installation Work	28-05-2023	07:00	28-05-2023	17:00	25-05-2023 09:20	26-05-2023 15:14	29.90
810	OCC	WBSETCL	400KV-MEDINIPUR-KHARAGPUR-1	D	Tree Trimming & maintenance Work	28-05-2023	05:00	28-05-2023	16:00	23-05-2023 12:52	25-05-2023 12:45	47.88
811	NON-OCC	ER-I	A/R OF 400KV-PUSAULI(PG)-NABINAGAR(BRCL)-1	D	PID test	28-05-2023	07:00	28-05-2023	17:00	24-05-2023 16:07	26-05-2023 15:14	47.12
812	NON-OCC	ER-I	A/R OF 400KV-PUSAULI(PG)-DALTONGANJ-1	D	PID test	28-05-2023	07:00	28-05-2023	17:00	24-05-2023 16:07	26-05-2023 15:14	47.12
813	OCC	ER-II	A/R OF 400KV-BINAGURI-BONGAIGAON-1	D	To facilitate reconductoring work with HTLS conductor in CKT.-2	28-05-2023	08:00	28-05-2023	17:00	16-05-2023 17:14	18-05-2023 17:07	47.88
814	OCC	ER-I	400KV-RANCHI-RAGHUNATHPUR-1	D	REPLACEMENT OF PORCELAIN INSULATOR BY POLYMER INSULATOR AT MAJOR CROSSINGS	28-05-2023	08:00	28-05-2023	17:00	25-05-2023 21:15	26-05-2023 15:18	18.05
815	OCC	ER-I	A/R OF 400KV-MAITHON-RANCHI-1	D	TO FACILITATE THE SD OF OTHER CKT ON THE SAME TOWER	28-05-2023	08:00	28-05-2023	17:00	24-05-2023 23:38	26-05-2023 15:14	39.60
816	OCC	ER-I	400KV-BIHARSARIFF(PG)-PUSAULI-1	D	OPGW installation Work	28-05-2023	09:00	28-05-2023	17:00	24-05-2023 17:49	26-05-2023 15:18	45.48
817	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-PUSAULI-2	D	TO FACILITATE THE SD OF OTHER CKT ON THE SAME TOWER	28-05-2023	09:00	28-05-2023	17:00	24-05-2023 17:53	26-05-2023 15:07	45.23
818	NON-OCC	ER-II	400KV-JEERAT-NEW JEERAT-1	D	DTPC CHANNEL FAIL RECTIFICATION WORK	28-05-2023	11:00	28-05-2023	16:00	24-05-2023 16:04	26-05-2023 15:18	47.23
819	OCC	ER-II	400KV-NEW PURNEA-FARAKKA-1	D	OPGW installation Work	28-05-2023	07:00	28-05-2023	17:00	25-05-2023 12:26	26-05-2023 15:18	26.87
820	OCC	ER-II	400KV-ALIPURDUAR (PG)-JIGMELLING-1	D	Replacement of defective insulator	28-05-2023	08:00	28-05-2023	17:00	21-05-2023 19:52	23-05-2023 12:52	41.00
821	NON-OCC	WBSETCL	A/R OF 400KV-ARAMBAGH-BAKRESWAR-1	D	OPGW installation work	28-05-2023	08:00	28-05-2023	17:00	24-05-2023 17:54	26-05-2023 15:07	45.22
822	OCC	ER-II	400KV-DURGAPUR-KHSTPP-1	D	For Installation of OPGW (longer river span crossing between T.No. 253 to 254)	28-05-2023	11:00	28-05-2023	16:00	24-05-2023 16:04	26-05-2023 15:18	47.23
823	OCC	ER-I	A/R OF 400KV-BIHARSARIFF(PG)-BANKA(PG)-2	D	OPGW installation Work	28-05-2023	07:00	28-05-2023	17:00	24-05-2023 16:14	26-05-2023 15:07	46.88
824	OCC	ER-II	A/R OF 400KV-DURGAPUR-SAGARDIGHI-1	D	OPGW installation Work	28-05-2023	07:00	28-05-2023	17:00	24-05-2023 18:22	26-05-2023 15:14	44.87

पिंकी देबनाथ

(Pinki Debnath)
Ch Manager



मा. वसंत

(Manas Das)
Dy General Manager

Fw: Fw: Shutdown Approval Request For Bus Bar Stability tests at Ranchi for 500 MVA ICT3 Bay Extension Work(Revised Plan)

rtamcer1 <rtamcer1@powergrid.in>

Fri 26/05/2023 17:35

To:Rajesh Kumar Saini (राजेश कुमार सैनी) <rksaini@powergrid.in>;Niranjan Rajwar (निरंजन रजवार) <niranjanrajwar@powergrid.in>;Angsujit Bhattacharya (ए. भट्टाचार्य) <angsujit@powergrid.in>;Shilpi Naina Toppo (शिल्पी नैना टोप्पो) <shilpi@powergrid.in>

Cc:R Wadhwa (आर. वाधवा) <r_wadhwa@powergrid.in>;Surya Prakash (सूर्य प्रकाश) <surya_prakash@powergrid.in>;Ankur Kumar (अंकुर कुमार) <ankur@powergrid.in>;Hansraj Prasad (हंसराज प्रसाद) <hansraj@powergrid.in>;Sudeep Kumar (सुदीप कुमार) <sudeepkumar@powergrid.in>;Shabbir Ahamad Ansari (शब्बीर अहमद अंसारी) <shabbirahamadansari@powergrid.in>

REGARDS

RTAMC PATNA

MOB-9771413600/ 8544401068

Kindly Note : RTAMC ER1 email ID changed from rtamcer1@powergrid.co.in to rtamcer1@powergrid.in.

It is requested to send email to rtamcer1@powergrid.in for future communication.

From: ERLDC Outage <erldcoutage@grid-india.in>

Sent: Friday, May 26, 2023 5:31 PM

To: ranjtushar@gmail.com <ranjtushar@gmail.com>; sldcranchi.report@gmail.com <sldcranchi.report@gmail.com>; sldcranchi@gmail.com <sldcranchi@gmail.com>

Cc: rtamcer1 <rtamcer1@powergrid.in>; ERLDC Control Room <erldccr@grid-india.in>

Subject: RE: Fw: Shutdown Approval Request For Bus Bar Stability tests at Ranchi for 500 MVA ICT3 Bay Extension Work(Revised Plan)

Sir,

The proposed shutdown of 220 KV BUS-1 AT RANCHI with 200 KV RANCHI MEJIA FROM 08:00 HRS TO 16:00 HRS ON 27.05.23 FOR BUS BAR STABILITY & PROTECTION CHECKING OF UPCOMING ICT-3 is approved. However, Availability of Tenughat units, JPL units and associated intrastate lines may be ensured by SLDC Ranchi prior to availing of shutdown.

Moreover, SLDC Ranchi is requested to manage loading of Hatia to restrict ICTs loading upto 250MW.

सादर धन्यवाद / Thanks & Regards,

पू.क्षे.भा.प्रे.कें / Eastern Regional Load Despatch Centre

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड

Grid Controller of India Limited

formerly Power System Operation Corporation Ltd. (POSOCO)

Contact No. :- 7003472016



ग्रिड-इंडिया
GRID-INDIA



From: rtamcer1 <rtamcer1@powergrid.in>
Sent: 26 May 2023 16:44
To: ERLDC Outage <erldcoutage@grid-india.in>
Subject: Fw: Fw: Shutdown Approval Request For Bus Bar Stability tests at Ranchi for 500 MVA ICT3 Bay Extension Work(Revised Plan)

From: mail

REGARDS
 RTAMC PATNA
 MOB-9771413600/ 8544401068

**Kindly Note : RTAMC ERI email ID changed
 from rtamcer1@powergrid.co.in to rtamcer1@powergrid.in.**

It is requested to send email to rtamcer1@powergrid.in for future communication.

From: S. D. Ranchi <slideranchi@gmail.com>
Sent: Friday, May 26, 2023 4:16 PM
To: ERLDC Outage <erldcoutage@grid-india.in>
Cc: rtamcer1 <rtamcer1@powergrid.in>
Subject: Re: Fw: Shutdown Approval Request For Bus Bar Stability tests at Ranchi for 500 MVA ICT3 Bay Extension Work(Revised Plan)

Sir,

The proposed shutdown is hereby concurred with following conditions:

- (i) IPL unit should be available [At present it is available and having Ex-bar generation of about 50 MW].
- (ii) During the proposed shutdown, total loading on ICTs at Hatia-II (220/132KV GSS) may be allowed up to 250MW.
- (iii) Time schedule of shut down should be strictly maintained by POWERGRID.

Further, it is to inform that 220 KV TTPS-PTPS S/C Transmission line is under break down due to B-phase LA bursted at GSS Patraru at 13:25hrs on 26.05.2023. However, field official has confirm that the TTPS-PTPS S/C Transmission line will be restored till night (08:00 PM) of today.

On Mon, May 22, 2023 at 6:24 PM rtamcer1 <rtamcer1@powergrid.in> wrote:

DEAR SIR,
 KINDLY ACCORD THE S/D APPROVAL FOR FOLLOWING:

- 1) 220 KV BUS-1 AT RANCHI
- 2) 200 KV RANCHI MEJIA

FROM 08:00 HRS TO 16:00 HRS ON 27.05.23

FOR BUS BAR STABILITY & PROTECTION CHECKING OF UPCOMING ICT-3



REGARDS
RTAMC PATNA
MOB-9771413600/ 8544401068

**Kindly Note : RTAMC ER1 email ID changed
from rtamcer1@powergrid.co.in to rtamcer1@powergrid.in.**

It is requested to send email to rtamcer1@powergrid.in for future communication.

From: Niranjana Rajwar (निरंजन रजवार) <niranjanaajwar@powergrid.in>
Sent: Monday, May 22, 2023 6:09 PM
To: rtamcer1 <rtamcer1@powergrid.in>
Subject: Fwd: Shutdown Approval Request For Bus Bar Stability tests at Ranchi for 500 MVA ICT3 Bay Extension Work(Revised Plan)

Shutdown period will be 08:00Hrs to 16:00Hrs dtd 27.05.23.

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From: Niranjana Rajwar (निरंजन रजवार) <niranjanaajwar@powergrid.in>
Sent: Monday, May 22, 2023 6:05:28 PM
To: rtamcer1 <rtamcer1@powergrid.in>
Cc: S Samanta (एस. सामंता) <s.samanta@powergrid.in>; Rajesh Kumar Saini (राजेश कुमार सैनी) <rkksaini@powergrid.in>; Angsujit Bhattacharya (ए. भट्टाचार्य) <angsujit@powergrid.in>; Shilpi Naina Toppo (शिल्पी नैना टोप्पो) <shilpi@powergrid.in>; Dilip Prajapati (दिलीप प्रजापति) <dilip.prajapati@powergrid.in>; Babru Bahan Nanda (बब्रु बाहन नन्द) <babru@powergrid.in>
Subject: Fwd: Shutdown Approval Request For Bus Bar Stability tests at Ranchi for 500 MVA ICT3 Bay Extension Work(Revised Plan)

As discussed, shutdown of 220kV Bus-1 along with transfer Bus and 220kV Mejia line will be availed at 08:00Hrs on dtd 27.05.23 for Bus Bar stability and protection checking of upcoming ICT-3.

Get Outlook for Android

From: Niranjana Rajwar (निरंजन रजवार) <niranjanaajwar@powergrid.in>
Sent: Saturday, May 20, 2023 4:49:25 PM
To: S Samanta (एस. सामंता) <s.samanta@powergrid.in>
Subject: Fwd: Shutdown Approval Request For Bus Bar Stability tests at Ranchi for 500 MVA ICT3 Bay Extension Work(Revised Plan)

Get Outlook for Android

From: rtamcer1 <rtamcer1@powergrid.in>
Sent: Saturday, May 20, 2023 4:32:15 PM
To: Rajesh Kumar Saini (राजेश कुमार सैनी) <rkksaini@powergrid.in>; Angsujit Bhattacharya (ए. भट्टाचार्य) <angsujit@powergrid.in>; Niranjana Rajwar (निरंजन रजवार) <niranjanaajwar@powergrid.in>; Shilpi Naina Toppo (शिल्पी नैना टोप्पो) <shilpi@powergrid.in>
Cc: R Wadhwa (आर. वाधवा) <r_wadhwa@powergrid.in>; Surya Prakash (सूर्य प्रकाश) <surya_prakash@powergrid.in>; Ankur Kumar (अंकुर कुमार) <ankur@powergrid.in>; Hansraj Prasad (हंसराज प्रसाद) <hansraj@powergrid.in>; Shabbir Ahamad Ansari (शब्बीर अहमद अंसारी) <shabbirahamadansari@powergrid.in>; Sudeep Kumar (सुदीप कुमार) <sudeepkumar@powergrid.in>



JAIN PARAS BILALA & CO

Chartered Accountants

Marshall House, 33/1, Netaji Subhas Road, 5th Floor, Room No-507, Kolkata-700001

Certificate Ref. No. ERES XXVI/01

Dated : 09.01.2025

CERTIFICATE OF CAPITAL COST FOR TRANSMISSION TARIFF

This is to certify that we have verified the relevant records and other documents of Power Grid Corporation Of India Limited having its Registered Office at B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi-110016 and on the basis of our verification, we certify that Capital Cost of 01X500 MVA, 400/220kV 03rd ICT alongwith its associated 400kV & 220kV bays at 400/220kV Ranchi (POWERGRID) S/s. under ERES XXVI in EASTERN REGION TRANSMISSION SYSTEM -I Region of Power Grid Corporation of India Limited, which is under commercial operation w.e.f. 01.06.2023 is detailed as under:

(Rs. in Lakhs)					
S/N	Particulars	Capital Cost	IEDC	IDC	Total
1	Expenditure upto 31.03.2023	143.70	3.17	-	146.87
2	Expenditure from 01.04.2023 to 31.05.2023 (DOCO:01.06.2023)	1,549.63	261.29	17.71	1,828.63
3	Expenditure from 01.06.2023 to 31.03.2024	668.37			668.37
4	Expenditure from 01.04.2024 to 30.09.2024	240.08			240.08
5	Estimated Expenditure from 01.10.2024 to 31.03.2025	257.30			257.30
6	Estimated Expenditure from 01.04.2025 to 31.03.2026	50.00			50.00
7	Estimated Expenditure from 01.04.2026 to 31.05.2026	-			-
8	Total	2,909.08	264.46	17.71	3,191.25

We certify that we have verified the expenditure up to 30.09.2024 as referred above on the basis of the information drawn from the Statement of Accounts of Power Grid Corporation of India Ltd. (EASTERN REGION TRANSMISSION SYSTEM -I) as on 30.09.2024
The estimated expenditure is based on Management estimate.

Place:- Kolkata

Date:- 09.01.2025

JAIN PARAS BILALA & CO

Chartered Accountants

FRN No-0111046C

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TOSHNIWAL

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Mem No-058521

UDIN - 25058521BMJVAP7487



JAIN PARAS BILALA & CO
CHARTERED ACCOUNTANTS
MARSHALL HOUSE, 33/1, NETAJI SUBHAS ROAD, 5TH FLOOR, ROOM NO. 507, KOLKATA - 700001

Certificate Ref. No. ERES XXVI/01

Dated : 09.01.2025

CERTIFICATE OF CAPITAL COST FOR TRANSMISSION TARIFF

This is to certify that we have verified the relevant records and other documents of Power Grid Corporation Of India Limited having its Registered Office at B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi-110016 and on the basis of our verification, we certify that Capital Cost of 01X500 MVA, 400/220kV 03rd ICT alongwith its associated 400kV & 220kV bays at 400/220kV Ranchi (POWERGRID) S/s. under ERES XXVI in EASTERN REGION TRANSMISSION SYSTEM -I Region of Power Grid Corporation of India Limited, which is under commercial operation w.e.f. 01.06.2023 is detailed as under:

(Rs. in Lakhs)

S/N	Particulars	Freehold Land	Leasehold Land	Building and Civil Works	Tr. Line	Sub-Station	OPGW	Communication System excl. OPGW	I.T Equipment incl. software, UNMS, URTDSM, EMS, Cyber Security System, REMC, WAMS, SCADA System	Batteries	Total
1	Expenditure upto 31.03.2023	-	-	-	-	146.87	-	-	-	-	146.87
2	Expenditure from 01.04.2023 to 31.05.2023 (DOCO-01.06.2023)	-	-	-	-	1,811.60	-	-	17.03	-	1,828.63
3	Expenditure from 01.06.2023 to 31.03.2024	-	-	-	-	658.45	-	-	9.92	-	668.37
4	Expenditure from 01.04.2024 to 30.09.2024	-	-	20.00	-	216.16	-	-	3.92	-	240.08
5	Estimated Expenditure from 01.10.2024 to 31.03.2025	-	-	-	-	257.30	-	-	-	-	257.30
6	Estimated Expenditure from 01.04.2025 to 31.03.2026	-	-	-	-	50.00	-	-	-	-	50.00
7	Estimated Expenditure from 01.04.2026 to 31.03.2026	-	-	-	-	-	-	-	-	-	-
8	Total	-	-	20.00	-	3,140.38	-	-	30.87	-	3,191.25

S/N	Particulars	Sub-station
1	Total Cost (Plant and Machinery cost excluding IDC, IEDC, Land cost and cost of Civil works for the purpose of Initial Spares)	2,860.83
2	Initial Spares included above	117.65

We certify that we have verified the expenditure up to 30.09.2024 as referred above on the basis of the information drawn from the Statement of Accounts of Power Grid Corporation of India Ltd. (EASTERN REGION TRANSMISSION SYSTEM -I) as on 30.09.2024

The estimated expenditure is based on Management estimate.

Place Kolkata
Date: 09.01.2025

JAIN PARAS BILALA & CO
Chartered Accountants
FRN No-011046C

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CA Ashis Toshniwal
Mem No-058521
UDIN - 25058521BMJVAP7487



Statement showing IDC Discharged upto DOCO

Project:	Eastern Region Expansion Scheme-XXVI (ERES-XXVI)							
Element:	01X500 MVA, 400/220kV 03rd ICT alongwith its associated 400kV & 220kV bays at 400/220kV Ranchi (POWERGRID) S/s							
DOCO: Actual	01-Jun-23							
Loans	Amount	Interest Rate	Drawl Date	Total IDC	Interest Payment Date upto DOCO	Interest Discharged upto DOCO	Interest Payment Date after DOCO	Accrual IDC 2023-24
Bond LXXI	103.12	7.52%	23-Mar-23	1.48	23-Mar-23	0.00	17-Aug-23	1.48
Bond LXXII	1267.33	7.56%	31-Mar-23	16.23	31-Mar-23	0.00	17-Aug-23	16.23
Proposed Loan (2023-24)	12.40			0.00		0.00		
Total	1382.85			17.71		0.00		17.71

Total IDC as per Certificate	17.71
IDC Discharged upto DOCO	0.00
Accrual IDC upto DOCO (To be discharged during 2023-24)	17.71



Liability Flow Statement																								
Name of Petitioner : POWERGRID Corporation of India Ltd.																								
Project Name : ERSS XXVI																								
Asset Name : Asset-I: 01X500 MVA, 400/220kV 03rd ICT alongwith its associated 400kV & 220kV bays at 400/220kV Ranchi (POWERGRID) S/s																								
COD : 01.06.2023																								
Asset No	Party	Particular's (TL/SS)	Year of Actual Capitalization	Outstanding Liability as on 01.06.2023 /DOCO	Discharge						Reversal						Additional Liability Recognized & Discharged						(Rs. In Lakhs) Outstanding Liability as on 31.03.2024	
					2019-20	2020-21	2021-22	2022-23	2023-24	Total (19-24)	2019-20	2020-21	2021-22	2022-23	2023-24	Total (19-24)	2019-20	2020-21	2021-22	2022-23	2023-24	Total (19-24)		
Asset-I	Jakson Limited Hitachi Energy India Limited	S/s	2023-24 (01.06.2023)	1195.75					668.37	668.37	-	-	-	-	-	-	-	-	-	-	-	-	527.38	
																							(Rs. In Lakhs)	
Asset No	Party	Particular's (TL/SS)	Year of Actual Capitalization	Outstanding Liability as on 31.03.2024	Discharge						Reversal						Additional Liability Recognized & Discharged						Outstanding Liability as on 31.03.2029	
					2024-25	2025-26	2026-27	2027-28	2028-29	Total (24-29)	2024-25	2025-26	2026-27	2027-28	2028-29	Total (24-29)	2024-25	2025-26	2026-27	2027-28	2028-29	Total (24-29)		
Asset-I	Jakson Limited Hitachi Energy India Limited	S/s	2023-24 (01.06.2023)	527.38	477.38	50.00	-			527.38	-	-	-	-	-	-	20.00	-	-	-	-	20.00	-	



Summary of Tariff

Form No. - 1

ENCL 5

Name of the Transmission Licensee:	Power Grid Corporation of India Limited				
Project	Eastern Region Expansion Scheme XXVI (ERES XXVI)				
Element Description	01X500 MVA, 400/220kV 03rd ICT along with its associated 400kV & 220kV bays at 400/220kV Ranchi (POWERGRID) S/s				
Region	Eastern Region	DOC Date	Jun 1, 2023		

(Amount in Rs. Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Year Days	0.00	0.00	0.00	0.00	366.00
Tariff Days	0.00	0.00	0.00	0.00	305.00
Depreciation-Form No. 10A	0.00	0.00	0.00	0.00	103.02
Interest on Loan-Form No. 9E	0.00	0.00	0.00	0.00	98.81
Return on Equity-Form No. 8	0.00	0.00	0.00	0.00	108.03
Int. on Working capital-Form No.11	0.00	0.00	0.00	0.00	14.34
Op. and maintenance-Form No.2	0.00	0.00	0.00	0.00	223.54
Total AFC	0.00	0.00	0.00	0.00	547.74

(Petitioner)



Details of Transmission Lines and Substations, Communication System covered in the project scope and O&M for instant asset Form No. - 2

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Eastern Region Expansion Scheme XXVI (ERES XXVI)		
Element Description	01X500 MVA, 400/220kV 03rd ICT along with its associated 400kV & 220kV bays at 400/220kV Ranchi (POWERGRID) S/s		
Region	Eastern Region	DOCO Date	Jun 1, 2023

1. Transmission Lines

(Amount in Rs. Lakh)

Summary:



2. Sub Station

Name of Sub-station	Type of Substation	Voltage Level KV	No. of Transformers/ Reactor/ SVC etc. (with capacity)	No. of Bays				MVA/MVAR Capacity				Date of Comm. operation	Covered in the present petition	
				765 KV	400 KV	220 KV	132 KV	765 KV	400 KV	220 KV	132 KV		Yes/ No	If No, Petition No.
Ranchi:500MVA 03RD ICT	Brownfield	400 KV	1.000						500.00			Jun 1, 2023	Y	
Ranchi:400KV BAY OF 500 MVA ICT 03RD	Brownfield	400 KV			1.000							Jun 1, 2023	Y	
Ranchi:220KV BAY OF 500 MVA 03RD ICT	Brownfield	220 KV				1.000						Jun 1, 2023	Y	

Summary:

O&M Expenses For Substations Covered in the instant petition	2019-20	2020-21	2021-22	2022-23	2023-24
400KV SUB-STATION					
Normative Rate of O&M as per Regulation	0.00	0.00	0.00	0.00	36.91
No. of Units	0.00	0.00	0.00	0.00	1.00
O&M Claimed	0.00	0.00	0.00	0.00	30.76
220KV SUB-STATION					
Normative Rate of O&M as per Regulation	0.00	0.00	0.00	0.00	25.84
No. of Units	0.00	0.00	0.00	0.00	1.00
O&M Claimed	0.00	0.00	0.00	0.00	21.53

400KV SUB-STATION ICT

Normative Rate of O&M as per Regulation	0.00	0.00	0.00	0.00	0.411
No. of Units	0.00	0.00	0.00	0.00	1.00
O&M Claimed	0.00	0.00	0.00	0.00	171.25



Summary of O&M Expenses claim

(Amount in Rs. Lakh)

Particular	2019-20	2020-21	2021-22	2022-23	2023-24
A) Normative O&M					
Transmission Line	0.00	0.00	0.00	0.00	0.00
Substation	0.00	0.00	0.00	0.00	223.54
Communication System	0.00	0.00	0.00	0.00	0.00
Total Normative O&M	0.00	0.00	0.00	0.00	223.54
B) O&M Claimed under Regulation 35 (3)(C) (* The same is not being claimed and will be claimed through separate Petition)					
*Security Expenses	0.00	0.00	0.00	0.00	0.00
*Actual Capital Spare consumed	0.00	0.00	0.00	0.00	0.00
*Insurance Premium Paid	0.00	0.00	0.00	0.00	0.00
Total O&M	0.00	0.00	0.00	0.00	223.54

(Petitioner)



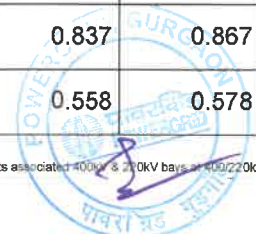
Normative parameters considered for tariff computations

Form No. - 3

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Eastern Region Expansion Scheme XXVI (ERES XXVI)		
Element Description	01X500 MVA, 400/220kV 03rd ICT along with its associated 400kV & 220kV bays at 400/220kV Ranchi (POWERGRID) S/s		
Region	Eastern Region	DOCO Date	Jun 1, 2023

(Amount in Rs. Lakh)

Particulars	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
Base Rate of Return of Equity (in %)						
Tax Rate (in %)	21.55	17.472	17.472	17.472	17.472	17.472
Effective tax rate (in %)						
Grossed up Rate of ROE (in %)	19.758	18.782	18.782	18.782	18.782	18.782
Target availability - AC System (in %)	98.00	98.00	98.00	98.00	98.00	98.00
Target availability - HVDC System (in %)	96.00	96.00	96.00	96.00	96.00	96.00
Norms for sub-station Bays (Rs Lakh per bay)						
765 kV	96.20	45.01	46.60	48.23	49.93	51.68
400 kV	68.71	32.15	33.28	34.45	35.66	36.91
220 kV	48.10	22.51	23.30	24.12	24.96	25.84
132 kV and below	34.36	16.08	16.64	17.23	17.83	18.46
Norms for Transformers (Rs Lakh per MVA)						
765 kV	0.00	0.491	0.508	0.526	0.545	0.564
400 kV	0.00	0.358	0.371	0.384	0.398	0.411
220 kV	0.00	0.245	0.254	0.263	0.272	0.282
132 kV and below	0.00	0.245	0.254	0.263	0.272	0.282
Norms for AC and HVDC lines (Rs Lakh per km)						
Single Circuit (Bundled Conductor with six or more sub-conductors)	0.806	0.881	0.912	0.944	0.977	1.011
Single Circuit (Bundled conductor with four sub-conductors)	0.691	0.755	0.781	0.809	0.837	0.867
Single Circuit (Twin & Triple Conductor)	0.461	0.503	0.521	0.539	0.558	0.578



Single Circuit (Single Conductor)	0.23	0.252	0.26	0.27	0.279	0.289
Double Circuit (Bundled conductor with four or more sub-conductors)	1.21	1.322	1.368	1.416	1.466	1.517
Double Circuit (Twin & Triple Conductor)	0.806	0.881	0.912	0.944	0.977	1.011
Double Circuit (Single Conductor)	0.346	0.377	0.391	0.404	0.419	0.433
Multi Circuit (Bundled Conductor with four or more sub-conductor)	2.123	2.319	2.401	2.485	2.572	2.662
Multi Circuit (Twin & Triple Conductor)	1.413	1.544	1.598	1.654	1.713	1.773
Norms for HVDC stations						
HVDC Back-to-Back stations (Rs Lakh per 500 MW) (Except Gazuwaka BTB)	0.00	834.00	864.00	894.00	925.00	958.00
Gazuwaka HVDC Back-to-Back station (Rs. Lakh per 500 MW)	0.00	1,666.00	1,725.00	1,785.00	1,848.00	1,913.00
500 kV Rihand-Dadri HVDC bipole scheme (Rs Lakh) (1500 MW)	0.00	2,252.00	2,331.00	2,413.00	2,498.00	2,586.00
±500 kV Talcher- Kolar HVDC bipole scheme (Rs Lakh) (2000 MW)	0.00	2,468.00	2,555.00	2,645.00	2,738.00	2,834.00
±500 kV Bhiwadi-Balia HVDC bipole scheme (Rs Lakh) (2500 MW)	0.00	1,696.00	1,756.00	1,817.00	1,881.00	1,947.00
±800 kV, Bishwanath-Agra HVDC bipole scheme (Rs Lakh) (3000 MW)	0.00	2,563.00	2,653.00	2,746.00	2,842.00	2,942.00

(Petitioner)



Statement of Capital cost

Form No. - 4A

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Eastern Region Expansion Scheme XXVI (ERES XXVI)		
Element Description	01X500 MVA, 400/220kV 03rd ICT along with its associated 400kV & 220kV bays at 400/220kV Ranchi (POWERGRID) S/s		
Region	Eastern Region	DOCO Date	Jun 1, 2023

A) Capital Cost

(Amount in Rs. Lakh)

Particular	Accrual Basis	Un-discharged Liabilities	Cash Basis
As on relevant date :2023-24			
a) Opening Gross Block Amount as per books	3,171.25	1,213.46	1,957.79
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	17.71	17.71	0.00
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	264.46	0.00	264.46
a) Addition in Gross Block Amount during the period	0.00	0.00	0.00
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in B(a) above	0.00	0.00	0.00
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above	0.00	0.00	0.00
d) De-cap in gross block amount during the year	0.00	0.00	0.00
a) Closing Gross Block Amount as per books	3,171.25	527.38	2,643.87
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	17.71	0.00	17.71
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	264.46	0.00	264.46

B) Flow of liability for the Asset

(Amount in Rs. Lakh)

Particular	2023-2024	2024-2025	2025-2026	2026-2027					
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Opening balance of liability	1,213.46	527.38	50.00	0.00	0.00	0.00	0.00	0.00	0.00
Add: Liability from ACE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Discharge of liability by payment and claimed as ACE	686.08	477.38	50.00	0.00	0.00	0.00	0.00	0.00	0.00
Reversal/cancelation (to be entered)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Closing Balance of Admitted liability	527.38	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00


(Petitioner)



Financial Package upto COD

Form No. - 6

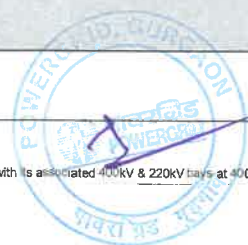
Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Eastern Region Expansion Scheme XXVI (ERES XXVI)		
Element Description	01X500 MVA, 400/220kV 03rd ICT along with its associated 400kV & 220kV bays at 400/220kV Ranchi (POWERGRID) S/s		
Region	Eastern Region	DOCO Date	Jun 1, 2023

(Amount in Rs. Lakh)

Particulars	Financial Package as Approved		Financial Package as on COD 01/04/2019		As Admitted on COD 01/04/2019	
	Currency	Amount	Currency	Amount	Currency	Amount
Loans		0.00		0.00		0.00
Loan-Domestic		0.00		0.00		0.00
Loan-Foreign		0.00		0.00		0.00
Total Loans	INR	2,247.00	INR	1,370.45		0.00
Equity		0.00		0.00		0.00
Foreign		0.00		0.00		0.00
Domestic	INR	963.00	INR	587.34		0.00
Total Equity	INR	963.00	INR	587.34		0.00
Debt Equity Ratio					70:30	
Total Cost	INR	3,210.00	INR	1,957.79		0.00

Particulars	Debt	Equity	Total
Addcap for 2023 - 2024			686.08

Particulars	Actual	Normative
Addcap for 2023 - 2024		



Equity		205.82	
Debt		480.26	
Total		686.08	
Total Capital cost with Addcap		2,643.87	

(Petitioner)



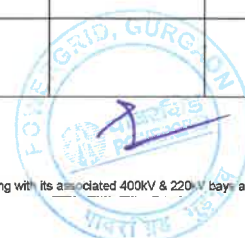
Statement of Additional Capitalisation after COD

Form No. - 7

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Eastern Region Expansion Scheme XXVI (ERES XXVI)		
Element Description	01X500 MVA, 400/220kV 03rd ICT along with its associated 400kV & 220kV bays at 400/220kV Ranchi (POWERGRID) S/s		
Region	Eastern Region	DOCO Date	Jun 1, 2023

(Amount in Rs. Lakh)

Particulars	Addition into Gross Block as per books of Account during the year (2)	De-Cap into Gross Block as per books of Account during the year	Less: Deductions dr. the year towards				Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose	Admitted Cost in final tariff (Rs Lakh)
			Grants Received (if any) (3)	Asset pertaining to other businesses (if any) (4)	Other Deduction (if any) (5)	Less: Undischarged liability included in (2-4-5)			
ACE for the year :2019-20 (Actual/Projected)									
Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Land (Leasehold)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IT/Software/UNMS/URTDSM/SCADA,etc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ACE for the year :2020-21 (Actual/Projected)									



Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Land (Leasehold)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IT/Software/UNMS/URTDMS/SCADA,etc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ACE for the year :2021-22 (Actual/Projected)									
Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Land (Leasehold)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IT/Software/UNMS/URTDMS/SCADA,etc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ACE for the year :2022-23 (Actual/Projected)									
Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Land (Leasehold)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IT/Software/UNMS/URTDMS/ SCADA,etc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ACE for the year :2023-24 (Actual/Projected)									
Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	0.00	0.00	0.00	0.00	0.00	0.00	676.01	676.01	0.00
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Land (Leasehold)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IT/Software/UNMS/URTDMS/ SCADA,etc	0.00	0.00	0.00	0.00	0.00	0.00	10.07	10.07	0.00
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	686.08	686.08	0.00

(Petitioner)



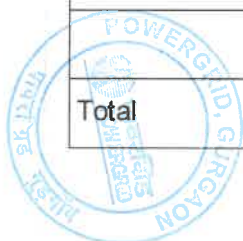
Financing of Additional Capitalisation

Form No. - 7A

Name of the Transmission Licensee	Power Grid Corporation of India Limited			
Project	Eastern Region Expansion Scheme XXVI (ERES XXVI)			
Element Description	01X500 MVA, 400/220kV 03rd ICT along with its associated 400kV & 220kV bays at 400/220kV Ranchi (POWERGRID) S/s			
Region	Eastern Region	DOC Date	Jun 1, 2023	

(Amount in Rs. Lakh)

Financial Year (Starting of COD)	Actual/Projected					Admitted				
	2019-20	2020-21	2021-22	2022-23	2023-24	2019-20	2020-21	2021-22	2022-23	2023-24
Amount capitalized in Work/ Equipment										
Financing Details										
Total Loan	0.00	0.00	0.00	0.00	480.26					
Equity	0.00	0.00	0.00	0.00	205.82					
Total	0.00	0.00	0.00	0.00	686.08					



(Petitioner)

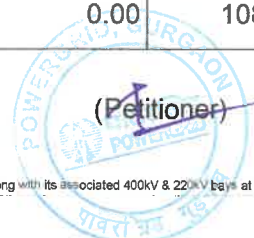
Calculation of ROE

Form No. - 8

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Eastern Region Expansion Scheme XXVI (ERES XXVI)		
Element Description	01X500 MVA, 400/220kV 03rd ICT along with its associated 400kV & 220kV bays at 400/220kV Ranchi (POWERGRID) S/s		
Region	Eastern Region	DOCO Date	Jun 1, 2023

(Amount in Rs. Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
No. of Days in the year	0.00	0.00	0.00	0.00	366.00
No. of days for which tariff claimed	0.00	0.00	0.00	0.00	305.00
Opening Normative Equity	0.00	0.00	0.00	0.00	587.34
Less: Adjustment in Equity*	0.00	0.00	0.00	0.00	0.00
Adjustment during the year	0.00	0.00	0.00	0.00	0.00
Net opening equity (Normal)	0.00	0.00	0.00	0.00	587.34
Add: Increase in Equity due to addition during the year / period	0.00	0.00	0.00	0.00	0.00
Less: Decrease due to de-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
Add: Increase due to discharge during the year / period	0.00	0.00	0.00	0.00	205.82
Closing Normative Equity	0.00	0.00	0.00	0.00	793.16
Average Normative Equity	0.00	0.00	0.00	0.00	690.25
Rate of return on Equity (%)	0.00	0.00	0.00	0.00	18.782
Reduced rate of 1% decided by commission under Regulation 30(2) (if any)	0.00	0.00	0.00	0.00	0.00
Effective rate of ROE	0.00	0.00	0.00	0.00	15.50
MAT/Corporate Rate	0.00	0.00	0.00	0.00	17.472
Grossed up rate of ROE	0.00	0.00	0.00	0.00	18.782
Return on Equity	0.00	0.00	0.00	0.00	129.64
Pro rata return on Equity	0.00	0.00	0.00	0.00	108.03



Calculation of WAR of interest on actual loan

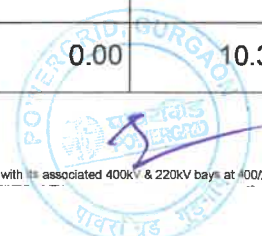
Form No. - 9C

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Eastern Region Expansion Scheme XXVI (ERES XXVI)		
Element Description	01X500 MVA, 400/220kV 03rd ICT along with its associated 400kV & 220kV bays at 400/220kV Ranchi (POWERGRID) S/s		
Region	Eastern Region	DOCO Date	Jun 1, 2023

(Amount in Rs. Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
SBI-04 -ADDCAP_23_24					
Gross Loan- Opening	0.00	0.00	0.00	0.00	0.00
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	6.65
Net loan-Opening	0.00	0.00	0.00	0.00	0.00
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	70.42
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	7.04
Net Loan-Closing	0.00	0.00	0.00	0.00	63.38
Average Net Loan	0.00	0.00	0.00	0.00	31.69
Rate of Interest on Loan on Annual Basis	0.00	0.00	0.00	0.00	8.145722
Interest on loan	0.00	0.00	0.00	0.00	2.5814

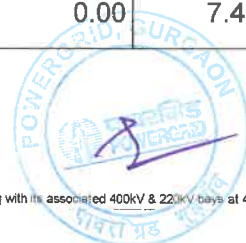
SBI-04 -A_IDC_23_24					
Gross Loan- Opening	0.00	0.00	0.00	0.00	0.00
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	1.09
Net loan-Opening	0.00	0.00	0.00	0.00	0.00
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	11.53
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	1.15
Net Loan-Closing	0.00	0.00	0.00	0.00	10.38



Average Net Loan	0.00	0.00	0.00	0.00	5.19
Rate of Interest on Loan on Annual Basis	0.00	0.00	0.00	0.00	8.145722
Interest on loan	0.00	0.00	0.00	0.00	0.4228

Canara-01 -ADDCAP_23_24					
Gross Loan- Opening	0.00	0.00	0.00	0.00	0.00
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	0.00	0.00	0.00	0.00	0.00
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	184.38
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	18.44
Net Loan-Closing	0.00	0.00	0.00	0.00	165.94
Average Net Loan	0.00	0.00	0.00	0.00	82.97
Rate of Interest on Loan on Annual Basis	0.00	0.00	0.00	0.00	8.15
Interest on loan	0.00	0.00	0.00	0.00	6.7621

BOND LXXI (71) -DOCO LOAN					
Gross Loan- Opening	0.00	0.00	0.00	0.00	103.12
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	0.00	0.00	0.00	0.00	103.12
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	7.73
Net Loan-Closing	0.00	0.00	0.00	0.00	95.39
Average Net Loan	0.00	0.00	0.00	0.00	99.26
Rate of Interest on Loan on Annual Basis	0.00	0.00	0.00	0.00	7.52
Interest on loan	0.00	0.00	0.00	0.00	7.4644



BOND LXXII (72) -ADDCAP_23_24

Gross Loan- Opening	0.00	0.00	0.00	0.00	0.00
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	0.00	0.00	0.00	0.00	0.00
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	25.39
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	1.90
Net Loan-Closing	0.00	0.00	0.00	0.00	23.49
Average Net Loan	0.00	0.00	0.00	0.00	11.75
Rate of Interest on Loan on Annual Basis	0.00	0.00	0.00	0.00	7.56
Interest on loan	0.00	0.00	0.00	0.00	0.8883

BOND LXXII (72) -DOCO LOAN

Gross Loan- Opening	0.00	0.00	0.00	0.00	1,267.33
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	0.00	0.00	0.00	0.00	1,267.33
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	95.05
Net Loan-Closing	0.00	0.00	0.00	0.00	1,172.28
Average Net Loan	0.00	0.00	0.00	0.00	1,219.81
Rate of Interest on Loan on Annual Basis	0.00	0.00	0.00	0.00	7.56
Interest on loan	0.00	0.00	0.00	0.00	92.2176

BOND LXXIII (73) -ADDCAP_23_24

Gross Loan- Opening	0.00	0.00	0.00	0.00	0.00
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	0.00	0.00	0.00	0.00	0.00



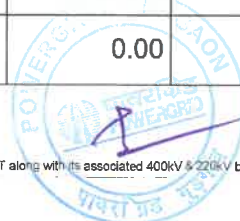
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	93.37
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.00
Net Loan-Closing	0.00	0.00	0.00	0.00	93.37
Average Net Loan	0.00	0.00	0.00	0.00	46.69
Rate of Interest on Loan on Annual Basis	0.00	0.00	0.00	0.00	7.50
Interest on loan	0.00	0.00	0.00	0.00	3.5018

BOND LXXIII (73) -A_IDC_23_24

Gross Loan- Opening	0.00	0.00	0.00	0.00	0.00
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	0.00	0.00	0.00	0.00	0.00
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.87
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.00
Net Loan-Closing	0.00	0.00	0.00	0.00	0.87
Average Net Loan	0.00	0.00	0.00	0.00	0.44
Rate of Interest on Loan on Annual Basis	0.00	0.00	0.00	0.00	7.50
Interest on loan	0.00	0.00	0.00	0.00	0.033

Bond LXXIV (74) -ADDCAP_23_24

Gross Loan- Opening	0.00	0.00	0.00	0.00	0.00
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	0.00	0.00	0.00	0.00	0.00
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	51.30
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.00
Net Loan-Closing	0.00	0.00	0.00	0.00	51.30
Average Net Loan	0.00	0.00	0.00	0.00	25.65

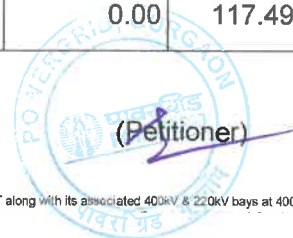


Rate of Interest on Loan on Annual Basis	0.00	0.00	0.00	0.00	7.70
Interest on loan	0.00	0.00	0.00	0.00	1.9751

Bond LXXV (75) -ADDCAP_23_24					
Gross Loan- Opening	0.00	0.00	0.00	0.00	0.00
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	0.00	0.00	0.00	0.00	0.00
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	43.00
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.00
Net Loan-Closing	0.00	0.00	0.00	0.00	43.00
Average Net Loan	0.00	0.00	0.00	0.00	21.50
Rate of Interest on Loan on Annual Basis	0.00	0.00	0.00	0.00	7.65
Interest on loan	0.00	0.00	0.00	0.00	1.6448

Summary

Gross Loan- Opening	0.00	0.00	0.00	0.00	1,370.45
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	7.74
Net loan-Opening	0.00	0.00	0.00	0.00	1,370.45
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	480.26
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	131.31
Net Loan-Closing	0.00	0.00	0.00	0.00	1,719.40
Average Net Loan	0.00	0.00	0.00	0.00	1,544.95
Rate of Interest on Loan on Annual Basis	0.00	0.00	0.00	0.00	7.6049
Interest on loan	0.00	0.00	0.00	0.00	117.4913



Calculation of interest on Normative loan

Form No. - 9E

Name of the Transmission Licensee	Power Grid Corporation of India Limited				
Project	Eastern Region Expansion Scheme XXVI (ERES XXVI)				
Element Description	01X500 MVA, 400/220kV 03rd ICT along with its associated 400kV & 220kV bays at 400/220kV Ranchi (POWERGRID) S/s				
Region	Eastern Region	DOCO Date	Jun 1, 2023		

(Amount in Rs. Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
No. of Days in the Year	0.00	0.00	0.00	0.00	366.00
No. of days for which Tariff claimed	0.00	0.00	0.00	0.00	305.00
Gross normative loan-Opening	0.00	0.00	0.00	0.00	1,370.45
Cumulative repayments of Normative loan upto previous year	0.00	0.00	0.00	0.00	0.00
Net normative loan-Opening	0.00	0.00	0.00	0.00	1,370.45
Addition in normative loan towards the ACE	0.00	0.00	0.00	0.00	480.26
Adjustment of normative gross loan pertaining to the decapitalised asset	0.00	0.00	0.00	0.00	0.00
Normative repayments of normative loan during the year	0.00	0.00	0.00	0.00	103.02
Adjustment of cumulative repayment pertaining to the decapitalised asset	0.00	0.00	0.00	0.00	0.00
Net normative loan - closing	0.00	0.00	0.00	0.00	1,747.69
Average normative loan	0.00	0.00	0.00	0.00	1,559.07
Weighted Average Rate of interest on actual loan	0.00	0.00	0.00	0.00	7.6049
Interest on normative loan	0.00	0.00	0.00	0.00	118.57
Pro rata interest on normative loan	0.00	0.00	0.00	0.00	98.81

(Petitioner)



Calculation of Depreciation Rate on Original Project Cost

Form No. - 10

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Eastern Region Expansion Scheme XXVI (ERES XXVI)		
Element Description	01X500 MVA, 400/220kV 03rd ICT along with its associated 400kV & 220kV bays at 400/220kV Ranchi (POWERGRID) S/s		
Region	Eastern Region	DOCO Date	Jun 1, 2023

(Amount in Rs. Lakh)

Name of Assets	Gross block at the beginning of the year	Add Cap during the year	Gross block at the end of the year	Average Gross Block	Depreciation Rate as per CERC's Depreciation Rate Schedule	Depreciation Amount for each year upto 31.03.2024
2023-24						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
Sub Station	1,940.91	676.01	2,616.92	2,278.92	5.28	100.28
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	6.33	0.00
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDMS/SCADA,etc	16.88	10.07	26.95	21.92	15.00	2.74
Batteries	0.00	0.00	0.00	0.00	5.28	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
TOTAL	1,957.79	686.08	2,643.87	2,300.84	0.00	103.02
Weighted Average Rate of Depreciation(%)					4.477495	



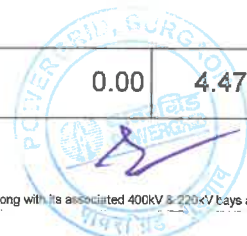
Statement of Depreciation

Form No. - 10A

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Eastern Region Expansion Scheme XXVI (ERES XXVI)		
Element Description	01X500 MVA, 400/220kV 03rd ICT along with its associated 400kV & 220kV bays at 400/220kV Ranchi (POWERGRID) S/s		
Region	Eastern Region	DOCO Date	Jun 1, 2023

(Amount in Rs. Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
No of Days in the year	0.00	0.00	0.00	0.00	366.00
No of days for which tariff claimed	0.00	0.00	0.00	0.00	305.00
Life at the beginning of the year					
1.1 Weighted Average useful life of the Asset/ Project	0.00	0.00	0.00	0.00	25.00
1.2 Lapsed Weighted Average useful life of the Asset/Project(in completed no. of year)	0.00	0.00	0.00	0.00	0.00
1.3 Balance Weighted Average useful life of the Asset/Project(in completed no. of year)	0.00	0.00	0.00	0.00	25.00
Capital Base					
1.4 Opening capital cost	0.00	0.00	0.00	0.00	1,957.79
1.5 Additional Capital Expenditure dr. the year	0.00	0.00	0.00	0.00	686.08
1.6 De-Capitalisation During the year	0.00	0.00	0.00	0.00	0.00
1.7 Closing capital cost	0.00	0.00	0.00	0.00	2,643.87
1.8 Average capital cost	0.00	0.00	0.00	0.00	2,300.84
1.9 Freehold land included in 1.8	0.00	0.00	0.00	0.00	0.00
1.10 Asset having NIL salvage value included in 1.8	0.00	0.00	0.00	0.00	21.92
1.11 Asset having 10% salvage value included in 1.8	0.00	0.00	0.00	0.00	2,278.92
1.12 Depreciable Value(1.10+90% of 1.11)	0.00	0.00	0.00	0.00	2,072.95
Depreciation for the period and Cum. Depreciation					
1.13 Weighted Average Rate of depreciation	0.00	0.00	0.00	0.00	4.477495



1.14 Depreciation(for the period)	0.00	0.00	0.00	0.00	103.02
1.15 Depreciation(Annualised)	0.00	0.00	0.00	0.00	103.02
Unrecovered Depreciation for DECAP	0.00	0.00	0.00	0.00	0.00
1.16 Cumulative depreciation at the beginning of the period	0.00	0.00	0.00	0.00	0.00
1.17 Less:Adj of Cum. Dep pertaining to decapitalised Asset	0.00	0.00	0.00	0.00	0.00
1.18 Cumulative depreciation at the end of the period	0.00	0.00	0.00	0.00	103.02

(Petitioner)



Calculation of interest on working Capital

Form No. - 11

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Eastern Region Expansion Scheme XXVI (ERES XXVI)		
Element Description	01X500 MVA, 400/220kV 03rd ICT along with its associated 400kV & 220kV bays at 400/220kV Ranchi (POWERGRID) S/s		
Region	Eastern Region	DOCO Date	Jun 1, 2023

(Amount in Rs. Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
No of Days in the year	0.00	0.00	0.00	0.00	366.00
No of days for which tariff claimed	0.00	0.00	0.00	0.00	305.00
O&M Expenses-one month	0.00	0.00	0.00	0.00	22.35
Maintenance spares 15% of O&M Expenses	0.00	0.00	0.00	0.00	40.24
Receivables equivalent to 45 days of AFC	0.00	0.00	0.00	0.00	80.81
Total Working capital	0.00	0.00	0.00	0.00	143.40
Bank Rate as on 01.04.2019 or as on 01st April of the COD year, whichever is later.	0.00	0.00	0.00	0.00	12.00
Interest on working capital	0.00	0.00	0.00	0.00	17.21
Pro rata interest on working capital	0.00	0.00	0.00	0.00	14.34

(Petitioner)



Summary of Tariff

Name of the Transmission Licensee:	Power Grid Corporation of India Limited				
Project	Eastern Region Expansion Scheme XXVI (ERES XXVI)				
Element Description	01X500 MVA, 400/220kV 03rd ICT along with its associated 400kV & 220kV bays at 400/220kV Ranchi (POWERGRID) S/s				
Region	Eastern Region	DOC Date	Jun 1, 2023		

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
Year Days	365.00	365.00	365.00	366.00	365.00
Tariff Days	365.00	365.00	365.00	366.00	365.00
Depreciation-Form No. 10A	155.34	169.79	171.11	171.11	171.11
Interest on Loan-Form No. 9E	140.96	143.20	131.50	118.41	105.32
Return on Equity-Form No. 8	162.98	178.40	179.81	179.81	179.81
Int. on Working capital-Form No.11	14.64	15.54	15.82	16.05	16.38
Op. and maintenance-Form No.2	181.20	190.83	200.61	211.03	222.59
Total AFC	655.12	697.76	698.85	696.41	695.21

(Petitioner)



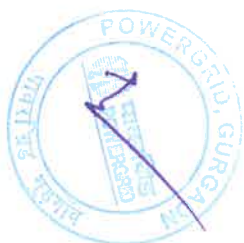
Details of Transmission Lines and Substations, Communication System covered in the project scope and O&M for instant asset Form No. - 2

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Eastern Region Expansion Scheme XXVI (ERES XXVI)		
Element Description	01X500 MVA, 400/220kV 03rd ICT along with its associated 400kV & 220kV bays at 400/220kV Ranchi (POWERGRID) S/s		
Region	Eastern Region	DOCO Date	Jun 1, 2023

1. Transmission Lines

(Amount in Rs. Lakh)

Summary:



2. Sub Station

Name of Sub-station	Type of Substation	Voltage Level KV	No. of Transformers/ Reactor/ SVC etc. (with capacity)	No. of Bays				MVA/MVAR Capacity				Date of Comm. operation	Covered in the present petition	
				765 KV	400 KV	220 KV	132 KV	765 KV	400 KV	220 KV	132 KV		Yes/ No	If No, Petition No.
Ranchi:500MVA 03RD ICT	Brownfield	400 KV	1.000						500.00			Jun 1, 2023	Y	
Ranchi:400KV BAY OF 500 MVA ICT 03RD	Brownfield	400 KV			1.000							Jun 1, 2023	Y	
Ranchi:220KV BAY OF 500 MVA 03RD ICT	Brownfield	220 KV				1.000						Jun 1, 2023	Y	

Summary:

O&M Expenses For Substations Covered in the instant petition	2024-25	2025-26	2026-27	2027-28	2028-29
400KV SUB-STATION					
Normative Rate of O&M as per Regulation	29.53	31.08	32.71	34.43	36.23
No. of Units	1.00	1.00	1.00	1.00	1.00
O&M Claimed	29.53	31.08	32.71	34.43	36.23
220KV SUB-STATION					
Normative Rate of O&M as per Regulation	20.67	21.75	22.90	24.10	25.36
No. of Units	1.00	1.00	1.00	1.00	1.00
O&M Claimed	20.67	21.75	22.90	24.10	25.36

400KV SUB-STATION ICT					
Normative Rate of O&M as per Regulation	0.262	0.276	0.29	0.305	0.322
No. of Units	1.00	1.00	1.00	1.00	1.00
O&M Claimed	131.00	138.00	145.00	152.50	161.00



Summary of O&M Expenses claim

(Amount in Rs. Lakh)

Particular	2024-25	2025-26	2026-27	2027-28	2028-29
A) Normative O&M					
Transmission Line	0.00	0.00	0.00	0.00	0.00
Substation	181.20	190.83	200.61	211.03	222.59
Communication System	0.00	0.00	0.00	0.00	0.00
Total Normative O&M	181.20	190.83	200.61	211.03	222.59
B) O&M Claimed under Regulation 35 (3)(C) (* The same is not being claimed and will be claimed through separate Petition)					
*Security Expenses	0.00	0.00	0.00	0.00	0.00
*Actual Capital Spare consumed	0.00	0.00	0.00	0.00	0.00
*Insurance Premium Paid	0.00	0.00	0.00	0.00	0.00
Total O&M	181.20	190.83	200.61	211.03	222.59


(Petitioner)



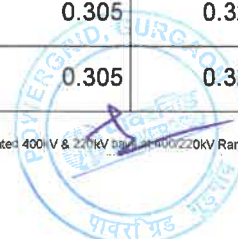
Normative parameters considered for tariff computations

Form No. - 3

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Eastern Region Expansion Scheme XXVI (ERES XXVI)		
Element Description	01X500 MVA, 400/220kV 03rd ICT along with its associated 400kV & 220kV bays at 400/220kV Ranchi (POWERGRID) S/s		
Region	Eastern Region	DOCO Date	Jun 1, 2023

(Amount in Rs. Lakh)

Particulars	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Base Rate of Return of Equity (in %)						
Tax Rate (in %)	17.472	17.472	17.472	17.472	17.472	17.472
Effective tax rate (in %)						
Grossed up Rate for ROE of 15.5% (in %)	18.782	18.782	18.782	18.782	18.782	18.782
Grossed up Rate for ROE of 15.0% (in %)	18.176	18.176	18.176	18.176	18.176	18.176
Target availability - AC System (in %)	98.00	98.00	98.00	98.00	98.00	98.00
Target availability - HVDC System (in %)	96.00	96.00	96.00	96.00	96.00	96.00
Norms for sub-station Bays (Rs Lakh per bay)						
765 kV	51.68	41.34	43.51	45.79	48.20	50.73
400 kV	36.91	29.53	31.08	32.71	34.43	36.23
220 kV	25.84	20.67	21.75	22.90	24.10	25.36
132 kV and below	18.46	15.78	16.61	17.48	18.40	19.35
Norms for Transformers (Rs Lakh per MVA)						
765 kV	0.564	0.262	0.276	0.29	0.305	0.322
400 kV	0.411	0.262	0.276	0.29	0.305	0.322
220 kV	0.282	0.262	0.276	0.29	0.305	0.322
132 kV and below	0.282	0.262	0.276	0.29	0.305	0.322
Norms for Reactor (Rs Lakh per MVAR)						
765 kV	0.00	0.262	0.276	0.29	0.305	0.322
400 kV	0.00	0.262	0.276	0.29	0.305	0.322



220 kV	0.00	0.262	0.276	0.29	0.305	0.322
132 kV and below	0.00	0.262	0.276	0.29	0.305	0.322
Norms for AC and HVDC lines (Rs Lakh per km)						
Single Circuit (Bundled Conductor with six or more sub-conductors)	1.011	0.861	0.906	0.953	1.003	1.056
Single Circuit (Bundled conductor with four sub-conductors)	0.867	0.738	0.776	0.817	0.86	0.905
Single Circuit (Twin & Triple Conductor)	0.578	0.492	0.518	0.545	0.573	0.603
Single Circuit (Single Conductor)	0.289	0.246	0.259	0.272	0.287	0.302
Double Circuit (Bundled conductor with four or more sub-conductors)	1.517	1.291	1.359	1.43	1.506	1.585
Double Circuit (Twin & Triple Conductor)	1.011	0.861	0.906	0.953	1.003	1.056
Double Circuit (Single Conductor)	0.433	0.369	0.388	0.409	0.43	0.453
Multi Circuit (Bundled Conductor with four or more sub-conductor)	2.662	2.266	2.385	2.51	2.642	2.781
Multi Circuit (Twin & Triple Conductor)	1.773	1.509	1.588	1.671	1.759	1.851
Norms for HVDC stations (Rs Lakh/MW)						
HVDC bipole scheme (Rs Lakh/MW)	0.00	1.04	1.10	1.16	1.22	1.28
HVDC Back-to-Back stations (Rs Lakh/MW) (Except Gazuwaka BTB)	0.00	2.07	2.18	2.30	2.42	2.55
Gazuwaka HVDC Back-to-Back station (Rs Lakh/MW)	0.00	1.83	1.92	2.03	2.13	2.24

(Petitioner)



Statement of Capital cost

Form No. - 4A

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Eastern Region Expansion Scheme XXVI (ERES XXVI)		
Element Description	01X500 MVA, 400/220kV 03rd ICT along with its associated 400kV & 220kV bays at 400/220kV Ranchi (POWERGRID) S/s		
Region	Eastern Region	DOCO Date	Jun 1, 2023

A) Capital Cost

(Amount in Rs. Lakh)

Particular	Accrual Basis	Un-discharged Liabilities	Cash Basis
As on relevant date :2024-25			
a) Opening Gross Block Amount as per books	3,171.25	527.38	2,643.87
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	17.71	0.00	17.71
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	264.46	0.00	264.46

a) Addition in Gross Block Amount during the period	20.00	0.00	20.00
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in B(a) above	0.00	0.00	0.00
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above	0.00	0.00	0.00
d) De-cap in gross block amount during the year	0.00	0.00	0.00

a) Closing Gross Block Amount as per books	3,191.25	50.00	3,141.25
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	17.71	0.00	17.71
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	264.46	0.00	264.46

As on relevant date :2025-26

a) Opening Gross Block Amount as per books	3,191.25	50.00	3,141.25
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	17.71	0.00	17.71

c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	264.46	0.00	264.46
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a) Addition in Gross Block Amount during the period	0.00	0.00	0.00
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in B(a) above	0.00	0.00	0.00
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above	0.00	0.00	0.00
d) De-cap in gross block amount during the year	0.00	0.00	0.00

a) Closing Gross Block Amount as per books	3,191.25	0.00	3,191.25
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	17.71	0.00	17.71
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	264.46	0.00	264.46

As on relevant date :2026-27

a) Opening Gross Block Amount as per books	3,191.25	0.00	3,191.25
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	17.71	0.00	17.71
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	264.46	0.00	264.46

a) Addition in Gross Block Amount during the period	0.00	0.00	0.00
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in B(a) above	0.00	0.00	0.00
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above	0.00	0.00	0.00
d) De-cap in gross block amount during the year	0.00	0.00	0.00

a) Closing Gross Block Amount as per books	3,191.25	0.00	3,191.25
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	17.71	0.00	17.71
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	264.46	0.00	264.46

As on relevant date :2027-28

a) Opening Gross Block Amount as per books	3,191.25	0.00	3,191.25
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	17.71	0.00	17.71
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	264.46	0.00	264.46

a) Addition in Gross Block Amount during the period	0.00	0.00	0.00
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in B(a) above	0.00	0.00	0.00
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above	0.00	0.00	0.00
d) De-cap in gross block amount during the year	0.00	0.00	0.00

a) Closing Gross Block Amount as per books	3,191.25	0.00	3,191.25
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	17.71	0.00	17.71
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	264.46	0.00	264.46

As on relevant date :2028-29

a) Opening Gross Block Amount as per books	3,191.25	0.00	3,191.25
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	17.71	0.00	17.71
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	264.46	0.00	264.46

a) Addition in Gross Block Amount during the period	0.00	0.00	0.00
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in B(a) above	0.00	0.00	0.00
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above	0.00	0.00	0.00
d) De-cap in gross block amount during the year	0.00	0.00	0.00

a) Closing Gross Block Amount as per books	3,191.25	0.00	3,191.25
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	17.71	0.00	17.71
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	264.46	0.00	264.46

B) Flow of liability for the Asset

(Amount in Rs. Lakh)

Particular	2024-2025	2025-2026	2026-2027						
Opening balance of liability	527.38	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Add: Liability from ACE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Discharge of liability by payment and claimed as ACE	477.38	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reversal/cancelation (to be entered)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Closing Balance of Admitted liability	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

(Petitioner)



Financial Package upto COD

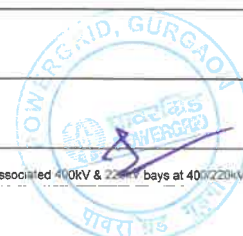
Form No. - 6

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Eastern Region Expansion Scheme XXVI (ERES XXVI)		
Element Description	01X500 MVA, 400/220kV 03rd ICT along with its associated 400kV & 220kV bays at 400/220kV Ranchi (POWERGRID) S/s		
Region	Eastern Region	DOCO Date	Jun 1, 2023

(Amount in Rs. Lakh)

Particulars	Financial Package as Approved		Financial Package as on COD 01/04/2024		As Admitted on COD 01/04/2024	
	Currency	Amount	Currency	Amount	Currency	Amount
Loans		0.00		0.00		0.00
Loan-Domestic		0.00		0.00		0.00
Loan-Foreign		0.00		0.00		0.00
Total Loans	INR	2,247.00	INR	1,850.71		0.00
Equity		0.00		0.00		0.00
Foreign		0.00		0.00		0.00
Domestic	INR	963.00	INR	793.16		0.00
Total Equity	INR	963.00	INR	793.16		0.00
Debt Equity Ratio					70:30	
Total Cost	INR	3,210.00	INR	2,643.87		0.00

Particulars	Debt	Equity	Total
Addcap for 2024 - 2025			497.38
Addcap for 2025 - 2026			50.00
Addcap for 2026 - 2027			0.00
Addcap for 2027 - 2028			0.00



Addcap for 2028 - 2029			0.00	
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Particulars	Actual	Normative	
Addcap for 2024 - 2025			
Equity		149.21	
Debt		348.17	
Total		497.38	
Addcap for 2025 - 2026			
Equity		15.00	
Debt		35.00	
Total		50.00	
Addcap for 2026 - 2027			
Equity		0.00	
Debt		0.00	
Total		0.00	
Addcap for 2027 - 2028			
Equity		0.00	
Debt		0.00	
Total		0.00	
Addcap for 2028 - 2029			
Equity		0.00	
Debt		0.00	
Total		0.00	
Total Capital cost with Addcap		3,191.25	



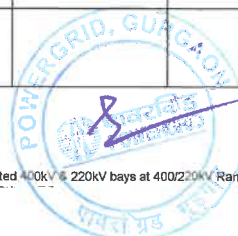
Statement of Additional Capitalisation after COD

Form No. - 7

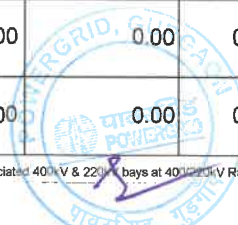
Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Eastern Region Expansion Scheme XXVI (ERES XXVI)		
Element Description	01X500 MVA, 400/220kV 03rd ICT along with its associated 400kV & 220kV bays at 400/220kV Ranchi (POWERGRID) S/s		
Region	Eastern Region	DOCO Date	Jun 1, 2023

(Amount in Rs. Lakh)

Particulars	Addition into Gross Block as per books of Account during the year (2)	De-Cap into Gross Block as per books of Account during the year	Less: Deductions dr. the year towards				Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose	Admitted Cost in final tariff (Rs Lakh)
			Grants Received (if any) (3)	Asset pertaining to other businesses (If any) (4)	Other Deduction (if any) (5)	Less: Undischarged liability included in (2-4-5)			
ACE for the year :2024-25 (Actual/Projected)									
Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	20.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00
Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	0.00	0.00	0.00	0.00	0.00	0.00	473.46	473.46	0.00
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Land (Leasehold)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IT/Software/UNMS/URTDSM/SCADA,etc	0.00	0.00	0.00	0.00	0.00	0.00	3.92	3.92	0.00
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	20.00	0.00	0.00	0.00	0.00	0.00	477.38	497.38	0.00
ACE for the year :2025-26 (Actual/Projected)									



Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	0.00	0.00	0.00	0.00	0.00	0.00	50.00	50.00	0.00
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Land (Leasehold)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IT/Software/UNMS/URTDSM/SCADA,etc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	50.00	50.00	0.00
ACE for the year :2026-27 (Actual/Projected)									
Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Land (Leasehold)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IT/Software/UNMS/URTDSM/SCADA,etc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ACE for the year :2027-28 (Actual/Projected)									
Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Land (Leasehold)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IT/Software/UNMS/URTDSP/ SCADA,etc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ACE for the year :2028-29 (Actual/Projected)									
Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Land (Leasehold)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IT/Software/UNMS/URTDSP/ SCADA,etc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

(Petitioner)



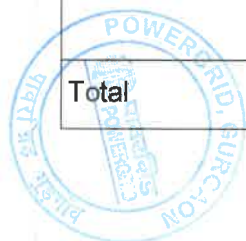
Financing of Additional Capitalisation

Form No. - 7A

Name of the Transmission Licensee	Power Grid Corporation of India Limited			
Project	Eastern Region Expansion Scheme XXVI (ERES XXVI)			
Element Description	01X500 MVA, 400/220kV 03rd ICT along with its associated 400kV & 220kV bays at 400/220kV Ranchi (POWERGRID) S/s			
Region	Eastern Region	DOCO Date	Jun 1, 2023	

(Amount in Rs. Lakh)

Financial Year (Starting of COD)	Actual/Projected					Admitted				
	2024-25	2025-26	2026-27	2027-28	2028-29	2024-25	2025-26	2026-27	2027-28	2028-29
Amount capitalized in Work/ Equipment										
Financing Details										
Total Loan	348.17	35.00	0.00	0.00	0.00					
Equity	149.21	15.00	0.00	0.00	0.00					
Total	497.38	50.00	0.00	0.00	0.00					



(Petitioner)

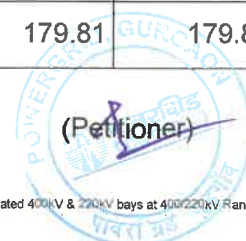
Calculation of ROE

Form No. - 8

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Eastern Region Expansion Scheme XXVI (ERES XXVI)		
Element Description	01X500 MVA, 400/220kV 03rd ICT along with its associated 400kV & 220kV bays at 400/220kV Ranchi (POWERGRID) S/s		
Region	Eastern Region	DOCO Date	Jun 1, 2023

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
No. of Days in the year	365.00	365.00	365.00	366.00	365.00
No. of days for which tariff claimed	365.00	365.00	365.00	366.00	365.00
Opening Normative Equity	793.16	942.37	957.37	957.37	957.37
Less: Adjustment in Equity*	0.00	0.00	0.00	0.00	0.00
Adjustment during the year	0.00	0.00	0.00	0.00	0.00
Net opening equity (Normal)	793.16	942.37	957.37	957.37	957.37
Add: Increase in Equity due to addition during the year / period	6.00	0.00	0.00	0.00	0.00
Less: Decrease due to de-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
Add: Increase due to discharge during the year / period	143.21	15.00	0.00	0.00	0.00
Closing Normative Equity	942.37	957.37	957.37	957.37	957.37
Average Normative Equity	867.77	949.87	957.37	957.37	957.37
Rate of return on Equity (%)	18.782	18.782	18.782	18.782	18.782
Reduced rate of 1% decided by commission under Regulation 30(2) (if any)	0.00	0.00	0.00	0.00	0.00
Effective rate of ROE	15.50	15.50	15.50	15.50	15.50
MAT/Corporate Rate	17.472	17.472	17.472	17.472	17.472
Grossed up rate of ROE	18.782	18.782	18.782	18.782	18.782
Return on Equity	162.98	178.40	179.81	179.81	179.81
Pro rata return on Equity	162.98	178.40	179.81	179.81	179.81



Calculation of WAR of interest on actual loan

Form No. - 9C

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Eastern Region Expansion Scheme XXVI (ERES XXVI)		
Element Description	01X500 MVA, 400/220kV 03rd ICT along with its associated 400kV & 220kV bays at 400/220kV Ranchi (POWERGRID) S/s		
Region	Eastern Region	DOCO Date	Jun 1, 2023

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
SBI-04 -ADDCAP_23_24					
Gross Loan- Opening	70.42	70.42	70.42	70.42	70.42
Cumulative repayments of Loans upto previous year	13.69	20.73	27.77	34.82	41.86
Net loan-Opening	56.73	49.69	42.65	35.60	28.56
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	7.04	7.04	7.04	7.04	7.04
Net Loan-Closing	49.69	42.65	35.61	28.56	21.52
Average Net Loan	53.21	46.17	39.13	32.08	25.04
Rate of Interest on Loan on Annual Basis	8.20	8.20	8.20	8.20	8.20
Interest on loan	4.3632	3.7859	3.2087	2.6306	2.0533

SBI-04 -A_IDC_23_24					
Gross Loan- Opening	11.53	11.53	11.53	11.53	11.53
Cumulative repayments of Loans upto previous year	2.24	3.39	4.55	5.70	6.85
Net loan-Opening	9.29	8.14	6.98	5.83	4.68
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	1.15	1.15	1.15	1.15	1.15
Net Loan-Closing	8.14	6.99	5.83	4.68	3.53



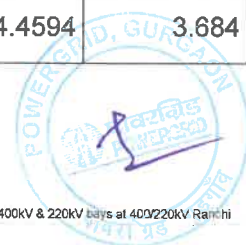
Average Net Loan	8.72	7.57	6.41	5.26	4.11
Rate of Interest on Loan on Annual Basis	8.20	8.20	8.20	8.20	8.20
Interest on loan	0.715	0.6207	0.5256	0.4313	0.337

Canara-01 -ADDCAP_23_24

Gross Loan- Opening	184.38	184.38	184.38	184.38	184.38
Cumulative repayments of Loans upto previous year	18.44	27.66	46.10	64.53	82.97
Net loan-Opening	165.94	156.72	138.28	119.85	101.41
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	9.22	18.44	18.44	18.44	18.44
Net Loan-Closing	156.72	138.28	119.84	101.41	82.97
Average Net Loan	161.33	147.50	129.06	110.63	92.19
Rate of Interest on Loan on Annual Basis	8.15	8.15	8.15	8.15	8.15
Interest on loan	13.1484	12.0213	10.5184	9.0163	7.5135

BOND LXXI (71) -DOCO LOAN

Gross Loan- Opening	103.12	103.12	103.12	103.12	103.12
Cumulative repayments of Loans upto previous year	7.73	18.05	28.36	38.67	48.98
Net loan-Opening	95.39	85.07	74.76	64.45	54.14
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	10.31	10.31	10.31	10.31	10.31
Net Loan-Closing	85.08	74.76	64.45	54.14	43.83
Average Net Loan	90.24	79.92	69.61	59.30	48.99
Rate of Interest on Loan on Annual Basis	7.52	7.52	7.52	7.52	7.52
Interest on loan	6.786	6.01	5.2347	4.4594	3.684



BOND LXXII (72) -ADDCAP_23_24

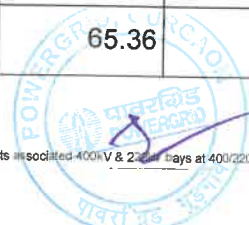
Gross Loan- Opening	25.39	25.39	25.39	25.39	25.39
Cumulative repayments of Loans upto previous year	1.90	4.44	6.98	9.52	12.06
Net loan-Opening	23.49	20.95	18.41	15.87	13.33
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	2.54	2.54	2.54	2.54	2.54
Net Loan-Closing	20.95	18.41	15.87	13.33	10.79
Average Net Loan	22.22	19.68	17.14	14.60	12.06
Rate of Interest on Loan on Annual Basis	7.56	7.56	7.56	7.56	7.56
Interest on loan	1.6798	1.4878	1.2958	1.1038	0.9117

BOND LXXII (72) -DOCO LOAN

Gross Loan- Opening	1,267.33	1,267.33	1,267.33	1,267.33	1,267.33
Cumulative repayments of Loans upto previous year	95.05	221.78	348.52	475.25	601.98
Net loan-Opening	1,172.28	1,045.55	918.81	792.08	665.35
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	126.73	126.73	126.73	126.73	126.73
Net Loan-Closing	1,045.55	918.82	792.08	665.35	538.62
Average Net Loan	1,108.92	982.19	855.45	728.72	601.99
Rate of Interest on Loan on Annual Basis	7.56	7.56	7.56	7.56	7.56
Interest on loan	83.8344	74.2536	64.672	55.0912	45.5104

BOND LXXIII (73) -ADDCAP_23_24

Gross Loan- Opening	93.37	93.37	93.37	93.37	93.37
Cumulative repayments of Loans upto previous year	0.00	9.34	18.67	28.01	37.35
Net loan-Opening	93.37	84.03	74.70	65.36	56.02



Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	9.34	9.34	9.34	9.34	9.34
Net Loan-Closing	84.03	74.69	65.36	56.02	46.68
Average Net Loan	88.70	79.36	70.03	60.69	51.35
Rate of Interest on Loan on Annual Basis	7.50	7.50	7.50	7.50	7.50
Interest on loan	6.6525	5.952	5.2523	4.5518	3.8513

BOND LXXIII (73) -A_IDC_23_24

Gross Loan- Opening	0.87	0.87	0.87	0.87	0.87
Cumulative repayments of Loans upto previous year	0.00	0.09	0.17	0.26	0.35
Net loan-Opening	0.87	0.78	0.70	0.61	0.52
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.09	0.09	0.09	0.09	0.09
Net Loan-Closing	0.78	0.69	0.61	0.52	0.43
Average Net Loan	0.83	0.74	0.66	0.57	0.48
Rate of Interest on Loan on Annual Basis	7.50	7.50	7.50	7.50	7.50
Interest on loan	0.0623	0.0555	0.0495	0.0428	0.036

Bond LXXIV (74) -ADDCAP_23_24

Gross Loan- Opening	51.30	51.30	51.30	51.30	51.30
Cumulative repayments of Loans upto previous year	0.00	5.13	10.26	15.39	20.52
Net loan-Opening	51.30	46.17	41.04	35.91	30.78
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	5.13	5.13	5.13	5.13	5.13
Net Loan-Closing	46.17	41.04	35.91	30.78	25.65
Average Net Loan	48.74	43.61	38.48	33.35	28.22

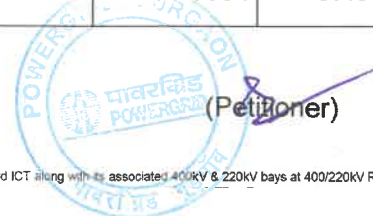


Rate of Interest on Loan on Annual Basis	7.70	7.70	7.70	7.70	7.70
Interest on loan	3.753	3.358	2.963	2.568	2.1729

Bond LXXV (75) -ADDCAP_23_24					
Gross Loan- Opening	43.00	43.00	43.00	43.00	43.00
Cumulative repayments of Loans upto previous year	0.00	4.30	8.60	12.90	17.20
Net loan-Opening	43.00	38.70	34.40	30.10	25.80
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	4.30	4.30	4.30	4.30	4.30
Net Loan-Closing	38.70	34.40	30.10	25.80	21.50
Average Net Loan	40.85	36.55	32.25	27.95	23.65
Rate of Interest on Loan on Annual Basis	7.65	7.65	7.65	7.65	7.65
Interest on loan	3.125	2.7961	2.4671	2.1382	1.8092

Summary

Gross Loan- Opening	1,850.71	1,850.71	1,850.71	1,850.71	1,850.71
Cumulative repayments of Loans upto previous year	139.05	314.91	499.98	685.05	870.12
Net loan-Opening	1,711.66	1,535.80	1,350.73	1,165.66	980.59
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	175.85	185.07	185.07	185.07	185.07
Net Loan-Closing	1,535.81	1,350.73	1,165.66	980.59	795.52
Average Net Loan	1,623.76	1,443.29	1,258.22	1,073.15	888.08
Rate of Interest on Loan on Annual Basis	7.644	7.6451	7.6447	7.6442	7.6434
Interest on loan	124.1196	110.3409	96.1871	82.0334	67.8793



Calculation of interest on Normative loan

Form No. - 9E

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Eastern Region Expansion Scheme XXVI (ERES XXVI)		
Element Description	01X500 MVA, 400/220kV 03rd ICT along with its associated 400kV & 220kV bays at 400/220kV Ranchi (POWERGRID) S/s		
Region	Eastern Region	DOCO Date	Jun 1, 2023

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
No. of Days in the Year	365.00	365.00	365.00	366.00	365.00
No. of days for which Tariff claimed	365.00	365.00	365.00	366.00	365.00
Gross normative loan-Opening	1,850.71	2,198.88	2,233.88	2,233.88	2,233.88
Cumulative repayments of Normative loan upto previous year	103.02	258.36	428.15	599.26	770.37
Net normative loan-Opening	1,747.69	1,940.52	1,805.73	1,634.62	1,463.51
Addition in normative loan towards the ACE	348.17	35.00	0.00	0.00	0.00
Adjustment of normative gross loan pertaining to the decapitalised asset	0.00	0.00	0.00	0.00	0.00
Normative repayments of normative loan during the year	155.34	169.79	171.11	171.11	171.11
Adjustment of cumulative repayment pertaining to the decapitalised asset	0.00	0.00	0.00	0.00	0.00
Net normative loan - closing	1,940.52	1,805.73	1,634.62	1,463.51	1,292.40
Average normative loan	1,844.11	1,873.13	1,720.18	1,549.07	1,377.96
Weighted Average Rate of interest on actual loan	7.644	7.6451	7.6447	7.6442	7.6434
Interest on normative loan	140.96	143.20	131.50	118.41	105.32
Pro rata interest on normative loan	140.96	143.20	131.50	118.41	105.32

(Petitioner)



Calculation of Depreciation Rate on Original Project Cost

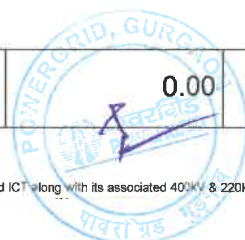
Form No. - 10

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Eastern Region Expansion Scheme XXVI (ERES XXVI)		
Element Description	01X500 MVA, 400/220kV 03rd ICT along with its associated 400kV & 220kV bays at 400/220kV Ranchi (POWERGRID) S/s		
Region	Eastern Region	DOCO Date	Jun 1, 2023

(Amount in Rs. Lakh)

Name of Assets	Gross block at the beginning of the year	Add Cap during the year	Gross block at the end of the year	Average Gross Block	Depreciation Rate as per CERC's Depreciation Rate Schedule	Depreciation Amount for each year upto 31.03.2029
2024-25						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	20.00	20.00	10.00	3.34	0.33
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
Sub Station	2,616.92	473.46	3,090.38	2,853.65	5.28	150.67
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	15.00	0.00
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDMS/SCADA,etc	26.95	3.92	30.87	28.91	15.00	4.34
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
TOTAL	2,643.87	497.38	3,141.25	2,892.56	0.00	155.34
Weighted Average Rate of Depreciation(%)					5.370329	

2025-26						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00



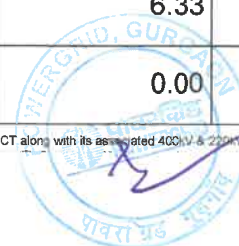
Civil & Building	20.00	0.00	20.00	20.00	3.34	0.67
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
IT/Software/UNMS/URTDMS/SCADA,etc	30.87	0.00	30.87	30.87	15.00	4.63
Sub Station	3,090.38	50.00	3,140.38	3,115.38	5.28	164.49
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	15.00	0.00
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
TOTAL	3,141.25	50.00	3,191.25	3,166.25	0.00	169.79
Weighted Average Rate of Depreciation(%)					5.362495	

2026-27						
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	20.00	0.00	20.00	20.00	3.34	0.67
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
Sub Station	3,140.38	0.00	3,140.38	3,140.38	5.28	165.81
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	15.00	0.00
IT/Software/UNMS/URTDMS/SCADA,etc	30.87	0.00	30.87	30.87	15.00	4.63
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
TOTAL	3,191.25	0.00	3,191.25	3,191.25	0.00	171.11
Weighted Average Rate of Depreciation(%)					5.361849	



2027-28						
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	20.00	0.00	20.00	20.00	3.34	0.67
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
Sub Station	3,140.38	0.00	3,140.38	3,140.38	5.28	165.81
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	15.00	0.00
IT/Software/UNMS/URTDMS/SCADA,etc	30.87	0.00	30.87	30.87	15.00	4.63
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
TOTAL	3,191.25	0.00	3,191.25	3,191.25	0.00	171.11
Weighted Average Rate of Depreciation(%)					5.361849	

2028-29						
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	20.00	0.00	20.00	20.00	3.34	0.67
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
Sub Station	3,140.38	0.00	3,140.38	3,140.38	5.28	165.81
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	15.00	0.00
IT/Software/UNMS/URTDMS/SCADA,etc	30.87	0.00	30.87	30.87	15.00	4.63
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
TOTAL	3,191.25	0.00	3,191.25	3,191.25	0.00	171.11



Weighted Average Rate of Depreciation(%)					5.361849	
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(Petitioner)



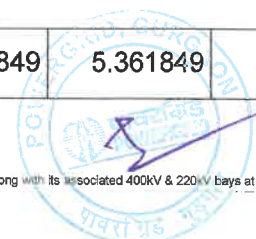
Statement of Depreciation

Form No. - 10A

Name of the Transmission Licensee	Power Grid Corporation of India Limited				
Project	Eastern Region Expansion Scheme XXVI (ERES XXVI)				
Element Description	01X500 MVA, 400/220kV 03rd ICT along with its associated 400kV & 220kV bays at 400/220kV Ranchi (POWERGRID) S/s				
Region	Eastern Region	DOCO Date	Jun 1, 2023		

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
No of Days in the year	365.00	365.00	365.00	366.00	365.00
No of days for which tariff claimed	365.00	365.00	365.00	366.00	365.00
Life at the beginning of the year					
1.1 Weighted Average useful life of the Asset/ Project	25.00	25.00	25.00	25.00	25.00
1.2 Lapsed Weighted Average useful life of the Asset/Project(in completed no. of year)	0.00	1.00	2.00	3.00	4.00
1.3 Balance Weighted Average useful life of the Asset/Project(in completed no. of year)	25.00	24.00	23.00	22.00	21.00
Capital Base					
1.4 Opening capital cost	2,643.87	3,141.25	3,191.25	3,191.25	3,191.25
1.5 Additional Capital Expenditure dr. the year	497.38	50.00	0.00	0.00	0.00
1.6 De-Capitalisation During the year	0.00	0.00	0.00	0.00	0.00
1.7 Closing capital cost	3,141.25	3,191.25	3,191.25	3,191.25	3,191.25
1.8 Average capital cost	2,892.56	3,166.25	3,191.25	3,191.25	3,191.25
1.9 Freehold land included in 1.8	0.00	0.00	0.00	0.00	0.00
1.10 Asset having NIL salvage value included in 1.8	28.91	30.87	30.87	30.87	30.87
1.11 Asset having 10% salvage value included in 1.8	2,863.65	3,135.38	3,160.38	3,160.38	3,160.38
1.12 Depreciable Value(1.10+90% of 1.11)	2,606.20	2,852.71	2,875.21	2,875.21	2,875.21
Depreciation for the period and Cum. Depreciation					
1.13 Weighted Average Rate of depreciation	5.370329	5.362495	5.361849	5.361849	5.361849



1.14 Depreciation(for the period)	155.34	169.79	171.11	171.11	171.11
1.15 Depreciation(Annualised)	155.34	169.79	171.11	171.11	171.11
Unrecovered Depreciation for DECAP	0.00	0.00	0.00	0.00	0.00
1.16 Cumulative depreciation at the beginning of the period	103.02	258.36	428.15	599.26	770.37
1.17 Less:Adj of Cum. Dep pertaining to decapitalised Asset	0.00	0.00	0.00	0.00	0.00
1.18 Cumulative depreciation at the end of the period	258.36	428.15	599.26	770.37	941.48

(Petitioner)



Calculation of interest on working Capital

Form No. - 11

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Eastern Region Expansion Scheme XXVI (ERES XXVI)		
Element Description	01X500 MVA, 400/220kV 03rd ICT along with its associated 400kV & 220kV bays at 400/220kV Ranchi (POWERGRID) S/s		
Region	Eastern Region	DOCO Date	Jun 1, 2023

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
No of Days in the year	365.00	365.00	365.00	366.00	365.00
No of days for which tariff claimed	365.00	365.00	365.00	366.00	365.00
O&M Expenses-one month	15.10	15.90	16.72	17.59	18.55
Maintenance spares 15% of O&M Expenses	27.18	28.62	30.09	31.65	33.39
Receivables equivalent to 45 days of AFC	80.77	86.03	86.16	85.62	85.71
Total Working capital	123.05	130.55	132.97	134.86	137.65
Bank Rate as on 01.04.2024 or as on 01st April of the COD year, whichever is later.	11.90	11.90	11.90	11.90	11.90
Interest on working capital	14.64	15.54	15.82	16.05	16.38
Pro rata interest on working capital	14.64	15.54	15.82	16.05	16.38

(Petitioner)



Summary of issue involved in the petition		PART-III FORM- 15
1. Name of the Petitioner	Powergrid Corporation of India Ltd	
2. Petition Category	Transmission	
3. Tariff Period	2019-24 & 2024-29	
4. Name of the Project	Assets under Eastern Region Expansion Scheme – XXVI (ERES-XXVI) in Eastern Region	
5. Investment Approval date	NA	
6. SCOD of the Project	NA	
7. Actual COD of the project	01.06.2023	
8. Whether entire scope is covered in the present petition.	Yes	
9. No. of Assets covered in instant petition	01 nos	
10. No. of Assets having time over run	1	
11. Estimated Project Cost as per IA	Rs. 3210.00 Lakh	
12. Is there any REC? if so, provide the date	No	
13. Revised Estimated Project Cost (if any)	NA	
14. Completion cost for all the assets covered in the instant petition.	Rs. 3191.25 Lakh	
15. No. of Assets covered in instant petition and having cost overrun.	NA	
16	Prayer in brief	
17	Key details and any Specific issue involved	
18	Respondents	
	Name of Respondents	
	1	Bihar State Power (Holding) Company Limited
	2	West Bengal State Electricity Distribution Company Limited
	3	Grid Corporation Of Orissa Ltd
	4	Damodar Valley Corporation
	5	Power Department, Govt. of Sikkim
	6	Jharkhand Bijli Vitran Nigam Ltd

(Petitioner)



PART-III													
Summary of Capital Cost & Annual Fixed Cost (AFC) Claimed for ALL the assets covered in the present petition.													
Name of the Petitioner				Powergrid Corporation of India Ltd									
Tariff Period				2019-24									
Name of the Transmission Project				Assets under Eastern Region Expansion Scheme – XXVI (ERES-XXVI) in Eastern Region									
COD of the Project (if entire scope of project is completed)				01.06.2023									
Rupees in lakh													
A) Summary of Capital Cost as on COD and Additional Capital Expenditure claimed for all the assets Covered in the instant petition.													
S. No.	Asset No.	COD	Cut-off Date	i) Apportioned Approved Cost		ii) Summary of Actual / Projected Capital Cost							Capital Cost as on Cut-off Date
				As per IA	As per RCE	As on COD/ as on 31.03.2019	2019-20	2020-21	2021-22	2022-23	2023-24	Capital Cost as on 31.03.2024	
		1	2	2	3	4	5	6	7	8	9	11= (5+6+7+8+9+10)	12
1	Asset-I	01.06.2023	30.06.2026	3210.00	NA	1957.79	0	0	0	0	686.08	2643.87	
Total Capital Cost Claimed				3210.00	NA	1957.79	0.00	0.00	0.00	0.00	686.08	2643.87	
B) Summary of Trued-Up Annual Fixed Cost (AFC) claimed for all the assets covered in the instant petition.													
S. No.	Asset No.	Asset Name and its location				2019-20	2020-21	2021-22	2022-23	2023-24			
1	Asset-I	Assets under Eastern Region Expansion Scheme – XXVI (ERES-XXVI) in Eastern Region				-	-	-	-	547.74			
Total AFC for all the Assets						0	0.00	0	0	547.74			
Note: 1) The purpose of this form is to summarise the Capital cost & AFC claimed for all the assets covered in the instant petition.													

(Petitioner)



Summary of Capital Cost & Annual Fixed Cost (AFC) Claimed for ALL the assets covered in the present petition.													PART-III	
Name of the Petitioner				Powergrid Corporation of India Ltd										
Tariff Period				2024-29										
Name of the Transmission Project				Assets under Eastern Region Expansion Scheme – XXVI (ERES-XXVI) in Eastern Region										
COD of the Project (If entire scope of project is completed)				01.06.2023										
A) Summary of Capital Cost as on COD and Additional Capital Expenditure claimed for all the assets Covered in the instant petition.													Rupees in lakh	
S. No.	Asset No.	COD	Cut-off Date	i) Apportioned Approved Cost		ii) Summary of Actual / Projected Capital Cost								Capital Cost as on Cut-off Date
				As per IA	As per RCE	As on COD/ as on 31.03.2024	2024-25	2025-26	2026-27	2027-28	2028-29	Capital Cost considered as on 31.03.2029		
		1	2	2	3	4	5	6	7	8	9	11= (5+6+7+8+9+10)	12	
1	Asset-I	01.06.2023	30.06.2026	3210.00	NA	2643.87	497.38	50	0	0	0	3191.25		
Total Capital Cost Claimed				3210.00	0.00	2643.87	497.38	50.00	0.00	0.00	0.00	3191.25		
B) Summary of Annual Fixed Cost (AFC) claimed for all the assets covered in the instant petition.														
S. No.	Asset No.	Asset Name and Its location					2024-25	2025-26	2026-27	2027-28	2028-29			
1	Asset-I	Assets under Eastern Region Expansion Scheme – XXVI (ERES-XXVI) in Eastern Region					655.12	697.76	698.85	696.41	695.21			
Total AFC for all the Assets							655.12	697.76	698.85	696.41	695.21			
Note: 1) The purpose of this form is to summarise the Capital cost & AFC claimed for all the assets covered in the instant petition.														
(Petitioner)														



INDEX		PART-III
Checklist of Forms and other information/ documents for tariff filing for Transmission System & Communication System (2019-24 & 2024-29 periods)		
Form No.	Title of Tariff Filing Forms (Transmission & Communication System)	Tick
FORM- 1	Summary of Tariff	✓
FORM- 1A	Summary of Asset level cost	✓
FORM-2	Details of Transmission Lines and Substations and Communication System covered in the project scope and O&M for instant asset	✓
FORM-3	Normative parameters considered for tariff computations	✓
FORM- 4	Abstract of existing transmission assets/elements under project, Determination of Effective COD and Weighted Average Life for single AFC for the project as whole.	N.A.
FORM- 4A	Statement of Capital cost	✓
FORM- 4B	Statement of Capital Works in Progress	N.A.
FORM- 4C	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New Project/Element	N.A.
FORM-5	Element wise Break-up of Project/Asset/Element Cost for Transmission System or Communication System	N.A.
FORM-5A	Break-up of Construction/Supply/Service packages	N.A.
FORM-5B	Details of all the assets covered in the project	N.A.
FORM- 6	Actual Cash Expenditure and Financial Package up to COD	✓
FORM- 7	Statement of Additional Capitalisation after COD	✓
FORM- 7A	Financing of Additional Capitalisation	✓
FORM- 7B	Statement of Additional Capitalisation during five year before the end of the useful life of the project.	N.A.
FORM- 8	Calculation of Return on Equity	✓
FORM-8A	Details of Foreign Equity	N.A.
FORM-9	Details of Allocation of corporate loans to various transmission elements	N.A.
FORM-9A	Details of Project Specific Loans	N.A.
FORM-9B	Details of Foreign loans	N.A.
FORM-9C	Calculation of Weighted Average Rate of Interest on Actual Loans	✓
FORM-9D	Loans in Foreign Currency	N.A.
FORM-9E	Calculation of Interest on Normative Loan	✓
FORM- 10	Calculation of Depreciation Rate on original project cost	✓
FORM- 10A	Statement of Depreciation	✓
FORM- 10B	Statement of De-capitalisation	N.A.
FORM- 11	Calculation of Interest on Working Capital	✓
FORM- 12	Details of time over run	N.A.
FORM- 12A	Incidental Expenditure during Construction	N.A.
FORM- 12B	Calculation of IDC & Financing Charges	N.A.
FORM- 13	Details of Initial spares	N.A.
FORM- 14	Non-Tariff Income	N.A.
FORM- 15	Summary of issue involved in the petition	✓
FORM A	Summary of Capital Cost & Annual Fixed Cost (AFC) Claimed for ALL	✓
Other Information/ Documents		
S. No.	Information/Document	Tick
1	Certificate of Incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association (For New Project(s) setup by a company making tariff application for the first time to CERC)	N.A.
2	Region wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & Annexure for the new Transmission System & Communication System for the relevant years.	N.A.
3	Copies of relevant loan Agreements	N.A.
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	N.A.
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	N.A.
6	Copies of the BPTA/TSA/PPA with the beneficiaries, if any	N.A.
7	Detailed note giving reasons of cost and time over run, if applicable. List of supporting documents to be submitted: a. Detailed Project Report b. CPM Analysis c. PERT Chart and Bar Chart d. Justification for cost and time Overrun	N.A.
8	Transmission Licensee shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the transmission system as submitted to the Govt. of India for first two years i.e. 2019-20 and 2020-21 at the time of mid-term true-up in 2021- 22 and for balance period of tariff period 2019-24 at the time of final true-up in 2024-25. In case of initial tariff filing the latest available Cost Audit Report should be furnished.	N.A.
9.	BBMB is maintaining the records as per the relevant applicable Acts. Formats specified herein may not be suitable to the available information with BBMB. BBMB may modify formats suitably as per available information to them for submission of required information for tariff purpose.	N.A.
10.	Any other relevant information, (Please specify)	N.A.

Note 1: Electronic copy of the petition (in words format) and detailed calculation as per these formats (in excel format) and any other information submitted has to be uploaded in the e-filing website and shall also be furnished in pen drive/flash drive.

