

CCL: POWERGRID/SR/ Arasur 4<sup>th</sup> ICT

दिनांक: 19.09.2024

सचिव,  
केंद्रीय विद्युत विनियामक आयोग (सी.ई.आर.सी.)  
छठवाँ, सातवाँ एवं आठवाँ तल, टॉवर बी,  
वर्ल्ड ट्रेड सेंटर, नौरोजी नगर, नई दिल्ली-110029

विषय: Petition for determination of tariff for 1X500 MVA, 400/230 KV ICT (4<sup>th</sup>) along with associated bays and equipments at Arasur sub-station under "Augmentation of transformation capacity by 1X500 MVA, 400kV/230KV ICT (4<sup>th</sup>) at Arasur sub-station" 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), 2024.

महोदय,  
उपरोक्त पारिषण प्रणाली के वर्ष 30.06.2024 से 31.3.2029 तक के पारिषण टैरिफ हेतु याचिका की 3 प्रतियां (1 मूल व 2 प्रतियां), संलग्न है। पूर्ण याचिका को पावरग्रिड की बेवसाइट पर दर्शाया गया है जिसका पता [www.powergrid.in](http://www.powergrid.in) है। माननीय आयोग द्वारा जारी सार्वजनिक सूचना दिनांक 25.08.2010 के अनुसार राशि ₹ 1,00,000/- का भुगतान ऑनलाइन पोर्टल के माध्यम से चालान द्वारा किया गया है। याचिका शुल्क की गणना नई फीस रेगुलेशन, 2012 के पैरा 3(2) के तहत दिये गये निर्देशों के आधार पर निम्नानुसार की गई है:-

Asset	Fin. Year	Tariff (T) (Rs. In Lakh)	Petition filing fees @....of Tariff (R)	Petition filing fees (B)=(T)X® (Rs.)	Rounded to nearest 100 (min. 40,000: 2009-12 and min. 1,00,000: 2012 onwards (Rs.))
ASSET-1	2024-25	671.21	0.11%	73,833	1,00,000
<b>Total</b>		<b>Rupees One Lakh only</b>			<b>1,00,000</b>

माननीय आयोग द्वारा जारी CBR, 2023 के पैरा 23(4) के तहत दिये गये निर्देशों के आधार पर याचिका की प्रति सभी प्रतिवादियों को ईमेल द्वारा भेजी गई है तथा ईमेल की प्रति संलग्न है। याचिका ई-फाइल कर दी गई है। माननीय आयोग से निवेदन है कि याचिका को स्वीकृत किया जाए। कृपया पावती भेजें।

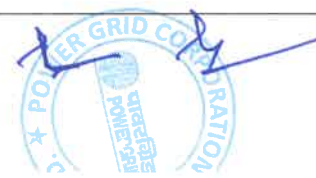
भवदीय,


  
(मोहम्मद मोसिन)

मुख्य महाप्रबंधक (वाणिज्यिक / विनियामक प्रकोष्ठ)

संलग्नक: उपरोक्तानुसार।

Particulars	
1. Name of the Petitioner/Applicant	POWER GRID CORPORATION OF INDIA LTD.
2. Address of the Petitioner/Applicant	"SAUDAMINI", Plot no 2, Sector 29, Gurgaon
3. Subject Matter	Petition for determination of tariff for 1X500 MVA, 400/230 KV ICT (4 <sup>th</sup> ) along with associated bays and equipments at Arasur sub-station under "Augmentation of transformation capacity by 1X500 MVA, 400kV/230KV ICT (4 <sup>th</sup> ) at Arasur sub-station" 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),2024
4. Petition No., if any	N.A.
5. Details of generation assets (a) Generating station/units (b) Capacity in MW (c) Date of commercial operation (d) Period for which fee paid (e) Amount of fee paid (f) Surcharge, if any	N.A.
6. Details of transmission assets (a) Transmission line and sub-stations (b) Date of commercial operation (c) Period for which fee paid (d) Amount of fee paid (g) Surcharge, if any	1X500 MVA, 400/230 KV ICT (4 <sup>th</sup> ) along with associated bays and equipments at Arasur sub-station associated bays and equipments at Arasur sub-station 30.06.2024 FY 2024-25 1,00,000.00
7. Fee paid for Adoption of tariff for (a) Generation asset (b) Transmission asset	N.A.
8. Application fee for licence (a) Trading licence (b) Transmission licence (c) Period for which paid (d) Amount of fee paid	N.A.
9. Fees paid for Miscellaneous Application	N.A.
10. Fees paid for Interlocutory Application	N.A.
11. Fee paid for Regulatory Compliance petition	N.A.
12. Fee paid for Review Application	N.A.
13. Licence fee for inter-State Trading (a) Category (b) Period (c) Amount of fee paid (d) Surcharge, if any	N.A.
14. Licence fee for inter-State Transmission (a) Expected/Actual transmission charge (b) Period (c) Amount of fee calculated as a transmission charge. (d) Surcharge, if any	N.A.



15. Annual Registration Charge for Power Exchange	N.A.
(a) Period	
(b) Amount of turnover	
(c) Fee paid	
(d) Surcharge, if any	
16. Details of fee remitted	
(a) UTR No	CMS/001531969269
(b) Date of remittance	19.09.2024
(c) Amount remitted	1,00,000.00
<b>Note: While Sl. Nos. 1 to 3 and 16 are compulsory, the rest may be filled up as applicable</b>	
Signature of the authorized signatory with date	 <b>Mohd Mohsin</b> <b>Chief General Manager (Commercial/RC)</b>





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## POWERGRID SR: Service of tariff petition pertaining to determination of tariff of 4th ICT at Arasur

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From POWERGRID COMMERCIAL <commercialccsr@powergrid.in>

Date Thu 9/26/2024 5:07 PM

To cfcereg@tnebnet.org <cfcereg@tnebnet.org>; trac@kseb.in <trac@kseb.in>; cecommercial@rediffmail.com <cecommercial@rediffmail.com>; ptc.hescom@gmail.com <ptc.hescom@gmail.com>; eeptcgescom@gmail.com <eeptcgescom@gmail.com>; kamaluddinalikhan@gmail.com <kamaluddinalikhan@gmail.com>; gmpp.work@gmail.com <gmpp.work@gmail.com>; cee-elec.goa@nic.in <cee-elec.goa@nic.in>; seccesc@gmail.com <seccesc@gmail.com>; seecoml@rediffmail.com <seecoml@rediffmail.com>; se3ped.pon@nic.in <se3ped.pon@nic.in>; cgmlegalaptransco@gmail.com <cgmlegalaptransco@gmail.com>; cgmppaepdcl@gmail.com <cgmppaepdcl@gmail.com>; cgmir@tsnprdcl.in <cgmir@tsnprdcl.in>; chairman@tnebnet.org <chairman@tnebnet.org>; cmdkseb@kseb.in <cmdkseb@kseb.in>; se1ped@py.gov.in <se1ped@py.gov.in>; cee-elec.goa@nic.in <cee-elec.goa@nic.in>; cmd.cpdcl@apcpdcl.in <cmd.cpdcl@apcpdcl.in>; cmd@apeasternpower.com <cmd@apeasternpower.com>

 1 attachments (8 MB)

PoC petition 04th ICT Arasur.pdf;

Sir/Madam,

Please find attached the tariff petition which is being filed in CERC for the following asset for **determination of transmission tariff**:

**1X500 MVA, 400/230 KV ICT (4th) along with associated bays and equipments at Arasur sub-station under "Augmentation of transformation capacity by 1X500 MVA, 400kV/230KV ICT (4th) at Arasur sub-station (Reference number on CERC e-filing portal : 720/2024)**

It is informed that petition is also accessible on e-filing portal of Hon'ble CERC. Further, the subject petition is also available on POWERGRID's website.

This service is as per terms of Regulation 23 (4) of Central Electricity Regulatory Commission (Conduct of business) Regulations, 2023.

With Regards,

POWERGRID Commercial SR Group

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

Petition No. \_\_\_/TT/ \_\_\_

**IN THE MATTER OF:** Petition for determination of tariff for 1X500 MVA, 400/230 KV ICT (4<sup>th</sup>) along with associated bays and equipments at Arasur sub-station under "Augmentation of transformation capacity by 1X500 MVA, 400kV/230KV ICT (4<sup>th</sup>) at Arasur sub-station" 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),2024.

**Power Grid Corporation of India Ltd.**

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)

.....PETITIONER

**Tamil Nadu Generation and Distribution Corporation Ltd.**

NPKRR Maaligai, 800, Anna Salai,

Chennai-600 002

Represented by its Chairman & Managing Director

**And others**

.....RESPONDENTS

**FILED BY  
POWER GRID CORPORATION OF INDIA LTD.**

**Place: Gurugram**

**REPRESENTED BY**

(Mohd Mohsin)

**Chief General Manager (Commercial/RC)**

**PLACE : GURGAON**

**DATED: 19.09.2024**



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

PETITION NO.: .....

**IN THE MATTER OF:** Petition for determination of tariff for 1X500 MVA, 400/230 KV ICT (4<sup>th</sup>) along with associated bays and equipments at Arasur sub-station under "Augmentation of transformation capacity by 1X500 MVA, 400kV/230KV ICT (4<sup>th</sup>) at Arasur sub-station" 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),2024.

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Represented by its Chairman & Managing Director

.....RESPONDENTS

**And others**

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**FILED BY**  
**POWER GRID CORPORATION OF INDIA LTD.**

**REPRESENTED BY**

  
**(Mohd Mohsin)**

**Chief General Manager (Commercial/RC)**

**PLACE : GURGAON**

**DATED: 19.09.2024**



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

PETITION NO.: .....

**IN THE MATTER OF:** Petition for determination of tariff for 1X500 MVA, 400/230 KV ICT (4<sup>th</sup>) along with associated bays and equipments at Arasur sub-station under “Augmentation of transformation capacity by 1X500 MVA, 400kV/230KV ICT (4<sup>th</sup>) at Arasur sub-station” 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),2024.

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**Tamil Nadu Generation and Distribution Corporation Ltd.**

NPKRR Maaligai, 800, Anna Salai,  
Chennai-600 002  
Represented by its Chairman & Managing Director  
**And others**

.....RESPONDENTS

To,  
The Secretary  
Central Electricity Regulatory Commission  
New Delhi-110 029

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.**

**REPRESENTED BY**

  
**(Mohd Mohsin)**  
**Chief General Manager (Commercial/RC)**



**PLACE : GURGAON**

**DATED: 19.09.2024**

**BEFORE  
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PETITION NO.: .....

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.....PETITIONER

**Tamil Nadu Generation and Distribution Corporation Ltd.**

NPKRR Maaligai, 800, Anna Salai,

Chennai-600 002

Represented by its Chairman & Managing Director

.....RESPONDENTS

**And others**

**MEMO OF PARTIES**

**Power Grid Corporation of India Ltd.**

.....PETITIONER

VERSUS

**Southern Region**

.....RESPONDENTS



**1. Tamil Nadu Generation and Distribution Corporation Ltd.**

NPKRR Maaligai, 800, Anna Salai,

Chennai – 600 002

Represented by its Chairman & Managing Director

**2. Kerala State Electricity Board Ltd (KSEBL)**

Vaidyuthi Bhavanam

Pattom, Thiruvananthapuram – 695 004

Represented by its Chairman

**3. Electricity Department, Government of Goa**

Vidyuti Bhawan, Panaji, Goa 403001

Represented by Chief Engineer ( Electrical)

**4. Electricity Department, Govt. of Pondicherry**

137, Netaji Subash Chandra Bose Salai

Pondicherry - 605001

Represented by its Chief Secretary

**5. Eastern Power Distribution Company of Andhra Pradesh Limited (APEPDCL)**

P&T Colony, Seethmadhara, VISHAKHAPATNAM, Andhra Pradesh,

Represented by its Chairman & Managing Director

**6. Southern Power Distribution Company of Andhra Pradesh Ltd (APSPDCL)**

#19-13-65/A, Srinivasapuram, Tiruchanoor Road

Tirupati – 517503, Andhra Pradesh

Represented by Its Chairman & Managing Director

**7. Andhra Pradesh Central Power Distribution Company Limited (APCPDCL)**

Corporate Office, Beside Polytechnic College, ITI Road

Vijayawada - 520 008, Krishna District, Andhra Pradesh

Represented by Its Chairman & Managing Director

**8. Southern Power Distribution Company of Telangana Limited (TSSPDCL)**



6-1-50, Corporate Office, Mint Compound,  
HYDERABAD – 500 063, Telangana  
Represented by Its Chairman & Managing Director

**9. Northern Power Distribution Company of Telangana Limited (TSNPDCL)**

H.No 2-5-3 1/2, Vidyut Bhawan, Corporate Office,  
Nakkal Gutta, Hanamkonda, WARANGAL – 506 001, Telangana  
Represented by Its Chairman & Managing Director

**10. Bangalore Electricity Supply Company Ltd., (BESCOM)**

Corporate Office, K.R.Circle,  
BANGALORE – 560 001, Karanataka  
Represented by Its Managing Director

**11. Gulbarga Electricity Supply Company Ltd. (GESCOM)**

Corporate Office, Station Main Road, Opp. Parivar Hotel,  
Gulbarga (Kalburgi), KARNATAKA - 585102  
Represented by Its Managing Director

**12. Hubli Electricity Supply Company Ltd. (HESCOM)**

Navanagar, PB Road, HUBLI, Karnataka- 580025  
Represented by Its Managing Director

**13. Mangalore Electricity Supply Company Ltd. (MESCOM)**

Corporate Office, 1st Floor, MESCOM Bhavan,  
Kavoor Cross Road, Bejai, Mangalore – 575 004, Karnataka  
Represented by Its Managing Director

**14. Chamundeswari Electricity Supply Corporation Ltd. (CESC)**

Corporate Office, #29, Vijayanagara 2nd Stage,  
Hinkal, Mysuru-570017, KARNATAKA  
Represented by Its Managing Director



**PETITIONER**  
**POWER GRID CORPORATION OF INDIA LTD.**

**REPRESENTED BY**

  
(Mohd Mohsin)  
Chief General Manager (Commercial/RC)



**PLACE : GURGAON**

**DATED: 19.09.2024**

**BEFORE  
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.....PETITIONER

**Tamil Nadu Generation and Distribution Corporation Ltd.**

NPKRR Maaligai, 800, Anna Salai,  
Chennai-600 002  
Represented by its Chairman & Managing Director  
And others

.....RESPONDENTS

**MEMO OF APPEARANCE**

**POWER GRID CORPORATION OF INDIA LTD.**

.....PETITIONER

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



5. Shri Naresh Kumar Angaru, DGM (Commercial), POWERGRID
6. Shri Arjun Malhotra, Manager (Law), POWERGRID

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 19<sup>th</sup> day of Sept' 2024.

**PETITIONER**  
**POWER GRID CORPORATION OF INDIA LTD.**

**REPRESENTED BY**

  
**(Mohd Mohsin)**

**Chief General Manager (Commercial/RC)**

**PLACE : GURGAON**

**DATED: 19.09.2024**



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.....PETITIONER

**Tamil Nadu Generation and Distribution Corporation Ltd.**

NPKRR Maaligai, 800, Anna Salai,

Chennai-600 002

Represented by its Chairman & Managing Director

**And others**

....RESPONDENTS

**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 being 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 mainly in Southern Region of India. The respondents are also ‘Designated Inter State Transmission Customer’ (hereinafter referred to as ‘DICs’) in terms of the Sharing Regulations, 2020 from Southern region.

**(iii) Background of Transmission Assets:**

- POWERGRID is filing the present petition for determination of tariff for asset which have been implemented under “**Augmentation of transformation capacity by 1X500 MVA, 400kV/230KV ICT (4<sup>th</sup>) at Arasur sub-station**”, as per following:

Asset No.	Asset Name	DOCO
Asset-1	1X500 MVA, 400/230 KV ICT (4 <sup>th</sup> ) along with associated bays and equipments at Arasur sub-station	30.06.2024

**(iv) Brief description of important events relevant to the Petition:**

S.No.	Event	Date
1.	8 <sup>th</sup> Consultation Meeting for Evolving Transmission System in Southern Region held on 28.06.2022	28.06.2022
		25.08.2022



S.No.	Event	Date
	CTUIL recommendation for implementation of instant project by POWERGRID through RTM route (OM Ref. no. C/CTU/AI/00/7 <sup>th</sup> CCTP dated 25.08.2022)	
2.	Investment Approval	23.01.2023
3.	SCOD	24.02.2024
4.	COD	30.06.2024

**(v) Summary of Claims:**

- POWERGRID is seeking determination of tariff for aforesaid transmission assets on estimated capital cost comprising of capital cost incurred upto Commercial Operation Date (“COD”) and projected additional capital expenditure in accordance with terms of Regulation 24 & 25 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 (“**Tariff Regulations, 2024**”).
- The details of FR/RCE 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:

(Rs in lakhs)

Asset No.	Apportioned Approved Cost as per FR	Expenditure Up to DOCO	Projected Expenditure					Estimated completion Cost
			2024-25	2025-26	2026-27	2027-28	2028-29	
Asset-1	4804.45	3697.02	1618.03	60.89	--	--	--	5375.94

**5. Details of Time-Overrun:**

There is a time overrun of 127 days in commissioning of subject asset with respect to SCOD of 24.02.2024. The petitioner is seeking condonation of delay as the same is attributable to delay encountered beyond the control of POWERGRID.

- It is prayed to Hon’ble commission to reimburse expenditure of petition filing fee, license fee, newspaper publication expenses and RLDC fee and charges, insurance expenses, security expenses and capital spares, etc.**



7. Details of tariff claimed are as follows:

(Rs in Lakhs)

Sl. No.	Name of the asset	2024-25	2025-26	2026-27	2027-28	2028-29
1	Asset-1	671.21	1016.86	1012.77	1004.52	997.51

B. Detailed Petition:

**MOST RESPECTFULLY SHOWETH:**

**Issue wise submission(s)**

8. The Petitioner, 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.
9. 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.
10. That the subject project/petition covers approval of transmission tariff for following Assets:

Asset No.	Asset Name	DOCO
Asset-1	1X500 MVA, 400/230 KV ICT (4 <sup>th</sup> ) along with associated bays and equipments at Arasur sub-station	30.06.2024

**Approval of the Scheme :**

11. That the petitioner has been entrusted with the implementation of "1X500 MVA, 400/230 KV ICT (4<sup>th</sup>) along with associated bays and equipments at Arasur sub-station". The investment approval of the project was accorded by Competent Authority i.e. CMD vide Memorandum dated 23.01.2023 with an estimated cost of Rs.48.04 Crore, including IDC of Rs.1.83 Crore, at September 2022 price level; a copy whereof is attached hereto as **Encl.-1**.



12. That the scope of the scheme was discussed and agreed in the 8<sup>th</sup> Consultation Meeting for Evolving Transmission System in Southern Region held on 28.06.2022 through virtual mode. Subsequently, CTUIL vide OM Ref. no. C/CTU/AI/06th CCTP dated 25.08.2022 recommended the scheme "**Augmentation of transformation capacity by 1X500 MVA, 400kV/230KV ICT (4<sup>th</sup>) at Arasur sub-station**" for implementation by POWERGRID through RTM route with an estimated cost of **Rs.61 Crore.**

Extracts of the 8<sup>th</sup> CMETS in SR and CTU OM dated 25.08.2022 are enclosed herewith as **Encl.-2.**

**SCOPE OF WORK:**

13. The scope of work covered under the project "**Augmentation of transformation capacity by 1X500 MVA, 400kV/230KV ICT (4<sup>th</sup>) at Arasur substation**" are as follows:

**1) Augmentation of transformation capacity by 1X500 MVA, 400kV/230kV ICT(4<sup>th</sup>) at Arasur substation**

- 1x500 MVA, 400/220 kV ICT : 1 No.

**400 kV side**

- ICT bay: 1 No.

**230 kV side**

- ICT bay: 1 No.

The SLD and DPR extract of the scheme is attached hereto as **Encl.- 3.**

The details of the petition filed under the instant Project is given as here under:

SI No	Asset Name	DOCO	Petition
1	1X500 MVA, 400/230 KV ICT (4 <sup>th</sup> ) along with associated bays and equipments at Arasur sub-station	30.06.2024	Covered under instant petition



CEA Energization clearance, RLDC trial operation certificate, CMD certificate and DOCO certificate for the instant asset have been enclosed as **Encl.-3**.

- 5.1 It is submitted that as per the Regulation 9 of the CERC (Terms and Conditions of Tariff) Regulations, 2024, the following condition has to be fulfilled while filing the Tariff petition for 2024-29 tariff block :-

**Quote**

*“Provided that where the transmission system comprises various elements, the transmission licensee shall file an application for determination of tariff for a group of elements on incurring of expenditure of not less than 100 Crore or 70% of the cost envisaged in the Investment Approval, whichever is lower, as on the anticipated date of commercial operation”*

**Unquote**

The entire scope of the project has been completed with the commissioning of subject Asset. Accordingly, the instant petition is being filed in compliance with Regulation 9 of CERC Regulations,2019.

**Implementation Schedule**

14. As per the investment approval dated 23.01.2023, the subject asset was scheduled to be commissioned by 24.02.2024, against which the subject asset could be commissioned and put under commercial operation as follows:

<b>Asset</b>	<b>SCOD</b>	<b>DOCO</b>	<b>Delay w.r.t. Revised SCOD (in days)</b>
<b>Asset-1</b>	24.02.2024	30.06.2024	127

15. **Reasons of delay**



As per the table above, there is a time overrun of 127 days in commissioning of subject asset and it is mainly due to delay in award of contract. It is submitted that POWERGRID, being a government enterprise, is bound to comply with several guidelines. Further, to achieve optimum and competitive price and to reduce the burden on beneficiaries, packaging of contracts for the Project procurement, i.e., grouping of equipment/goods/works/services into an optimum quantity is being strictly followed. Further, in the instant case, considering economy in procurement to obtain better competitive price, the subject scope of work being small in bid size, was clubbed with different projects coming up during that time. In the process of achieving a better competitive price, a marginal delay of 127 days has been encountered. It is humbly submitted that the said delay was beyond the control of POWERGRID.

16. It is therefore prayed before the Hon'ble Central Commission to kindly condone the aforementioned delay in completion of subject asset as the said delay was beyond the control of POWERGRID.

**17. Estimated Completion Cost:**

The present Petition for determination of tariff is filed in line with provision 9(1) of tariff Regulation 2024 applicable for 2024-29 period. The capital cost incurred up to DOCO and projected to be incurred during 2024-25 & 2025-26, is duly certified in Auditor Certificate. Copy of the said Auditor Certificate(s) is enclosed and marked as **Encl.-4**.

**(Rs in Lakhs)**

Asset No.	Apportioned FR Approved Cost	Expenditure Up to DOCO	Projected Expenditure					Estimated completion Cost
			2024-25	2025-26	2026-27	2027-28	2028-29	
<b>Asset-1</b>	4804.45	3697.02	1618.03	60.89	--	--	--	5375.94

It may be seen from the above that the estimated completion cost of the Asset exceeds the apportioned FR approved cost. Further, Revised cost estimate for the subject project is under preparation and the same shall be submitted after its approval from competent authority.



**Cost variation:**

The variation between estimated completion cost vis-à-vis approved cost for the Assets covered under instant petition are given as hereunder:

**(Rs in lakhs)**

Asset No.	Apportioned FR Approved Cost (a)	Estimated completion Cost (b)	Cost Variation (c=b-a)
<b>Asset-1</b>	4804.45	5375.94	571.49

The item-wise cost variation between FR approved cost and estimated completion cost have been given in Form-5.

Further, the salient reasons of cost variation are given here as under:

**Cost variation in the Equipment Cost including civil works (Increase of Rs.9.26 Cr):** It is submitted that through open competitive bidding process, lowest possible market prices for required product/services/as per detailed designing is determined and contracts are awarded on the basis of lowest evaluated eligible bidder on overall basis. The best competitive bid prices against tenders may vary as compared to the cost estimate depending upon prevailing market conditions, design and site requirements vis-à-vis the estimates which are prepared by the petitioner as per well-defined procedures for cost estimate. The FR cost estimate is a broad indicative cost worked out generally on the basis of average unit rates of recently awarded contracts/ bid prices as a general practice. It is submitted that the cost estimate of the project is on the basis of September,2022 price level.

Further, regarding variation in cost of individual item in Substation packages, it is submitted that the packages under subject scope of works comprise of a large no. of items and the same are awarded through open competitive bidding. In the said bidding process, bids are received from multiple parties quoting different rates for various BOQ items under the said package. Further, the lowest bidder can be arrived at/ evaluated on overall basis only. Hence, item-wise unit prices in contracts and its variation over unit rate considered in FR estimates are beyond the control of the petitioner.



**Variation in IDC (Decrease of Rs.1.75 Cr):**

It may be mentioned that in FR, IDC was calculated considering rate of interest for domestic loans @9.70%. However, in actual, the weighted average rate of interest of deployed loans is considered. The actual IDC accrued up to DOCO has been considered at the time of claim of Tariff.

**Variation in IEDC (Decrease of Rs.1.796 Cr):**

In investment approval, IEDC and Contingency of 10.75% and 3% have been considered respectively, whereas in the Auditor Certificate, IEDC has been considered based on the actual expenditure under the subject head.

Considering the above, it is humbly prayed that full tariff may be allowed from DOCO based on estimated completion cost of the subject asset.

**DETAILS OF THE INITIAL SPARES:**

**18. The Initial spares for the Assets have been calculated as per Regulation 23(d) of the Tariff Regulations, 2024 which provides as under:**

*“23. Initial Spares: Initial spares shall be capitalised as a percentage of the Plant and Machinery cost, subject to 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) Gas Insulated Sub-station (GIS)

- Green Field-5.00%

- Brown Field-7.00%

(v) Communication system - 3.50%





(vi) Static Synchronous Compensator - 6.00%

.....

Provided that:

(i) Plant and Machinery cost shall be considered as the original project cost excluding IDC, IEDC, Land Cost and Cost of Civil Works. The generating company and the transmission licensee, for the purpose of estimating Plant and Machinery Costs, shall submit the break-up of head-wise IDC and IEDC in its tariff application.

.....

19. Considering the aforesaid Regulation, the initial spares claimed in the present petition is given below :-

(Rs. In Lakhs)

Assets	Particulars	Plan & Machinery cost (A)	Initial Spares Claimed (B)	Ceiling Limit (%) (C)	Initial Spares Worked out $D = [(A-B) * C / (100-C)]$	Excess [B-D]
Asset-1	SS (Brown Field)	4988.50	155.20	6	308.51	-

It is submitted that initial spares claimed in the instant petition is well within the norms allowed by this Hon'ble Commission. Therefore, it is prayed to allow the initial spares as claimed by the Petitioner.

It may be mentioned that in the Auditor Certificate, initial spares discharged upto DOCO are included in DOCO cost, whereas initial spares discharged after DOCO are included in the ADD-CAP expenditure of the respective year.

Details of initial spares discharged is enclosed at **Encl.-4**.

#### **DETAILS OF THE ADDITIONAL CAPITALIZATION**

20. The details of Add Cap claimed during 2024-29 tariff block is given as hereunder:

**Add cap for 2024-29 block:**



Asset	Add cap detail (Rs. Lakhs)				
	2024-25	2025-26	2026-27	2027-28	2028-29
	1618.03	60.89	-	-	-
Asset-1	Claimed under regulation 24(1)(a) & 24(1)(b)				

**TRANSMISSION TARIFF for 2024-29 BLOCK:**

21. That as per Regulation 8(1)(i) & (ii), 14(5) and Regulation 15 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024, the tariff for transmission of electricity on Inter-State transmission system (ISTS) shall comprise transmission charges for recovery of annual fixed cost consisting of (a) Return on Equity, (b) Interest on Loan Capital, (c) Depreciation, (d) Interest on Working Capital and (e) Operation and maintenance expenses.
22. The tariff for block 2024-29 has been worked out as per Regulation 10 of the CERC (Terms and Conditions of Tariff) Regulations, 2024. In the present petition, the transmission tariff has been calculated taking actual expenditure upto DOCO and Actual/estimated expenditure from DOCO to 31.03.2029. The tariff formats for block 2024-29 has been worked out as per Annexure-I, Part-III of the tariff regulations for period 2024-29 and the calculations for working out the tariff along with supporting documentation are attached hereto as **Encl-5**.
23. Further, for the instant asset, details of accrual IDC as considered under add cap during the year of discharge is tabulated below:

**Asset-1:**

(Rs in Lakhs)

Sl. No.	Expenditure	Building & Civil Works	Sub-station	Communication Excl. OPGW	I.T. Equipment	Total
1	As per Auditor Certificate (Upto DOCO) as on 29.06.2024	0	3668.47	0	28.55	3697.02



Sl. No.	Expenditure	Building & Civil Works	Sub-station	Communication Excl. OPGW	I.T. Equipment	Total
2	Less : Accrual IDC upto DOCO	0	7.82	0.00	0.06	7.88
3	Add: Notional IDC on Normative debt funded through equity	0	22.47	0.00	0.17	22.64
4	Expenditure upto DOCO Excluding Accrual IDC and including notional IDC	0	3683.12	0.00	28.66	3711.78
5	Estimated Expenditure for FY 2024-25 (As per auditor certificate)	0	1617.17	0.00	0.86	1618.03
6	Add: Accrual IDC to be discharged in FY 2024-25	0	7.82	0.00	0.06	7.88
7	Estimated Expenditure in FY 2024-25 (Including Accrual IDC)	0	1624.99	0.00	0.92	1625.91
8	Estimated Expenditure in FY 2025-26	0	60.89	0.00	0.00	60.89
9	<b>Total Estimated Completion Cost</b>	<b>0</b>	<b>5369.00</b>	<b>0.00</b>	<b>29.58</b>	<b>5398.58</b>

24. It is submitted that for the instant asset, out of the total IDC of Rs.8.01 Lakhs, Rs.0.13 Lakhs has been discharged upto DOCO. The balance IDC of Rs.7.88 Lakhs is likely to be discharged during FY 2024-25. Further, the entire amount of IEDC for the instant asset has been discharged as on DOCO. It is further submitted that expenditure other than the above accrued IDC has been considered on cash basis in the Auditor's certificate.



25. The Hon'ble Commission is requested to kindly allow the IDC on the basis of cash out flow. It is further submitted that accrued IDC to be discharged during FY 2024-25 has not been included in the Add Cap expenditure for the respective year as per Auditor certificate. Further, a statement of cash IDC is enclosed at **Encl.-4A**.
26. **Notional IDC:** It is submitted that the petitioner has claimed notional IDC of Rs.22.64 Lakhs in the subject asset. The same has been claimed in accordance with the provisions of Regulation 19(2)(b) and 21(1) of CERC Tariff Regulations,2024. The calculation of the same is enclosed as **Encl.-4B**.
27. In respect of IDC calculation, it is submitted that the IDC statement showing details of loans deployed along with the interest rates has been submitted along with the petition. Further, interest rate proofs for loans deployed in the subject assets are enclosed as **Encl.-4C**.
28. The transmission tariff has been calculated based on audited cost and considering accrued IDC to be discharged thereafter. Calculations for working out the tariff along with supporting documentation are enclosed as **Encl.-5**. The annual transmission tariff for the tariff period 2024-29 is summarized as below:

(Rs in lakhs)

Sl. No.	Asset	2024-25	2025-26	2026-27	2027-28	2028-29
1	Asset-1	671.21	1016.86	1012.77	1004.52	997.51

29. That, it is submitted that the petitioner is liable to pay income tax at MAT rate prescribed vide the taxation laws (Amendment) ordinance 2019 published in the Gazette dt. 20<sup>th</sup> September 2019. The 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(2) of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 for 2024-29 period. That as per clause 31 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.

30. 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 28 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.
31. In the tariff calculation for 2024-29 period, Interest on Loan has been calculated on the basis of rate prevailing as on DOCO/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 the beneficiaries.
32. The transmission charges at Para 28 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) & (d) of the tariff regulations for tariff block 2024-29 but excludes security expenses, Insurance and capital spares as provided in the Regulation.



33. That as per Regulation 36(3)(d) of CERC Tariff Regulations, 2024, the Security Expenses, Insurance and Capital Spares more than 10 Lakh for transmission system shall be allowed separately after prudence check.

**Security Expenses:**

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 FY 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 Spares:**

It is submitted that 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.

34. 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 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.

35. 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.
36. The Transmission Charges and other related Charges indicated at Para 28 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**

37. Tariff for Transmission of Electricity (Annual Fixed Cost) for 2024-29 as per Para 28 above shall be recovered on monthly basis in accordance with Regulation 78 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 and shall be shared by the beneficiaries and long-term transmission customers in Central



Electricity Regulatory Commission (Sharing of Inter State Transmission Charges and Losses) Regulations, 2020 or as amended from time to time.

38. 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.-6 may please be treated as integral part of this petition.**

**A. PRAYER**

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

- a) Condone the delay in completion of subject asset on merit of the same as prayed in Para 15 above.
- b) Admit the capital cost as claimed in the Petition and approve the Additional Capitalization incurred / projected to be incurred.
- c) Approve the Transmission Tariff for tariff block 2024-29 block for the asset covered under this petition, as per Para 28 above.
- d) Approve the notional IDC claimed in accordance with the provisions of Regulation 19(2)(b) and 21(1) of CERC Tariff Regulations, 2024.
- e) Allow the Initial spares claimed as project as a whole.
- f) 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 2024 as per Para 28 above for respective block.
- g) 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) of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024, and other expenditure (if any) in relation to the filing of petition.





- h) Allow the petitioner to bill and recover Licensee fee and RLDC fees and charges, separately from the respondents in terms of Regulation 94(3) and 93(4) of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024.
- i) 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 beneficiaries.
- j) 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 33 above.
- k) 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 33 above.
- l) 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 33 above.
- m) Allow the petitioner to claim expenses of CTUIL borne by POWERGRID through a separate petition as mentioned at Para 33 above.
- n) 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.
- o) Allow interim tariff in accordance with Regulation 10(3) of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 for 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.

**FILED BY  
POWER GRID CORPORATION OF INDIA LTD.**

**REPRESENTED BY**

  
**(Mohd Mohsin)**  
**Chief General Manager (Commercial/RC)**



**PLACE : GURGAON**

**DATED: 19.09.2024**

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

PETITION NO.: .....

**IN THE MATTER OF:** Petition for determination of tariff for 1X500 MVA, 400/230 KV ICT (4<sup>th</sup>) along with associated bays and equipments at Arasur sub-station under “Augmentation of transformation capacity by 1X500 MVA, 400kV/230KV ICT (4<sup>th</sup>) at Arasur sub-station” 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),2024.

**Power Grid Corporation of India Ltd.**

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)

.....PETITIONER

**Tamil Nadu Generation and Distribution Corporation Ltd.**

NPKRR Maaligai, 800, Anna Salai,

Chennai-600 002

Represented by its Chairman & Managing Director

.....RESPONDENTS

**And others**

**AFFIDAVIT VERIFYING THE PETITION**

I, Mohd Mohsin, S/o Late Shri Akhtar Hasan, working as Chief General Manager (Commercial/RC) in the Power Grid 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 38 of the facts as mentioned in the Petition are true and correct based on my personal knowledge, belief and records maintained in the office and the contents of Para 01 to 38 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.

  
 (DEPONENT)


**VERIFICATION**

Solemnly affirmed at Gurgaon on this 19<sup>th</sup> day of September'2024 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.

  
 (DEPONENT)



**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)



केन्द्रीय कार्यालय : 'सौदामिनी' प्लॉट सं. 2, सैक्टर-29, गुरुग्राम-122001, (हरियाणा), दूरभाष : 0124-2571700-719  
Corporate Office : "Saudamini", Plot No. 2, Sector-29, Gurugram-122001, (Haryana) Tel. : 0124-2571700-719

पंजीकृत कार्यालय : बी-9, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली-110016 011-26560112, 26564812, 26564812, 26564892, सीआईएन : L40101DL1989GOI038121  
Registered Office : B-9, Qutab Institution Area, Katwaria Sarai, New Delhi-110016. Tel.: 011-26560112, 26564812, 26564812, 26564892, CIN : L40101DL1989GOI038121  
Website : www.powergridindia.com

C/CP/PA2223-10-0AN-IA023

**MEMORANDUM**

**INVESTMENT APPROVAL FOR "Augmentation of Transformation Capacity by 1x500 MVA, 400/230kV ICT (4<sup>th</sup>) at Arasur Substation"**

Investment approval for "Augmentation of Transformation Capacity by 1x500 MVA, 400/230kV ICT (4<sup>th</sup>) at Arasur Substation" has been accorded by CMD on January 22, 2023 as per the details given below:

**1. SCOPE OF PROJECT**

Broad Scope of works:

**Augmentation of Transformation capacity by 1x500MVA, 400/230kV ICT (4<sup>th</sup>) at Arasur Substation**

1x500 MVA, 400/230 kV ICT : 01 No.

**400 kV side**

i. ICT Bay : 1 No.

**230 kV Side**

i. ICT Bay : 1 No

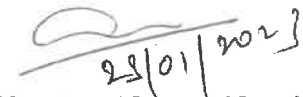
**2. PROJECT COST & FUNDING**

The estimated cost of the project based on September, 2022 price level is ₹48.04 crore including IDC of ₹1.83 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 Borrowings (ECB) etc. and equity component through internal resources.

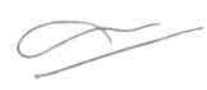
**3. COMMISSIONING SCHEDULE**

The project is scheduled to be commissioned by 24.02.2024.

  
(Krishna Kumar Kandpal)  
Sr.DGM (CP)



<b>ABSTRACT COST ESTIMATE</b>		
<b>AUGMENTATION OF TRANSFORMATION CAPACITY BY 1X500MVA, 400/230KV ICT (4TH) AT ARASUR SUBSTATION</b>		
<b>(September 2022 price level)</b>		
<b>Sl.No</b>	<b>DESCRIPTION</b>	<b>AMOUNT (Rs. in crore)</b>
<b>A</b>	<b>Civil Works</b>	
	i) Infrastructure for substations	0.20
<b>B</b>	<b>Equipment Cost</b>	
	a) Sub-Stations	40.43
<b>C</b>	<b>Sub Total (A TO B)</b>	<b>40.63</b>
<b>D</b>	Incidental Expenditure During construction (IEDC) @ 10.75% of C	4.37
<b>E</b>	Contingencies @ 3% of C	1.22
	<b>Sub Total (A TO E)</b>	<b>46.21</b>
<b>F</b>	Interest During Construction (IDC)	1.83
	<b>GRAND TOTAL</b>	<b>48.04</b>




**वितरण /Distribution:**

1. Chairman-cum-Managing Director, Kerala State Electricity Board, Vidyuthi Bhawanam, Pattom, Thiruvananthapuram - 695 004.
2. Managing Director Karnataka Power Transmission Corp. Ltd., Cauvery Bhawan, Bengaluru - 560 009
3. Managing Director, Tamil Nadu Transmission Corporation Ltd (TANTRANSCO), 6<sup>th</sup> Floor, Eastern Wing, 800 Anna Salai, Chennai - 600002
4. Chairman and Managing Director, Transmission Corp. of Andhra Pradesh Ltd. (APTRANSCO), Gunadala, Eluru Road, Vijayawada, Andhra Pradesh
5. Chairman-cum-Managing Director, Transmission Corp. of Telangana Ltd. (TSTRANSCO), Vidyut Soudha, Khairatabad, Hyderabad – 500 082
6. Superintending Engineer –I, First Floor, Electricity Department, Gingy Salai, Puducherry – 605 001.
7. Executive Engineer, Divisional Office, Lakshadweep Electricity Department, Kavaratti Island, UT of Lakshadweep.
8. CMD, Grid Controller of India Limited, B-9 (1<sup>st</sup> Floor), Qutab Institutional Area, Katwaria Sarai, New Delhi -110 001

**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, 3<sup>rd</sup> & 4<sup>th</sup> 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, Southern Region Power Committee, 29, Race Course Cross Road, Bangalore 560 009.
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



(Krishna Kumar Kandpal)  
Sr.DGM (CP)





**Important Note:**

As per approval, following critical activities may be monitored:

- (i) Timely Award of major package(s).
- (ii) Timely supply of major equipment.
- (iii) Risk Management Matrix indicating various milestones to be monitored for the subject project is attached at **Annexure-II**.

**Distribution:**

**ED :** CMG / Engg.- SS, TL, Civil, CE / CS & MM / ERP & IT Cell/ HR/ Commercial & RC/ AM & Safety Cell / Engg-HVDC, QA&I & FQA/ IB, BDD & JV/ GA&C/ ESMD & CSR/ Finance/ CTUIL/ SRTS-II

**Chief GM :** NTAMC/ Admin-IR/ HRD, RB & Corp. Comm

Company Secretary

DGM : Law

**For kind information of:**

Director (Personnel)/ Director (Operations)/Director (Projects)/ Director (Finance)/ CVO



**(Krishna Kumar Kandpal)**  
**Sr.DGM (CP)**



# सेंट्रल ट्रान्समिशन यूटिलिटी ऑफ इंडिया लिमिटेड

(पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड के स्वामित्व में)

(भारत सरकार का उद्यम)

**CENTRAL TRANSMISSION UTILITY OF INDIA LTD.**  
(A wholly owned subsidiary of Power Grid Corporation of India Limited)  
(A Government of India Enterprise)

Ref: CTU/S/00/8<sup>th</sup> CMETS-SR

Date: 12.07.2022

As per distribution list

**Subject: Minutes of 8<sup>th</sup> Consultation Meeting for Evolving Transmission Schemes In Southern Region.**

Dear Sir/Ma'am,

Please find attached minutes of the 8<sup>th</sup> Consultation Meeting for Evolving Transmission Scheme in Southern Region held on 28.06.2022 through virtual mode.

The minutes are also available at our website ([www.ctuil.in](http://www.ctuil.in)>> ISTS Planning and Coordination >> Consultation Meeting for ISTS >> Southern Region).

Thanking you,

Yours faithfully,



(Anil Kr. Meena)  
Sr. DGM



**Distribution List:**

<b>1. Chief Engineer (PSP&amp;A – I)</b> Central Electricity Authority Sewa Bhawan, R.K.Puram, New Delhi – 110 066.	<b>2. Chief Engineer (Transmission/GEC)</b> Ministry of New and Renewable Energy, Block 14, CGO Complex, Lodhi Road, New Delhi – 110003
<b>3. Director (Transmission)</b> Transmission Corp. of Andhra Pradesh Ltd. (APTRANSCO) Vidyut Soudha, Gunadala, Eluru Rd, Vijayawada, Andhra Pradesh – 520004	<b>4. Member Secretary</b> Southern Regional Power Committee 29, Race Course Cross Road Bangalore – 560 009.
<b>5. Director (Transmission)</b> Transmission Corp. of Telangana Ltd. Vidyut Soudha Hyderabad – 500 082 Fax: 040-23321751	<b>6. Director (Transmission)</b> Karnataka State Power Transmission Corp. Ltd., Cauvery Bhawan Bangalore – 560 009 Fax: 080-22228367
<b>7. Director (Trans. &amp; System Op.),</b> Kerala State Electricity Board Ltd. Vidyuthi Bhawanam, Pattom, P.B. No. 1028 Thiruvananthapuram – 695 004. Fax: 0471-2444738	<b>8. Director (Transmission Projects)</b> Tamil Nadu Transmission Corporation Ltd (TANTRANSCO) 6th Floor, Eastern Wing, 800 Anna Salai, Chennai – 600 002 Fax: 044-28516362
<b>9. Superintending Engineer –I</b> First Floor, Electricity Department Gingy Salai, Puducherry – 605 001.	<b>10. Director (SO)</b> POSOCO 9 <sup>th</sup> Floor, IFCI Towers, 61, Nehru Place, New Delhi – 110019
<b>11. Executive Director</b> Southern Regional Load Dispatch Centre POSOCO 29, Race Course Cross Road, Bangalore – 560009	<b>12. Director (Power System)</b> Solar Energy Corporation of India Ltd. D-3, 1 <sup>st</sup> Floor, A wing, Religare Building, District Centre, Saket, New Delhi – 110017



### **Connectivity/ LTA/ MTOA Applicants**

<p><b>1. Shri Sandeep Sarwate</b> ACE Nuclear Power Coporation of India Ltd. 11N 29, VS Bhawan Anu Shakti Nagar Mumbai-94, Maharshttra Email: <a href="mailto:ssarwate@npcil.co.in">ssarwate@npcil.co.in</a> <a href="mailto:hrahim@npcil.co.in">hrahim@npcil.co.in</a></p>	<p><b>2. Shri Girish Deveshwar</b> Chief Manager Serentica Renewables India Pvt. Ltd. DLF, Cyber park, Tower-B 9<sup>th</sup> Floor, Udyog Vihar Ph-III Gurugram, Haryana Email: <a href="mailto:girish.deveshwar@sterlite.com">girish.deveshwar@sterlite.com</a> <a href="mailto:Alok.nigam@sterlite.com">Alok.nigam@sterlite.com</a></p>
<p><b>3. Shri Parish Gupta</b> Director IB Vogt Solar Seven Pvt. Ltd. 225-225, JMD Empire Golf Course Extension Road Sector-62, Gurugram, Haryana Email: <a href="mailto:parish.gupta@ibvogt.com">parish.gupta@ibvogt.com</a> <a href="mailto:solarbidding.qm@renewpower.in">solarbidding.qm@renewpower.in</a></p>	<p><b>4. Shri Sharat Ranjan</b> Authorized Signatory Ayana Renewable Power Three Pvt. Ltd. S2904, 29<sup>th</sup> Floor, World Trade Centre Brigade Gateway Campus Karnataka - 560055 Email: <a href="mailto:sharatranjan@ayanapower.com">sharatranjan@ayanapower.com</a> <a href="mailto:narayanan@ayanapower.com">narayanan@ayanapower.com</a></p>
<p><b>5. Shri Vivek Kodesia</b> Head Business Development Eden Renewable Bercy Pvt. Ltd. Unit no. 236, B&amp;C 1<sup>st</sup> Floor, DLF South Court, Saket Delhi – 110017 Email : <a href="mailto:vivek.kodesia@eden-re.com">vivek.kodesia@eden-re.com</a> <a href="mailto:Sudhir.verma@eden-re.com">Sudhir.verma@eden-re.com</a></p>	



## **Draft minutes for 8<sup>th</sup> Consultation Meeting for Evolving Transmission Schemes in SR, held on 28.06.2022**

**A.** CGM (CTU) welcomed the participants to 8<sup>th</sup> Consultation Meeting for Evolving Transmission System in Southern Region. It was mentioned that CTU is putting all efforts for coordinated planning of ISTS network. Accordingly, a joint study meeting of Southern Regional constituents has been scheduled from 30<sup>th</sup> June to 02<sup>nd</sup> July, 2022 at SRPC, Bengaluru. All of you are requested to come prepared with items under agenda or additional inputs, if any, so that decision may be taken up after analysis of different prospective. Subsequently, agenda of the meeting was taken up for discussion. List of participants attached at **Annexure-I**

**B. Confirmation of Minutes of the 7<sup>th</sup> Consultation Meeting for Evolving Transmission Schemes in Southern Region**

CTU informed that minutes of the 7<sup>th</sup> Consultation Meeting for Evolving Transmission Schemes in Southern Region held on 31.05.2022 were circulated vide letter dated 23.06.2022. SRPC vide email dated 27.06.2022 requested for appropriate incorporation of its representatives observation on item no. C(1) for "Transmission Scheme for integration of additional RE potential in Gadag, Davangere, Bijapur and Bellary Area of Karnataka" made during the meeting Accordingly after discussions it was agreed that the observations as given below, may be incorporated in the minutes before last para (concluding para) of the item C(1).

"Since BESS will be undergoing cycles of Charging and Floating periods (the latter period would be significant compared to the former on average), the net Power Injection available at its Input would be available at its Output for being pumped into the Grid for a significant period of time - the exact figures being dependent on its Cyclic Utilization Factor (CUF). Hence whatever Wind +Solar Dispatch is available at its Input would be available at its Output for being pumped into the Grid for a significant period of time. Therefore, Evacuation Capacity Required should be based on this capacity. For example, for a W+S Dispatch of 2.9 GW with a BESS of 1 GW, the required Evacuation Capacity cannot be 2 GW (Available Dispatch – BESS Capacity), but something around 2.5 GW or so (the exact figures being dependent on BESS specific parameters). After establishing these figures, one, however, can state/ consider the Evacuation Capacity to be Planned as 2 GW citing uncertainties in W+S realization/ existing margins/ coverage under future system strengthening, etc."

After discussion, minutes were confirmed as circulated vide letter dated 23.06.2022, with incorporation of above mentioned observation from SRPC.

**C. ISTS Network Expansion schemes in Southern Region**

**1. Proposal for Augmentation of Transformation Capacity in Tamil Nadu:**

CTU informed that to meet the N-1 contingency criteria and improving the reliability, proposal for augmentation of transformation capacity in ISTS at Arasur, Hosur and Udumalpet substations in Tamil Nadu was discussed in 7<sup>th</sup> Consultation Meeting for Evolving Transmission Scheme in SR, held on 31.05.2022. In the meeting following was agreed after detailed deliberation.



- i. Proposal for Augmentation of transformation capacity at Udumalpet S/s shall be discussed again in next Consultation Meeting for Evolving Transmission Scheme in SR. However, TANTRANSCO shall forward its input within 10 days so that same may be included in the agenda for the next Consultation Meeting for Evolving Transmission Scheme in SR.
- ii. TANTRANSCO shall submit its observation on proposal for Augmentation of transformation capacity at Hosur S/s within seven days. The matter shall be deliberated in the forthcoming SRPC meeting scheduled to be held on 03 & 04.06.2022. If augmentation of transformation capacity at Hosur S/s is agreed in the SRPC, then it will be taken up for implementation, however same shall be informed in next Consultation Meeting for Evolving Transmission Scheme in SR.
- iii. Augmentation of 1x500 MVA, 400/230kV transformation capacity at Arasur S/s may be taken up for implementation

It was informed the CTU has not received any inputs from TANTRANSCO on the proposal for augmentation of transformation capacity at Udumalpet and Hosur S/s. In this regards, TANTRANSCO representative informed that they agree for augmentation of transformation capacity at Hosur & Arasur substations and requested for provision of two additional 230 kV line bays each at Hosur & Arasur substations for drawl of additional power. However, with regard to augmentation of transformation capacity at Udumalpet S/s, TANTRANSCO is looking into the possibility of readjustment of load / network and shall also study other possible alternatives. Therefore, on proposal for augmentation of transformation capacity at Udumalpet S/s, TANTRANSCO need more time to look into the matter.

SRLDC stated that augmentation of transformation capacity at Arasur, Hosur and Udumalpet substations is very much required on urgent basis to meet the N-1 contingency Criteria and for improving the Reliability .

After detail deliberations, following augmentation of transformation capacity was agreed

- i. 1x500 MVA, 400/230kV ICT at Arasur along with associated ICT bays
- ii. 1x500 MVA, 400/230kV ICT at Hosur along with associated ICT bays

Subsequently, vide email dated 08.07.2022, POWERGRID confirmed the space for termination of 01nos. of 230kV line bays each at Hosur and Arasur S/s is available. At Arasur S/s, 1 no. 230kV line bay can be made available after shifting of existing 230kV TBC bay whereas at Hosur S/s, 1 no. 230kV Line bay [equipped bay no. 201] is available. Further, possibility of future 230kV line bay (s) with 230kV cable interconnection can be explored later on.



सेंट्रल ट्रांसमिशन यूटिलिटी ऑफ इंडिया लिमिटेड  
(पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड के स्वामित्व में)  
(भारत सरकार का उद्यम)

**CENTRAL TRANSMISSION UTILITY OF INDIA LTD.**

(A wholly owned subsidiary of Power Grid Corporation of India Limited)  
(A Government of India Enterprise)

Ref.: C/CTU/AI/00/7<sup>th</sup> CCTP

25<sup>th</sup> August 2022

**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 the implementation of the following ISTS costing less than or equal to Rs.100 Cr. in line with the 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
<b>Western Region</b>		
1.	Augmentation of Transformation Capacity by 1x500 MVA, 400/220kV ICT (3 <sup>rd</sup> ) at Raigarh (PG) substation.	Power Grid Corporation of India Ltd.
2.	Western Region Expansion Scheme-XXX (WRES-XXX).	Power Grid Corporation of India Ltd.
<b>Northern Region</b>		
3.	Implementation of 2 nos. of 220 kV line bays at 400/220kV Bikaner-II PS for interconnection of solar projects (ACME Solar Holdings Pvt. Ltd., Prerak Greentech Pvt. Ltd.).	POWERGRID Bikaner Transmission System Ltd. [a subsidiary of Power Grid Corporation of India Ltd. (erstwhile known as Bikaner-II Bhiwadi Transco Ltd.)]
<b>Southern Region</b>		
4.	Augmentation of Transformation Capacity by 1x500 MVA, 400/230kV ICT (4 <sup>th</sup> ) at Arasur substation.	Power Grid Corporation of India Ltd.
5.	Augmentation of Transformation Capacity by 1x500 MVA, 400/230kV ICT (4 <sup>th</sup> ) at Hosur substation.	Power Grid Corporation of India Ltd.

The detailed scope of works for the above transmission schemes, as approved by CTU is given at **Annexure-I**.

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

This issues with the approval of Competent Authority.

(Partha Sarathi Das)  
Sr.General Manager

**Encl: as stated.**



To:

**1. The Chairman & Managing Director**  
Power Grid Corporation of India Ltd.,  
Saudamini, Plot No. 2, Sector-29,  
Gurgaon- 122 001

Copy to:

**1. Shri Ravinder Gupta**  
Chief Engineer & Member Secretary  
(NCT)  
Central Electricity Authority  
Sewa Bhawan, R. K. Puram,  
New Delhi-110 066.

**2. Shri Goutam Ghosh**  
Director (Trans)  
Ministry of Power,  
Shram Shakti Bhawan,  
Rafi Marg, New Delhi 110 001





Western Region**1. Augmentation of Transformation Capacity by 1x500 MVA, 400/220kV ICT (3<sup>rd</sup>) at Raigarh(PG) substation:**

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	Augmentation of Transformation Capacity by 1x500 MVA, 400/220 kV ICT (3 <sup>rd</sup> ) at Raigarh(PG) S/s along with associated ICT bays	<ul style="list-style-type: none"> <li>• 500 MVA, 400/220 kV ICT – 1 No.</li> <li>• 400kV ICT bay – 1 No.</li> <li>• 220kV ICT bay – 1 No.</li> </ul>	15 months from the issue of OM by CTUIL
<b>Total Estimated Cost:</b>			<b>INR 45.52 Crore</b>

**2. Western Region Expansion Scheme-XXX (WRES-XXX):**

Sl. No.	Scope of the Transmission Scheme	Capacity /km	Implementation timeframe
1.	Bypassing of Parli(PG) – Parli(M) 400kV D/c line (~5km.) and Parli(PG) – Parli(New) 400kV D/c (quad) line (~18km.) at the outskirts of the Parli(PG) S/s so as to form Parli(M) – Parli(New) 400kV D/c direct line ( <i>refer to note a</i> )	Line Bypassing work	12 months from the issue of OM by CTUIL.
2.	Reconductoring of Parli(PG) – Parli(M) 400kV D/c line section of above line (at Sl. 1) with twin HTLS conductor with a minimum capacity of 1940MVA per circuit at a nominal voltage ( <i>refer to note b</i> )	Reconductoring length: About 5 km.	
3.	400kV Bay Upgradation work at Parli(M) S/s  ( <i>Parli(M) S/s has a DMT scheme. The current rating of existing bays is 2000A which would be upgraded to 3150A to suit the reconductoring with Twin HTLS conductor</i> )	400 kV line bays (Bay Upgradation) – 2 nos.	
<b>Total Estimated Cost:</b>			<b>INR 26.64 Crore</b>

**Note:**

- a. As per GA of Parli(PG) S/s, Parli(M) & Parli(New) 400kV D/c lines are getting terminated in adjacent bays on the same side of Parli(PG) S/s. Hence, the above would facilitate their interconnection and bypassing at Parli(PG) S/s.



- b. As informed by POWERGRID in the 8th CMETS-WR meeting, existing towers have been designed for sag corresponding to twin moose conductor at 85C design temperature. Hence, Reconductoring shall be possible on existing towers with GAP conductor to achieve 1400A per sub conductor or 1940MVA per ckt.
- c. Balance works at Parli(M) S/s end such as Bus coupler/Transfer Bus Coupler/Bus Upgradation to 3150A, as required, shall be taken up by MSETCL in matching time-frame of the reconductoring scheme (WRES-XXX).
- d. Due to the volatility in the metal market, scrap value of aluminum conductors may be highly variable at this time. Considering this, the scrap value of the existing ACSR Moose conductor shall be deducted as per the prevailing scrap value to arrive at the final cost of the project.

### Northern Region

#### 3. Implementation of 2 nos. of 220 kV line bays at 400/220kV Bikaner-II PS for interconnection of solar projects (ACME Solar Holdings Pvt. Ltd., Prerak Greentech Pvt. Ltd.):

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	2 nos. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of RE projects (ACME Solar Holdings Pvt. Ltd., Prerak Greentech Pvt. Ltd.)	• 220 kV line bay – 2 Nos. (refer to note a)	15 months from the issue of OM by CTUIL
2.	Implementation of 220kV Bus sectionalizer along with bus coupler and transfer bus coupler at 400/220kV Bikaner-II PS.	<ul style="list-style-type: none"> <li>• 220kV Bus Sectionalizer Bay– 1 Set</li> <li>• 220kV Bus Coupler Bay–1 No.</li> <li>• 220kV Transfer Bus Coupler Bay–1 No.</li> <li>• Bus extension works for future Bays (3 Nos. of Line Bays &amp; 3 Nos. of ICT Bays) – 1 Set.</li> </ul>	
<b>Total Estimated Cost:</b>			<b>INR 38.56 Crore</b>

**Note:**

- a. At 220 kV Bikaner-II, future line bays (no. 214/216/218) in Section-B are allocated to RE developers with bays in the RE developer's scope.



## Southern Region

### 4. Augmentation of Transformation Capacity by 1x500 MVA, 400/230kV ICT (4<sup>th</sup>) at Arasur substation:

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	Augmentation of transformation capacity by 1x500 MVA, 400/230kV ICT (4 <sup>th</sup> ) at Arasur S/s along with associated ICT bays	<ul style="list-style-type: none"><li>• 500 MVA, 400/230 kV ICT – 1 No.</li><li>• 400kV ICT bay – 1 No.</li><li>• 230kV ICT bay – 1 No.</li></ul> <p>(For ICT interconnection to 230kV Switchyard, 245kV Cable / GIB shall be required)</p>	18 months from the issue of OM by CTUIL
<b>Total Estimated Cost:</b>			<b>INR 61 Crore</b>

### 5. Augmentation of Transformation Capacity by 1x500 MVA, 400/230kV ICT (4<sup>th</sup>) at Hosur substation:

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	Augmentation of transformation capacity by 1x500 MVA, 400/230kV ICT (4 <sup>th</sup> ) at Hosur S/s along with associated ICT bays	<ul style="list-style-type: none"><li>• 500 MVA, 400/230 kV ICT – 1 No.</li><li>• 400kV ICT bay – 1 No.</li><li>• 230kV ICT bay – 1 No.</li></ul>	15 months from the issue of OM by CTUIL
<b>Total Estimated Cost:</b>			<b>INR 46 Crore</b>





ग्रिड-इंडिया  
GRID-INDIA

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड  
(भारत सरकार का उद्यम)  
GRID CONTROLLER OF INDIA LIMITED  
(A Government of India Enterprise)

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Azadi Ka  
Amrit Mahotsav



[Formerly Power System Operation Corporation Limited (POSOCO)]

दक्षिण क्षेत्रीय भार प्रेषण केन्द्र / Southern Regional Load Despatch Centre

कार्यालय : 29, रेस कोर्स क्रॉस रोड, बेंगलुरु-560009

Office : 29, Race Course Cross Road, Bengaluru - 560009

CIN : U40105DL2009GOI188682, Website : www.srlc.in, E-mail : srlc@grid-india.in, Tel.: 080-22250047/4525, Fax: 080 22268725

दिनांक /Date: 08-07-2024

सर्टिफिकेट नंबर: एस.आर.एल.डी.सी/ट्रांस/सर्टिफिकेट/24-25/06

Certificate Number: SRLDC/Trans/Certificate/24-25/06

प्रति/ To,

कार्यपालक निदेशक / Executive Director

एस.आर.टी.एस-II, पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड/

SRTS-II, Power Grid Corporation of India Ltd.

सिंगानायकनहल्ली / Singanayakanahalli,

येलाहंका-डोड्डाबल्लापुर रोड / Yelahanka-Doddaballapur Road,

बेंगलोर / Bangalore - 560064, कर्नाटक / Karnataka.

ट्रांसमिशन एलिमेंट के ट्रायल ऑपरेशन के सफल समापन का प्रमाण पत्र

Certificate-successful completion of Trial Operation of 500 MVA, 400 KV/230 KV/33 KV ICT 4 at Arasur SS and associated 406 and 214 Bays at 400kV/230kV Arasur PG SS

सन्दर्भ/Reference:

- (1) एस.आर.टी.एस-II अनुरोध दिनांक 25/05/2024 प्री-चार्जिंग फॉर्मेट / SRTS-II request dt. 25/05/2024 submitting pre-charging formats.
- (2) प्रारूप-IV जारी करना Issuance of format-IV on 26/05/2024
- (3) एस.आर.टी.एस-II अनुरोध दिनांक 01/07/2024 पोस्ट-चार्जिंग प्रारूप प्रस्तुत करना / SRTS-II request dt. 01/07/2024 submitting post-charging formats.
- (4) FTC पोर्टल दिनांक 04/07/2024 में आपके द्वारा आवश्यक दस्तावेजों का नवीनतम प्रस्तुतीकरण / Your latest submission of required documents in the FTC portal dated 04/07/2024.

एतद्वारा यह प्रमाणित किया जाता है कि निम्नलिखित ट्रांसमिशन एलिमेंट ने सफलतापूर्वक ट्रायल ऑपरेशन पूरा कर लिया है:

It is hereby certified that the following transmission elements have successfully completed trial operation:

30/12

Page 1 of 3





**ग्रिड-इंडिया**  
**GRID-INDIA**

**ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड**  
(भारत सरकार का उद्यम)  
**GRID CONTROLLER OF INDIA LIMITED**  
(A Government of India Enterprise)



[Formerly Power System Operation Corporation Limited (POSOCO)]

**दक्षिण क्षेत्रीय भार प्रेषण केन्द्र / Southern Regional Load Despatch Centre**

कार्यालय : 29, रेस कोर्स क्रॉस रोड, बेंगलुरु-560009

Office : 29, Race Course Cross Road, Bengaluru - 560009

CIN : U40105DL2009GOI188682, Website : www.srldc.in, E-mail : srldc@grid-india.in, Tel.: 080-22250047/4525, Fax: 080 22268725

**दिनांक /Date: 08-07-2024**

**सर्टिफिकेट नंबर: एस.आर.एल.डी.सी/ट्रांस/सर्टिफिकेट/24-25/06**

**Certificate Number: SRLDC/Trans/Certificate/24-25/06**

SI No	Name of Element	FTC Date	FTC Time	Start date of trial operation	Start time of trial operation	End date of trial operation	End time of trial operation	Remarks
1	500 MVA, 400 KV/230 KV/33 KV ICT 4 at Arasur SS	27.06.2024	19:50 Hrs	28.06.2024	18:38 Hrs	29.06.2024	18:38 Hrs	SRLDC Code: 06/3179 Idle Charging on 400 KV side only by closing 406 Bay Synchronization done on 28.06.2024 at 18:38 Hrs vide SRLDC code: 06/3283
2	400 KV, 406 Bay at Arasur SS	27.06.2024	19:50 Hrs					SRLDC Code: 06/3181
3	230 KV, 214 Bay at Arasur SS	28.06.2024	18:38 Hrs					SRLDC Code: 06/3285

यह प्रमाणपत्र ट्रांसमिशन तत्व के परीक्षण संचालन के सफल समापन को प्रमाणित करने के लिए विनियमन IEGC 2023 25(2) के अनुसार जारी किया जा रहा है। किसी अन्य प्रयोजन के लिए इस प्रमाणपत्र का उपयोग निषिद्ध है।

This certificate is being issued in accordance with Regulation *IEGC 2023 25(2)* to certify successful completion of trial operation of transmission element. Usage of this certificate for any other purpose is prohibited.

हस्ताक्षर/ Signature:

नाम/ Name: एस पी कुमार/ S P Kumar

पदनाम/ Designation: कार्यपालक निदेशक / Executive Director

Page 2 of 3





ग्रिड-इंडिया  
GRID-INDIA

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड  
(भारत सरकार का उद्यम)  
GRID CONTROLLER OF INDIA LIMITED  
(A Government of India Enterprise)



[Formerly Power System Operation Corporation Limited (POSOCO)]

दक्षिण क्षेत्रीय भार प्रेषण केन्द्र / Southern Regional Load Despatch Centre

कार्यालय : 29, रेस कोर्स क्रॉस रोड, बेंगलुरु-560009

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दिनांक /Date: 08-07-2024

सर्टिफिकेट नंबर: एस.आर.एल.डी.सी./ट्रांस/सर्टिफिकेट/24-25/06

Certificate Number: SRLDC/Trans/Certificate/24-25/06

प्रतिलिपि / Copy to:

- 1) ई.डी, एस.आर.टी.एस-II, पावरग्रिड, बेंगलुरु / ED, SRTS-II, POWERGRID, Bengaluru.
- 2) सदस्य सचिव, एस.आर.पी.सी, बेंगलुरु/ Member Secretary, SRPC, Bengaluru.
- 3) सचिव, सी.ई.आर.सी, नई दिल्ली/ Secretary, CERC, New Delhi
- 4) ई.डी, एन.एल.डी.सी, नई दिल्ली/ ED, NLDC, New Delhi
- 5) मुख्य अभियंता, एस.एल.डी.सी, ए.पी.ट्रान्सको / टी.एस.ट्रान्सको / के.पी.टी.सी.एल / टी ए एन ट्रांसको / के.एस.ई.बी / Chief Engineer, SLDC, APTRANSCO/ TSTRANSCO/ KPTCL/ TANTRANSCO/KSEB
- 6) अधीक्षण अभियंता, एस.एल.डी.सी पुडुचेरी/गोवा  
Superintending Engineer, SLDC Puducherry/ Goa

Page 3 of 3





पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड  
(भारत सरकार का उद्यम)  
**POWER GRID CORPORATION OF INDIA LIMITED**  
(A Government of India Enterprise)

**Certificate as per CERC Tariff Regulations, 2024  
And  
CERC (Indian Electricity Grid Code), 2023**

It is to certify that the "1 X 500MVA, 400/230 KV ICT (4<sup>th</sup>) along with associated bays and equipments at Arasur Substation" along with associated communication system under "Augmentation of Transformation Capacity by 1x500 MVA, 400KV/230KV ICT (4th) at Arasur Substation" conform to the CEA Technical Standards for Construction, CEA Technical Standards for Connectivity, CEA Technical Standards for Communication, Central Electricity Authority (Measures relating to Safety and Electricity Supply) Regulations, 2010 and CERC (Indian Electricity Grid Code), 2023, and are capable of operation to their full capacity as per requirements for declaration of commercial operation with effect from 18:38 Hrs on 29.06.2024.

(R. K. Tyagi)  
Chairman & Managing Director

केन्द्रीय कार्यालय : "सौदामिनी" प्लॉट सं. 2, सेक्टर-29, गुरुग्राम-122001 (हरियाणा), दूरभाष : 0124-2622000, 2623000  
Corporate Office : "Saudamini", Plot No. 2, Sector-29, Gurugram-122001, (Haryana) Tel. : 0124-2622000, 2623000

पंजीकृत कार्यालय : बी-9, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली-110016 011-26560112, 26564812, 26564992, सीआईएन : L40101DL1989GOI038121  
Registered Office : B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi-110016. Tel.: 011-26560112, 26564812, 26564992, CIN : L40101DL1989GOI038121  
Website : www.powergrid.in



भारत सरकार  
GOVERNMENT OF INDIA  
विद्युत मंत्रालय  
MINISTRY OF POWER  
केन्द्रीय विद्युत प्राधिकरण  
CENTRAL ELECTRICITY AUTHORITY  
क्षेत्रीय निरीक्षक संगठन  
REGIONAL INSPECTORIAL ORGANISATION



ब्लॉक IV तीसरी मंजिल, Block IV Floor III, शास्त्री भवन Shastri Bhavan, चेन्नै-६ Chennai - 600 006

No. 37/95/06/2024-RIO(S)/289

Dated: 15.06.2024

To  
Authorized Signatory,  
POWERGRID Corporation of India Limited,  
400/230kV Substation,  
Opp.Senniandavar Koil,  
Karumathampatty, Coimbatore.

**Approval for Energisation**

**Subject:** Approval for Energization of Electrical installation at POWERGRID 400/230kV Substation, Opp.Senniandavar Koil, Karumathampatty, Coimbatore (List of equipment is attached) under Regulation 45 of the Central Electricity Authority (Measures relating to Safety and Electricity Supply) Regulations, 2023.

**Ref:**

1. Online Application No: A/2024/13824 dated 29.05.2024
2. Our Inspection Report: 37/95/06/2024-RIO(S)/264 dated 10.06.2024
3. Your Compliance report uploaded on 13.06.2024

Whereas the Electrical installation at POWERGRID 400/230kV Substation, Opp.Senniandavar Koil, Karumathampatty, Coimbatore ( List of equipment is attached) was inspected by the undersigned on 07.06.2024 under regulation 45 of the Central Electricity Authority (Measures relating to Safety and Electricity Supply) Regulations, 2023.

**Approval for Energization of the said Electrical Installation is hereby accorded subject to following conditions by the applicant:**

1. Applicant shall ensure to have all other requisite clearances/NOCs from other authorities, as applicable.
2. Adherence to relevant provisions of the Central Electricity Authority (Measures relating to Safety and Electricity Supply) Regulations, 2023 shall be ensured by the applicant for safety during operation and maintenance.

The first periodic inspection of the above installation shall be carried out at an interval of 05 years from the date of this inspection under regulation 32 of CEA (Measures relating to safety and Electric Supply) Regulations, 2023. This periodicity is subject to change by Govt order/notification.

(U.M.Rao Bhogi)  
Superintending Engineer &  
Electrical Inspector to the Govt. of India

अधीक्षक अभियंता / Superintending Engineer  
केन्द्रीय विद्युत प्राधिकरण Central Electricity Authority  
क्षेत्रीय निरीक्षक संगठन  
Regional Inspectorial Organisation



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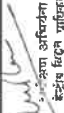


**LIST OF EQUIPMENTS PROPOSED FOR CHARGING AT POWERGRID 400/220KV ARASUR SUB STATION**

SL.No	Description of Equipment	Manufacturer	Qty	Location/Bay No	Manufacturer S.no	Type
1	500 MVA 400/220/33 kV ICT	M/s T&R (India)Ltd,Gujarat	1	406	PM0300294	
1a	400kV Bushings	Hitachi India Limited	1	R Ph	1ZCD2410028101	RIP
				Y Ph	1ZCD2410027919	RIP
				B Ph	1ZCD2410028685	RIP
1b	220 kV Bushings	Hitachi India Ltd	1	R Ph	1ZCD2410029287	RIP
				Y Ph	1ZCD2410029288	RIP
				B Ph	1ZCD2410029310	RIP
1c	33kV Bushings	Hitachi India Ltd	1	R Ph	S5210068103	RIP
				Y Ph	S5210068105	RIP
				B Ph	S5210068108	RIP
2	ISOLATOR-89T	Switchgears & Manufacturing Company Ltd	1	214 R-ph	1772-214-38-R	DBR
				214 Yph	1772-214-38-Y	DBR
				214 B-ph	1772-214-38-B	DBR
3	ISOLATOR-89B	Switchgears & Manufacturing Company Ltd	1	214 R-ph	1772-214-37-R	DBR
				214 Yph	1772-214-37-Y	DBR
				214 B-ph	1772-214-37-B	DBR
4	ISOLATOR-89C	Switchgears & Manufacturing Company Ltd	1	214	1772-213-30	DBR
				214	1772-212-25	DBR
				214	1772-213-30E1	VB
7	EARTH SWITCH-89CE-2	Switchgears & Manufacturing Company Ltd	1	214	1772-213-30E2	VB
				214	1772-212-25E1	VB
				214 Rph	37994043908	
10	Circuit Breaker	Siemens	1	214 Yph	37994043843	
				214B ph	37994043841	
				214	2023_37168	

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 Regional Inspectorial Organisation -  
 Chennai - 600 016

11	ISOLATOR-89A	Switchgears & Structural (India) PVT.LTD	1	406 R-ph 406 Yph 406 B-ph	1772-112-198-R 1772-112-198-Y 1772-112-198-B	DBR DBR DBR
12	ISOLATOR-89T	Switchgears & Structural (India) PVT.LTD	1	406 R-ph 406 Yph 406 B-ph	1772-112-20-R 1772-112-20-Y 1772-112-20-B	DBR DBR DBR
13	EARTH SWITCH-89AE	Switchgears & Structural (India) PVT.LTD	1	406 R-ph 406 Yph 406 B-ph	1772-112-198E-R 1772-112-198E-Y 1772-112-198E-B	VB VB VB
14	EARTH SWITCH-89TE	Switchgears & Structural (India) PVT.LTD	1	406 R-ph 406 Yph 406 B-ph	1772-112-20E-R 1772-112-20E-Y 1772-112-20E-B	VB VB VB
15	Current Transformer	GE T&D India Ltd,New Delhi	1	406 R-ph 406 Yph 406 B-ph	37994043935 37994043933 37994043934	
16	Circuit Breaker	Siemens	1	406	2023_37177	
17	336KV,20KA, Class#4,SA	OBLUM	1	406	R:408,Y:412,B:413	ZNO
18	216KV,10KA,SA	OBLUM	1	214A	R:677,Y:688,B:689	ZNO
19				214B	R:680,Y:678,B:687	ZNO
20	4R06A panel		1		3269063920/12/4R6A	
21	4R06B Panel	GE,Chennai	1		3269063920/13/4R6B FX8AF4-	
22	RTCC panel	T&R,Gujarat	1	400 Kiosk#4	2329/23128/23126/23125/ 23127	
23	R14A	GE,Chennai	1	230KV Kiosk#7	3269063920/14/2R14	

Ref: SR-2/COMML/2024-25

Date: 31.07.2024

**NOTIFICATION OF COMMERCIAL OPERATION**

Consequent to the successful completion of Trial Operation, the following asset under "Augmentation of Transformation Capacity by 1x500 MVA, 400KV/230KV ICT (4<sup>th</sup>) at Arasur Substation" has been put under commercial operation w.e.f. 00:00 hours of 30<sup>th</sup> June 2024 in terms of Clause 1 of Regulation (5) of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024:

- 1 X 500MVA, 400/230 KV ICT (4<sup>th</sup>) along with associated bays and equipment's at Arasur Substation.

The transmission charges for the above asset shall be payable w.e.f. 30<sup>th</sup> June 2024 as per the tariff orders issued by CERC.

*(Handwritten Signature)*  
31/7/2024

(Tarun Bajaj)  
Executive Director (SR-II)

To

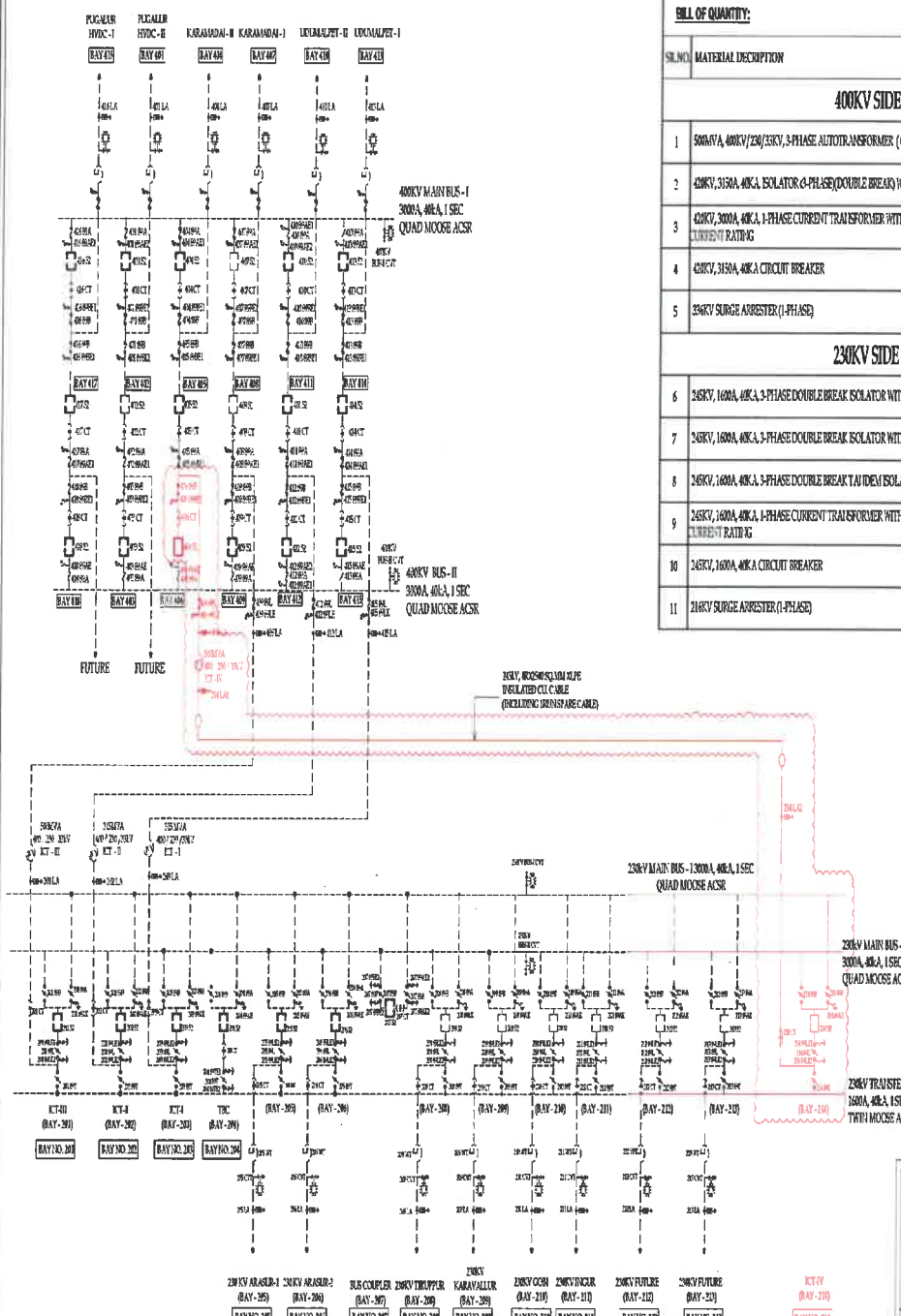
1	CMD, APTRANSCO	2	CMD, TSTRANSCO	3	Chairman, TANGEDCO
4	MD, KPTCL	5	CMD, KSEB Ltd	6	MD, TANTRANSCO
7	The Chief Secretary, Govt of Pondicherry	8	CE (Commercial), APPCC, Hyderabad	9	CE (Commercial) TSPCC, Hyderabad
10	CE (SO), KSEB, Kalamaserry	11	CE (LDC), KPTCL, Bangalore	12	Member Secretary, SRPC, Bangalore
13	SE-I, Electricity Dept Pondicherry	14	Chief Electrical Engineer Elect Dept, Govt of Goa	15	Secretary, CEA, New Delhi
1	CMD, POWERGRID, Gurgaon	2	Director (Personnel), POWERGRID, Gurgaon	3	Director (Projects), POWERGRID, Gurgaon
4	Director (Operations), POWERGRID, Gurgaon	5	Director (Finance), POWERGRID, Gurgaon	6	COO (CTU), Gurgaon
7	ED (SRLDC), POSOCO, Bangalore	8	ED(F&A)/ED(Comml)/ ED(AM)/ED(CMG)/ ED(LD&C)/ED (CP)/ Sr.GM (Co.Sectt), Gurgaon	9	CGM(AM)/CGM (Projects)/Sr.GM(HOF)/ GM (HOP)/CGM(Trichur HVDC)/ CGM(Pugalur HVDC), SR-II
10	Station In-charge, Arasur SS				

दक्षिणी क्षेत्र परीक्षण प्रणाली - II क्षेत्रीय मुख्यालय, आर.टी.ओ. ड्राइविंग टेस्ट ट्रैक के पास, सिंहनायकनहल्ली, येलहंका होब्लि, बंगलूर - 560 083, दूरभाष: 080-23093700  
Southern Region Transmission System - II RHQ, Near RTO Driving Test Track, Singanayakanahalli, Yelahanka Hobli, Bangalore - 560 083, Phone: 080-23093700

केंद्रीय कार्यालय: "सौदामिनी", प्लॉट नंबर 2, गुनग्राम -122001, (हरियाणा) दूरभाष: 0124-2571700-719  
Corporate Office: "Saudamini", Plot No. 2, Gunugram-122001, (Haryana) Tel: 0124-2571700-719

पंजीकृत कार्यालय: बी - 9, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली - 110 016. दूरभाष: 011-26560112, 26560121, 26564812, 26564892, 26564893; FAX: 011-26560113, 26560122, 26564813, 26564894; CIN: L40101DL1989GOI038121  
Registered Office: B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi-110 016. Tel: 011-26560112, 26560121, 26564812, 26564892; CIN: L40101DL1989GOI038121

Website: www.powergrid.in



BILL OF QUANTITY:				
S.NO.	MATERIAL DESCRIPTION	QTY	UNIT	PRESENT SCOPE
<b>400KV SIDE</b>				
1	50MVA, 400KV/230/33KV, 3-PHASE AUTO TRANSFORMER (CG POWER)	1	NOS	ENCPPL
2	400KV, 3150A, 40KA, ISOLATOR (6-PHASE DOUBLE BREAK) WITH ONE E/S	2	SET	PGCIL
3	400KV, 3000A, 40KA, 1-PHASE CURRENT TRANSFORMER WITH 120% EXTENDED CURRENT RATING	3	NOS	PGCIL
4	400KV, 3150A, 40KA CIRCUIT BREAKER	1	SET	PGCIL
5	230KV SURGE ARRESTER (1-PHASE)	3	NOS	PGCIL
<b>230KV SIDE</b>				
6	230KV, 1600A, 40KA, 3-PHASE DOUBLE BREAK ISOLATOR WITH ONE E/S	1	SET	PGCIL
7	230KV, 1600A, 40KA, 3-PHASE DOUBLE BREAK ISOLATOR WITH TWO E/S	1	SET	PGCIL
8	230KV, 1600A, 40KA, 3-PHASE DOUBLE BREAK TANDEM ISOLATOR WITHOUT E/S	2	SET	PGCIL
9	230KV, 1600A, 40KA, 1-PHASE CURRENT TRANSFORMER WITH 120% EXTENDED CURRENT RATING	3	NOS	PGCIL
10	230KV, 1600A, 40KA CIRCUIT BREAKER	1	SET	PGCIL
11	216KV SURGE ARRESTER (1-PHASE)	6	NOS	PGCIL

**REMARKS:**

- SUPPLY OF 400KV CIRCUIT BREAKERS (INCLUDING SUPPORT STRUCTURE), ISOLATORS, CURRENT TRANSFORMERS, BUS POST INSULATORS AND 30KV SURGE ARRESTERS IS COVERED UNDER SEPARATE PACKAGE. HOWEVER, ERECTION, TESTING AND COMMISSIONING IS INCLUDED UNDER PRESENT SCOPE. SUPERVISION OF O&M FOR ERECTION, TESTING & COMMISSIONING WORKS IS COVERED UNDER SEPARATE PACKAGE AND SHALL BE ARRANGED BY POWERGRID.
- SUPPLY OF 230KV CIRCUIT BREAKERS (INCLUDING SUPPORT STRUCTURE), ISOLATORS, CURRENT TRANSFORMERS, BUS POST INSULATORS AND 216KV SURGE ARRESTERS IS COVERED UNDER SEPARATE PACKAGE. HOWEVER, ERECTION, TESTING AND COMMISSIONING IS INCLUDED UNDER PRESENT SCOPE. SUPERVISION OF O&M FOR ERECTION, TESTING & COMMISSIONING WORKS IS COVERED UNDER SEPARATE PACKAGE AND SHALL BE ARRANGED BY POWERGRID.

S.NO.	EQUIPMENT NAME	STANDARD
1	230KV, 1600A, 40KA CIRCUIT BREAKER	IS
2	230KV, 1600A, 40KA, 3-PHASE DOUBLE BREAK ISOLATOR WITH ONE E/S	IS
3	230KV, 1600A, 40KA, 3-PHASE DOUBLE BREAK ISOLATOR WITH TWO E/S	IS
4	230KV, 1600A, 40KA, 3-PHASE DOUBLE BREAK TANDEM ISOLATOR WITHOUT E/S	IS
5	230KV, 1600A, 40KA, 1-PHASE CURRENT TRANSFORMER WITH 120% EXTENDED CURRENT RATING	IS
6	216KV SURGE ARRESTER (1-PHASE)	IS
7	CABLE TERMINATION KIT SUITABLE FOR 216KV/210KV	IS

S.NO.	DESCRIPTION	LEGEND
1	50MVA 400KV/230/33KV, 3-PHASE AUTO TRANSFORMER	
2	400KV, 3150A, 40KA CIRCUIT BREAKER	IS
3	400KV, 3150A, 40KA ISOLATOR (6-PHASE DOUBLE BREAK) WITH ONE E/S	IS
4	400KV, 3000A, 40KA, 1-PHASE CURRENT TRANSFORMER WITH 120% EXTENDED CURRENT RATING	IS
5	230KV SURGE ARRESTER (1-PHASE)	IS

**NOTE:**  
SUPPORT STRUCTURE FOR 400 KV & 230 KV EQUIPMENTS LISTED IN TABLE SHALL BE SUPPLIED UNDER PRESENT SCOPE

**LEGEND:**  
PRESENT SCOPE [Red outline symbol]  
EXISTING / FUTURE [Dashed line symbol]

PROJECT:	SUBSTATION PACKAGE (SAM) FOR 400KV/230KV/33KV SUBSTATION INCLUDING SUPPLY OF ONE (01) 50MVA AUTO TRANSFORMER WITH AUGMENTATION OF TRANSFORMER CAPACITY BY 150MVA, 400KV/230KV CT (CB) AT 400KV SUBSTATION AND ONE (01) 230MVA CT ASSOCIATED WITH AUGMENTATION OF TRANSFORMER CAPACITY BY 150MVA AT 230KV SIDE.		
OWNER:	CENTRAL POWER SUPPLY CORPORATION OF INDIA LIMITED.		
CONTRACTOR:	BNC POWER PROJECTS LIMITED, PUNE		
DESIGNER:	BNC POWER PROJECTS LIMITED, PUNE		
DATE:	DATE	SHEET NO.	1 OF 1
CHECKED:	DATE	REV.	0
APPROVED:	DATE	POWER GRID	SI
APPROVED:	DATE	DATE	DATE

57



# DETAILED PROJECT REPORT FOR AUGMENTATION OF TRANSFORMATION CAPACITY BY 1X500 MVA, 400/230 KV ICT(4<sup>th</sup>) at ARASUR SUB-STATION

## 1.0 CONTEXT / BACKGROUND

In the 8<sup>th</sup> CMETS-SR meeting held on 28.06.2022, SRLDC stated that augmentation of transformation capacity at Arasur, Hosur and Udumalpet substations is very much required on urgent basis to meet the N-1 contingency criteria and for improving the reliability. TANTRANSCO representative informed that they agreed for augmentation of transformation capacity at Hosur & Arasur substations and requested for provision of two additional 230 kV line bays each at Hosur & Arasur substations for drawl of additional power.

After detail deliberations, following augmentation of transformation capacity was agreed:

- i) 1x500 MVA, 400/230kV ICT at Arasur along with associated ICT bays
- ii) 1x500 MVA, 400/230kV ICT at Hosur along with associated ICT bays

Subsequently, vide email dated 08.07.2022, POWERGRID confirmed that the space for termination of 01nos. of 230kV line bays each at Hosur and Arasur S/s is available. At Arasur S/s, 1 no. 230kV line bay can be made available after shifting of existing 230kV TBC bay whereas at Hosur S/s, 1 no. 230kV Line bay [equipped bay no. 201] is available. Further, possibility of future 230kV line bay (s) with 230kV cable interconnection can be explored later on.

Later, CTUIL vide OM Ref. No. C/CTU/AI/00/7<sup>th</sup> CCTP dated 25.08.2022 recommended the scheme "Augmentation of Transformation capacity by 1x500MVA, 400/230kV ICT (4<sup>th</sup>) at Arasur Substation" for implementation by POWERGRID through RTM route.

## 2. SCOPE OF WORK

The present Detailed Project Report covers the following scope of work:

### Extension at 400/230 kV Arasur sub-station:

SL NO	Scope of the Transmission Scheme	Capacity/km
	Augmentation of transformation capacity by 1x500 MVA, 400/230kV ICT (4 <sup>th</sup> ) at Arasur S/s along with associated ICT bays	<ul style="list-style-type: none"><li>• 500 MVA ,400/230 KV ICT- 01 No</li><li>• 400 KV ICT Bay -1 No</li><li>• 230 KV ICT Bay -01 No (For ICT interconnection to 230kV Switchyard, 245kV Cable / GIB shall be required)</li></ul>

The single line diagrams of proposed transmission system are given at **Exhibit - 2.0**.



### 3.0 PROJECT HIGHLIGHTS

a)	Project	:	"Augmentation of Transformation capacity by 1x500MVA, 400/230kV ICT (4 <sup>th</sup> ) at Arasur substation
b)	Location of the Project	:	Southern Region-I
c)	Project Cost	:	Rs. 48.04 Crores at September 2022 Price Level (including IDC of Rs. 1.83 Crores)
d)	Monthly Fixed Charges	:	Rs. 91.02 Lakhs on Base Cost Rs. 96.27 Lakhs on Projected Completed Cost
e)	Commissioning schedule	:	The project is scheduled to be commissioned by Feb 2024 as per CTUIL OM Ref. No. C/CTU/AI/00/7 <sup>th</sup> CCTP dated 25.08.2022

### 4.0 PROJECT APPROVAL BY CONSTITUENTS / SHARING OF TRANSMISSION CHARGES

4.1.1 The above transmission system was discussed and agreed in the 8<sup>th</sup> CMETS-SR dated 28.06.2022. Subsequently, CTUIL vide OM Ref No: C/CTU/AI/00/7<sup>th</sup> CCTP dated 25.08.2022 has approved the implementation of the subject scheme under RTM mode by POWERGRID.

(Copies of the minutes of meetings and CTUIL OM are enclosed at Annexure - 8.0.).

As mentioned in the Office memorandum, the CTUIL has to enter into a concession agreement with respective agency (POWERGRID) for implementation of the scheme.

4.1.2 Since, the subject scheme does not involve any overhead line, hence, prior approval of Government of India under Section 68(1) of Electricity Act, 2003 is not required.

#### 4.1.3 SHARING OF TRANSMISSION CHARGES

The transmission charges for this project shall be shared by the beneficiaries in line with the Sharing Regulations notified by CERC from time to time.

### 5.0 PROJECT STRATEGY

The Transmission System has been assigned to POWERGRID on RTM basis and thus it is expected that the various elements of this transmission scheme have been undertaken and evolved in consultation with concerned authorities keeping in view the present and future load requirement of Western Region.

### 6.0 LEGAL FRAMEWORK

It is proposed to execute the above entire transmission scheme as per provisions contained in the Indian Electricity Act, 2003 and the rules made there-under and the Electricity (Supply) Act, 1910 and 1948, in so far as these are applicable.



**CERTIFICATE**

**Certificate Ref. No. SRTS ii/08-24/01-A**

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 for "1x500MVA, 400/230kV ICT (4th) along with associated bays and equipment's at Arasur substation" under Augmentation of Transformation Capacity by 1x500MVA, 400/230kV ICT (4th) at Arasur Substation in Southern Region of Power Grid Corporation of India Limited (SR-II), which is under commercial operation w.e.f. 30.06.2024 is detailed as under:

(Rs. in Lakhs)					
S/N	Particulars	Capital Cost	IEDC	IDC	Total
1	Expenditure upto 31.03.2024	438.79	94.29	2.71	535.79
2	Expenditure from 01.04.2024 to 29.06.2024 (upto DOCO)	2,870.79	285.14	5.30	3,161.23
3	Estimated Expenditure from 30.06.2024 (DOCO) to 31.03.2025	1,618.03			1,618.03
4	Estimated Expenditure from 01.04.2025 to 31.03.2026	60.89			60.89
	<b>Total</b>	<b>4,988.50</b>	<b>379.43</b>	<b>8.01</b>	<b>5,375.94</b>

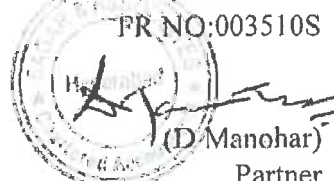
We certify that we have verified the expenditure up to 31-03-2024 as referred above on the basis of the information drawn from the audited Statement of Accounts of Power Grid Corporation of India Ltd. SRTS II Bangalore up to the year ended 31-03-2024.

We further certify that the expenditure from 01-04-2024 to 29-06-2024 (upto DOCO) has been verified by us from the books of Power Grid Corporation of India Ltd. SRTS II Bangalore up to the period ended 30-06-2024.

The estimated expenditure is based on the details furnished by the Management.

Date: 07-08-2024  
Place: Hyderabad.

Sagar and Associates  
Chartered Accountants  
FR NO:003510S

  
(D. Manohar)  
Partner

M.NO:029644

UDIN: 24029644BKDHEP5328

**CERTIFICATE**

**Certificate Ref. No. SRTS ii/08-24/01-B**

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 for "1x500MVA, 400/230kV ICT (4th) along with associated bays and equipment's at Arasur Substation" under Augmentation of Transformation Capacity by 1x500MVA, 400/230kV ICT (4th) at Arasur Substation in Southern Region of Power Grid Corporation of India Limited (SR-II), which is under commercial operation w.e.f. 30.06.2024 is detailed as under:

(Rs. in Lakhs)

S/ N	Particulars	Free hold Land	Lease hold Land	Building and Civil Works	Tr. Line	Sub Station	OP G W	Communication System excl. OPG W	I. T Equipment incl. software, UNMS, URTDSM, EMS, Cyber Security System, REMC, WAMS, SCADA System	Batteries	Total
1	Expenditure upto 31.03.2024	-	-	-	-	535.79	-	-	-	-	535.79
2	Expenditure from 01.04.2024 to 29.06.2024 (upto DOCO)	-	-	-	-	3,132.68	-	-	28.55	-	3,161.23
3	Estimated Expenditure from 30.06.2024 (DOCO) to 31.03.2025	-	-	-	-	1,617.17	-	-	0.86	-	1,618.03
4	Estimated Expenditure from 01.04.2025 to 31.03.2026	-	-	-	-	60.89	-	-	-	-	60.89
	<b>Total</b>	-	-	-	-	<b>5,346.53</b>	-	-	<b>29.41</b>	-	<b>5,375.94</b>



B.O.: Flat No. FF-3, H No 40-6-2, Goteti Apartment, Kandari Hotel Street, Krishna Nagar, Vijayawada – 520 010  
B.O.: H. No. 10-1-86, Mehar Nagar, Old Gajuwaka, Visakhapatnam – 530 026  
B.O.: No. 4, Poes Road, 4th Street, Teynampet, Chennai – 600 078  
B.O.: Flat No. 3C, Jeevan Residency, Behind Kalanjali, Renigunta Road, Tirupati - 517 501




S/N	Particulars	TL	Sub-station	OPGW
1	Total Cost (Plant and Machinery cost excluding IDC, IEDC, Land cost and cost of Civil works for the purpose of Initial Spares)	-	4,988.50	-
2	Initial Spares included above	-	155.20	-

We certify that we have verified the expenditure up to 31-03-2024 as referred above on the basis of the information drawn from the audited Statement of Accounts of Power Grid Corporation of India Ltd. SRTS II Bangalore up to the year ended 31-03-2024.

We further certify that the expenditure from 01-04-2024 to 29-06-2024 (upto DOCO) has been verified by us from the books of Power Grid Corporation of India Ltd. SRTS II Bangalore up to the period ended 30-06-2024.

The estimated expenditure is based on the details furnished by the Management.

Sagar and Associates  
Chartered Accountants  
FR NO:003510S

  
(D Manohar)  
Partner

M.NO:029644  
UDIN: 24029644BKDHEP5328

Date: 07-08-2024  
Place: Hyderabad.



**Liability Flow Statement**

Name of Petitioner : Power Grid Corporation of India Limited  
 Project Name : Augmentation of transformation capacity by 1X500 MVA, 400/230 KV ICT (4th) at Arasur Sub-Station

Sl.No.	Headwise /Partywise	Particulars*	Year of Actual Capitalisation	Outstanding Liability as on COD 30-06-2024	Discharge				Total	Additional Liability Recognized				Outstanding Liability as on 31.03.2025
					2024-25	2025-26	2026-27	Total		2024-25	2025-26	2026-27	Total	
1	M/s.BNC Power Projects Ltd	SS	2024-25	1,557.13	430.85	-	-	430.85	1,126.29	-	-	-	1,126.29	-
2	Miscellaneous works	SS	2024-25	121.25	60.36	-	-	60.36	-	60.89	-	-	60.89	-
3	TOSHNIWAL INDUSTRIES PVT LIMITED	SS	2024-25	0.54	0.54	-	-	0.54	-	-	-	-	-	-
				<b>1,678.92</b>	<b>491.74</b>	<b>-</b>	<b>-</b>	<b>491.74</b>	<b>1,126.29</b>	<b>60.89</b>	<b>-</b>	<b>-</b>	<b>1,187.18</b>	<b>-</b>



## Statement showing IDC Discharged upto DOCO

Project:		Augmentation of transformation capacity by 1X500 MVA, 400/230 KV ICT (4th) at Arasur Sub-Station						
Element:		1x500MVA, 400/230KV ICT (4th) along with associated bays and equipment's at Arasur substation						
DOCO : Actual		30-Jun-24						
Loans	Amount	Interest Rate	Drawl Date	Total IDC	Annual Interest Payment Date upto DOCO	Interest Discharged upto DOCO	Annual Interest Payment Date after DOCO	
Bond LXXV	150.00	7.65%	11-Jan-24	5.37	11-Jan-24	0.00	11-Jan-25	
Bond LXXVI	40.00	7.35%	12-Mar-24	0.89	12-Mar-24	0.00	12-Mar-25	
SBI-04 (2023-2024) (Q4) (28.03.2024)	10.00	Floating	28-Mar-24	0.19	01-Jun-24	0.13	01-Jul-24	
Canara-01 (2024-2025) (Q1) (20.06.2024)	700.00	Floating	20-Jun-24	1.56	20-Jun-24	0.00	01-Jul-24	
Canara-01 (2024-2025) (Q2) (02.07.2024) (IR Replacement)	1682.40	Floating	02-Jul-24	0.00		0.00		
Canara-01 (2024-2025) (Q2) (02.07.2024) (IR Replacement)	5.51	7.70%	12-Oct-23	0.00		0.00		
<b>Total</b>	<b>2587.91</b>			<b>8.01</b>		<b>0.13</b>		
Total IDC as per Certificate								
IDC Discharged upto DOCO								
Accrual IDC upto DOCO (To be Discharged during 2024-2025)								
Accrual IDC upto DOCO (To be Discharged during 2025-2026)								

**Certified that Interest on Bonds is paid annually/quarterly and Interest on SBI/Canara loans is paid monthly as per terms of issue of bonds/loan agreement and no default has been made in respect of debt servicing.**



**COMPUTATION OF NOTIONAL IDC**

Asset 1

**Element:** 1x500MVA, 400/230kV ICT (4th) along with associated bays and equipment's at Arasur substation under Augmentation of transformation capacity by 1X500 MVA,  
400/230 kV ICT (4th) at Arasur Sub-Station

**DOCO:** 30-Jun-24

(Rs. in Lakhs)

Quarter	Opening Expense	Exp during the qtr.	Cumulative exp upto the end of Qtr.	Average Expense	Opening Debt applied	Debt applied during the qtr.	Repayment during the qtr.	Cumulative Debt Applied upto the end of Qtr.	Average debt applied	Normative Debt	Normative debt funded through Equity*	Int Rate (Quarter)	Notional IDC
	<b>1</b>	<b>2</b>	<b>3=1+2</b>	<b>4=(1+3)/2</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8=(5+6-7)</b>	<b>9=(5+8)/2</b>	<b>10=4*0.7</b>	<b>11=10-9</b>	<b>12</b>	<b>13=11*12</b>
2024_Q3	0.00	135.79	135.79	67.90	0.00	0.00	0.00	0.00	0.00	47.53	47.53	2.04	0.97
2024_Q4	135.79	397.29	533.08	334.44	0.00	200.00	0.00	200.00	100.00	234.10	134.10	2.04	2.74
2025_Q1	533.08	3,156.05	3,689.13	2,111.11	200.00	700.00	0.50	899.50	549.75	1,477.77	928.02	2.04	18.93
													<b>22.64</b>

\* In the quarter in which DOCO lies, normative debt funded through equity has been considered as proportionate for number of days in the quarter upto DOCO.

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भारतीय स्टेट बैंक  
State Bank of India

The Senior General Manager (Fin.),  
Power Grid Corporation of India Limited (PGCIL),  
"Saudamini", Sector 29,  
Gurgaon, Haryana - 122001

CAG-ND/AMT-3/2024-25/5

12.04.2024

Dear Sir

**DETAILS OF RATE OF INTEREST IN TERM LOAN ACCOUNTS**

Please find below the details of rate of interest in all term loan accounts from time to time.

**32247673988 (ROI 3 M MCLR)**

Date of Change in ROI	Effective ROI
01-01-2019	8.25
01-04-2019	8.25
01-07-2019	8.15
01-10-2019	7.85
01-01-2020	7.70
01-04-2020	7.50
01-07-2020	6.75
01-10-2020	6.65
01-01-2021	6.65
01-04-2021	6.65
01-07-2021	6.65
01-10-2021	6.65
01-01-2022	6.65
01-04-2022	6.65
01-07-2022	7.05
01-10-2022	7.35
01-01-2023	8.00
01-04-2023	8.10
01-07-2023	8.10
01-10-2023	8.15
01-01-2024	8.20
01-04-2024	8.20

✉ cs.cagdel@sbi.co.in  
agmb.cagdel@sbi.co.in  
aa.cagdel@sbi.co.in  
sbi.17313@sbi.co.in

कॉर्पोरेट लेखा समूह शाखा  
( शाखा कोड सं. 17313)  
चौथा एवं पाँचवां तल, पारसनाथ कैपिटल टॉवर  
भाई वीर सिंह मार्ग, गोल मार्केट, नई दिल्ली-110001

  
Corporate Accounts Group Branch  
(Branch Code No. 17313)  
4th & 5th Floor, Parsvnath Capital Tower  
Bhai Veer Singh Marg, Gole Market, New Delhi-110001



☎ : 011-23475510 (GM) 23475550 (DGM & COO) 23475601 (IB) 23475561 (CS) 23475691 (A&A) 23475512 (AMT-1) 011-23475511 (AMT-2)  
23475513 (AMT-3) 23475516 (AMT-4) 23475515 (AMT-5) ☎ 011-23475536 (GM) 23475580 (CS) 23746069 (IB) 23475555 (A&A)

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**33726151098(ROI 3 M MCLR)**

Date of Change in ROI	Effective ROI
01-01-2019	8.25
01-04-2019	8.25
01-07-2019	8.15
01-10-2019	7.85
01-01-2020	7.70
01-04-2020	7.50
01-07-2020	6.75
01-10-2020	6.65
01-01-2021	6.65
01-04-2021	6.65
01-07-2021	6.65
01-10-2021	6.65
01-01-2022	6.65
01-04-2022	6.65
01-07-2022	7.05
01-10-2022	7.35
01-01-2023	8.00
01-04-2023	8.10
01-07-2023	8.10
01-10-2023	8.15
01-01-2024	8.20
01-04-2024	8.20

**37585657079(ROI 3 M MCLR)**

Date of Change in ROI	Effective ROI
13-12-2018	8.25
13-03-2019	8.25
13-06-2019	8.15
13-09-2019	7.85
13-12-2019	7.70
13-03-2020	7.50
13-06-2020	6.75
13-09-2020	6.65
13-12-2020	6.65
13-03-2021	6.65
13-06-2021	6.65
13-09-2021	6.65
13-12-2021	6.65



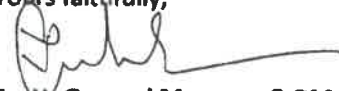
Handwritten signature or initials.

13-03-2022	6.65
13-06-2022	6.85
13-09-2022	7.35
13-12-2022	7.75
13-03-2023	8.10
13-06-2023	8.10
13-09-2023	8.15
13-12-2023	8.15
13-03-2024	8.20

37871156714(ROI 3 M MCLR + 10 bps/ 3 M MCLR)\*

Date of Change in ROI	Effective ROI
10-02-2019	8.35
10-05-2019	8.25
10-08-2019	8.05
10-11-2019	7.80
10-02-2020	7.75
10-05-2020	7.10
10-08-2020	6.75
15-09-2020	6.65
10-11-2020	6.65
10-02-2021	6.65
10-05-2021	6.65
10-08-2021	6.65
10-11-2021	6.65
10-02-2022	6.65
10-05-2022	6.75
10-08-2022	7.15
10-11-2022	7.60
10-02-2023	8.00
10-05-2023	8.10
10-08-2023	8.15
10-11-2023	8.15
10-02-2024	8.20

Yours faithfully,



Asstt. General Manager & RM  
AMT 3



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92 ✓



## Khushboo Jain (खुशबू जैन)

**From:** AMT3 CAG DELHI <amt3.cagdel@sbi.co.in>  
**Sent:** 29 April 2024 18:36  
**To:** Khushboo Jain (खुशबू जैन)  
**Cc:** Yogesh Jajoriya (योगेश जाजोरिया)  
**Subject:** RE: INTEREST: 30.04.2024

Dear Madam,

Please find revised.

Account No	Amount	Period	Days	Interest Rate(%)	Amount Payable(INR)
32247673988	13,67,34,20,011.63	01.04.2024 to 30.04.2024	30	8.20	9,19,03,315.00
		<b>TOTAL</b>			<b>9,19,03,315.00</b>
33726151098	49,99,63,47,906.39	01.04.2024	1	8.20	1,12,01,368.00
	44,99,63,47,906.39	02.04.2024 to 30.04.2024	29	8.20	29,23,53,321.00
		<b>TOTAL</b>			<b>30,35,54,689.00</b>
37585657079	37,42,90,35,731.37	01.04.2024 to 30.04.2024	30	8.20	25,15,72,207.00
		<b>TOTAL</b>			<b>25,15,72,207.00</b>
37871656714	72,34,54,08,724.07	01.04.2024 to 11.04.2024	11	8.20	17,82,93,876.00
	72,44,54,08,724.07	12.04.2024 to 14.04.2024	3	8.20	4,86,92,816.00
	72,54,54,08,724.07	15.04.2024	1	8.20	1,62,53,343.00
	72,64,54,08,724.07	16.04.2024	1	8.20	1,62,75,747.00

72,74,54,08,724.07	17.04.2024	1	8.20	1,62,98,152.00
73,09,54,08,724.07	18.04.2024 to 21.04.2024	4	8.20	6,55,06,268.00
73,79,54,08,724.07	22.04.2024 to 30.04.2024	9	8.20	14,88,00,578.00
	<b>TOTAL</b>			<b>49,01,20,780.00</b>
	<b>GRAND TOTAL</b>			<b>1,13,71,50,991.00</b>

Thanks & Regards,  
 Shradha Prakash  
 Manager (AMT-3)  
 Corporate Account Group Branch (17313)  
 5th Floor, Parsvnath Capital Tower,  
 Bhai Veer Singh Marg, Gole Market,  
 New Delhi- 110 001  
 Ph.- 011-23475533

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**From:** AMT3 CAG DELHI  
**Sent:** Friday, April 26, 2024 1:48 PM  
**To:** Khushboo Jain {खुशबू जैन} <khushboo@powergrid.in>  
**Cc:** Yogesh Jajoriya {योगेश जाजोरिया} <jajoriya@powergrid.in>  
**Subject:** INTEREST: 30.04.2024

Dear Sir/ Madam,

Please find enclosed demand for 30.04.2024.

Thanks & Regards,  
 Shradha Prakash  
 Manager (AMT-3)  
 Corporate Account Group Branch (17313)  
 5th Floor, Parsvnath Capital Tower,



Bhai Veer Singh Marg, Gole Market,  
New Delhi- 110 001  
Ph.- 011-23475533

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भारतीय स्टेट बैंक  
State Bank of India

The General Manager (Finance),  
Power Grid Corporation of India Ltd.,  
Corporate Office,  
Saudamini Plot No. 2, Sector-29,  
Gurgaon-122001

No.-CAG/AMT-3/2024-25/ 45

Date: 22.05.2024

Dear Sir,

**DEMAND OF MONTHLY INTEREST ON TERM LOAN FOR THE MONTH OF MAY 2024**

Please find below Term Loan Interest Calculation on daily products basis, which is payable on on before 01.06.2024. We give below the Term Loan account-wise break up enabling you to make the payment online.

Account No	Amount	Period	Days	Interest Rate(%)	Amount Payable(INR)
32247673988	13,67,34,20,011.63	01.05.2024 to31.05.2024	31	8.20	9,49,66,759.00
		<b>TOTAL</b>			<b>9,49,66,759.00</b>
33726151098	44,99,63,47,906.39	01.05.2024 to31.05.2024	31	8.20	31,25,15,619.00
		<b>TOTAL</b>			<b>31,25,15,619.00</b>
37585657079	37,42,84,07,866.37	01.05.2024 to31.05.2024	31	8.20	25,99,53,587.00
		<b>TOTAL</b>			<b>25,99,53,587.00</b>
37871156714	75,94,54,08,724.07	01.05.2024	1	8.20	1,70,15,092.00
	76,09,54,08,724.07	02.05.2024	1	8.20	1,70,48,698.00
	76,39,54,08,724.07	03.05.2024 to 05.05.2024	3	8.20	5,13,47,734.00
	76,94,54,08,724.07	06.05.2024	1	8.20	1,72,39,135.00
	77,04,54,08,724.07	07.05.2024	1	8.20	1,72,61,540.00
	77,14,54,08,724.07	08.05.2024	1	8.20	1,72,83,944.00
	77,24,54,08,724.07	09.05.2024	1	8.20	1,73,06,348.00
	72,74,54,08,724.07	10.05.2024 to 13.05.2024	4	8.20	6,51,92,607.00
	73,34,54,08,724.07	14.05.2024	1	8.20	1,64,32,578.00
	73,44,54,08,724.07	15.05.2024	1	8.20	1,64,54,982.00
	73,84,54,08,724.07	16.05.2024 to 19.05.2024	4	8.20	6,61,78,399.00
	74,04,54,08,724.07	20.05.2024	1	8.20	1,65,89,409.00
	74,14,54,08,724.07	21.05.2024 to 31.05.2024	11	8.20	18,27,29,942.00
		<b>TOTAL</b>			<b>51,80,80,408.00</b>
		<b>GRAND TOTAL</b>			<b>1,18,55,16,373.00</b>

2. We, therefore, request you to make suitable arrangements to fund your cash credit account, so that we receive the credit into your TL account on or before 01.06.2024. We also request you to check the above mentioned interest calculation with your records and advise us immediately, if there is any discrepancy.

Yours faithfully

AGM & RM (AMT-3)  
011-23475503

✉ cs.cagdel@sbi.co.in  
agmlb.cagdel@sbi.co.in  
aa.cagdel@sbi.co.in  
sbl.17313@sbl.co.in

कॉर्पोरेट लेखा समूह शाखा  
( शाखा कोड सं. 17313)  
चौथा एवं पाँचवां तल, पारसनाथ कैपिटल टॉवर  
भाई वीर सिंह मार्ग, गोल मार्केट, नई दिल्ली-110001

Corporate Accounts Group Branch  
(Branch Code No. 17313)  
4th & 5th Floor, Parsnath Capital Tower  
Bhai Veer Singh Marg, Gole Market, New Delhi-110001

☎ : 011-23475510 (GM) 23475550 (DGM & COO) 23475601 (IB) 23475561 (CS) 23475691 (A&A) 23475512 (AMT-1) 011-23475511 (AMT-2) 23475513 (AMT-3) 23475516 (AMT-4) 23475515 (AMT-5) ☎ 011-23475536 (GM) 23475580 (CS) 23475609 (IB) 23475555 (A&A)

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## Khushboo Jain (खुशाबू जैन)

**From:** Canara Bank LCB Nehru Place New Delhi <cb2624@canarabank.com>  
**Sent:** 28 June 2024 13:13  
**To:** Khushboo Jain (खुशाबू जैन)  
**Cc:** MANOJ KUMAR GAUR  
**Subject:** M/s PGCIL: Interest Calculation for the month of June'24

Dear Sir / Madam

Please refer to manual calculation for interest for term loan account of the Company for June 2024 as under:

ACCOUNT NUMBER	173000414153						
Date From	Date Till	No. of days	Principal Liability	ROI	Interest		
01/06/2024	02/06/2024	2	31,210,000,000.00	8.15%	13937616		
03/06/2024	04/06/2024	2	31,910,000,000.00	8.15%	14250219		
05/06/2024	05/06/2024	1	32,060,000,000.00	8.15%	7158603		
06/06/2024	06/06/2024	1	32,310,000,000.00	8.15%	7214425		
07/06/2024	10/06/2024	4	32,510,000,000.00	8.15%	29036329		
11/06/2024	12/06/2024	2	32,610,000,000.00	8.15%	14562822		
13/06/2024	13/06/2024	1	32,710,000,000.00	8.15%	7303740		
14/06/2024	17/06/2024	4	32,810,000,000.00	8.15%	29304274		
18/06/2024	19/06/2024	2	33,310,000,000.00	8.15%	14875425		
20/06/2024	23/06/2024	4	33,510,000,000.00	8.15%	29929479		
24/06/2024	24/06/2024	1	33,610,000,000.00	8.15%	7504699		
25/06/2024	25/06/2024	1	33,810,000,000.00	8.15%	7549356		



26/06/2024	26/06/2024	1	34,010,000,000.00	8.15%	7594014
27/06/2024	27/06/2024	1	34,160,000,000.00	8.15%	7627507
28/06/2024	30/06/2024	3	34,560,000,000.00	8.15%	23150466
TOTAL					220998973

Kindly verify the same and inform us immediately in case of any discrepancy.

धन्यवाद एवं सादर | Thanks & Regards,  
Ruchika Mehta

Manager

केनरा बैंक / Canara Bank,

लार्ज कॉर्पोरेट शाखा/ Large Corporate Branch,

नेहरु प्लेस / Nehru Place,

नई दिल्ली / New Delhi - 110019

IFSC Code: CNRB0002624



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(As per bank corporate e-mail policy, it is necessary to put Sender Name, Designation and Contact Number.)



आजादी का  
अमृत महोत्सव



वृक्ष बचाएं! जब तक अत्यंत आवश्यक ना हो, इस ईमेल का मुद्रण न करें/  
Save a tree...Please don't print this e-mail unless you really need to.





"Azadi Ka Amrit Mahotsav"

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*[A large, faint, blue diagonal line or signature mark is present across the page.]*

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भारतीय स्टेट बैंक  
State Bank of India

The General Manager (Finance),  
Power Grid Corporation of India Ltd.,  
Corporate Office,  
Saudamini Plot No. 2, Sector-29,  
Gurgaon-122001

No.-CAG/AMT-3/2024-25/62

Date: 21.06.2024

Dear Sir,

**DEMAND OF MONTHLY INTEREST ON TERM LOAN FOR THE MONTH OF JUNE 2024**

Please find below Term Loan Interest Calculation on daily products basis, which is payable on on before 01.07.2024. We give below the Term Loan account-wise break up enabling you to make the payment online.

Account No	Amount	Period	Days	Interest Rate(%)	Amount Payable(INR)
32247673988	13,67,34,20,011.63	01.06.2024 to30.06.2024	30	8.20	9,19,03,315.00
		<b>TOTAL</b>			<b>9,19,03,315.00</b>
33726151098	44,99,63,47,906.39	01.06.2024 to30.06.2024	30	8.20	30,24,34,470.00
		<b>TOTAL</b>			<b>30,24,34,470.00</b>
37585657079	37,42,84,07,864.37	01.06.2024 to30.06.2024	30	8.20	25,15,67,987.00
		<b>TOTAL</b>			<b>25,15,67,987.00</b>
37871156714	75,54,52,95,073.07	01.06.2024 to30.06.2024	30	8.20	50,77,63,459.00
		<b>TOTAL</b>			<b>50,77,63,459.00</b>
		<b>GRAND TOTAL</b>			<b>1,15,36,69,231.00</b>

2. We, therefore, request you to make suitable arrangements to fund your cash credit account, so that we receive the credit into your TL account on or before 01.07.2024. We also request you to check the above mentioned interest calculation with your records and advise us immediately, if there is any discrepancy.

Yours faithfully

AGM & RM (AMT-3)  
011-23475503

✉ cs.cagdel@sbi.co.in  
agmlb.cagdel@sbi.co.in  
aa.cagdel@sbi.co.in  
sbi.17313@sbi.co.in

कॉर्पोरेट लेखा समूह शाखा  
( शाखा कोड सं. 17313)  
बीआर एच पीएमसी एल, पारसनाथ कैपिटल टॉवर  
भाई वीर सिंह मार्ग, गोल मार्केट, नई दिल्ली-110001

Corporate Accounts Group Branch  
(Branch Code No. 17313)  
4th & 5th Floor, Parsvnath Capital Tower  
Bhai Veer Singh Marg, Gole Market, New Delhi-110001

☎ : 011-23475510 (GM) 23475550 (DGM & COO) 23475601 (IB) 23475561 (CS) 23475691 (A&A) 23475512 (AMT-1) 011-23475511 (AMT-2)  
23475513 (AMT-3) 23475516 (AMT-4) 23475515 (AMT-5) ☎ 011-23475536 (GM) 23475580 (CS) 23746069 (IB) 23475555 (A&A)

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**National Stock Exchange Of India Limited**

Ref.: NSE/LIST/7163

January 11, 2024

The Company Secretary/ Compliance Officer/ CFO  
Power Grid Corporation of India Limited

**Sub: Listing of Non-convertible Debentures issued by Power Grid Corporation of India Limited**

This has reference to your application for listing of Unsecured, Redeemable, Non-cumulative, Taxable, Non-convertible Debentures issued by Power Grid Corporation of India Limited

In this connection, we are pleased to inform you that the securities as specified in the application are duly listed on the Debt segment with effect from 11-Jan-2024 and all members have been suitably informed as per details given below:

Sr. No.	Description of Security	Security Type	Security	Issue	No. of securities	Face Value	Maturity Date	ISIN
1	PGCL 7.65% 2034 Sr LXXV	PT	PGC34	7.65%	220000	100000	11-Jan-2034	INE752E08726

If you require any further clarifications, we shall be glad to oblige.

Regards  
For National Stock Exchange of India Limited

*Note: This is a system generated document and hence is not required to be signed*



**National Stock Exchange Of India Limited**

Ref.: NSE/LIST/7453

March 12, 2024

The Company Secretary/ Compliance Officer/ CFO  
Power Grid Corporation of India Limited

**Sub: Listing of Non-convertible Debentures issued by Power Grid Corporation of India Limited**

This has reference to your application for listing of Unsecured, Redeemable, Non-cumulative, Taxable, Non-convertible Bonds in the nature of Debentures issued by Power Grid Corporation of India Limited

In this connection, we are pleased to inform you that the securities as specified in the application are duly listed on the Debt segment with effect from 12-Mar-2024 and all members have been suitably informed as per details given below:

Sr. No.	Description of Security	Security Type	Security	Issue	No. of securities	Face Value	Maturity Date	ISIN
1	PGCL 7.35% 2034 Sr LXXVI	PT	PGC34	7.35%	120000	100000	12-Mar-2034	INE752E08734

If you require any further clarifications, we shall be glad to oblige.

Regards  
For National Stock Exchange of India Limited

*Note: This is a system generated document and hence is not required to be signed*



**Checklist of Forms and other information/ documents for tariff filing for  
Transmission System& Communication System**

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	✓
FORM-5	Element wise Break-up of Project/ Asset/Element Cost for Transmission System or Communication System	✓
FORM-5A	Break-up of Construction/Supply/Service packages	✓
FORM-5B	Details of all the assets covered in the project	✓
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	✓
FORM- 12A	Incidental Expenditure during Construction	✓
FORM- 12B	Calculation of IDC & Financing Charges	✓
FORM- 13	Details of Initial spares	✓
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	✓
<b>Other Information/ Documents</b>		



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.
<b>Note</b>		
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.		



**Summary of Tariff**

Form No. - 1

Name of the Transmission Licensee:	Power Grid Corporation of India Limited		
Project	Augmentation of transformation capacity by 1X500 MVA, 400/230 kV ICT (4th) at Arasur Sub-Station		
Element Description	1x500MVA, 400/230kV ICT (4th) along with associated bays and equipment's at Arasur substation		
Region	Southern Region	DOCO Date	Jun 30, 2024

(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	275.00	365.00	365.00	366.00	365.00
Depreciation-Form No. 10A	146.23	229.73	231.01	231.01	231.01
Interest on Loan-Form No. 9E	188.94	283.37	266.35	247.55	228.72
Return on Equity-Form No. 8	185.88	292.71	294.37	294.37	294.37
Int. on Working capital-Form No.11	13.64	20.22	20.43	20.56	20.82
Op. and maintenance-Form No.2	136.52	190.83	200.61	211.03	222.59
Total AFC	671.21	1,016.86	1,012.77	1,004.52	997.51



**Summary of Asset Level Cost**

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Augmentation of transformation capacity by 1X500 MVA, 400/230 kV ICT (4th) at Arasur Sub-Station		
Element Description	1x500MVA, 400/230kV ICT (4th) along with associated bays and equipment's at Arasur substation		
Region	Southern Region	DOC Date	Jun 30, 2024

(Amount in Rs. Lakh)

## A) Summary of Capital Cost, Means of Finance of the Asset

Particular	i) Apportioned Approved Cost		ii) Summary of Actual / Projected Capital Expenditure incurred						As on 31.03.2029
	As Per IA	As per RCE	As on COD / 01.04.2024	2024-25	2025-26	2026-27	2027-28	2028-29	
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	4,182.14	1,125.97	60.89	0.00	0.00	0.00	5,369.00
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/JUNMS/URTDSM/	0.00	0.00	29.26	0.32	0.00	0.00	0.00	0.00	29.58
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
<b>Total Capital Cost as per Books</b>	0.00	0.00	4,211.40	1,126.29	60.89	0.00	0.00	0.00	5,398.58
Less: Liability	0.00	0.00	499.62	0.00	0.00	0.00	0.00	0.00	0.00
Add: discharge of liability	0.00	0.00	0.00	499.62	0.00	0.00	0.00	0.00	0.00
De cap During Year As per Books	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Capital incurred</b>	0.00	0.00	3,711.78	1,625.91	60.89	0.00	0.00	0.00	5,398.58
Equity	1,441.335	0.00	1,113.53	487.77	18.27	0.00	0.00	0.00	1,619.57
Debt	3,363.115	0.00	2,598.25	1,138.14	42.62	0.00	0.00	0.00	3,779.01



Name of the Transmission Licensee		Power Grid Corporation of India Limited	
Project	Augmentation of transformation capacity by 1X500 MVA, 400/230 kV ICT (4th) at Arasur Sub-Station		
Element Description	1x500MVA, 400/230kV ICT (4th) along with associated bays and equipment's at Arasur substation		
Region	Southern Region	DOCO Date	Jun 30, 2024

**1. Transmission Lines**

(Amount in Rs. Lakh)

**Summary:**







**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	98.70	138.00	145.00	152.50	161.00



### 3. Communication System

#### Summary:

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**Summary of O&M Expenses claim**

(Amount in Rs. Lakh)

Particular	2024-25	2025-26	2026-27	2027-28	2028-29
<b>A) Normative O&amp;M</b>					
Transmission Line	0.00	0.00	0.00	0.00	0.00
Substation	136.52	190.83	200.61	211.03	222.59
Communication System	0.00	0.00	0.00	0.00	0.00
<b>Total Normative O&amp;M</b>	<b>136.52</b>	<b>190.83</b>	<b>200.61</b>	<b>211.03</b>	<b>222.59</b>
<b>B) O&amp;M Claimed under Regulation 35 (3)(C) (* The same is not being claimed and will be claimed through separate Petition )</b>					
*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
<b>Total O&amp;M</b>	<b>136.52</b>	<b>190.83</b>	<b>200.61</b>	<b>211.03</b>	<b>222.59</b>



## Normative parameters considered for tariff computations

Form No. - 3

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Augmentation of transformation capacity by 1X500 MVA, 400/230 kV ICT (4th) at Arasur Sub-Station		
Element Description	1x500MVA, 400/230kV ICT (4th) along with associated bays and equipment's at Arasur substation		
Region	Southern Region	DOCO Date	Jun 30, 2024

(Amount in Rs. Lakh)

Particulars	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
<b>Base Rate of Return of Equity (In %)</b>						
Tax Rate (in %)	17.472	17.472	17.472	17.472	17.472	17.472
<b>Effective tax rate (in %)</b>						
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
<b>Norms for sub-station Bays (Rs Lakh per bay)</b>						
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
<b>Norms for Transformers (Rs Lakh per MVA)</b>						
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
<b>Norms for Reactor (Rs Lakh per MVAR)</b>						
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
<b>Norms for AC and HVDC lines (Rs Lakh per km)</b>						
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
<b>Norms for HVDC stations (Rs Lakh/MW)</b>						
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)



**Abstract of existing transmission assets/elements under Project, Determination of Effective COD and weighted Average life for single AFC for the project as whole**

Form No. - 4

Name of the Transmission Licensee		Power Grid Corporation of India Limited	
Project	Augmentation of transformation capacity by 1X500 MVA, 400/230 kV ICT (4th) at Arasur Sub-Station		
Element Description	1x500MVA, 400/230kV ICT (4th) along with associated bays and equipment's at Arasur substation		
Region	Southern Region	DOCO Date	Jun 30, 2024

**A) Details of All the Asset Covered under the Scope of the Project**

(Amount in Rs. Lakh)

Asset Name	Actual COD of the asset	COD considered for tariff purpose	Effective COD for the project as whole ( Refer C)	Weighted Average useful life of the project (Refer D)	Lapsed useful Life of the project as on 01.04.2024 (Refer E)	Balance useful Life of the project as on 01.04.2024 ( Refer E)
					0	25

**B) Details as on 01.04.2024 for determination of Single Tariff for the Project Commissioned prior to 01.04.2024**

**C) Computation of Effective COD for determining lapsed useful life of the project as whole**

**D) Weighted Average useful Life of the Project as whole**

**E) Lapsed Weighted average useful life of the project & Balance weighted average Useful life  
This refers to the No. of completed years from the effective COD till the last day of the previous tariff period ( i.e. 31.03.2024 )**

1) Effective COD	
2) Last date of the previous tariff control period	Mar 31, 2024
3) No. of Completed years lapsed as on 01.04.2024 (2) - (1)	0



4) Remaining useful life ( in year ) (WAL-lapsed year)

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**Statement of Capital cost**

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Augmentation of transformation capacity by 1X500 MVA, 400/230 kV ICT (4th) at Arasur Sub-Station		
Element Description	1x500MVA, 400/230kV ICT (4th) along with associated bays and equipments at Arasur substation		
Region	Southern Region	DOC Date	Jun 30, 2024

(Amount in Rs. Lakh)

**A) Capital Cost**

Particular	Accrual Basis	Un-discharged Liabilities	Cash Basis
<b>As on relevant date :2024-25</b>			
a) Opening Gross Block Amount as per books	4,211.40	499.62	3,711.78
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	30.65	7.88	22.77
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	379.43	0.00	379.43

a) Addition in Gross Block Amount during the period	1,126.29	0.00	1,126.29
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	5,337.69	0.00	5,337.69
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	30.65	0.00	30.65
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	379.43	0.00	379.43

**As on relevant date :2025-26**

a) Opening Gross Block Amount as per books	5,337.69	0.00	5,337.69
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	30.65	0.00	30.65

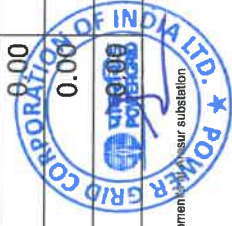




c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	379.43	0.00	379.43
<b>a) Addition in Gross Block Amount during the period</b>			
b) Amount of (i) IDC (ii) FERV & (iv) Hedging cost included in B(a) above	60.89	0.00	60.89
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging 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
<b>a) Closing Gross Block Amount as per books</b>			
b) Amount of (i) IDC (ii) FERV & (iv) Hedging cost included in C(a) above	5,398.58	0.00	5,398.58
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	30.65	0.00	30.65
	379.43	0.00	379.43
<b>As on relevant date :2026-27</b>			
a) Opening Gross Block Amount as per books	5,398.58	0.00	5,398.58
b) Amount of (i) IDC (ii) FERV & (iv) Hedging cost included in A(a) above	30.65	0.00	30.65
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	379.43	0.00	379.43

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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) 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
<b>a) Closing Gross Block Amount as per books</b>			
b) Amount of (i) IDC (ii) FERV & (iv) Hedging cost included in C(a) above	5,398.58	0.00	5,398.58
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	30.65	0.00	30.65
	379.43	0.00	379.43
<b>As on relevant date :2027-28</b>			
a) Opening Gross Block Amount as per books	5,398.58	0.00	5,398.58
b) Amount of (i) IDC (ii) FERV & (iv) Hedging cost included in A(a) above	30.65	0.00	30.65
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	379.43	0.00	379.43



a) Addition in Gross Block Amount during the period	0.00	0.00	0.00
b) Amount of (i) IDC (ii) FCRV & (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	5,398.58	0.00	5,398.58
b) Amount of (i) IDC (ii) FCRV & (iv) Hedging cost included in C(a) above	30.65	0.00	30.65
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	379.43	0.00	379.43

**As on relevant date : 2028-29**

a) Opening Gross Block Amount as per books	5,398.58	0.00	5,398.58
b) Amount of (i) IDC (ii) FCRV & (iv) Hedging cost included in A(a) above	30.65	0.00	30.65
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	379.43	0.00	379.43

a) Addition in Gross Block Amount during the period	0.00	0.00	0.00
b) Amount of (i) IDC (ii) FCRV & (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	5,398.58	0.00	5,398.58
b) Amount of (i) IDC (ii) FCRV & (iv) Hedging cost included in C(a) above	30.65	0.00	30.65
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	379.43	0.00	379.43

**B) Flow of liability for the Asset**

(Amount in Rs. Lakh)

Particular	2024-2025				
Opening balance of liability	499.62	0.00	0.00	0.00	0.00
Add: Liability from ACE	0.00	0.00	0.00	0.00	0.00



Discharge of liability by payment and claimed as ACE	499.62	0.00	0.00	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	0.00
Closing Balance of Admitted liability	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



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Abstract of Capital Cost Estimates and Schedule of Commissioning for New Project/Element		FORM- 4C
Name of the Transmission Asset: "1x500MVA, 400/230kV ICT (4th) along with associated bays and equipment's at Arasur substation" under Augmentation of Transformation capacity by 1x500MVA, 400/230kV ICT (4th) at Arasur substation in Southern Region of Power Grid Corporation of India Limited (SR-II)		
(Amount in Rs. Lakh)		
Board of Director/ Agency approving the Capital cost estimates:	IA ref no. C/CP/PA2223-10-0AN-IA023 dtd 23.01.2023	
Date of approval of the Capital cost estimates:		
	<b>Present Day Cost</b>	<b>Completed Cost</b>
Price level of approved estimates	As of <u>IV Qtr.</u> of the FY <u>2023-24</u>	As on Scheduled COD of the transmission system/transmission element/ Communication System
Foreign Exchange rate considered for the Capital cost estimates		
<b>Capital Cost excluding IDC, IEDC&amp; FC</b>		
Foreign Component, if any (In Million US \$ or the relevant Currency)		
Domestic Component (Rs. Lakh)	4062.45	4988.50
<b>Capital cost excluding IDC, FC, FERV &amp; Hedging Cost (Rs. Lakh)</b>	<b>4062.45</b>	<b>4988.50</b>
<b>IDC, IEDC, FC, FERV &amp; Hedging Cost</b>		
Foreign Component, if any (In Million US \$ or the relevant Currency)		
Domestic Component (Rs Lakh)	0.00	387.44
<b>Total IDC, FC, FERV &amp; Hedging Cost (Rs Lakh)</b>	<b>0.00</b>	<b>387.44</b>
Rate of taxes & duties considered		
<b>Capital cost Including IDC, IEDC, FC, FERV &amp; Hedging Cost</b>		
Foreign Component, if any (In Million US \$ or the relevant Currency)		
Domestic Component (Rs Lakh)		<b>5375.94</b>
<b>Capital cost Including IDC, IEDC&amp; FC (Rs Lakh)</b>		<b>5375.94</b>
<b>Schedule of Commissioning</b>		
COD of transmission system 1 /transmission element 1/Communication System 1		<b>30.06.2024</b>
COD of transmission system 1/ transmission element 2/ Communication System 2		
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COD of last transmission system /transmission element / Communication System		<b>30.06.2024</b>
<b>Note:</b>		
1. Copy of approval letter by the Board duly certified by the Company secretary should be enclosed		
2. Details of Capital Cost are to be furnished as per FORM-5 or 5A as applicable		
3. Details of IDC & Financing Charges are to be furnished as per FORM-12(B).		



Name of the Transmission Asset: "1x500MVA, 400/230kV ICT (4th) along with associated bays and equipment's at Arasur substation" under Augmentation of Transformation capacity by 1x500MVA, 400/230kV ICT (4th) at Arasur substation in Southern Region of Power Grid Corporation of India Limited (SR-II)

DOC0: 30.06.2024

S. No.	Name/No. of Construction /supply/service package	Scope of works <sup>1</sup> (in line with head of cost break-ups as applicable)	Whether awarded through ICB/DCB/ Departmental/ y/ Deposit Work, etc.	No. of bids received	Date of Award	Date of Start of work	Date of Completion of Work	Value of Award in (Rs. Lakh).	Firm or With Escalation in prices	Actual expenditure till the completion or up to COD whichever is earlier (Rs. Lakh)	Taxes & Duties and JEDC (Rs. Lakh)	IDC, FC, FERV & Hedging cost (Rs. Lakh)	(Amount in Rs. Lakh)	
													Sub-Total	(Rs. Lakh)
1	Substation package-100 for "Augmentation of Transformation capacity by 1x500 MVA, 400/220 kV ICT (4th as Arasur) under Augmentation of Transformation capacity by 1x500 MVA, 400/220kV ICT 4th) at Arasur	Augmentation of Transformation capacity by 1x500MVA, 400/230kV ICT (4th) at Arasur substation			19.05.2023	19.05.2023	30.06.2024	3946.77	With PV	2885.24	803.77	8.01	3697.02	

**Note:**

1. The scope of work in any package should be indicated in conformity of cost break-up in Form-5 to the extent possible.
2. If there is any package, which need to be shown in Indian Rupee and foreign currency(ies), the same should be shown separately along with the currency, the exchange rate and the date e.g. Rs. 800 Lakh. + US\$ 5m-Rs. 4300 Lakh. at US\$=Rs.70 as on say 01.04.2019.
3. Package at SI no 2 is bulk procurement packages. Value of award is total package cost.



DCB: Domestic Competitive Bidding  
GCB: Global Competitive Bidding

**Details of all the assets covered in the project**

Name of the Transmission Licensee		Power Grid Corporation of India Limited		
Project	Augmentation of transformation capacity by 1X500 MVA, 400/230 kV ICT (4th) at Arasur Sub-Station			
Element Description	1x500MVA, 400/230kV ICT (4th) along with associated bays and equipment's at Arasur substation			
Region	Southern Region	DOCO Date	Jun 30, 2024	SCOD
				Jun 30, 2024

(Amount in Rs. Lakh)



**Financial Package upto COD**

Form No. - 6

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Augmentation of transformation capacity by 1X500 MVA, 400/230 kV ICT (4th) at Arasur Sub-Station		
Element Description	1x500MVA, 400/230kV ICT (4th) along with associated bays and equipment's at Arasur substation		
Region	Southern Region	DOC Date	Jun 30, 2024

(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	3,363.115	INR	2,598.25		0.00
Equity		0.00		0.00		0.00
Foreign		0.00		0.00		0.00
Domestic	INR	1,441.335	INR	1,113.53		0.00
Total Equity	INR	1,441.335	INR	1,113.53		0.00
Debt Equity Ratio					70:30	
Total Cost	INR	4,804.45	INR	3,711.78		0.00

Particulars	Debt	Equity	Total
Addcap for 2024 - 2025			1,625.91
Addcap for 2025 - 2026			60.89
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	
<b>Addcap for 2024 - 2025</b>			
Equity		487.77	
Debt		1,138.14	
Total		1,625.91	
<b>Addcap for 2025 - 2026</b>			
Equity		18.27	
Debt		42.62	
Total		60.89	
<b>Addcap for 2026 - 2027</b>			
Equity		0.00	
Debt		0.00	
Total		0.00	
<b>Addcap for 2027 - 2028</b>			
Equity		0.00	
Debt		0.00	
Total		0.00	
<b>Addcap for 2028 - 2029</b>			
Equity		0.00	
Debt		0.00	
Total		0.00	
<b>Total Capital cost with Addcap</b>		5,398.58	





## Form-6

Name of the Petitioner Power Grid Corporation of India Limited  
 Name of Region: SR-II  
 Name of the Project : 1x500MVA, 400/230kV ICT (4th) along with associated bays and equipment's at Arasur substation  
 Project Name Augmentation of Transformation capacity by 1x500MVA, 400/230kV ICT (4th) at Arasur substation

Actual cash expenditure

(Amount in Rs. Lakh)

Payment to contractors/suppliers	Q1	Q2	Q3	Q4	TOTAL
2021-2022	0.00	0.00	0.00	0.00	0.00
2022-2023	0.00	0.00	0.00	0.00	0.00
2023-2024	0.00	0.00	135.79	303.00	438.79
2024-2025	2870.79	0.00	0.00	0.00	2870.79

IEDC	Q1	Q2	Q3	Q4	TOTAL
2022-2023	0.00	0.00	0.00	0.00	0.00
2023-2024	0.00	0.00	0.00	94.29	94.29
2024-2025	285.13	0.00	0.00	0.00	285.13



**Statement of Additional Capitalisation after COD**

Form No. - 7

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Augmentation of transformation capacity by 1X500 MVA, 400/230 kV ICT (4th) at Arasur Sub-Station		
Element Description	1x500MVA, 400/230kV ICT (4th) along with associated bays and equipment's at Arasur substation		
Region	Southern Region	DOC Date	Jun 30, 2024

(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)			
<b>ACE for the year :2024-25 (Actual/Projected)</b>									
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	1,125.97	0.00	0.00	0.00	0.00	0.00	499.02	1,624.99	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	0.32	0.00	0.00	0.00	0.00	0.00	0.60	0.92	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
<b>Total</b>	<b>1,126.29</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>499.62</b>	<b>1,625.91</b>	<b>0.00</b>
<b>ACE for the year :2025-26 (Actual/Projected)</b>									

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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	60.89	0.00	0.00	0.00	0.00	0.00	0.00	60.89	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
<b>Total</b>	<b>60.89</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>60.89</b>	<b>0.00</b>
<b>ACE for the year :2026-27 (Actual/Projected)</b>									
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
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>ACE for the year :2027-28 (Actual/Projected)</b>									
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
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>ACE for the year :2028-29 (Actual/Projected)</b>									
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
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>



**Financing of Additional Capitalisation**

Name of the Transmission Licensee	Power Grid Corporation of India Limited	
Project	Augmentation of transformation capacity by 1X500 MVA, 400/230 kV ICT (4th) at Arasur Sub-Station	
Element Description	1x500MVA, 400/230kV ICT (4th) along with associated bays and equipments at Arasur substation	
Region	Southern Region	DOCO Date   Jun 30, 2024

(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	1,138.14	42.62	0.00	0.00	0.00					
Equity	487.77	18.27	0.00	0.00	0.00					
Total	1,625.91	60.89	0.00	0.00	0.00					

**Calculation of ROE**

Form No. - 8

Name of the Transmission Licensee	Power Grid Corporation of India Limited				
Project	Augmentation of transformation capacity by 1X500 MVA, 400/230 kV ICT (4th) at Arasur Sub-Station				
Element Description	1x500MVA, 400/230kV ICT (4th) along with associated bays and equipment's at Arasur substation				
Region	Southern Region	DOC Date	Jun 30, 2024		

(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	275.00	365.00	365.00	366.00	365.00
Opening Normative Equity	1,113.53	1,601.30	1,619.57	1,619.57	1,619.57
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)	1,113.53	1,601.30	1,619.57	1,619.57	1,619.57
Add: Increase in Equity due to addition during the year / period	337.88	18.27	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	149.89	0.00	0.00	0.00	0.00
Closing Normative Equity	1,601.30	1,619.57	1,619.57	1,619.57	1,619.57
Average Normative Equity	1,357.42	1,610.44	1,619.57	1,619.57	1,619.57
Rate of return on Equity (%)	18.176	18.176	18.176	18.176	18.176
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	15.00	15.00	15.00	15.00	15.00
MAT/Corporate Rate	17.472	17.472	17.472	17.472	17.472
Grossed up rate of ROE	18.176	18.176	18.176	18.176	18.176
Return on Equity	246.72	292.71	294.37	294.37	294.37
Pro rata return on Equity	185.88	292.71	294.37	294.37	294.37



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**Calculation of WAR of interest on actual loan**

Form No. - 9C

Name of the Transmission Licensee	Power Grid Corporation of India Limited				
Project	Augmentation of transformation capacity by 1X500 MVA, 400/230 kV ICT (4th) at Arasur Sub-Station				
Element Description	1x500MVA, 400/230kV ICT (4th) along with associated bays and equipment's at Arasur substation				
Region	Southern Region	DOCOC Date	Jun 30, 2024		

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
<b>SBI-04 -DOCOC LOAN</b>					
Gross Loan- Opening	10.00	10.00	10.00	10.00	10.00
Cumulative repayments of Loans upto previous year	2.44	2.94	3.94	4.94	5.94
Net loan-Opening	7.56	7.06	6.06	5.06	4.06
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.50	1.00	1.00	1.00	1.00
Net Loan-Closing	7.06	6.06	5.06	4.06	3.06
Average Net Loan	7.31	6.56	5.56	4.56	3.56
Rate of Interest on Loan on Annual Basis	8.20	8.20	8.20	8.20	8.20
Interest on loan	0.5994	0.5379	0.4559	0.3739	0.2919

<b>Canara-01 -ADD CAP LOAN</b>					
Gross Loan- Opening	0.00	5.51	5.51	5.51	5.51
Cumulative repayments of Loans upto previous year	0.55	0.83	1.38	1.93	2.48
Net loan-Opening	0.00	4.68	4.13	3.58	3.03
Add: Drawl(s) during the year	5.51	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.28	0.55	0.55	0.55	0.55
Net Loan-Closing	5.23	4.13	3.58	3.03	2.48



Average Net Loan	2.62	4.41	3.86	3.31	2.76
Rate of Interest on Loan on Annual Basis	8.15	8.15	8.15	8.15	8.15
Interest on loan	0.2135	0.3594	0.3146	0.2698	0.2249

<b>Canara-01 -DOCO LOAN</b>					
Gross Loan- Opening	700.00	700.00	700.00	700.00	700.00
Cumulative repayments of Loans upto previous year	70.00	105.00	175.00	245.00	315.00
Net loan-Opening	630.00	595.00	525.00	455.00	385.00
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	35.00	70.00	70.00	70.00	70.00
Net Loan-Closing	595.00	525.00	455.00	385.00	315.00
Average Net Loan	612.50	560.00	490.00	420.00	350.00
Rate of Interest on Loan on Annual Basis	8.15	8.15	8.15	8.15	8.15
Interest on loan	49.9188	45.64	39.935	34.23	28.525

<b>Canara-01 -DOCO LOAN</b>					
Gross Loan- Opening	1,682.40	1,682.40	1,682.40	1,682.40	1,682.40
Cumulative repayments of Loans upto previous year	168.24	252.36	420.60	588.84	757.08
Net loan-Opening	1,514.16	1,430.04	1,261.80	1,093.56	925.32
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	84.12	168.24	168.24	168.24	168.24
Net Loan-Closing	1,430.04	1,261.80	1,093.56	925.32	757.08
Average Net Loan	1,472.10	1,345.92	1,177.68	1,009.44	841.20
Rate of Interest on Loan on Annual Basis	8.15	8.15	8.15	8.15	8.15
Interest on loan	119.9762	109.6925	95.9809	82.2694	68.5578





<b>Bond LXXV (75) -DOCO LOAN</b>					
Gross Loan- Opening	150.00	150.00	150.00	150.00	150.00
Cumulative repayments of Loans upto previous year	0.00	15.00	30.00	45.00	60.00
Net loan-Opening	150.00	135.00	120.00	105.00	90.00
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	15.00	15.00	15.00	15.00	15.00
Net Loan-Closing	135.00	120.00	105.00	90.00	75.00
Average Net Loan	142.50	127.50	112.50	97.50	82.50
Rate of Interest on Loan on Annual Basis	7.65	7.65	7.65	7.65	7.65
Interest on loan	10.9013	9.7538	8.6063	7.4588	6.3113

<b>Bond LXXVI (76) -DOCO LOAN</b>					
Gross Loan- Opening	40.00	40.00	40.00	40.00	40.00
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	40.00	40.00	40.00	40.00	40.00
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	0.00
Net Loan-Closing	40.00	40.00	40.00	40.00	40.00
Average Net Loan	40.00	40.00	40.00	40.00	40.00
Rate of Interest on Loan on Annual Basis	7.35	7.35	7.35	7.35	7.35
Interest on loan	2.94	2.94	2.94	2.94	2.94

**Summary**

Gross Loan- Opening	2,582.40	2,587.91	2,587.91	2,587.91	2,587.91
Cumulative repayments of Loans upto previous year	241.23	376.13	630.92	885.71	1,140.50



Net loan-Opening	2,341.72	2,211.78	1,956.99	1,702.20	1,447.41
Add: Drawl(s) during the year	5.51	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	134.90	254.79	254.79	254.79	254.79
Net Loan-Closing	2,212.33	1,956.99	1,702.20	1,447.41	1,192.62
Average Net Loan	2,277.03	2,084.39	1,829.60	1,574.81	1,320.02
Rate of Interest on Loan on Annual Basis	8.1048	8.1042	8.1019	8.0989	8.0946
Interest on loan	184.5492	168.9236	148.2327	127.5419	106.8509



## Loans in Foreign Currency

Form No. - 9D

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Augmentation of transformation capacity by 1X500 MVA, 400/230 kV ICT (4th) at Arasur Sub-Station		
Element Description	1x500MVA, 400/230kV ICT (4th) along with associated bays and equipment's at Arasur substation		
Region	Southern Region	DOCO Date	Jun 30, 2024



**Calculation of interest on Normative loan**

Form No. - 9E

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Augmentation of transformation capacity by 1X500 MVA, 400/230 kV ICT (4th) at Arasur Sub-Station		
Element Description	1x500MVA, 400/230kV ICT (4th) along with associated bays and equipment's at Arasur substation		
Region	Southern Region	DOCO Date	Jun 30, 2024

(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	275.00	365.00	365.00	366.00	365.00
Gross normative loan-Opening	2,598.25	3,736.39	3,779.01	3,779.01	3,779.01
Cumulative repayments of Normative loan upto previous year	0.00	146.23	375.96	606.97	837.98
Net normative loan-Opening	2,598.25	3,590.16	3,403.05	3,172.04	2,941.03
Addition in normative loan towards the ACE	1,138.14	42.62	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	146.23	229.73	231.01	231.01	231.01
Adjustment of cumulative repayment pertaining to the decapitalised asset	0.00	0.00	0.00	0.00	0.00
Net normative loan - closing	3,590.16	3,403.05	3,172.04	2,941.03	2,710.02
Average normative loan	3,094.21	3,496.61	3,287.55	3,056.54	2,825.53
Weighted Average Rate of interest on actual loan	8.1048	8.1042	8.1019	8.0989	8.0946
Interest on normative loan	250.78	283.37	266.35	247.55	228.72
Pro rata interest on normative loan	188.94	283.37	266.35	247.55	228.72



**Calculation of Depreciation Rate on Original Project Cost**

Form No. - 10

Name of the Transmission Licensee		Power Grid Corporation of India Limited	
Project	Augmentation of transformation capacity by 1X500 MVA, 400/230 kV ICT (4th) at Arasur Sub-Station		
Element Description	1x500MVA, 400/230kV ICT (4th) along with associated bays and equipment's at Arasur substation		
Region	Southern Region	DOCO Date	Jun 30, 2024

(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
<b>2024-25</b>						
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	4.22	0.00
Sub Station	3,683.12	1,624.99	5,308.11	4,495.62	4.22	142.94
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/URTDSM/SCADA,etc	28.66	0.92	29.58	29.12	15.00	3.29
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
<b>TOTAL</b>	<b>3,711.78</b>	<b>1,625.91</b>	<b>5,337.69</b>	<b>4,524.74</b>	<b>0.00</b>	<b>146.23</b>
<b>Weighted Average Rate of Depreciation(%)</b>					<b>3.231788</b>	

<b>2025-26</b>						
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	4.22	0.00
Sub Station	5,308.11	60.89	5,369.00	5,338.56	4.22	225.29
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/URTDISM/SCADA,etc	29.58	0.00	29.58	29.58	15.00	4.44
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
<b>TOTAL</b>	<b>5,337.69</b>	<b>60.89</b>	<b>5,398.58</b>	<b>5,368.14</b>	<b>0.00</b>	<b>229.73</b>
<b>Weighted Average Rate of Depreciation(%)</b>					<b>4.279508</b>	

**2026-27**

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	4.22	0.00
Sub Station	5,369.00	0.00	5,369.00	5,369.00	4.22	226.57
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/URTDISM/SCADA,etc	29.58	0.00	29.58	29.58	15.00	4.44
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
<b>TOTAL</b>	<b>5,398.58</b>	<b>0.00</b>	<b>5,398.58</b>	<b>5,398.58</b>	<b>0.00</b>	<b>231.01</b>
<b>Weighted Average Rate of Depreciation(%)</b>					<b>4.279088</b>	



2027-28						
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	4.22	0.00
Sub Station	5,369.00	0.00	5,369.00	5,369.00	4.22	226.57
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/URTDISM/SCADA,etc	29.58	0.00	29.58	29.58	15.00	4.44
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
<b>TOTAL</b>	<b>5,398.58</b>	<b>0.00</b>	<b>5,398.58</b>	<b>5,398.58</b>	<b>0.00</b>	<b>231.01</b>
<b>Weighted Average Rate of Depreciation(%)</b>					<b>4.279088</b>	

2028-29						
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	4.22	0.00
Sub Station	5,369.00	0.00	5,369.00	5,369.00	4.22	226.57
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/URTDISM/SCADA,etc	29.58	0.00	29.58	29.58	15.00	4.44
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
<b>TOTAL</b>	<b>5,398.58</b>	<b>0.00</b>	<b>5,398.58</b>	<b>5,398.58</b>	<b>0.00</b>	<b>231.01</b>



Weighted Average Rate of Depreciation(%)					4.279088	
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**Statement of Depreciation**

Form No. - 10A

Name of the Transmission Licensee	Power Grid Corporation of India Limited				
Project	Augmentation of transformation capacity by 1X500 MVA, 400/230 kV ICT (4th) at Arasur Sub-Station				
Element Description	1x500MVA, 400/230kV ICT (4th) along with associated bays and equipment's at Arasur substation				
Region	Southern Region	DOC Date	Jun 30, 2024		

(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	275.00	365.00	365.00	366.00	365.00
<b>Life at the beginning of the year</b>					
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	0.00	1.00	2.00	3.00
1.3 Balance Weighted Average useful life of the Asset/Project(in completed no. of year)	25.00	25.00	24.00	23.00	22.00
<b>Capital Base</b>					
1.4 Opening capital cost	3,711.78	5,337.69	5,398.58	5,398.58	5,398.58
1.5 Additional Capital Expenditure dr. the year	1,625.91	60.89	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	5,337.69	5,398.58	5,398.58	5,398.58	5,398.58
1.8 Average capital cost	4,524.74	5,368.14	5,398.58	5,398.58	5,398.58
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	29.12	29.58	29.58	29.58	29.58
1.11 Asset having 10% salvage value included in 1.8	4,495.62	5,338.56	5,369.00	5,369.00	5,369.00
1.12 Depreciable Value(1.10+90% of 1.11)	4,075.18	4,834.28	4,861.68	4,861.68	4,861.68
<b>Depreciation for the period and Cum. Depreciation</b>					
1.13 Weighted Average Rate of depreciation	3.231788	4.279508	4.279088	4.279088	4.279088



1.14 Depreciation(for the period)	146.23	229.73	231.01	231.01	231.01
1.15 Depreciation(Annualised)	146.23	229.73	231.01	231.01	231.01
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	146.23	375.96	606.97	837.98
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	146.23	375.96	606.97	837.98	1,068.99



### Calculation of interest on working Capital

Form No. - 11

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Augmentation of transformation capacity by 1X500 MVA, 400/230 kV ICT (4th) at Arasur Sub-Station		
Element Description	1x500MVA, 400/230kV ICT (4th) along with associated bays and equipment's at Arasur substation		
Region	Southern Region	DOC Date	Jun 30, 2024

(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	275.00	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	109.83	125.37	124.86	123.51	122.98
Total Working capital	152.11	169.89	171.67	172.75	174.92
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	18.10	20.22	20.43	20.56	20.82
Pro rata interest on working capital	13.64	20.22	20.43	20.56	20.82



**Drawdown schedule Calculation of IDC & Financing Charges**

Name of the Transmission Licensee		Power Grid Corporation of India Limited	
Project	Augmentation of transformation capacity by 1X500 MVA, 400/230 kV ICT (4th) at Arasur Sub-Station		
Element Description	1x500MVA, 400/230kV ICT (4th) along with associated bays and equipment's at Arasur substation		
Region	Southern Region	DOCO Date	Jun 30, 2024

(Amount in Rs. Lakh)

Particulars	Quarter 1			Quarter 2			Quarter n (COD)		
	Quantum in FC	Ex. Rate on Drawn Down Date	Amount in Indian Rupee	Quantum in FC	Ex. Rate on Drawn Down Date	Amount in Indian Rupee	Quantum in FC	Ex. Rate on Drawn Down Date	Amount in Indian Rupee
Loans									
Foreign Loans									
<b>Total of Foreign Loans</b>									
Indian Loans									
<b>SBI-04 -DOCO LOAN</b>									10.00
Draw Down Account									
IDC									
Financing Charges									
<b>Canara-01 -DOCO LOAN</b>									



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**Details of time over run**

Name of the Transmission Asset: "1x500MVA, 400/230kV ICT (4th) along with associated bays and equipment's at Arasur substation" under Augmentation of Transformation capacity by 1x500MVA, 400/230kV ICT (4th) at Arasur substation in Southern Region of Power Grid Corporation of India Limited (SR-II)

**FOR  
M- 12**

S.No.	Description of Activity/Works/Service	Original Schedule (As per Planning)		Actual Achieved (As per Actual)		Time Over-Run Months	Agency responsible and whether such time over run was beyond the control of the Transmission Licensee	Reasons for delay	Other Activity affected (Mention Sr. No of activity affected)
		Start Date	Completion Date	Start Date	Completion Date				
1.	Notification under Section 164 of EA,2003					N.A.			
2.	Award of Forest Proposal submission, Clearance & tree cutting order					N.A.			
3.	Land acquisition					N.A.			
4.	Award of supply & erection package	23/01/2023	23/02/2023	23/01/2023	19/05/2023	3 months	It is submitted that POWERGRID, being a government enterprise, is bound to comply with several statutory guidelines. Further, to achieve optimum and competitive price and to reduce the burden on beneficiaries, packaging of contracts for the Project procurement, i.e., grouping of equipment/goods/works/services into an optimum quantity is being strictly followed. Further, in the instant case, considering economy in procurement to obtain better competitive price, the subject scope of work being small in bid size, was clubbed with different projects coming up during that time. In the process of achieving a better competitive price, a marginal delay of 127 days has been encountered.		
5.	Supply of Materials	23/02/2023	30/11/2023	19/05/2023	15/03/2024	4 months			
6.	Civil works	23/03/2023	23/11/2023	20/06/2023	30/03/2024	3 months			
7.	Erection works	23/11/2023	24/01/2024	15/03/2024	30/05/2024	4 months			
8.	Testing & Commissioning	24/01/2024	24/02/2024	30/05/2024	30/06/2024	4 months			

1. Delay on account of each reason in case of time overrun should be quantified and substantiated with necessary documents and supporting workings.
2. In case any margin (in schedule) is kept for the purpose of probable issue of RoW, the same may be indicated separately by the petitioner



Details of Initial Spares													
Name of the petitioner		30.06.2024										Cut-off Date of the Asset: 31.03.2028	
A) Determination of Excess initials spare and its adjustment from Capital cost													
Particulars	Plant and machinery cost as on cut-off Date <sup>1</sup>	Initial Spare Capitalised as per Books of Account up to Cut-off Date					Total as on Cut off Date <sup>2</sup>	Ceiling limit as mentioned in Regulations 2024	Entitled Initial Spare as per Regulations	Excess of capitalised Initial Spare to be reduced from Capital cost	Adjustment of Excess Initial Spare from Capital cost of Plant and Machinery		
		As on COD	As ACE dr. Y1	As ACE dr. Y2	As ACE dr. Y3	As ACE					COD	ACE for Y1	ACE for Y2
1	2	3	4	5	6	7	8	9	10=7-9(Note 2)	11	12	13	14
Transmission Line													
Substation Brown field	0.00	61.97	93.23			155.20	6%	-9.91	0.00				
Substation Green Field													
Series Compensation devices and HVDC Station													
GIS/5- Green field													
GIS/5-Brown field													
Communication System													
Static Synchronous Compensator													
<b>Initial spare as per Books of Account</b>													
Un-Discharge liabilities included above													
<b>Total Capitalized initial spare</b>													

Note: 1) Plant and machinery cost as on cut-off Date for the purpose of initial spare (As computed in Col.L of the below table)

2) The column 10 has to be shown as nil in case the claimed initial spare is with in the ceiling limit.

3) Total cost should be excluding IDC and IEDC.

B) Determination of Plant & Machinery Cost for ceiling of initial spare.												
Particulars	Gross Block of Asset as on COD	Less: Amount included in Col. B towards					Plant and machinery cost as on COD for Initial Spare purpose	Plant & Machinery Capitalised as ACE up to cut off date			Plant and machinery cost as on cut-off Date for the purpose of initial spare	
		Land Cost	Cost of Civil Works	IEDC	IDC & FERV	Initial Spare		Year -1	Year-2	Year-3		
a	b	c	d	e	f	g	h=b-c-d-e-f-g	i	j	k	l=h+i+j+k	
Transmission Line												
Substation Green field												
Substation Brown Field	4188.76	-	-	379.43	8.01	61.97	3739.35	1126.29	60.89	-	4926.53	
Series Compensation devices and HVDC Station												







Particulars	Gross Block of Asset as on COD	Less: Amount included in Col. B towards				Plant and machinery cost as on COD for Initial Spare purpose h=b-c-d-e-f-g	Plant & Machinery Capitalised as ACE up to cut off date			Plant and machinery cost as on cut-off Date for the purpose of initial spare l=h+i+j+k
		Land Cost	Cost of Civil Works	IEDC	IDC & FERV		Initial Spare	Year-1	Year-2	
a	b	c	d	e	f	g	i	j	k	l=h+i+j+k
Gas Insulated Substation- Green field										
Gas Insulated Substation- Brown field										
Communication System										
Static Synchronous Compensator										

Note: The Cost details for the year in which Cut-off date falls has to be provide only up to the cut-off date.

**Details of Initial Spares**

Name of the Transmission Licensee		Power Grid Corporation of India Limited	
Project	Augmentation of transformation capacity by 1X500 MVA, 400/230 kV ICT (4th) at Arasur Sub-Station		
Element Description	1x500MVA, 400/230kV ICT (4th) along with associated bays and equipment's at Arasur substation		
Region	Southern Region	DOC Date	Jun 30, 2024

**A) Determination of Excess initials spare and its adjustment from Capital cost** (Amount in Rs. Lakh)

Particular	Plant and machinery cost as on cut-off Date	Initial Spare Capitalised as per Books of Account up to Cut-off Date					Ceiling limit as mentioned in Regulations 23	Entitled Initial Spare as per Regulations	Excess of capitalised Initial Spare to be reduced from Capital cost	Adjustment of Excess Initial Spare from Capital cost of Plant and machinery		
		As on COD	As ACE dr. Y1	As ACE dr. Y2	As ACE dr. Y3	As ACE dr. Y4				Total as on Cut off Date	COD for Y1	ACE for Y2
Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0	0			
Substation Green field	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0	0			
Substation Brown field	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0	0			
Series Com. devices and HVDC station	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0	0			
GIS/S- Green field	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0	0			
GIS/S- Brown field	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0	0			
Communication System	0.00	0.00	0.00	0.00	0.00	0.00	3.50	0	0			





Static Synchronous Compensator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0	0				
IT Equip. & S/w	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0				
<b>Initial spare as per Books of Account</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0				
Un-Discharge Liabilities including	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0				
Discharge of Liabilities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0				
<b>Total Capitalized initial spare</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0				

**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	2024-29		
4. Name of the Project	1X500 MVA, 400/230 KV ICT (4th) along with associated bays and equipments at Arasur sub-station under "Augmentation of transformation capacity by 1X500 MVA, 400kV/230KV ICT (4th) at Arasur sub-station"		
5. Investment Approval date	24.02.2024		
6. SCOD of the Project	24.02.2024		
7. Actual COD of the project	30.06.2024		
8. Whether entire scope is covered in the present petition.	Yes		
9. No. of Assets covered in instant petition	01 no.		
10. No. of Assets having time over run	01 no.		
11. Estimated Project Cost as per IA	Rs. 4804.45 Lakh		
12. Is there any REC? if so, provide the date	No		
13. Revised Estimated Project Cost (if any)			
14. Completion cost for all the assets covered in the instant petition.	Rs. 5375.94 Lakh		
15. No. of Assets covered in instant petition and having cost overrun.	01 no.		
16	<b>Prayer in brief</b>		
17	<b>Key details and any Specific issue involved</b>		
18	<b>Respondents</b>		
	<b>Name of Respondents</b>		
	1	TANGEDCO	2. BESCO
	3	KSEB	4. GESCOM.
	5	APCPDCL	6. HESCO
	7	Electricity Department, Govt of Pondicherry	8. MESCOM
	9	APEPDCL	10. CESC
	11	APSPDCL	12. Electricity Department, Government of Goa
	13	TSSPDCL	14. TSNPDCL
	15.	CTU	



## Summary of Capital Cost &amp; Annual Fixed Cost (AFC) Claimed for ALL the assets covered in the present petition.

Name of the Petitioner	Power Grid Corporation of India Ltd	
Tariff Period	2024-29	
Name of the Transmission Project	Augmentation of transformation capacity by 1X500 MVA, 400kV/230KV ICT (4th) at Arasur sub-station	
COD of the Project (if entire scope of project is completed)	30.06.2024	

(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) Appropriated 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	2024-25	2025-26	2026-27	2027-28	2028-29	Capital Cost as on 31.03.2029		
1	Asset-1	30.06.2024	31.03.2028	3	4	5	6	7	8	9	10	11=	12	
				4804.45	-	3697.02	1618.03	60.89	0	0	0	5375.94	5375.94	
<b>Total Capital Cost Claimed</b>				<b>4804.45</b>	<b>0.00</b>	<b>3697.02</b>	<b>1618.03</b>	<b>60.89</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>5375.94</b>	<b>5375.94</b>	
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												
1	Asset-1	1X500 MVA, 400/230 KV ICT (4th) along with associated bays and equipments at Arasur sub-station												
<b>Total AFC for all the Assets</b>														

Note: 1) The purpose of this form is to summarise the Capital cost & AFC claimed for all the assets covered in the instant petition.

