

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

**PETITION FOR**

**Approval under regulation-86 of CERC (Conduct of Business) Regulations'1999 and CERC (Terms and Conditions of Tariff) Regulations, 2014 and CERC (Terms and Conditions of Tariff) Regulations' 2019 for**

- (i) **Truing up of Transmission tariff for 2014-19 tariff block and**
- (ii) **Determination of Transmission tariff for 2019-24 tariff block**

**For 2 Nos 400kV line Bays at Parli(POWERGRID) Switching Station (for Parli new(TBCB)-Parli(POWERGRID) 400kV D/C(Quad) line under TBCB) and 2 Nos 765kV line Bays at Solapur(POWERGRID) Station (for Parli new(TBCB)-Solapur(POWERGRID) 765kV D/C line under TBCB route) under "POWERGRID works associated with Western Region Strengthening Scheme XV".**

PETITION NO. : .....  
TARIFF BLOCK: 2019 - 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)  
EPABX : 0124-2571 700 TO 719, FAX :0124-2571989**



Handwritten signature/initials.

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

**IN THE MATTER OF:** Approval under regulation-86 of CERC (Conduct of Business) Regulations' 1999 and CERC (Terms and Conditions of Tariff) Regulations, 2014 and CERC (Terms and Conditions of Tariff) Regulations' 2019 for

(i) Truing up of Transmission tariff for 2014-19 tariff block and

(ii) Determination of Transmission tariff for 2019-24 tariff block

For assets under "POWERGRID works associated with Western Region Strengthening Scheme XV"

**Power Grid Corporation of India Ltd.**

--- PETITIONER

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

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

Madhya Pradesh Power Management Company Ltd.

----- RESPONDENTS

Shakti Bhawan, Rampur

Jabalpur - 482 008

Represented By Its MD

And Others

Sl. No.	Description	Enclosure No.	Page No.
1	CERC letter	-	A
2	Form-1	-	B-C
3	Despatch Proof	-	D-E
4	Index	-	2
5	Letter for registration	-	3
6	Memo of Parties	-	4-6
7	Application for determination of Tariff	-	7-17
8	Affidavit	-	18-19
9	Memo of Appearance	-	20
10	Power of attorney	-	21-22
11	CERC Order dated 15.11.2018 in 40/TT/2018	Encl-1	93-47
12	Revised Auditor certificates.	Encl-2	48-49
13	Cash IDC statement	Encl-3	50
14	Trued up Tariff Forms (2014-19)	Encl.-4	51-68
15	Tariff Forms (2019-24)	Encl.-5	69-95
16	Checklist	—	96-99

Filed by

Gurgaon

Power Grid Corporation of India Ltd.

Represented by

Dy. General Manager (Commercial)

Dated: 23.09.2019



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

**IN THE MATTER OF:** Approval under regulation-86 of CERC (Conduct of Business) Regulations'1999 and CERC (Terms and Conditions of Tariff) Regulations, 2014 and CERC (Terms and Conditions of Tariff) Regulations' 2019 for

- (i) Truing up of Transmission tariff for 2014-19 tariff block and  
(ii) Determination of Transmission tariff for 2019-24 tariff block

2 Nos 400kV line Bays at Parli(POWERGRID) Switching Station (for Parli new(TBCB)-Parli(POWERGRID) 400kV D/C(Quad) line under TBCB) and 2 Nos 765kV line Bays at Solapur(POWERGRID) Station (for Parli new(TBCB)-Solapur(POWERGRID) 765kV D/C line under TBCB route) under "POWERGRID works associated with Western Region Strengthening Scheme XV"

**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).

Madhya Pradesh Power Management Company Ltd.

Shakti Bhawan, Rampur

Jabalpur - 482 008

Represented By Its MD

And Others

--- PETITIONER

---- RESPONDENTS

To  
The Secretary  
Central Electricity Regulatory Commission  
New Delhi 110001

Sir,

The application filed under Regulation 86 of CERC (Conduct of Business) Regulation, 1999 and Regulation - 8 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for

- (i) Truing up of Transmission tariff for 2014-19 tariff block and  
(ii) Determination of Transmission tariff for 2019-24 tariff block

For 2 Nos 400kV line Bays at Parli(POWERGRID) Switching Station (for Parli new(TBCB)-Parli(POWERGRID) 400kV D/C(Quad) line under TBCB) and 2 Nos 765kV line Bays at Solapur(POWERGRID) Station (for Parli new(TBCB)-Solapur(POWERGRID) 765kV D/C line under TBCB route) under "POWERGRID works associated with Western Region Strengthening Scheme XV" may please be registered.

**Gurgaon**  
**Dated: 23.09.2019**



Filed by  
Power Grid Corporation of India Ltd.

Represented by  
Dy. General Manager (Commercial)

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

**IN THE MATTER OF:** Approval under regulation-86 of CERC (Conduct of Business) Regulations'1999 and CERC (Terms and Conditions of Tariff) Regulations, 2014 and CERC (Terms and Conditions of Tariff) Regulations' 2019 for

- (i) Truing up of Transmission tariff for 2014-19 tariff block and
- (ii) Determination of Transmission tariff for 2019-24 tariff block

2 Nos 400kV line Bays at Parli(POWERGRID) Switching Station (for Parli new(TBCB)-Parli(POWERGRID) 400kV D/C(Quad) line under TBCB) and 2 Nos 765kV line Bays at Solapur(POWERGRID) Station (for Parli new(TBCB)-Solapur(POWERGRID) 765kV D/C line under TBCB route) under "POWERGRID works associated with Western Region Strengthening Scheme XV"

--- PETITIONER

**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).

Madhya Pradesh Power Management Company Ltd.  
Shakti Bhawan, Rampur  
Jabalpur - 482 008  
Represented By Its MD  
And Others

--- RESPONDENTS

**MEMO OF PARTIES**

1. MADHYA PRADESH POWER MANAGEMENT COMPANY LTD.  
SHAKTI BHAWAN, RAMPUR  
JABALPUR - 482 008  
REPRESENTED BY ITS MD
2. MADHYA PRADESH POWER TRANSMISSION COMPANY LTD.  
SHAKTI BHAWAN, RAMPUR  
JABALPUR - 482 008  
REPRESENTED BY ITS MD
3. MADHYAPRADESH AUDYOGIK KENDRA



- VIKAS NIGAM (INDORE) LTD.  
3/54, PRESS COMPLEX, AGRA-BOMBAY ROAD, INDORE-452 008
4. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD.  
HONGKONG BANK BUILDING, 3RD FLOOR  
M.G. ROAD, FORT, MUMBAI-400 001.  
REPRESENTED BY ITS MD
5. MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO. LTD.  
PRAKASHGANGA, 6<sup>th</sup> FLOOR, PLOT NO. C-19, E-BLOCK,  
BANDRA KURLA COMPLEX, BANDRA (EAST) MUMBAI-400 051.  
REPRESENTED BY ITS MD
6. GUJARAT URJA VIKAS NIGAM LTD.  
SARDAR PATEL VIDYUT BHAWAN,  
RACE COURSE ROAD, VADODARA - 390 007  
REPRESENTED BY ITS CHAIRMAN
7. ELECTRICITY DEPARTMENT  
GOVT. OF GOA, VIDYUT BHAWAN, PANAJI,  
NEAR MANDVI HOTEL, GOA - 403 001  
REPRESENTED BY ITS CHIEF ENGINEER (ELECTRICAL)
8. ELECTRICITY DEPARTMENT  
ADMINISTRATION OF DAMAN & DIU  
DAMAN - 396 210  
REPRESENTED BY ITS SECRETARY (FIN.)
9. DNH POWER DISTRIBUTION CORPORATION LIMITED.  
VIDYUT BHAWAN, 66KV ROAD, NEAR SECRETARIAT AMLI,  
SILVASSA - 396 230  
REPRESENTED BY ITS SECRETARY (FIN.)
10. CHHATTISGARH STATE POWER TRANSMISSION CO. LTD.  
OFFICE OF THE EXECUTIVE DIRECTOR (C&P)  
STATE LOAD DESPACTH BUILDING,



DANGANIA, RAIPUR – 492 013

11. CHHATTISGARH STATE POWER DISTRIBUTION CO. LTD.  
P.O.SUNDER NAGAR, DANGANIA, RAIPUR  
CHHATTISGARH-492 013  
REPRESENTED BY ITS CHAIRMAN

**GURGAON**

**DATED:23.09.2019**

**FILED BY**

**POWER GRID CORPORATION OF INDIA LTD.**

REPRESENTED BY

Zafrul Hasan

**Deputy General Manager (Commercial)**



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

**IN THE MATTER OF:** Approval under regulation-86 of CERC (Conduct of Business) Regulations'1999 and CERC (Terms and Conditions of Tariff) Regulations, 2014 and CERC (Terms and Conditions of Tariff) Regulations' 2019 for

- (i) Truing up of Transmission tariff for 2014-19 tariff block and
- (ii) Determination of Transmission tariff for 2019-24 tariff block

2 Nos 400kV line Bays at Parli(POWERGRID) Switching Station (for Parli new(TBCB)-Parli(POWERGRID) 400kV D/C(Quad) line under TBCB) and 2 Nos 765kV line Bays at Solapur(POWERGRID) Station (for Parli new(TBCB)-Solapur(POWERGRID) 765kV D/C line under TBCB route) under "POWERGRID works associated with Western Region Strengthening Scheme XV"

**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

Madhya Pradesh Power Management Company Ltd.  
Shakti Bhawan, Rampur  
Jabalpur - 482 008  
Represented By Its MD  
And Others

----- RESPONDENTS

To  
The Hon'ble Chairman and  
his Companion Members of The Hon'ble CERC  
The humble application filed by the Petitioner

**MOST RESPECTFULLY SHOWETH**

- 1.0 The Petitioner herein, Power Grid Corporation of India Ltd. is a Government Company within the meaning of Companies Act, 1956. In exercise of powers under sub-section (1) of section 38(1) the Electricity Act 2003, the Government of India has declared the Petitioner herein as the Central Transmission Utility (CTU). The petitioner being CTU is deemed to be a transmission licensee under section 14 of the Electricity Act' 2003.
- 2.0 That, Hon'ble Commission have issued Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 vide notification dated 07.03.2019. These



regulations shall remain in force for a period of 5 years w.e.f. 01.04.2019, unless reviewed earlier or extended by the Hon'ble Commission.

- 3.0 That the instant petition covers submission of Truing up of Transmission tariff for 2014-19 tariff block and Determination of Transmission tariff for 2019-24 tariff block for 2 Nos 400kV line Bays at Parli(POWERGRID) Switching Station (for Parli new(TBCB)-Parli(POWERGRID) 400kV D/C(Quad) line under TBCB) and 2 Nos 765kV line Bays at Solapur(POWERGRID) Station (for Parli new(TBCB)-Solapur(POWERGRID) 765kV D/C line under TBCB route) under "POWERGRID works associated with Western Region Strengthening Scheme XV" **for the approval by the Hon'ble Commission.** The subject asset has been declared under commercial w.e.f. 27.04.2018.
- 4.0 That the final Transmission Tariff based on admitted capital cost of Rs 2803.53 Lakhs as on COD and projected add cap of Rs 738.36 lakh during 2014-19 for the instant asset of the said transmission system, has been approved by the Hon'ble Commission vide its order dated 26.10.2016 in petition No.: 196/TT/2017 for the tariff period 2014 – 2019 up to 31.03.2019. Copy of the order is enclosed s **Encl-1.**

Approved Cost	Admitted Cost as on COD	Add Cap	Total cost as on 31.03.19
		2018-19	
4655.65	2803.53*	738.36	3541.90

\*After restriction of IDC/IEDC of ₹50.77 Lakhs on account of time over-run and after adjustment of accrual IDC discharged after DOCO.

5.0 **TRANSMISSION TARIFF**

- 5.1 The 2014-19 truing up exercise is to be done at the time of filing tariff petition for next block, i.e. 2019-24 period as per regulation 8 (1) of Tariff Regulation 2014-19.

Regulation 8 (1) of Tariff Regulation 2014-19:

**Quote**

"The Commission shall carry out truing up exercise along with the tariff petition filed for the next tariff period, with respect to the capital expenditure including additional capital expenditure incurred up to 31.3.2019, as admitted by the Commission after prudence check at the time of truing up:

**Unquote**

- 5.2 In view of the above, following has been carried out in this petition:

- (i) Truing up Transmission tariff for 2014-19 block: Truing up of Transmission tariff for the block 2014-19 on account of the additional capital expenditure during 2014-19 block under Regulation-8 of CERC (Terms and Conditions of Tariff) Regulations, 2014, for the tariff block 2014-19





And

(ii) Transmission tariff for 2019-24 block: Approval under regulation-86 of CERC (Conduct of Business) Regulations'1999 and CERC (Terms and Conditions of Tariff) Regulations' 2019 for determination of Transmission tariff for the tariff block 2019-24 for the asset covered under this petition.

5.3 That the Petitioner is required to adjust the yearly impact of MAT as per regulation 25 (3) of the tariff Regulation 2014-19 period dated 21.02.2014 in the truing up petition for 2014-19 tariff block.

Regulation 25 (3) of the tariff Regulation 2014-19:

**Quote**

The generating company or the transmission licensee, as the case may be, shall true up the grossed up rate of return on equity at the end of every financial year based on actual tax paid together with any additional tax demand including interest thereon, duly adjusted for any refund of tax including interest received from the income tax authorities pertaining to the tariff period 2014-15 to 2018-19 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 of return on equity after truing up, shall be recovered or refunded to beneficiaries or the long term transmission customers/DICs as the case may be on year to year basis.

**Unquote**

5.4 It is submitted that the Income Tax assessment of the Petitioner has been completed and Assessment Orders has been issued by the Income Tax Department in case of 2014-15 & 2015-16 and that the Income Tax returns have been filed with the Income Tax Department for the years 2016-17 & 2017-18. Further, it is submitted that the Income Tax Return for 2018-19 will be filed in due course.

As such, basis of year wise effective tax rate and Grossed up ROE trued up accordingly for the block period 2014-19 is summarized as under.

Financial Year	Basis considered	Total Tax & Interest paid (Rs)	Assessed MAT Income under Sec 115 JB (Rs)	Effective Tax percentage	Grossed up ROE (Base rate/(1-t))
2014-15	Assessment Order	12855779150	61166531144	21.0177%	19.625
2015-16	Assessment Order	15792350695	73858448315	21.3819%	19.716
2016-17	Actual tax paid	20029436701	93865565766	21.3384%	19.705
2017-18	Actual tax paid	22031688181	103255490803	21.3371%	19.704
2018-19	Applicable Rate #		#	21.5488%	19.758



# Based on the applicable rates of MAT @ 18.5 %, Surcharge @ 12% & Cess @ 4%

The above Effective Tax percentage shall be applied by the petitioner in arriving out the Grossed up ROE rate in all cases of truing up petitions to be filed for the period 2014-19. It is submitted that effective rate of tax considered for FY 2014-15 and 2015-16 are based on Assessment Order issued by Income-Tax authorities, for the purpose of grossing up of ROE rate and that the effective rate of tax considered for F/Y 20 16-17 and F/Y 2017-18 are based on the Income-tax returns filed, for the purpose of grossing up of ROE rate of respective years. Further, for F/Y 2018-19, pending filing of ITR, effective tax rate is calculated based the applicable MAT rate (i.e. MAT 18.50% + Surcharge 12.00% + Cess 4%), for the purpose of grossing up of ROE rate.

The Hon'ble Commission is requested to allow the petitioner to claim the differential tariff on account of the trued up ROE based on effective tax rate calculated on completion of Income-tax assessment/re-assessment for the F/Y 2014-15, 2015-16, 2016-17, 2017-18 and 2018-19 on receipt of the respective assessment orders, directly from the beneficiaries, on year to year basis as provided in the regulation.

In line with above Regulation, the tariff for each year of the tariff period 2014-19 block has been trued up considering the above Effective Tax percentage to arrive at Grossed up ROE rate.

- 5.5 While filing Tariff petition for 2014-19 period, the petitioner had prayed for allowing the floating rate of Interest on loan adjustments. As per Hon'ble Commission order dated 30.12.2015 in petition no. 435/TT/2014, it has been stated that the weighted average rate of IoL has been considered on the basis of rate prevailing as on 1.4.2014 and accordingly, the floating rate of interest on actual, applicable from time to time, if any, during 2014-19 tariff shall be considered at the time of true up or next revision of tariff.
- 5.6 That in the present petition, truing up of transmission tariff for the tariff block 2014-19 on account of actual additional capitalization during 2014-19 tariff block, change in MAT rate as well as floating rate of interest during 2014-19 is being carried out.
- 5.7 The details of underlying assumptions for additional capitalization during the period 2014-19 are summarized as follows:

The admissibility of additional capital expenditure (Add Cap) incurred after DOCO and up to cut-off date is to be dealt in accordance with clause 1, sub clause (i) of Regulation 14 of 2014 Tariff Regulations and the admissibility of Additional Capital Expenditure (Add Cap) incurred after Cut-Off date is to be dealt in accordance with clause 3, sub clause (i) of Regulation 14 of 2014 Tariff Regulations. That in the instant asset, additional capital expenditure (Add Cap) is within cut-off date and is accordingly claimed as per clause 1, sub clause (i) of Regulation 14 of 2014 Tariff Regulations.



5.8 The Assets wise details of cost as on COD and actual additional capitalization as incurred during 2014-19 as per Auditor certificates for asset covered in this petition have is summarized below:

(Rs. In Lakhs)

Approved Cost	Actual Cost as on COD	Add Cap for FY 2018-19	Total cost as on 31.03.19
4655.65	2914.65	768.91	3683.56

A copy of auditor's certificate in respect of the assets covered in this petition is enclosed herewith as **Encl-2**.

Details of IDC discharged up to DOCO, discharged during 2018-19 are tabulated below:

(₹ in lakhs)

DOCO	IDC as per certificate	IDC Discharged upto DOCO	Accrual IDC Discharged in FY 2018-19
27.04.2018	94.12	0.00	94.12

It is submitted that IDC on cash basis for the asset is enclosed as **Encl-3**.

The Hon'ble Commission is requested to kindly allow IDC on the basis of cash outflow. It is further submitted that the accrued IDC discharged during 2018-19 has not been included in the add cap expenditure for the respective year for subject asset as per auditor certificate.

It is submitted that the entire IDC has been discharged during FY 2018-19.

It is submitted that the transmission tariff has been recalculated with the claim of IDC on cash basis and undischarged IDC on the date of commercial operation has been reduced from the expenditure up to DOCO and claimed as add-cap during the respective year i.e 2018-19.

Further entire IEDC amount mentioned in the auditor certificate is on cash basis and is paid up to DOCO for both the assets.

Accordingly the revised cost for each asset on which the tariff is calculated is tabulated as below

(₹ in lakhs)

Expenditure	Building	Substation	PLCC	IT	Total
As per auditor certificate (upto DOCO)	180.52	2469.76	97.42	166.95	<b>2914.65</b>
<b>Less: Accrual IDC upto DOCO</b>	5.83	79.75	3.15	5.39	<b>94.11</b>
<b>Less: IDC/IEDC disallowed</b>	1.05	14.41	0.57	0.97	<b>17.00</b>
<b>Exp. Upto DOCO excluding accrual IDC</b>	<b>173.64</b>	<b>2375.61</b>	<b>93.71</b>	<b>160.59</b>	<b>2803.54</b>
Expenditure 2018-19 as per auditor certificate	314.84	439.42	14.65	0.00	<b>768.91</b>



<b>Add:</b> Accrual IDC upto DOCO (Discharged during 2018-19)	5.83	79.75	3.15	5.39	<b>94.11</b>
<b>Less:</b> IDC/IEDC disallowed	2.09	28.62	1.13	1.93	<b>33.77</b>
<b>Total Add-cap in 2018-19</b>	<b>318.58</b>	<b>490.55</b>	<b>16.67</b>	<b>3.46</b>	<b>829.25</b>
Estimated Add-cap 2019-20	279.25	133.86	0.33	0	413.44
<b>Estimated Add-cap 2020-21</b>	<b>31.03</b>	<b>14.88</b>	<b>0.03</b>	<b>0</b>	<b>45.94</b>
<b>Total estimated completion cost</b>	<b>802.50</b>	<b>3014.90</b>	<b>110.73</b>	<b>164.04</b>	<b>4092.17</b>

- 5.9 That the asset has been commissioned on 27.04.2018, accordingly, cut-off date is 31.03.2021. Thus add cap during 2018-19, 2019-20 and 2020-21 is within the cut-off date.

Add-cap incurred during the year 2018-19, 2019-20 and 2020-21 is on account of Balance and retention payments due to undischarged liability for works executed within cut-off date. The details of underlying reasons for additional capitalization for above assets are given in Form - 7. Hon'ble commission is requested to accord the same.

- 5.10 Initial Spares of ₹194.66 lakhs have been admitted under Sub Station head vide order dated 15.11.2018 in Petition no. 40/TT/2018. The same admitted amount of initial spares has been used for computation of tariff. Hon'ble Commission is requested to allow the same.

6.0 **Tariff for 2014-19 period**

- 6.1 The Revised transmission tariff for block 2014-19 has been worked out on account of Truing up of the additional capitalization as per CERC (Terms and Conditions of Tariff) Regulations, 2014. In the present petition the transmission tariff has been calculated taking actual additional capitalization during 2014-19 block.

The trued up annual transmission tariff for the tariff period 2014-19 is summarized as below:

Rs in Lakh		
FY	Annual Fixed Charges approved	Revised AFC based on truing up
<b>2018 - 19</b>	803.55	827.13

The tariff for block 2014-19 has been worked out as per Annexure-I, Part III of the tariff regulations for period 2014-19 and the Tariff Filing Formats along with the other relevant information and supporting documentation are attached hereto as **Encl-4**.

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



Gross Block amount as per Books for arriving at the figures to be provided in various Tariff Forms.

#### 7.0 Tariff for 2019-24 period

That as per regulation 8(1) (i), 14 (5) and regulation 15 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019, the tariff for transmission of electricity on 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. The tariff for block 2019-24 has been worked out as per Annexure-I, Part III of the tariff regulations for period 2019-24 and the Tariff Filing Formats along with the other relevant information and supporting documentation (if any) are attached hereto as **Encl-4**.

The capital cost of Rs 3632.79 lakh as on 31.03.2019 has been considered for computation of 2019-24 block. Further, details of add cap projected during 2019-24 tariff block is furnished below:

Approved Cost (FR)	Capital Cost as on 31.03.2019	Projected Actual Add Cap for		Total estimated cost
		2019-20	2020-21	
4655.65	3632.79*	413.44	45.94	4092.17

Rs in Lakh

\*After restriction of disallowed IDC/IEDC of ₹50.77 Lakhs on account of time overrun.

Further, additional capital expenditure (Add Cap) projected to be incurred during 2019-20 and 2020-21 is within cut-off date and is accordingly claimed as per clause 1, sub clause (a) of Regulation 24 of 2019 Tariff Regulations.

#### Quote

24. Additional Capitalisation within the original scope and upto the cut-off date:

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

(a) Undischarged liabilities recognized to be payable at a future date;

.....

#### Unquote

The additional Capitalization incurred in the contextual assets is on account of any undischarged liability towards final payment/withheld payment due to contractual exigencies for works executed within the cut-off date.



The tariff for 2019-24 tariff block is summarized below :

	2019-20	2020-21	2021-22	2022-23	2023-24
Annual Fixed Charges	792.22	817.03	809.61	798.82	788.12

Rs in Lakh

- 7.1 The asset shall complete 12 years beyond 2019-24 block thus depreciation has been calculated annually based on Straight Line Method and at rate specified in Appendix-I as per clause 33(5) of the CERC Tariff regulations 2019. The details have been computed and are provided in Form- 10 A.
- 7.2 That, it is submitted that the petitioner being liable to pay income tax at MAT rate, the ROE has been calculated @19.758% after grossing up the ROE with MAT rate of 21.5488% based on the rate prescribed by the Hon'ble Commission as per illustration under regulation 31 (2) (ii) of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 during 2019-24 period. That as per clause 31 (3) of the above regulation, the grossed up rate of ROE at the end of every financial year shall be trued up based on actual tax paid together with any additional tax demand including interest thereon duly adjusted for any refund of tax including interest received from the IT authorities pertaining to the tariff period 2019-24 on actual gross income of any financial year. However, penalty, if any, arising on account of delay in deposit or short deposit of tax amount shall not be claimed by the generating company or the transmission licensee, as the case may be. Any under-recovery or over-recovery of grossed up rate on 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 2019-24 year to year basis on receipt of Income Tax assessment order.
- 7.3 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 10.0 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.
- 7.4 In the tariff calculation for 2014-19 period, Interest on Loan has been calculated on the basis of actual rate of interest of various loans deployed for each year. In the tariff calculation for 2019-24 period, Interest on Loan has been calculated on the basis of interest rates prevailing as on 01.04.2019 for respective loans. The change in Interest rate due to floating rate of



interest applicable, if any, for the project needs to be claimed / adjusted over the tariff block of 05 years directly from / with the beneficiaries.

For the purpose of the supporting documents for rate of interest, a compendium of floating rates of interest of various loans during the tariff period 2014-19 has been submitted along with the truing up petition of 400kV D/C Korba-Raipur TL with Petition no. 244/TT/2019. These documents/details are also available on our website [www.powergridindia.com](http://www.powergridindia.com).

- 7.5 The transmission charges at para-7.0 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 35 (3) (a) of the tariff regulations for block 2019-24.
- 7.6 That as per regulation 35(3)(c) of CERC tariff regulation 2019, the Security Expenses and Capital Spares for transmission system shall be allowed separately after prudence check. In this regard it is submitted that a separate petition shall be filed before Hon'ble Commission for claiming the overall Security Expenses and consequential Interest On Working Capital (IOWC) on the same. It is proposed to consider actual security expense of 2018-19 for claiming estimated Security Expenses for 2019-20 which shall be subject to true up at the end of the year based on actual expenses. Thus petition for Security Expenses shall be filed on year to year basis with annual True up. Similarly petition for security expenses for 2020-21, 2021-22, 2022-23 and 2023-24 shall be filed on the basis of actual expenses of previous year subject to true up at the end of the year on actual expenses. The difference, if any, between the Estimated Security Expenses and Actual Security Expenses calculated as per audited accounts, on year to year basis may be allowed to recover from beneficiaries. Further, the capital spares shall be claimed by the petitioner at the end of tariff block as per actual. Accordingly, these expenses are not claimed in the subject petition through the relevant Tariff Form and shall be claimed separately in a separate petition along with all other assets.
- 7.7 The application filing fee, expenses incurred on publication of Notices in News papers and License fee may be allowed to be recovered separately from the respondents in terms of Regulation 70(1) of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019. 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 70 (3) of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019.
- 7.8 The Transmission Charges and other related Charges indicated at para 7.0 above, is exclusive of incentive, late payment surcharge, FERV, any statutory taxes, levies, duties, cess, filing fees, license fee, RLDC fees and charges 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 beneficiaries



to the petitioner and the same shall be charged, billed separately by the petitioner on the beneficiaries.

**8.0 Sharing of Transmission Charges**

- 8.1 The transmission charges for 2014-19 period shall be recovered on monthly basis in accordance with Regulation 42 and shall be shared by the beneficiaries in accordance with regulation 43 of CERC (Terms and Conditions of Tariff) Regulations, 2014 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, 2010 dated 15.06.2010 and amendment to these Regulations issued vide order dated 30.11.2012 or as amended from to time.
- 8.2 Tariff for Transmission of Electricity (Annual Fixed Cost) for 2019-24 as per para 7.0 above shall be recovered on monthly basis in accordance with Regulation 57 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 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, 2010 dated 15.06.2010 and amendment to these Regulations issued vide order dated 30.11.2012 or as amended from to time.

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 in para 7.0 above. The Petitioner submits that the Encl.-1 to Encl.-5 may please be treated as integral part of this petition.

**PRAYER**

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

- 1) Allow the addcap for 2014-19 and 2019-24 tariff block as claimed as per Para 5 and 7 above.
- 2) Approve the trued up Transmission Tariff for 2014-19 block and transmission tariff for 2019-24 block for the assets covered under this petition, as per para 5 and 6 above.
- 3) 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 Hon'ble Commission as provided in Tariff Regulation 2014 and Tariff regulations 2019 as per para 5 and 6 above for respective block.



wa  
/



- 4) Approve the reimbursement of expenditure by the beneficiaries towards petition filing fee, and expenditure on publishing of notices in newspapers in terms of Regulation 70 (1) Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019, and other expenditure (if any) in relation to the filing of petition.
- 5) Allow the petitioner to bill and recover Licensee fee and RLDC fees and charges, separately from the beneficiaries in terms of Regulation 70 (3) and (4) Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019.
- 6) 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 2019-24 period, if any, from the beneficiaries.
- 7) 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 6.6 above.
- 8) Allow the petitioner to claim the capital spares at the end of tariff block as per actual.
- 9) Allow the Petitioner to bill and recover GST on Transmission Charges separately from the beneficiaries, if GST on transmission is withdrawn from negative list at any time in future. Further, any taxes including GST and duties including cess etc. imposed by any statutory/Govt./municipal authorities shall be allowed to be recovered from the beneficiaries.

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

**Gurgaon**

**Dated: 23.09.2019**

**Filed by  
Power Grid Corporation of India Ltd**

**Represented by**

**Zafrul Hasan  
Dy. General Manager (Commercial)**



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

**IN THE MATTER OF**

Approval under regulation-86 of CERC (Conduct of Business) Regulations'1999 and CERC (Terms and Conditions of Tariff) Regulations, 2014 and CERC (Terms and Conditions of Tariff) Regulations' 2019 for

- (i) Truing up of Transmission tariff for 2014-19 tariff block and
- (ii) Determination of Transmission tariff for 2019-24 tariff block

For 2 Nos 400kV line Bays at Parli(POWERGRID) Switching Station (for Parli new(TBCB)-Parli(POWERGRID) 400kV D/C(Quad) line under TBCB) and 2 Nos 765kV line Bays at Solapur(POWERGRID) Station (for Parli new(TBCB)-Solapur(POWERGRID) 765kV D/C line under TBCB route) under "POWERGRID works associated with Western Region Strengthening Scheme XV"

**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

**Madhya Pradesh Power Management Company Ltd.**

Shakti Bhawan, Rampur

Jabalpur - 482 008

Represented By Its MD

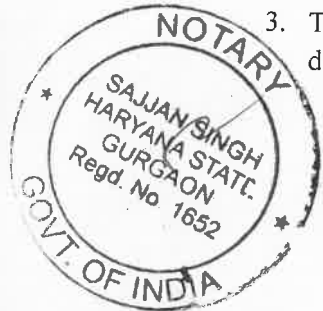
And Others

--- RESPONDENTS

**Affidavit**

I, Zafrul Hasan, S/O late Sh Zahurul Hasan, working as Dy. General Manager (Commercial) 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 I am the Dy. General Manager (Commercial) of Power Grid Corporation of India Ltd., the representative of the Petitioner in the above matter, and am duly authorized to make this affidavit.
2. That the enclosed tariff Petition is being filed for determination of Truing up Transmission tariff for 2014-19 tariff block and Transmission tariff for 2019-24 tariff block 2 Nos 400kV line Bays at Parli(POWERGRID) Switching Station (for Parli new(TBCB)-Parli(POWERGRID) 400kV D/C(Quad) line under TBCB) and 2 Nos 765kV line Bays at Solapur(POWERGRID) Station (for Parli new(TBCB)-Solapur(POWERGRID) 765kV D/C line under TBCB route) under "POWERGRID works associated with Western Region Strengthening Scheme XV". in Western Region
3. That no other tariff Petition except this petition has been filed directly or indirectly for determination of Truing up Transmission tariff for 2014-19 tariff block and Transmission



tariff for 2019-24 tariff block 2 Nos 400kV line Bays at Parli(POWERGRID) Switching Station (for Parli new(TBCB)-Parli(POWERGRID) 400kV D/C(Quad) line under TBCB) and 2 Nos 765kV line Bays at Solapur(POWERGRID) Station (for Parli new(TBCB)-Solapur(POWERGRID) 765kV D/C line under TBCB route) under "POWERGRID works associated with Western Region Strengthening Scheme XV".

4. That the statements made in the tariff Petition herein are based on petitioner company's official records maintained in the ordinary course of business and I believe them to be true and correct.
5. The documents attached with the petition are legible copies and duly attested by me

*[Handwritten Signature]*

(DEPONENT)

### VERIFICATION

Solemnly affirmed at Gurgaon on this 23<sup>rd</sup> day of September'2019 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.

*[Handwritten Signature]*

(DEPONENT)



ATTESTED  
*[Handwritten Signature]*  
24/9/19

SAJJAN SINGH  
ADVOCATE & NOTARY  
AT GURGAON

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

**IN THE MATTER OF:** Approval under regulation-86 of CERC (Conduct of Business) Regulations'1999 and CERC (Terms and Conditions of Tariff) Regulations, 2014 and CERC (Terms and Conditions of Tariff) Regulations' 2019 for

- (i) Truing up of Transmission tariff for 2014-19 tariff block and
- (ii) Determination of Transmission tariff for 2019-24 tariff block

For 2 Nos 400kV line Bays at Parli(POWERGRID) Switching Station (for Parli new(TBCB)-Parli(POWERGRID) 400kV D/C(Quad) line under TBCB) and 2 Nos 765kV line Bays at Solapur(POWERGRID) Station (for Parli new(TBCB)-Solapur(POWERGRID) 765kV D/C line under TBCB route) under "POWERGRID works associated with Western Region Strengthening Scheme XV"

Power Grid Corporation of India Ltd.

-- PETITIONER

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

**Corporate office:** "Saudamini", Plot no.2,  
Sector-29, Gurgaon -122 001. (Haryana)

Madhya Pradesh Power Management Company Ltd.

-- RESPONDENTS

Shakti Bhawan, Rampur  
Jabalpur - 482 008

Represented By Its M. D  
And Others

**MEMO OF APPEARANCE**

POWER GRID CORPORATION OF INDIA LTD.

--- PETITIONER

1. ABHAY CHAUDHARY, ED, POWERGRID
2. J. MAZUMDAR, CHIEF GM, POWERGRID
3. AKSHAY KUMAR VERMA, SENIOR GM, POWERGRID
4. S. S. RAJU, SENIOR GM, POWERGRID
5. MANJU GUPTA, SENIOR GM, POWERGRID
6. V. SRINIVAS, SENIOR GM, POWERGRID
7. ZAFRUL HASAN, DGM, POWERGRID
8. AMIT BHARGAVA, GM, POWERGRID



**PETITIONER**

**Power Grid Corporation of India Ltd.**

Represented By

**Zafrul Hasan**

**DGM (Commercial)**



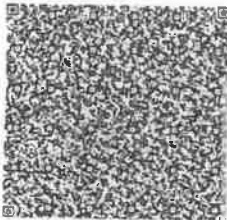
सत्यमेव जयते

# INDIA NON JUDICIAL

## Government of National Capital Territory of Delhi

### e-Stamp

Certificate No.	: IN-DL67576487607330Q
Certificate Issued Date	: 21-Aug-2018 01:23 PM
Account Reference	: IMPACC (IV)/ dl732103/ DELHI/ DL-DLH
Unique Doc. Reference	: SUBIN-DL73210339253184131291Q
Purchased by	: POWER GRID CORPORATION OF INDIA LTD
Description of Document	: Article 48(c) Power of attorney - GPA
Property Description	: Not Applicable
Consideration Price (Rs.)	: 0 (Zero)
First Party	: POWER GRID CORPORATION OF INDIA LTD
Second Party	: Not Applicable
Stamp Duty Paid By	: POWER GRID CORPORATION OF INDIA LTD
Stamp Duty Amount(Rs.)	: 50 (Fifty only)



.....Please write or type below this line.....

### POWER OF ATTORNEY

Be it known to all that Power Grid Corporation of India Ltd. (A Govt. of India Enterprise), a Company incorporated under the Companies Act, 1956 having its Registered Office at **B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi - 110 016** (hereinafter called "Company") do hereby constitute and appoint Shri Zafrul Hasan, Chief Manager, (Commercial) of Corporate Centre of the Company as its lawful Attorney (hereinafter called the 'Attorney') to do all or any of the acts or things, hereinafter mentioned that is to say:-



#### Statutory Avert

- 1 The authenticity of the e-Stamp Certificate should be verified at [www.shrestamp.com](http://www.shrestamp.com). Any discrepancy in the details on this Certificate and as available on the website of the Competent Authority should be reported to the Competent Authority.
- 2 The grant of the e-Stamp Certificate is on the users of the certificate.
- 3 In case of any discrepancy, please inform the Competent Authority.

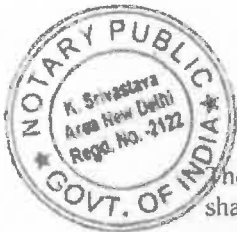
16A

1. To institute, defend, argue and conduct petitions, sign and verify petitions, written statements, written submissions and to file the same before the Supreme Court/ High Court/ Central Electricity Regulatory Commission (CERC)/ State Electricity Regulatory Commission(s) (SERCs)/Appellate Tribunal for Electricity.
2. To appear, act and plead before the Supreme Court/ High Court/ CERC/ SERCs/Appellate Tribunal for Electricity.
3. To compromise, compound or withdraw cases filed before the Supreme Court/ High Court/ CERC/ SERCs/Appellate Tribunal for Electricity.
4. To file petitions or affidavits before the Supreme Court/ High Court/ CERC/SERCs/Appellate Tribunal for Electricity and to obtain the copies of documents, papers, records etc.
5. To apply for the inspection of the records of the proceedings of the Supreme Court/ High Court/ CERC/SERCs/Appellate Tribunal for Electricity.
6. To issue notices and accept service of any summons, notices or orders issued by the Supreme Court/ High Court/ CERC/SERCs/Appellate Tribunal for Electricity on behalf of the Company.
7. To sign the appeals, petition, etc. arising out of any summons, notices, or orders issued by the Supreme Court/ High Court/ CERC/SERCs/Appellate Tribunal for Electricity on behalf of the Company.
8. Generally to do all lawful acts necessary for the above mentioned purposes.

The company hereby agrees to ratify and confirm all and whatsoever the said Attorney shall do lawfully or cause to be done and by virtue of this Power of Attorney.

This authorization is in addition to the existing authorization granted to certain officers for the above purposes.

IN WITNESS WHEREOF, the Company in pursuance of the Resolution of the Board of Directors of the Company passed on 9<sup>th</sup> November, 1990 has under the hands of its Chairman & Managing Director, executed these presents under the Common Seal of the Company on this 15<sup>th</sup> day of October, 2018.



Attested as Identified

Notary Public Delhi (India)

**WITNESSES:**

18 OCT 2018

*Divya Tandon*  
DIVYA TANDON  
Company Secretary  
POWERGRID

*Rajeev Kumar*  
रजिव कुमार चौधरी / Rajeev Kumar Chauhan  
निदेश (ऑपरेशन) / Deewan (Operation)  
पावरग्रिड / Powergrid

16 B

Signed for and on behalf of  
Power Grid Corporation of India Ltd.

*I. S. Jha*  
(I. S. Jha)  
Chairman and Managing Director

आई.एस. झा / I. S. JHA  
अध्यक्ष व प्रबन्ध निदेशक  
Chairman & Managing Director  
पावरग्रिड / POWERGRID

*Ravi Prakash Singh*  
रवि प्रकाश सिंह  
RAVI P SINGH  
निदेश (HR) / Deewan (Personnel)  
पावरग्रिड / POWERGRID



**CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

**Petition No. 40/TT/2018**

**Coram:**

**Shri P.K. Pujari, Chairperson  
Dr. M. K. Iyer, Member**

**Date of Order: 15.11.2018**

**In the matter of:**

Approval under Regulation- 86 of CERC (Conduct of Business) Regulations, 1999 and CERC (Terms and Conditions of Tariff) Regulations, 2014 for determination of Transmission Tariff from anticipated DOCO to 31.03.2019 for Asset-1: 2 Nos 400kV line Bays at Parli (POWERGRID) Switching Station (for Parli new (TBCB)-Parli (POWERGRID) 400kV D/C (Quad) line under TBCB) and Asset-2: 2 Nos 765kV line Bays at Solapur (POWERGRID) Sub Station (for Parli new (TBCB)-Solapur (POWERGRID) 765kV D/C line under TBCB route) under "POWERGRID works associated with Western Region Strengthening Scheme XV" for tariff block 2014-19 period.

**And in the matter of**

Power Grid Corporation of India Limited,  
"Saudamani", Plot No.2,  
Sector-29, Gurgaon -122 001

... Petitioner

**Vs**

1. Madhya Pradesh Power Management Company Ltd.  
Shakti Bhawan, Rampur  
Jabalpur - 482 008
2. Madhya Pradesh Power Transmission Company Ltd.  
Shakti Bhawan, Rampur  
Jabalpur - 482 008
3. Madhyapradesh Audyogik Kendra Vikas Nigam (Indore) Ltd.  
3/54, Press Complex, Agra-Bombay Road,  
Indore-452 008
4. Maharashtra State Electricity Distribution Co. Ltd.



**ATTESTED TRUE COPY**



Order in Petition No.40/TT/2018

Page 1 of 25

from Pg 23-47  
Authorised Signatory

Power Grid Corporation of India Ltd.  
Plot No. 2, Sector-29, Gurgaon-122001 (HARYANA)

Hongkong Bank Building, 3rd Floor  
M.G. Road, Fort, Mumbai-400 001.

5. Maharashtra State Electricity Transmission Co. Ltd.  
Prakashganga, 6<sup>th</sup> Floor, Plot No. C-19, E-Block,  
BandraKurla Complex,  
Bandra (East) Mumbai-400 051.
6. Gujarat UrjaVikas Nigam Ltd.  
Sardar Patel VidyutBhawan,  
Race Course Road, Vadodara - 390 007
7. Gujarat Energy Transmission Corporation Limited  
Sardar Patel VidyutBhawan,  
Race Course Road, Vadodara - 390 007
8. Electricity Department Govt. Of Goa,  
VidyutBhawan, Panaji,  
Near Mandvi Hotel, Goa - 403 001
9. Electricity Department  
Administration Of Daman & Diu  
Daman - 396 210
10. Electricity Department  
Administration Of Dadra Nagar Haveli  
U.T., Silvassa - 396 230
11. Chhattisgarh State Electricity Board  
P.O.Sunder Nagar, Dangania, Raipur  
Chhattisgarh-492 013
12. Chhattisgarh State Power Transmission Co. Ltd.  
Office Of The Executive Director (C&P)  
State Load Despatch Building,  
Dangania, Raipur – 492 013
13. Chhattisgarh State Power Distribution Co. Ltd.  
P.O.Sunder Nagar, Dangania, Raipur  
Chhattisgarh-492 013



.....Respondents



Order in Petition No.40/TT/2018

Page 2 of 25

*mt*



**Parties present:**

**Forpetitioner** : Shri Rakesh Prasad, PGCIL  
Shri S.K. Niranjana, PGCIL  
Shri V.P. Rastogi, PGCIL  
Shri S. K. Venkatesan, PGCIL  
Shri S. S. Raju, PGCIL  
Shri B. Dash, PGCIL  
Shri AmitYadav, PGCIL

**For respondent** :None

**ORDER**

The present petition has been filed by Power Grid Corporation of India Ltd. ("PGCIL") seeking approval of transmission tariff for Asset-1: 2 Nos 400kV line Bays at Parli(POWERGRID) Switching Station (for Parli new(TBCB)-Parli(POWERGRID) 400kV D/C(Quad) line under TBCB) and Asset-2: 2 Nos 765kV line Bays at Solapur (POWERGRID) Station (for Parli new(TBCB)-Solapur (POWERGRID) 765kV D/C line under TBCB route)(hereinafter referred to as "transmission system") under "POWERGRID works associated with Western Region Strengthening Scheme XV" for 2014-19 tariff period under the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014 (hereinafter referred to as "2014 Tariff Regulations").

2. The petitioner has made the following prayers:-

- i. Admit the capital cost as claimed in the petition and approve the Additional Capitalization incurred/ projected to be incurred.
- ii. Approve the Transmission Tariff for the tariff block 2014- 19 block for the assets covered under this petition.
- iii. Tariff may be allowed on the estimated completion cost.



Order in Petition No.40/TT/2018



Page 3 of 25

- iv. 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 under clause: 25 of the Tariff Regulations, 2014.
  - v. Approve the reimbursement of expenditure by the beneficiaries towards petition filing fee, expenditure on publishing of notices in newspapers in terms of Regulation: 52 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014 and other expenditure (if any) in relation to the filing of petition.
  - vi. Allow the petitioner to bill and recover Licensee fee and RLDC fees and charges, separately from the respondents in terms of Regulation: 52 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014.
  - vii. Allow 90% of the Annual Fixed Charges as tariff in accordance with clause 7 (i) of Regulation 7 Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014 for purpose of inclusion in the PoC charges.
  - viii. Allow the petitioner to bill Tariff from actual DOCO.
  - ix. Allow the petitioner to bill and recover GST on Transmission charges separately from the respondents, if GST on Transmission of electricity is withdrawn from the exempted (negative) list at any time in future. Further any taxes and duties including cess, etc. imposed by any Statutory/Govt./Municipal Authorities shall be allowed to be recovered from the beneficiaries.
  - x. 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.
3. The petitioner has been entrusted with the implementation of "POWERGRID works associated with Western Region Strengthening Scheme XV". The Transmission System was discussed and agreed for implementation in the 24<sup>th</sup> WRPC meeting held at Goa on 9.10.2013. The scheme was approved in the 37<sup>th</sup> and 38<sup>th</sup> Standing Committee meeting of Western Region held on 5.9.2014 and 17.7.2015 respectively. The Investment Approval (IA) for implementation of instant Transmission System was accorded by the Board of Directors of the petitioner in the



327<sup>th</sup> meeting dated 2.4.2016 and the same was conveyed vide Memorandum no. C/CP/IA/WRSS-XV dated 6.4.2016 at an estimated cost of ₹46.57 crores including IDC of ₹2.65 crores based on October, 2015 price level.

4. The scope of work covered under the instant transmission system is as follows:-

**SUB-STATION**

**(i) Extension of 765 kV Solapur (POWERGRID) substation.**

- 765 kV line bays: 2 Nos.  
(for Parli New (TBCB)-Solapur (POWERGRID) 765kV D/C line under TBCB route)

**(ii) Extension of 400 kV Parli (POWERGRID) Switching station**

- 400 kV Line bays: 2 Nos.  
(for Parli New (TBCB)-Parli (POWERGRID) 400 kV D/C (quad) line under TBCB route)

The entire scope of the transmission system is covered under the instant petition.

5. Details of the assets covered under instant petition is furnished below:-

Asset	Details of assets as per Petition being filed	Scheduled DOCO	Actual DOCO
Asset-1	2 Nos 400kV line Bays at Parli (POWERGRID) Switching Station (for Parli new(TBCB)-Parli(POWERGRID) 400kV D/C(Quad) line under TBCB)	02.02.2018	27.4.2018
Asset-2	2 Nos 765kV line Bays at Solapur(POWERGRID) Station (for Parli new(TBCB)-Solapur(POWERGRID) 765kV D/C line under TBCB route)		

6. The petitioner had initially claimed the tariff for Asset-1 and Asset-2 separately



Order in Petition No.40/TT/2018

Page 5 of



on the basis of the affidavit dated 1.1.2018 as anticipated COD. Later, vide affidavit dated 17.9.2018, it has filed the revised tariff forms based on the actual COD i.e. 27.4.2018, combining both the assets as a single asset. Accordingly, the tariff has been determined in the instant order with respect to a single combined asset.

7. The details of the transmission charges claimed by the petitioner vide affidavit dated 17.9.2018 are as under:-

(₹in lakh)	
Particulars	2018-19
Depreciation	152.04
Interest on Loan	149.65
Return on Equity	175.02
Interest on Working Capital	25.13
O&M Expenses	306.00
<b>Total</b>	<b>807.84</b>

8. The details of the interest on working capital claimed by the petitioner are as under:-

(₹in lakh)	
Particulars	2018-19
Maintenance Spares	49.47
O&M expenses	27.49
Receivables	145.09
<b>Total</b>	<b>222.05</b>
<b>Interest (pro-rata)</b>	<b>25.13</b>
Rate of Interest	12.20%



9. The petitioner has served the petition on the respondents and notice of this application has been published in the newspapers in accordance with Section 64 of the Electricity Act, 2003. No comments or suggestions have been received from the general public in response to the notices published by the petitioner under Section 64 of the Electricity Act, 2003. Madhya Pradesh Power Management Company Limited (MPPMCL) has filed a reply vide affidavit dated 17.2.2018. In response, the petitioner has filed its rejoinder vide affidavit dated 13.3.2018. The issues raised by



MPPMCL and the clarifications given by the petitioner are addressed in the relevant paragraphs of this order.

10. This order has been issued considering the submissions made by the petitioner in the petition dated 14.11.2017 and subsequent affidavits dated 2.2.2018, 9.3.2018, 13.3.2018, 23.4.2018, 23.5.2018, 17.9.2018 and reply filed by MPPMCL vide affidavit dated 17.2.2018.

11. Having heard the representatives of the petitioner present at the hearing and perused the material on record, we proceed to dispose of the petition.

**Date of Commercial Operation ("COD")**



12. As per affidavit dated 17.9.2018, petitioner has claimed 27.4.2018 as COD. In this regard, the petitioner has submitted self-declaration COD letter dated 6.7.2018, CEA certificate dated 20.3.2018 and 28.3.2018 under Regulation 43 of CEA (Measures relating to safety and electric supply) Regulations, 2010, WRLDC certificate dated 29.6.2018 and 6.7.2018 in accordance with Regulation 6.3A (5) of CERC (Indian Electricity Grid Code) Regulations, 2010 and CMD certificate as required under Grid Code.

13. Taking into consideration the RLDC certificate, CEA certificate and CMD certificate, the COD of the instant asset is approved as 27.4.2018 and considered for the purpose of tariff computation. Thus, tariff is worked out from 27.4.2018 to 31.03.2019.



## Capital Cost

14. The details of capital cost claimed by the petitioner for the instant asset is as follows:-

Approved apportioned cost (FR)	Estimated expenditure up to COD	Projected Exp. for FY		Estimated completion cost
		2018-19	2019-20	
4655.65	2914.65	678.01	489.72	4082.38

15. The estimated completion cost of the assets within the FR apportioned approved cost. Thus, there is no cost over-run but a downward cost variation of ₹573.27 lakh (12.31%).

16. Respondent no.1, MPPMCL vide affidavit dated 17.2.2018 has submitted that there is an excess expenditure of ₹86.31 lakh on telecom as mentioned at S.no 6.6 of form-5. It is strange to note that no provision has been made in the original estimate for this expenditure. Further, it is also submitted that there is a proven example of casualness on the part of the petitioner while preparing the estimate and similarly cost of civil works on foundations and structure is much less than estimate and Petitioner is hiding its inefficiency on the plea that it is as per detailed engineering and site requirement. This itself shows casual survey and faulty estimation and accordingly the expenditure incurred on telecom facilities may be disallowed while computing completion cost.

17. In response, petitioner filed its rejoinder dated 13.3.2018 and submitted that the total telecom/PLCC equipment under the project i.e both Solapur and Parli substation extension have been considered in Asset-2 as a lumpsum item in Feasibility Report (FR). This same has been mentioned at Sr No 6.6 in Form 5 of



Asset-2 page no 77 of the petition. However, the telecom/PLCC equipment have been procured for both substations. The comparison of estimated cost and actual cost on telecom/PLCC equipment is given below:-

(₹in lakh)		
Asset	Telecom/PLCC equipment as per FR	Actual expenditure on Telecom/PLCC equipment
Asset-1	138.25	86.31
Asset-2		58.44
<b>Total</b>	<b>138.25</b>	<b>144.75</b>

18. The petitioner has further submitted that as concluded from the table above, there is only marginal difference in the FR cost and actual cost of telecom equipment. Since the total estimated cost of the subject assets is well within the apportioned approved cost of the assets as per FR, the petitioner has requested the Commission to allow the full cost and tariff as claimed under instant petition. It is further submitted that the contracts of Substation packages are awarded in totality which include number of items. Multiple number of bids are received from different vendors through Open Competitive Bidding. Award is made to the lowest evaluated bidder for the substation package as a whole. The item wise comparison of different items under one package with respective cost estimates does not give appropriate results since the actual prices of various items under sub-station package solely depend on how the bifurcation of the total price has been made by the vendor while quoting the prices for different items under complete package. The rates of individual items of vendors are asked, only for the purpose of on account payment and not for any comparison. Further, the total estimated cost of the subject asset is well within the apportioned approved cost of the asset as per FR.



### Analysis/Decision

19. We have considered the submission made by the petitioner and MPPMCL. Against the approved cost of ₹4655.65lakh, the capital expenditure upto COD is ₹2914.65lakh and completion cost including additional capital expenditure is ₹4082.38lakh. Therefore, there is no cost over-run. However, there is a downward cost variation to the tune of ₹573.27 lakh (12.31%). The petitioner vide affidavit dated 17.9.2018 has submitted the reasons for such cost variation in form-5 which are as below:-

(₹ in lakh)

Description	FR	Actual	Difference	Remarks
Foundation for structure	419.81	417.20	2.61	As per detailed Engg. site requirement
Switchgear (CT, PT, Circuit Breaker, Isolator etc.)	1614.11	1604.06	10.04	Cost decreased as per the rates received in competitive bidding
Control , Relay & Protection Panel	326.80	324.76	2.03	There is minor variation in cost due to lower cost received in competitive bidding
PLCC	170.69	169.63	1.06	
Telecom	138.25	137.39	0.86	
Bus Bars/Conductors/Insulators	311.06	309.12	1.94	
Outdoor lighting	14.34	14.25	0.09	
Structure for switchyard	612.13	608.32	3.81	
Auxiliary System	213.14	211.81	1.33	
Overheads	530.00	151.96	378.04	
IDC	265.32	94.11	171.20	During estimation of FR, IDC was considered based on the interest rate of 10.5% of domestic loans. The actual weighted average rate of interest of loans is around 7.43%. The actual IDC accrued upto COD has been





				considered at the time of claim of tariff.
--	--	--	--	--

20. Thus, based on above, it is observed that such downward cost variation is mainly due to lower cost received through competitive bidding for Control, Relay/ Protection Panel, Telecom, Bus Bars/Conductors/Insulators, Auxiliary system etc. and further, lower cost incurred for overheads and IDC in comparison to FR cost. Accordingly, the reduced cost is considered for the grant of tariff.

**Time over-run**

21. As per the Investment Approval, the scheduled completion was within 22 months from the date of approval of Board of Directors. The date of approval of Board of Directors is 2.4.2016. Thus, the scheduled commissioning date comes to 2.2.2018. Against this, the instant asset has been commissioned on 27.4.2018, i.e. with a delay of 84 days.

22. The petitioner vide affidavit dated 17.9.2018 has submitted that the delay of 84 days in commissioning of instant assets is due to delay in commissioning of associated transmission lines that have also been commissioned on 27.4.2018. The Commission vide provisional order dated 5.4.2018, had directed petitioner to submit the details regarding time overrun along with documentary evidences. In response, the petitioner vide affidavit dated 23.4.2018 and 23.5.2018, submitted that these details will be submitted based on actual commissioning of the assets. We have considered the submission made by the petitioner vide affidavit dated 17.9.2018 and found that though the petitioner has submitted the actual date for commissioning of the assets but has not submitted any detailed justification or documentary evidence



for the delay in commissioning. Therefore, we are not inclined to condone the delay of 84 days. Accordingly, the IDC and IEDC shall be allowed only till SCOD, i.e. 2.2.2018.

**Interest During Construction (IDC)**

23. The petitioner has claimed IDC of ₹94.12lakh in respect of the asset. This entire IDC has been claimed on accrual basis. The discharge details of IDC submitted by the petitioner are as under:-

(₹in lakh)		
IDC claimed	IDC discharged till COD	IDC discharged during 2018-19
94.12	NIL	94.12

24. As discussed at para 22 above, IDC is allowed to be capitalised only till 2.2.2018. Accordingly, IDC has been calculated till 2.2.2018, based on the details furnished by the petitioner which amounts to ₹60.35 lakh. It is observed from the submission of the petitioner that no IDC has been discharged till COD and the entire IDC has been projected to be discharged in 2018-19. In line with the same, the entire IDC of ₹60.35 lakh has been allowed in 2018-19 on projected basis, subject to true-up.

**Incidental Expenditure During Construction (IEDC)**



25. The petitioner has claimed ₹151.96lakh as IEDC in respect of the instant asset. In the instant petition, IEDC is indicated as 10.75% of hard cost in the abstract cost estimate. It is observed that the claimed IEDC as on COD is within the percentage on hard cost as indicated in the abstract cost estimate. The petitioner has submitted that the entire IEDC has been discharged as on COD. As such, no



deduction from the claimed IEDC is required on account of claim beyond the allowed limit or unpaid IEDC. However, as discussed at para 22 above, the IEDC in respect of time overrun has not been allowed. Accordingly, considering the time overrun, IEDC has been allowed proportionately amounting to ₹134.96lakh.

**Initial spares**

26. The initial spares claimed by the petitioner vide auditor certificate dated 24.7.2018 submitted vide affidavit dated 17.9.2018 is as follows:-

(₹in lakh)		
Total Cost (Plant and Machinery cost excluding IDC, IEDC, Land cost and cost of civil works for the purpose of initial spares)	Initial Spares claimed	Initial spares as % of capital cost
3244.37	194.64	6.00%

27. Respondent no.1, MPPMCL vide affidavit dated 17.2.2018 has submitted that the cost of initial spares as claimed by the petitioner comes to be 6.38% of cost claimed and this is much higher than cost allowed as per regulation and hence, the same shall be restricted to the limit as mentioned in regulation after computation of admissible completion cost. In response, petitioner filed its rejoinder dated 13.3.2018 and submitted that Commission may allow the initial spares in both the assets under subject petition as per Regulation 13 of 2014 Tariff Regulations.

**Analysis/Decision**

28. We are of the view that the petitioner has claimed initial spares amounting to ₹194.65 lakh (6%), corresponding to substation cost of ₹3244.37 lakh. The details of initial spares allowed upto the ceiling limit of 6.00% for sub-station of the capital cost as specified in the 2014 Tariff Regulations are given below:-



(₹ in lakh)

Particulars	Total Cost(P&M cost excluding IDC,IEDC, Land cost and cost of civil works for the purpose of initial spares) as on cut-off date based on auditors Certificate dated 24.7.2018	Initial spares claimed upto cut-off date	Ceiling limit (%) as per Regulation 13 of the 2014 Tariff Regulation	Initial Spares calculated	Excess initial Spares	Initial Spares Allowed
Substation	3244.37	194.65	6.00%	194.66	0.00	194.65

**Capital Cost allowed as on COD**

29. Based on the discussion in the foregoing section, the capital cost allowed as on COD under Regulation 9(2) of the 2014 Tariff Regulations is summarized as under:-

(₹ in lakh)

Capital cost claimed as on COD	(less)	(less)	Add	Add	Capital cost allowed on COD
	IDC Claimed	IEDC claimed	IDC allowed on cash basis	Initial spares allowed	
2914.65	94.12	151.96	0.00	134.96	2803.53

**Additional Capital expenditure(ACE)**

30. The additional capital expenditure claimed by petitioner vide affidavit dated 17.9.2018 and Auditor's certificate dated 24.7.2018, are as under:

(₹ in lakh)

Asset	Estimated Exp. Up to COD	Projected Exp. for FY	
		2018-19	2019-20
Combined asset ("Asset")	2914.65	678.01	489.72



31. The petitioner has submitted that the additional capitalization claimed in the instant petition is mainly on account of Balance/Retention payments in accordance with 2014 Tariff Regulations and details of add-cap are given in form-7 in main petition.



32. MPPMCL vide affidavit dated 17.2.2018 had submitted that the petitioner has claimed total ACE of ₹26878 lakh under Regulation 14(1) of the 2014 Tariff Regulations with the reasoning of balance/retention payment only and has not submitted proper details and justification and accordingly such claim of the petitioner may only be allowed at the time of true-up, on the basis of actual expenditure.

33. In response, petitioner filed its rejoinder dated 13.3.2018 and submitted that ACE in the assets under subject petition has been claimed under Regulation 14(1)(i) against balance and retention payments as mentioned in Form-7 of respective assets. The petitioner further submitted that the element-wise break-up of cost of all the assets under instant petition has already been furnished in Form-5 of respective assets of the main petition. Therefore, the Commission is prayed to allow the entire cost and tariff as claimed under subject petition.

34. The petitioner, vide affidavit dated 17.9.2018 in Form-7, has submitted the details of ACE after COD (including the discharge of IDC amounting to ₹94.12 lakh) and the same is as under:-

(₹ in lakh)

Year	Work/Equipment proposed to be added after COD upto cutoff date/beyond cutoff date	Amount capitalised and proposed to be capitalised	Justifications as per purpose	Regulation
2018-19	Building	317.20	Balance & retention	14(1)(i) & 14(1)(ii)
2018-19	Sub-station	447.30		
2018-19	PLCC	7.63		
<b>Total</b>		<b>772.13</b>		
2018-19	Accrual IDC	94.12	Balance & retention	14(1)(i)
2018-19	Balance & retention payment	450.77	Balance & retention	14(1)(i)
2018-19	Add cap to the extent of unexecuted work	227.24	Unexecuted work	14(1)(ii)
<b>Total</b>		<b>772.13</b>		



35. We have considered the submission by the petitioner and the respondents. The COD for the instant asset has been considered as 27.4.2018 and accordingly cut-off date is 31.3.2020. The petitioner has claimed additional capital expenditure of ₹678.01 for FY 2018-19, ₹489.72 lakh for FY 2019-20 on account of balance/retention payment under Regulation 14(1)(i) of Tariff Regulations 2014. The additional capital expenditure of ₹678.01 lakh for FY 2018-19 is allowed and projected additional capital expenditure of ₹489.72 lakh for FY 2019-20 has not been considered as the tariff period is ending on 31.3.2019 and same may be considered in tariff period 2019-24 in terms of prevailing Regulation at that time. The add-cap claimed by the petitioner for period 2018-19 is covered under Regulation 14(1)(i) of the 2014 Tariff Regulations and the same is allowed. However, as discussed at para 22 of this order, discharge of IDC allowed in the year 2018-19 is restricted to ₹60.35 lakh. Accordingly, the add-cap for the instant asset for 2014-19 tariff period is allowed as follows:-

(₹ in lakh)		
Additional capital expenditure allowed for FY 2018-19	Discharge of IDC	Total
772.13-94.12=678.01	60.35	<b>738.36</b>



**Capital Cost allowed for the period from COD to 31.3.2019**

36. Considering the capital cost allowed as on COD and the ACE, the following capital cost is allowed for the period from COD to 31.3.2019.

(₹ in lakh)		
Capital cost as on COD	ACE for 2018-19	Capital cost as on 31.3.2019
<b>2803.53</b>	738.36	<b>3541.90</b>



### Debt-Equity Ratio

37. The capital cost as on the date of commercial operation and additional capitalization as allowed have been considered in the normative debt-equity ratio of 70:30 as per Clause 1 and 5 of Regulation 19 of the 2014 Tariff Regulations. The details of debt-equity as on date of commercial operation and 31.3.2019 considered on normative basis are as under:-

(₹in lakh)

Particular	Capital cost as on COD		Capital cost as on 31.3.2019	
	Amount	%	Amount	%
Debt	1962.47	70.00	2479.33	70.00
Equity	841.06	30.00	1062.57	30.00
<b>Total</b>	<b>2803.53</b>	<b>100.00</b>	<b>3541.90</b>	<b>100.00</b>



### Return on Equity

38. The petitioner has submitted that it is liable to pay income tax at MAT rate, the RoE has been calculated @ 20.243% after grossing up the RoE with MAT rate of 20.961%, as provided under Regulation 25(2)(i) of the 2014 Tariff Regulations. As per Regulation 25(3) of the 2014 Tariff Regulations, the grossed up rate of RoE at the end of the 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 2014-19 period on actual gross income of any financial year. Any under-recovery or over-recovery of grossed up ROE after truing up shall be recovered or refunded to the beneficiaries on year to year basis. The petitioner has also submitted that adjustment due to any additional tax demand including interest duly adjusted for any refund of the tax including interest received from IT authorities shall be recoverable/adjustable after completion of income tax assessment of the financial



year.

39. We have considered the submissions made by the petitioner and respondent. Regulation 24 read with Regulation 25 of the 2014 Tariff Regulations provides for grossing up of return on equity with the effective tax rate for the purpose of return on equity. It further provides that in case the generating company or transmission licensee is paying Minimum Alternative Tax (MAT), the MAT rate including surcharge and cess will be considered for the grossing up of return on equity. Accordingly, the MAT rate applicable during 2013-14 has been considered for the purpose of return on equity, which shall be trued up with effective tax rate in accordance with Regulation 25 (3) of the 2014 Tariff Regulations. Accordingly, the RoE allowed is as follows:-

Particulars	(₹in lakh)
	2018-19
Opening Equity	841.06
Addition due to Additional Capitalization	221.51
Closing Equity	1062.57
Average Equity	951.81
Return on Equity (Base Rate )	15.50%
Tax rate (MAT for 2013-14)	20.961%
Rate of Return on Equity (Pre Tax )	19.610%
<b>Return on Equity (Pre Tax)</b>	<b>173.36</b>



#### Interest on loan

40. Interest on Loan is allowed for the instant assets in terms of Regulation 26 of the 2014 Tariff Regulations. In keeping with the provisions of Regulation 26 of the 2014 Tariff Regulations, the petitioner entitlement to interest on loan has been calculated on the following basis:-

- (i) Gross amount of loan, repayment of installments and rate of interest and weighted average rate of interest on actual average loan have been





considered as per Form 9C given in the affidavit dated 17.9.2018;

(ii) The normative repayment for the tariff period 2014-19 shall be deemed to be equal to the depreciation allowed for that period;

(iii) Weighted average rate of interest on actual average loan worked out as per (i) above is applied on the notional average loan during the year to arrive at the interest on loan.

41. Based on the above, interest on loan has been calculated as follows:-

Particulars	(₹ in lakh)
	2018-19
Gross Normative Loan	1962.47
Cumulative Repayment up to Prev. year	0.00
Net Loan-Opening	1962.47
Addition due to Additional Capitalization	516.85
Repayment during the year	150.57
Net Loan-Closing	2328.76
Average Loan	2145.63
WARI on Loan	7.4380%
<b>Interest</b>	<b>148.22</b>

#### Depreciation

42. The depreciation is allowed for the instant assets in terms of Regulation 27 of the 2014 Tariff Regulations. The depreciation has been calculated annually based on Straight Line Method at the rates specified in Appendix-III to the 2014 Tariff Regulations.

43. Based on the above, the depreciation has been considered as follows:-

Particulars	(₹ in lakh)
	2018-19
Opening Gross Block	2803.53
Projected Addition during 2014-19	738.36
Closing Gross Block	3541.90
Average Gross Block	3172.72
Rate of Depreciation	5.11%
Depreciable Value	2523.19
Remaining Depreciable Value	2523.19
<b>Depreciation</b>	<b>150.56</b>



**Operation & Maintenance Expenses (O&M Expenses)**

44. Regulation 29(4) (a) of the 2014 tariff regulations specifies the norms for O&M expenses for the transmission system based on the type of sub-station and the transmission line. Norms specified in respect of the elements covered in the Combined asset("Asset") are as under:

Norms for sub-stations (in Rs lakh per bay)	2018-19
765 kV	96.20
400 kV	68.71

45. The O&M Expenses claimed by the petitioner vide affidavit dated 17.9.2018 are as under:

(₹in lakh)

Asset	Particulars	2018-19
Combined asset ("Asset")	O&M Expenses	306.00



46. The petitioner has submitted that O&M Expenses for the tariff period 2014-19 had been arrived at on the basis of normalized actual O&M Expenses during the period 2008-09 to 2012-13. The petitioner has further submitted that the wage revision of the employees is due during 2014-19 and actual impact of wage hike effective from a future date has not been factored in fixation of the normative O&M rates specified for the tariff block 2014-19. The petitioner has submitted that it would approach the Commission for suitable revision in norms for O&M Expenses for claiming the impact of wage hike during 2014-19, if any



47. Respondent no.1, MPPMCL vide affidavit dated 17.2.2018 has submitted that there is no provision in Tariff Regulation for revising the normative O&M charges based on actual. The Commission has arrived at the O&M rates based on past five years actual O&M expenses which includes the wage hikes during the previous five years and 10% margin over and above the effective CAGR of O&M expenses has been allowed. The beneficiaries are over burdened due to the exorbitant O&M rates when compared to the rates of State Transmission utilities. Therefore, the request for revision of O&M rates should not be allowed.

48. In response, petitioner filed its rejoinder dated 13.3.2018 and submitted that the wage revision of the employees of the petitioner company is due during 2014-19 and actual impact of wage hike which will be effective from a future date has also not been factored in fixation of the normative O&M rates prescribed for the tariff block 2014-19. The scheme of wage revision applicable to CPSUs being binding on the petitioner, the petitioner reserves the right to approach the Commission for suitable revision in the norms for O&M expenditure for claiming the impact of wage hike during 2014-19 onwards. Accordingly, prayer has been made by petitioner for approaching Commission for suitable revision in the norms for O&M expenditure for claiming the impact of wage hike, if any, during period 2014-19. Hence the same may please be considered.

49. We have considered the submission made by the petitioner and the respondents. The O&M Expenses have been worked out as per the norms of O&M Expenses specified in the 2014 Tariff Regulations. As regards the impact of wage revision, any application filed by the petitioner in this regard will be dealt with in



accordance with the appropriate provisions of the 2014 Tariff Regulations. The total allowable O&M Expenses for Combined asset("Asset") are as follows:

(₹ in lakh)

Elements	2018-19 (pro-rata)*
2 nos. of 765kV bays at Parli sub-station	339/365x96.20x2 =178.69
2 nos. of 400kV bays at Parli sub-station	339/365x68.71x2 =127.63
<b>Total O&amp;M Expenses allowed</b>	<b>306.32</b>

\*Pro-rata has been calculated from 27.4.2018 to 31.3.2019=339 days

### **Interest on working capital**

50. The petitioner is entitled to claim IWC as per the Regulation 28(1)(C) and Regulation 3(5) of 2014 Tariff Regulations. The components of the working capital and the petitioner's entitlement to interest thereon are discussed hereunder:-

#### **(i) Receivables**

Receivables as a component of working capital will be equivalent to two months of annual transmission charges.

#### **(ii) Maintenance spares**

Regulation 28 of the 2014 Tariff Regulations provides for maintenance spares @ 15% per annum of the O&M expenses. The value of maintenance spares has accordingly been worked out.

#### **(iii) O & M expenses**

Operation and maintenance expenses have been considered for one month as a component of working capital. The petitioner has claimed O&M expenses for 1 month of the respective year as claimed in the petition. This has been considered in the working capital.

#### **(iv) Rate of interest on working capital**



Order in Petition No.40/TT/2018



Page 22 of 25

As per Proviso 3 of Regulation 28 of the 2014 Tariff Regulations, rate of interest for calculation of interest on working capital has been considered as 12.20%.

51. Accordingly, the interest on working capital is summarized as under:-

(₹in lakh)	
Interest on Working Capital	2018-19
Maintenance Spares	49.47
O & M expenses	27.48
Receivables	144.42
Total	221.37
<b>Interest</b>	<b>25.08</b>

#### Annual Transmission charges

52. The annual transmission charges allowed for the instant assets are summarized hereunder:-

(₹in lakh)	
Particulars	2018-19
Depreciation	150.56
Interest on Loan	148.22
Return on Equity	173.36
Interest on Working Capital	25.08
O&M Expenses	306.32
<b>Total</b>	<b>803.55</b>



53. The petitioner has submitted that the claim for transmission charges and other charges is exclusive of incentive, late payment surcharge, FERV, any statutory taxes, levies, duties, cess, filing fees, license fee, RLDC fees and charges or any other kind of impositions etc. The same if imposed shall be borne and additionally paid by the respondents. The petitioner is entitled to FERV as provided under Regulation 50 of the 2014 Tariff Regulations and the petitioner can make other claims as per the 2014 Tariff Regulations.

#### Filing fee and the publication expenses

54. The petitioner has sought reimbursement of fee paid by it for filing the petition



and publication expenses, in terms of Regulation 52 of the 2014 Tariff Regulations. The petitioner shall be entitled for reimbursement of the filing fees and publication expenses in connection with the present petition, directly from the beneficiaries on pro-rata basis in accordance with clause (1) of Regulation 52 of the 2014 Tariff Regulations.

#### **License fee and RLDC Fees and Charges**

55. The petitioner has requested to allow the petitioner to bill and recover License fee and RLDC fees and charges, separately from the respondents. We are of the view that the petitioner shall be entitled for reimbursement of licence fee and RLDC fees and charges in accordance with Clause (2)(b) and (2)(a), respectively, of Regulation 52 of the 2014 Tariff Regulations.

#### **Goods and Services Tax**

56. The petitioner has made a prayer to be allowed to bill and recover the service tax on transmission charges separately from the respondents, if at any time service tax on transmission is withdrawn from negative list at any time in future. The petitioner has further prayed that if any taxes and duties including cess etc. are imposed by any statutory/Government/municipal authorities, it shall be allowed to be recovered from the beneficiaries. Accordingly, the transmission charges is exclusive of service tax and the same shall be borne and additionally paid by the respondents to the petitioner, if at any time service tax on transmission is withdrawn from negative list in future. MPPMCL has stated that the petitioner's prayer as GST is not applicable for transmission service. We consider petitioner's prayer pre-mature and accordingly this prayer is rejected.



Order in Petition No.40/TT/2018



Page 44 of 45

## Sharing of Transmission Charges

57. The billing, collection and disbursement of the transmission charges approved shall be governed by the provisions of Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2010, as amended from time to time, as provided in Regulation 43 of the 2014 Tariff Regulations.

58. This order disposes of Petition No. 40/TT/2018.

Sd/-  
(Dr. M.K.Iyer)  
Member

Sd/-  
(P.K.Pujari)  
Chairperson



Order in Petition No.40/TT/2018

**ATTESTED TRUE COPY**

Page 25 of 25

from Pg. 23-47

Authorised Signatory

Power Grid Corporation of India Ltd.  
Plot No. 2, Sector-29, Gurgaon-122001 (HARYANA)



**PARAKH & CO.**  
CHARTERED ACCOUNTANTS

**CERTIFICATE**

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, KatwariaSarai, New Delhi-110016 and on the basis of our verification, we certify that Capital Cost for 2 Nos 765kV line Bays at Solapur (for Parli new(TBCB)-Solapur(POWERGRID) 765kV D/C line under TBCB route) & 2Nos 400kV Line Bays at Parli (POWERGRID) Switching Station (for Parli new(TBCB)-Parli(POWERGRID) 400kV D/C(quad) line under POWERGRID WORKS Associated with WESTERN REGION STRENGTHENING SCHEME-XV (Project) of Power Grid Corporation of India Limited, which is under commercial operation w.e.f. 27.04.2018 is detailed as under:

(RS./ LAKHS)					
S/N	PARTICULARS	CAPITAL COST	IDC	IEDC	TOTAL
1	Expenditure Upto 26.04.2018 (DOCO)	2,668.57	94.12	151.96	2,914.65
2	Expenditure From 27.04.2018 to 31.03.2019	768.91	-	-	768.91
3	Estimated Expenditure From 01.04.2019 to 31.03.2020	413.44	-	-	413.44
4	Estimated Expenditure From 01.04.2020 to 31.03.2021	45.94	-	-	45.94
	<b>Total</b>	<b>3,896.86</b>	<b>94.12</b>	<b>151.96</b>	<b>4,142.94</b>

We certify that we have verified the expenditure up to 31.03.2019 as referred above on the basis of the information drawn from the audited Statement of Accounts of Power Grid Corporation of India Ltd. WR-I as on 31.03.2019. Balance expenditure is based on Management Estimates.

Place:- JAIPUR  
Date:- 31-07-2019  
UDIN: 19425104AAAAC8192

For PARAKH & Co.  
Chartered Accountants  
FRN- 001475C

*Gotam*  
Gotam Kumar Bagariya  
Partner  
M. No. 425104







**CERTIFICATE**

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 2 Nos 765kV line Bays at Solapur (for Parli new(TBCB)-Solapur(POWERGRID) 765kV D/C line under TBCB route) & 2Nos 400kV Line Bays at Parli (POWERGRID) Switching Station (for Parli new(TBCB)-Parli(POWERGRID) 400kV D/C(quad) line under POWERGRID WORKS Associated with WESTERN REGION STRENGTHENING SCHEME-XV (Project) of Power Grid Corporation of India Limited, which is under commercial operation w.e.f. 27.04.2018 is detailed as under:

S/N	PARTICULARS	LAND	BUILDING, CIVIL WORKS & COLONY	TRANSMISSION LINE	SUB-STATION	PLCC/ COMMUNICATION SYSTEM	I.T. Equipment Including software	Total Expenditure
1	Expenditure Upto 26.04.2018 (DOCO)	-	180.52	-	2,469.76	97.42	166.95	2,914.65
2	Expenditure From 27.04.2018 to 31.03.2019	-	314.84	-	439.42	14.65	-	768.91
3	Estimated Expenditure From 01.04.2019 to 31.03.2020	-	279.25	-	133.86	0.33	-	413.44
3	Estimated Expenditure From 01.04.2020 to 31.03.2021	-	31.03	-	14.88	0.03	-	45.94
		-	805.64	-	3,057.92	112.43	166.95	4,142.94

S/N	Particulars	TL	Sub-station/IT Equipment	PLCC/ COMMUNICATION SYSTEM
1	Total Cost (Plant and Machinery cost excluding IDC, IEDC, Land cost and cost of Civil works for the purpose of Initial Spares)	0.00	3024.15	105.49
2	Initial Spares included above	0.00	194.65	0.00

We certify that we have verified the expenditure up to 31.03.2019 as referred above on the basis of the information drawn from the audited Statement of Accounts of Power Grid Corporation of India Ltd. WR-I as on 31.03.2019. Balance expenditure is based on Management Estimates.

For PARAKH & Co.  
Chartered Accountants  
FRN- 001475C  
*Gotam*  
Gotam Kumar Bagariya  
Partner  
M. No. 425104

Place:- JAIPUR  
Date:- 31-07-2019  
UDIN: 19425104AAAEEC8192





### Statement showing IDC Discharged upto DOCO

POWERGRID Works Associated with Western Region Strengthening Scheme - XV (WRSS-XV)									
2 Nos 400kV line Bays at Parli(POWERGRID) Switching Station (for Parli new(TBCB)-Parli(POWERGRID) 400kV D/C(Quad) line under TBCB)									
DOC0 : Actual	27-Apr-18	Amount	Interest Rate	Drawl Date	Total IDC	Annual Interest Payment Date upto DOCO	Interest Discharged upto DOCO	Annual Interest Payment Date after DOCO	
Loans									
Bond LIX		546.70	7.30%	19-Jun-17	34.11	19-Jun-17	0.00	19-Jun-18	
Bond LXI		407.53	7.74%	12-Dec-17	11.75	12-Dec-17	0.00	12-Dec-18	
SBI-03 (2018-2019) (03.04.2018)		49.63	7.85%	03-Apr-18	0.26	01-Apr-18	0.00	01-May-18	
<b>Total</b>		<b>1003.86</b>			<b>46.12</b>		<b>0.00</b>		
Total IDC as per Certificate		46.12							
IDC Discharged upto DOCO		0.00							
Accrual IDC upto DOCO (Discharged during 2018-2019)		46.12							
Accrual IDC upto DOCO (Discharged during 2019-2020)		0.00							

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

### Statement showing IDC Discharged upto DOCO

POWERGRID Works Associated with Western Region Strengthening Scheme - XV (WRSS-XV)									
2 Nos 765kV line Bays at Solapur(POWERGRID) Station (for Parli new(TBCB)-Solapur(POWERGRID) 765kV D/C line under TBCB route)									
DOC0 : Actual	27-Apr-18	Amount	Interest Rate	Drawl Date	Total IDC	Annual Interest Payment Date upto DOCO	Interest Discharged upto DOCO	Annual Interest Payment Date after DOCO	
Loans									
Bond LIX		171.30	7.30%	19-Jun-17	10.69	19-Jun-17	0.00	19-Jun-18	
Bond LX		584.00	7.20%	09-Aug-17	30.07	09-Aug-17	0.00	09-Aug-18	
Bond LXI		247.47	7.74%	12-Dec-17	7.14	12-Dec-17	0.00	12-Dec-18	
SBI-03 (2018-2019) (03.04.2018)		18.54	7.85%	03-Apr-18	0.10	01-Apr-18	0.00	01-May-18	
ICICI (2018-2019) (Q1) (06.07.2018) (Internal Resource Replacement)		15.08	8.00%	06-Jul-18	0.00		0.00		
<b>Total</b>		<b>1036.39</b>			<b>47.99</b>		<b>0.00</b>		
Total IDC as per Certificate		47.99							
IDC Discharged upto DOCO		0.00							
Accrual IDC upto DOCO (Discharged during 2018-2019)		47.99							
Accrual IDC upto DOCO (Discharged during 2019-2020)		0.00							

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

*(Handwritten signature)*

**Summary of Tariff**

Form No. - 1

Name of the Transmission Licensee: Power Grid Corporation of India Limited			
Project	WRSS XV		
Element Description	2 Nos. 400 KV line bays at Parli & Solapur (POWRGRID) Switching Stn. (for Parli new (TBCB)-Parli (POWRGRID) 400 KV D/C (Quad) line under TBCB)		
Region	Western Region	DOC Date	Apr 27, 2018

(Amount in Rs. Lakh)

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Depreciation-Form No. 10A	0.00	0.00	0.00	0.00	167.29
Interest on Loan-Form No. 9E	0.00	0.00	0.00	0.00	151.34
Return on Equity-Form No. 8	0.00	0.00	0.00	0.00	176.97
Int. on Working capital-Form No. 11	0.00	0.00	0.00	0.00	25.53
Op. and maintenance-Form No.2	0.00	0.00	0.00	0.00	306.00
Total	0.00	0.00	0.00	0.00	827.13

(Petitioner)



**Details of Transmission Lines and Substations, Communication System**

Form No. - 2

Name of the Transmission Licensee: Power Grid Corporation of India Limited	
Project	WRSS XV
Element Description	2 Nos. 400 KV line bays at Parli & Solapur (POWERGRID) Switching Stn. (for Parli new (TBCB)-Parli (POWERGRID) 400 KV D/C (Quad) line under TBCB)
Region	Western Region
	DOC Date   Apr 27, 2018

**1. Transmission Lines**

**2. Sub Station**

(Amount in Rs. Lakh)

Name of Sub-station	Type of Substation	Voltage Level KV	Transformers/ Reactor/ SVC etc. with capacity	No. of Bays			Date of Commercial operation	Covered in the present petition	
				765 KV	400 KV	220 KV & Below		Yes/ No	If No, Petition No.
Solapur:PARLI I AND II BAY	Conventional	765 KV		2.000			Apr 27, 2018	Y	
Parli:PARLI I AND II BAY	Conventional	400 KV			2.000		Apr 27, 2018	Y	

*ms*

(Petitioner)



**Normative parameters considered for tariff computations**

Form No. - 3



Name of the Transmission Licensee: Power Grid Corporation of India Limited			
Project	WRSS XV		
Element Description	2 Nos. 400 KV line bays at Parli & Solapur (POWRGRID) Switching Stn. (for Parli new (TBCB)-Parli (POWRGRID) 400 KV D/C (Quad) line under TBCB)		
Region	Western Region	DOC Date	Apr 27, 2018

(Amount in Rs. Lakh)

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Base Rate of Return of Equity (in %)	15.50	15.50	15.50	15.50	15.50
Tax Rate (in %)	21.02	21.38	21.34	21.34	21.55
<b>Effective tax rate (in %)</b>	0.00	0.00	0.00	0.00	0.00
Grossed up Rate of ROE (in %)	19.625	19.715	19.705	19.705	19.758
Target availability - AC System (in %)	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
<b>Normative O&amp;M per KM (in Rs. Lakh)</b>	0.00	0.00	0.00	0.00	0.00
Double Circuit (Bundle conductor with four sub-conductors) (in Rs. Lakh)	1.062	1.097	1.133	1.171	1.21
Double Circuit (Single Conductor) (in Rs. Lakh)	0.303	0.313	0.324	0.334	0.346
Double Circuit (Two and Three Conductor) (in Rs. Lakh)	0.707	0.731	0.755	0.78	0.806
Multicircuit with four or more conductors (in Rs. Lakh)	1.863	1.925	1.989	2.055	2.123
Multicircuit with two or three conductors (in Rs. Lakh)	1.24	1.282	1.324	1.368	1.413
Single Circuit (Bundled conductor with four sub-conductors) (in Rs. Lakh)	0.606	0.627	0.647	0.669	0.691
Single Circuit (Single Conductor) (in Rs. Lakh)	0.202	0.209	0.216	0.223	0.23
Single Circuit (Six conductor) (in Rs. Lakh)	0.707	0.731	0.755	0.78	0.806
Single Circuit (Twin and Three conductor) (in Rs. Lakh)	0.404	0.418	0.432	0.446	0.461
<b>Normative O&amp;M per bay (in )</b>	0.00	0.00	0.00	0.00	0.00
132KV Sub-station and below (in Rs. Lakh)	30.15	31.15	32.18	33.25	34.36
220KV Sub-station (in Rs. Lakh)	42.21	43.61	45.06	46.55	48.10
400 KV GIS Substation (in Rs. Lakh)	51.54	53.25	55.02	56.84	58.73

400KV Sub-station (in Rs. Lakh)	60.30	62.30	64.37	66.51	68.71
765KV Sub-station (in Rs. Lakh)	84.42	87.22	90.12	93.11	96.20
Balia-Bhiwadi HVDC Bipole Scheme (in Rs. Lakh)	1,537.00	1,666.00	1,805.00	1,955.00	2,119.00
HVDC Back-to Back Stations (in Rs. Lakh)	578.00	627.00	679.00	736.00	797.00
Rihand-Dadri HVDC Bipole Scheme (in Rs. Lakh)	1,511.00	1,637.00	1,774.00	1,922.00	2,082.00
Talcher-Kolar HVDC Bipole Scheme (in Rs. Lakh)	1,173.00	1,271.00	1,378.00	1,493.00	1,617.00
Spares for WC as % of O&M (in %)	15.00	15.00	15.00	15.00	15.00
Receivables in Months for WC (in Months)	2.00	2.00	2.00	2.00	2.00
Bank Rate as on 1st April, 2014 (in %)	13.50	13.50	13.50	13.50	13.50

(Petitioner) *WAS*



**Statement of Capital cost**

Form No. - 4A

Name of the Transmission Licensee: Power Grid Corporation of India Limited			
Project	WRSS XV		
Element Description	2 Nos. 400 KV line bays at Parli & Solapur (POWRGRID) Switching Strn. (for Parli new (TBCB)-Parli (POWRGRID) 400 KV D/C (Quad) line under TBCB)		
Region	Western Region	DOCO Date	Apr 27, 2018

Particulars	(Amount in Rs. Lakh)				
	2014-15	2015-16	2016-17	2017-18	2018-19
A. a) Opening Gross Block Amount as per books	0.00	0.00	0.00	0.00	3,673.76
b) Amount of capital liabilities in A(a) above (Accrual IDC)	0.00	0.00	0.00	0.00	853.22
c) Amount of IDC,FC,FERV and Hedging cost included in A(a) above	0.00	0.00	0.00	0.00	94.12
d) Amount of IEDC (excluding IDC,FC,FERV and Hedging cost) included in A(a) above	0.00	0.00	0.00	0.00	151.96
B. a) Addition in Gross Block Amount during the period	0.00	0.00	0.00	0.00	308.25
B. a) Amount of capital liabilities in B(a) above	0.00	0.00	0.00	0.00	0.00
B. b) De-cap in gross block amount during the year	0.00	0.00	0.00	0.00	0.00
c) Amount of IDC,FC,FERV and Hedging cost included in B(a) above	0.00	0.00	0.00	0.00	0.00
d) Amount of IEDC (excluding IDC,FC,FERV and Hedging cost) included in B(a) above	0.00	0.00	0.00	0.00	0.00
C. a) Closing Gross Block Amount as per Books	0.00	0.00	0.00	0.00	3,982.01
b) Amount of capital liabilities in C(a) above (Accrual IDC)	0.00	0.00	0.00	0.00	298.45
c) Amount of IDC,FC,FERV and Hedging cost included in C(a) above	0.00	0.00	0.00	0.00	94.12
d) Amount of IEDC (excluding IDC,FC,FERV and Hedging cost) included in C(a) above	0.00	0.00	0.00	0.00	151.96

(Petitioner)



**Statement of Additional Capitalisation after COD**

Form No. - 7

Name of the Transmission Licensee: Power Grid Corporation of India Limited			
Project	WRSS XV		
Element Description	2 Nos. 400 KV line bays at Parli & Solapur (POWRGRID) Switching Stn. (for Parli new (TBCB)-Parli (POWRGRID) 400 KV D/C (Quad) line under TBCB)		
Region	Western Region	DOCO Date	Apr 27, 2018

(Amount in Rs. Lakh)

Work / Equipment proposed to be added after COD up to Cut off Date / Beyond Cut off Date	Amount Capitalised / Proposed to be Capitalised	Justification	Regulation under which covered	Admitted Cost
<b>Year :2018-19</b>				
Land (Freehold Land)	0.00			
Building & Civil Works	318.58			
Transmission Lines	0.00			
Substations	490.55			
PLCC	16.67			
Land (Leasehold)	0.00			
IT Equipment and software	3.46			
<b>Total</b>	829.26			
<b>Total Spares</b>	0.00			
A) Accrual IDC	60.35	IDC Discharged after DOCO	14(1)(I)	
B) (i) Balance and retention payment	460.66	Balance & Retention Payment	14(1)(I)	
(ii) Spares included in (B) (i)	0.00	Undischarged Spares		
C) Balance work to be executed	308.25	Unexecuted Work	14(1)(II)	
<b>(A)+ (B)+ (C)</b>	829.26			



(Petitioner) *wa*



## Financing of Additional Capitalisation

Form No. - 7A

Name of the Transmission Licensee: Power Grid Corporation of India Limited		
Project	WRSS XV	
Element Description	2 Nos. 400 KV line bays at Parli & Solapur (POWERGRID) Switching Stn. (for Parli new (TBCB)-Parli (POWERGRID) 400 KV D/C (Quad) line under TBCB)	
Region	Western Region	DOCO Date   Apr 27, 2018

(Amount in Rs. Lakh)

Financial Year ( Starting of COD)	Actual/Projected						Admitted			
	2014-15	2015-16	2016-17	2017-18	2018-19	2018-19	2017-18	2016-17	2015-16	2014-15
Amount capitalized in Work/ Equipment										
Financing Details										
Total Loan	0.00	0.00	0.00	0.00	580.48					
Equity	0.00	0.00	0.00	0.00	248.78					
Total	0.00	0.00	0.00	0.00	829.26					



(Petitioner)

**Calculation of ROE**

Form No. - 8

Name of the Transmission Licensee: Power Grid Corporation of India Limited			
Project	WRSS XV		
Element Description	2 Nos. 400 KV line bays at Parli & Solapur (POWRGRID) Switching Stn. (for Parli new (TBCB)-Parli (POWRGRID) 400 KV D/C (Quad) line under TBCB)		
Region	Western Region	DOC Date	Apr 27, 2018

(Amount in Rs. Lakh)

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Opening Equity	0.00	0.00	0.00	0.00	841.06
Notional Equity on Addcap	0.00	0.00	0.00	0.00	248.78
Total Equity	0.00	0.00	0.00	0.00	1,089.84
Average Equity	0.00	0.00	0.00	0.00	965.45
Rate of return on Equity (%)	0.00	0.00	0.00	0.00	19.758
Return on Equity	0.00	0.00	0.00	0.00	190.75
Pro rata return on Equity	0.00	0.00	0.00	0.00	176.97

**Calculation of Grossed up rate of ROE**

Rate of ROE	0.00	0.00	0.00	0.00	15.50
Time Line Incentive	0.00	0.00	0.00	0.00	0.00
Communication Dis-incentive	0.00	0.00	0.00	0.00	0.00
Effective Rate of ROE	0.00	0.00	0.00	0.00	15.50
MAT Rate	0.00	0.00	0.00	0.00	21.55
Grossed up rate of ROE	0.00	0.00	0.00	0.00	19.758

(Petitioner)



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

Form No. - 9C



Name of the Transmission Licensee: Power Grid Corporation of India Limited			
Project	WRSS XV		
Element Description	2 Nos. 400 KV line bays at Parli & Solapur (POWRGRID) Switching Stn. (for Parli new (TBCB)-Parli (POWRGRID) 400 KV D/C (Quad) line under TBCB)		
Region	Western Region	DOCO Date	Apr 27, 2018

(Amount in Rs. Lakh)

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
<b>BOND 59 -DOCO 1</b>					
Gross opening loan	0.00	0.00	0.00	0.00	718.00
Cumulative repayments of loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loans opening	0.00	0.00	0.00	0.00	718.00
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 closing loan	0.00	0.00	0.00	0.00	718.00
Average net loan	0.00	0.00	0.00	0.00	718.00
Rate of interest on loan	0.00	0.00	0.00	0.00	7.30
Interest on loan	0.00	0.00	0.00	0.00	52.414

<b>BOND60 (LX) -DOCO 3</b>					
Gross opening loan	0.00	0.00	0.00	0.00	584.00
Cumulative repayments of loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loans opening	0.00	0.00	0.00	0.00	584.00
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 closing loan	0.00	0.00	0.00	0.00	584.00

*Handwritten signature/initials*

Average net loan	0.00	0.00	0.00	0.00	584.00
Rate of interest on loan	0.00	0.00	0.00	0.00	7.20
Interest on loan	0.00	0.00	0.00	0.00	42.048

BOND LXI -DOCO 2					
Gross opening loan	0.00	0.00	0.00	0.00	655.00
Cumulative repayments of loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loans opening	0.00	0.00	0.00	0.00	655.00
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 closing loan	0.00	0.00	0.00	0.00	655.00
Average net loan	0.00	0.00	0.00	0.00	655.00
Rate of interest on loan	0.00	0.00	0.00	0.00	7.74
Interest on loan	0.00	0.00	0.00	0.00	50.697

SBI-03 -ADDCAP 2018-19 ACCRU					
Gross opening loan	0.00	0.00	0.00	0.00	0.00
Cumulative repayments of loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loans opening	0.00	0.00	0.00	0.00	0.00
Add: drawl(s) during the year	0.00	0.00	0.00	0.00	50.80
Less: repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.00
Net closing loan	0.00	0.00	0.00	0.00	50.80
Average net loan	0.00	0.00	0.00	0.00	25.40
Rate of interest on loan	0.00	0.00	0.00	0.00	8.086283
Interest on loan	0.00	0.00	0.00	0.00	2.0539



<b>SBI-03 -DOCO 4</b>					
Gross opening loan	0.00	0.00	0.00	0.00	5.47
Cumulative repayments of loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loans opening	0.00	0.00	0.00	0.00	5.47
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 closing loan	0.00	0.00	0.00	0.00	5.47
Average net loan	0.00	0.00	0.00	0.00	5.47
Rate of interest on loan	0.00	0.00	0.00	0.00	8.086283
Interest on loan	0.00	0.00	0.00	0.00	0.4423

<b>SBI-04 -ADDCAP 2018-19</b>					
Gross opening loan	0.00	0.00	0.00	0.00	0.00
Cumulative repayments of loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loans opening	0.00	0.00	0.00	0.00	0.00
Add: drawl(s) during the year	0.00	0.00	0.00	0.00	490.21
Less: repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.00
Net closing loan	0.00	0.00	0.00	0.00	490.21
Average net loan	0.00	0.00	0.00	0.00	245.11
Rate of interest on loan	0.00	0.00	0.00	0.00	8.212393
Interest on loan	0.00	0.00	0.00	0.00	20.1294

<b>ICICI (3270 CR.) (Replaced with Bond LXII) - ADDCAP 2018-19</b>					
Gross opening loan	0.00	0.00	0.00	0.00	0.00
Cumulative repayments of loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loans opening	0.00	0.00	0.00	0.00	0.00



Add: drawl(s) during the year	0.00	0.00	0.00	0.00	39.47
Less: repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.00
Net closing loan	0.00	0.00	0.00	0.00	39.47
Average net loan	0.00	0.00	0.00	0.00	19.74
Rate of interest on loan	0.00	0.00	0.00	0.00	8.226224
Interest on loan	0.00	0.00	0.00	0.00	1.6239

### Summary

Gross opening loan	0.00	0.00	0.00	0.00	1,962.47
Cumulative repayments of loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loans opening	0.00	0.00	0.00	0.00	1,962.47
Add: drawl(s) during the year	0.00	0.00	0.00	0.00	580.48
Less: repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.00
Net closing loan	0.00	0.00	0.00	0.00	2,542.95
Average net loan	0.00	0.00	0.00	0.00	2,252.72
Rate of interest on loan	0.00	0.00	0.00	0.00	7.5202
Interest on loan	0.00	0.00	0.00	0.00	169.4085

(Petitioner) *WA*



**Calculation of interest on Normative loan**

Form No. - 9E

Name of the Transmission Licensee: Power Grid Corporation of India Limited			
Project	WRSS XV		
Element Description	2 Nos. 400 KV line bays at Parli & Solapur (POWRGRID) Switching Stn. (for Parli new (TBCB)-Parli (POWRGRID) 400 KV D/C (Quad) line under TBCB)		
Region	Western Region	DOC Date	Apr 27, 2018

(Amount in Rs. Lakh)

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Gross normative loan opening	0.00	0.00	0.00	0.00	1,962.49
Cumulative repayments of normative loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net normative loans opening	0.00	0.00	0.00	0.00	1,962.49
Increase/decrease due to ACE/ Decapitalisation during the year	0.00	0.00	0.00	0.00	580.48
Less: repayment(s) of normative loan during the year	0.00	0.00	0.00	0.00	167.29
Net closing normative Loan	0.00	0.00	0.00	0.00	2,375.68
Average normative loan	0.00	0.00	0.00	0.00	2,169.09
Rate of interest on Loan	0.00	0.00	0.00	0.00	7.5202
Interest on normative loan	0.00	0.00	0.00	0.00	163.12
Pro rata interest on normative loan	0.00	0.00	0.00	0.00	151.34

(Petitioner)



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

Form No. - 10

Name of the Transmission Licensee: Power Grid Corporation of India Limited			
Project	WRSS XV		
Element Description	2 Nos. 400 KV line bays at Parli & Solapur (POWRGRID) Switching Stn. (for Parli new (TBCB)-Parli (POWRGRID) 400 KV D/C (Quad) line under TBCB)		
Region	Western Region	DOCO Date	Apr 27, 2018

(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 31.03.2019
<b>2018-19</b>						
Land	0.00	0.00	0.00	0.00	0.00	0.00
Building	173.64	318.58	492.22	332.93	3.34	10.32
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
Sub Station	2,375.61	490.55	2,866.16	2,620.89	5.28	128.39
PLCC	93.71	16.67	110.38	102.05	6.33	5.99
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT Equipment and software	160.59	3.46	164.05	162.32	15.00	22.59
<b>TOTAL</b>	<b>2,803.55</b>	<b>829.26</b>	<b>3,632.81</b>	<b>3,218.19</b>	<b>0.00</b>	<b>167.29</b>
<b>Weighted Average Rate of Depreciation(%)</b>					<b>5.198264</b>	





**Statement of Depreciation**

Form No. - 10A

Name of the Transmission Licensee: Power Grid Corporation of India Limited			
Project	WRSS XV		
Element Description	2 Nos. 400 KV line bays at Parli & Solapur (POWRGRID) Switching Stn. (for Parli new (TBCB)-Parli (POWRGRID) 400 KV D/C (Quad) line under TBCB)		
Region	Western Region	DOCO Date	Apr 27, 2018

(Amount in Rs. Lakh)

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Opening capital cost	0.00	0.00	0.00	0.00	2,803.55
Addcap cost	0.00	0.00	0.00	0.00	829.26
Closing capital cost	0.00	0.00	0.00	0.00	3,632.81
Average capital cost	0.00	0.00	0.00	0.00	3,218.19
Freehold land (av. cost)	0.00	0.00	0.00	0.00	0.00
Rate of depreciation	0.00	0.00	0.00	0.00	5.198264
Depreciable value	0.00	0.00	0.00	0.00	2,912.61
Balance useful life of the asset (at the beginning of the year)	0.00	0.00	0.00	0.00	24.00
Elapsed life of the asset (at the beginning of the year)	0.00	0.00	0.00	0.00	0.00
Remaining depreciable value	0.00	0.00	0.00	0.00	2,912.61
Depreciation during the year	0.00	0.00	0.00	0.00	167.29
Depreciation upto previous year	0.00	0.00	0.00	0.00	0.00
Cumulative depreciation (incl. of AAD)	0.00	0.00	0.00	0.00	167.29



**Calculation of interest on working Capital**

Form No. - 11

Name of the Transmission Licensee: Power Grid Corporation of India Limited			
Project	WRSS XV		
Element Description	2 Nos. 400 KV line bays at Parli & Solapur (POWRGRID) Switching Stn. (for Parli new (TBCB)-Parli (POWRGRID) 400 KV D/C (Quad) line under TBCB)		
Region	Western Region	DOCO Date	Apr 27, 2018

(Amount in Rs. Lakh)

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Op. and maintenance	0.00	0.00	0.00	0.00	27.49
Maintenance spares	0.00	0.00	0.00	0.00	49.47
Receivables	0.00	0.00	0.00	0.00	148.59
Total working capital	0.00	0.00	0.00	0.00	225.55
Rate of interest	0.00	0.00	0.00	0.00	12.20
Interest on working capital	0.00	0.00	0.00	0.00	27.52
Pro rata interest on working capital	0.00	0.00	0.00	0.00	25.53

(Petitioner) 

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

Form No. - 12B

Name of the Transmission Licensee: Power Grid Corporation of India Limited		
Project	WRSS XV	
Element Description	2 Nos. 400 KV line bays at Parli & Solapur (POWERGRID) Switching Stn. (for Parli new (TBCB)-Parli (POWERGRID) 400 KV D/C (Quad) line under TBCB)	
Region	Western Region	DOC Date: Apr 27, 2018

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>BOND 59 -DOCO 1</b>						718.00
Draw Down Account						
IDC						
Financing Charges						
<b>BOND60 (LX) -DOCO 3</b>						



*Handwritten signature/initials in blue ink.*



**Summary of Tariff**

Form No. - 1

Name of the Transmission Licensee: Power Grid Corporation of India Limited			
Project	WRSS XV		
Element Description	2 Nos. 400 KV line bays at Parli & Solapur (POWRGRID) Switching Stn. (for Parli new (TBCB)-Parli (POWRGRID) 400 KV D/C (Quad) line under TBCB)		
Region	Western Region	DOCO Date	Apr 27, 2018

(Amount in Rs. Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Year Days	366.00	365.00	365.00	365.00	366.00
Tariff Days	366.00	365.00	365.00	365.00	366.00
Depreciation-Form No. 10A	207.58	216.70	217.61	217.61	217.61
Interest on Loan-Form No. 9E	184.39	180.47	165.13	148.52	131.84
Return on Equity-Form No. 8	227.58	241.20	242.56	242.56	242.56
Int. on Working capital-Form No.11	16.14	16.69	16.74	16.74	16.72
Op. and maintenance-Form No.2	156.53	161.97	167.57	173.39	179.39
Total AFC	792.22	817.03	809.61	798.82	788.12

(Petitioner) 

**Summary of Asset Level Cost**

Form No. - 1A

Name of the Transmission Licensee: Power Grid Corporation of India Limited		
Project	WRSS XV	
Element Description	2 Nos. 400 KV line bays at Parli & Solapur (POWRGRID) Switching Stn. (for Parli new (TBCB)-Parli (POWRGRID) 400 KV D/C (Quad) line under TBCB)	
Region	Western Region	DOC Date   Apr 27, 2018

**A) Summary of Capital Cost, Means of Finance of the Asset** (Amount in Rs. Lakh)

Particular	i) Apportioned Approved Cost		ii) Summary of Actual / Projected Capital Expenditure incurred						
	As Per IA	As per RCE	As on COD / 01.04.2019	2019-20	2020-21	2021-22	2022-23	2023-24	As on 31.03.2024
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	712.50	90.00	0.00	0.00	0.00	0.00	802.50
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	2,989.91	24.99	0.00	0.00	0.00	0.00	3,014.90
PLCC	0.00	0.00	110.74	0.00	0.00	0.00	0.00	0.00	110.74
Land (Leasehold)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IT Equipment and software	0.00	0.00	164.05	0.00	0.00	0.00	0.00	0.00	164.05
<b>Total Capital Cost as per Books</b>	0.00	0.00	3,977.20	114.99	0.00	0.00	0.00	0.00	4,092.19
Less: Liability	0.00	0.00	344.39	0.00	0.00	0.00	0.00	0.00	0.00
Add: discharge of liability	0.00	0.00	0.00	298.45	45.94	0.00	0.00	0.00	0.00
<b>Total Capital incurred</b>	0.00	0.00	3,632.81	413.44	45.94	0.00	0.00	0.00	4,092.19
Equity	1,396.69	0.00	1,089.84	124.03	13.78	0.00	0.00	0.00	1,227.65
Debt	3,258.95	0.00	2,542.97	289.41	32.16	0.00	0.00	0.00	2,864.54

(Petitioner)




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

Name of the Transmission Licensee: Power Grid Corporation of India Limited		
Project	WRSS XV	
Element Description	2 Nos. 400 KV line bays at Parli & Solapur (POWRGRID) Switching Str. (for Parli new (TBCB)-Parli (POWRGRID) 400 KV D/C (Quad) line under TBCB)	
Region	Western Region	DOCO Date   Apr 27, 2018

**1. Transmission Lines**

(Amount in Rs. Lakh)

**Summary:**

  
 (Petitioner)



2. Sub Station

Name of Sub-station	Type of Substation	Voltage Level KV	No. of Transformers/ Reactor/ SVC etc. (with capacity)	No. of Bays				MVA Capacity				Date of Comm. operation	Covered in the present petition Yes If No, s/ Petition No n No.
				765 KV	400 KV	220 KV	132 KV	765 KV	400 KV	220 KV	132 KV		
Solapur:PARLI I AND II BAY	Conventional	765 KV		2.000								Apr 27, 2018	Y
Parli:PARLI I AND II BAY	Conventional	400 KV			2.000							Apr 27, 2018	Y

Summary:

O&M Expenses For Substations Covered in the instant petition	2019-20	2020-21	2021-22	2022-23	2023-24
<b>765KV SUB-STATION</b>					
Normative Rate of O&M as per Regulation	45.01	46.60	48.23	49.93	51.68
No. of Units	2.00	2.00	2.00	2.00	2.00
O&M Claimed	90.02	93.20	96.46	99.86	103.36
<b>400KV SUB-STATION</b>					
Normative Rate of O&M as per Regulation	32.15	33.28	34.45	35.66	36.91
No. of Units	2.00	2.00	2.00	2.00	2.00
O&M Claimed	64.30	66.56	68.90	71.32	73.82



*(Handwritten signature)*





Summary of O&M Expenses claim

(Amount in Rs. Lakh)

Particular	2019-20	2020-21	2021-22	2022-23	2023-24
<b>A) Normative O&amp;M</b>					
Transmission Line	0.00	0.00	0.00	0.00	0.00
Substation	154.32	159.76	165.36	171.18	177.18
Communication System	2.21	2.21	2.21	2.21	2.21
Total Normative O&M	156.53	161.97	167.57	173.39	179.39
<b>B) O&amp;M Claimed under Regulation 35 (3)(C)</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
Total O&M	156.53	161.97	167.57	173.39	179.39

*was*  
(Petitioner)



**Normative parameters considered for tariff computations**

Form No. - 3



Name of the Transmission Licensee: Power Grid Corporation of India Limited			
Project	WRSS XV		
Element Description	2 Nos. 400 KV line bays at Parli & Solapur (POWRGRID) Switching Stn. (for Parli new (TBCB)-Parli (POWRGRID) 400 KV D/C (Quad) line under TBCB)		
Region	Western Region	DOC Date	Apr 27, 2018

(Amount in Rs. Lakh)

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

*Handwritten signature*

Single Circuit (Single Conductor)	0.23	0.252	0.26	0.27	0.279	0.289
Double Circuit (Bundled conductor with four or more sub-conductors)	1.21	1.322	1.368	1.416	1.466	1.517
Double Circuit (Twin & Triple Conductor)	0.806	0.881	0.912	0.944	0.977	1.011
Double Circuit (Single Conductor)	0.346	0.377	0.391	0.404	0.419	0.433
Multi Circuit (Bundled Conductor with four or more sub-conductor)	2.123	2.319	2.401	2.485	2.572	2.662
Multi Circuit (Twin & Triple Conductor)	1.413	1.544	1.598	1.654	1.713	1.773
Norms for HVDC stations	0.00	0.00	0.00	0.00	0.00	0.00
HVDC Back-to-Back stations (Rs Lakh per 500 MW) (Except Gazuwaka BTB)	0.00	0.00	0.00	0.00	0.00	0.00
Gazuwaka HVDC Back-to-Back station (Rs. Lakh per 500 MW)	0.00	0.00	0.00	0.00	0.00	0.00
500 kV Rihand-Dadri HVDC bipole scheme (Rs Lakh) (1500 MW)	0.00	0.00	0.00	0.00	0.00	0.00
±500 kV Talcher- Kolar HVDC bipole scheme (Rs Lakh) (2000 MW)	0.00	0.00	0.00	0.00	0.00	0.00
±500 kV Bhiwadi-Balia HVDC bipole scheme (Rs Lakh) (2500 MW)	0.00	0.00	0.00	0.00	0.00	0.00
±800 kV, Bishwanath-Agra HVDC bipole scheme (Rs Lakh) (3000 MW)	0.00	0.00	0.00	0.00	0.00	0.00

(Petitioner) *wa*



Name of the Transmission Licensee: Power Grid Corporation of India Limited			
Project	WRSS XV		
Element Description	2 Nos. 400 KV line bays at Parli & Solapur (POWRGRID) Switching Stn. (for Parli new (TBCB)-Parli (POWRGRID) 400 KV D/C (Quad) line under TBCB)		
Region	Western Region	DOCO Date	Apr 27, 2018

A) Capital Cost

(Amount)

Particular	Accrual Basis	Un-discharged Liabilities	Cash Basis
<b>As on relevant date :2019-20</b>			
a) Opening Gross Block Amount as per books	3,982.01	298.45	3,683.56
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	94.12	0.00	94.12
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	151.96	0.00	151.96
<b>a) Addition in Gross Block Amount during the period</b>			
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
<b>a) Closing Gross Block Amount as per books</b>			
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	94.12	0.00	94.12
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	151.96	0.00	151.96
<b>As on relevant date :2020-21</b>			
a) Opening Gross Block Amount as per books	4,142.94	45.94	4,097.00
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	94.12	0.00	94.12
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	151.96	0.00	151.96
<b>a) Addition in Gross Block Amount during the period</b>			
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
<b>a) Closing Gross Block Amount as per books</b>			
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	94.12	0.00	94.12
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	151.96	0.00	151.96



**Statement of Additional Capitalisation after COD**

Form No. - 7



Name of the Transmission Licensee: Power Grid Corporation of India Limited			
Project	WRSS XV		
Element Description	2 Nos. 400 KV line bays at Parli & Solapur (POWRGRID) Switching Stn. (for Parli new (TBCB)-Parli (POWRGRID) 400 KV D/C (Quad) line under TBCB)		
Region	Western Region	DOC Date	Apr 27, 2018

(Amount in Rs. Lakh)

Particulars	Addition into Gross Block as per books of Account during the year (2)	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 business (if any) (4)	Other Deduction (if any) (5)	Less: Un-discharged liability included in (2-4-5)			
<b>ACE for the year :2019-20 (Actual/Projected)</b>								
Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	90.00	0.00	0.00	0.00	0.00	189.25	279.25	0.00
Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	24.99	0.00	0.00	0.00	0.00	108.87	133.86	0.00
PLCC	0.00	0.00	0.00	0.00	0.00	0.33	0.33	0.00
Land (Leasehold)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IT Equipment and software	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>114.99</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>298.45</b>	<b>413.44</b>	<b>0.00</b>
<b>ACE for the year :2020-21 (Actual/Projected)</b>								
Land (Freehold Land)	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	31.03	31.03	0.00

*wa*

Transmission Lines	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	14.88	14.88	0.00
PLCC	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.00
Land (Leasehold)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IT Equipment and software	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	0.00	0.00	0.00	0.00	0.00	45.94	45.94	0.00
<b>ACE for the year :2021-22 (Actual/Projected)</b>								
Land (Freehold Land)	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
Transmission Lines	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
PLCC	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
IT Equipment and software	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>ACE for the year :2022-23 (Actual/Projected)</b>								
Land (Freehold Land)	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
Transmission Lines	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
PLCC	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
IT Equipment and software	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00
<b>Total</b>	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00



Handwritten signature or initials.

ACE for the year :2023-24 (Actual/Projected)								
Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	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
Substations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PLCC	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
IT Equipment and software	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>

(Petitioner)





## Financing of Additional Capitalisation

Name of the Transmission Licensee: Power Grid Corporation of India Limited		
Project	WRSS XV	
Element Description	2 Nos. 400 KV line bays at Parli & Solapur (POWRGRID) Switching Stn. (for Parli new (TBCB)-Parli (POWRGRID) 400 KV D/C (Quad) line under TBCB)	
Region	Western Region	DOC Date Apr 27, 2018

(Amount in Rs. Lakh)

Financial Year ( Starting of COD)	Actual/Projected						Admitted			
	2019-20	2020-21	2021-22	2022-23	2023-24		2020-21	2021-22	2022-23	2023-24
Amount capitalized in Work/ Equipment										
Financing Details										
Total Loan	289.41	32.16	0.00	0.00	0.00					
Equity	124.03	13.78	0.00	0.00	0.00					
Total	413.44	45.94	0.00	0.00	0.00					



**Calculation of ROE**

Form No. - 8

Name of the Transmission Licensee: Power Grid Corporation of India Limited			
Project	WRSS XV		
Element Description	2 Nos. 400 KV line bays at Parli & Solapur (POWRGRID) Switching Stn. (for Parli new (TBCB)-Parli (POWRGRID) 400 KV D/C (Quad) line under TBCB)		
Region	Western Region	DOCO Date	Apr 27, 2018

(Amount in Rs. Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
No. of Days in the year	366.00	365.00	365.00	365.00	366.00
No. of days for which tariff claimed	366.00	365.00	365.00	365.00	366.00
Opening Normative Equity	1,089.84	1,213.87	1,227.65	1,227.65	1,227.65
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)	1,089.84	1,213.87	1,227.65	1,227.65	1,227.65
Add: Increase in Equity due to addition during the year / period	34.50	0.00	0.00	0.00	0.00
Less: Decrease due to de-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
Add: Increase due to discharge during the year / period	89.53	13.78	0.00	0.00	0.00
Closing Normative Equity	1,213.87	1,227.65	1,227.65	1,227.65	1,227.65
Average Normative Equity	1,151.86	1,220.76	1,227.65	1,227.65	1,227.65
Rate of return on Equity (%)	19.758	19.758	19.758	19.758	19.758
Reduced rate of 1% decided by commission under Regulation 30(2) (if any)	0.00	0.00	0.00	0.00	0.00
Effective rate of ROE	15.50	15.50	15.50	15.50	15.50
MAT Rate	21.55	21.55	21.55	21.55	21.55
Grossed up rate of ROE	19.758	19.758	19.758	19.758	19.758
Return on Equity	227.58	241.20	242.56	242.56	242.56
Pro rata return on Equity	227.58	241.20	242.56	242.56	242.56

(Petitioner) *WA*



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

Form No. - 9C



Name of the Transmission Licensee: Power Grid Corporation of India Limited			
Project	WRSS XV		
Element Description	2 Nos. 400 KV line bays at Parli & Solapur (POWRGRID) Switching Stn. (for Parli new (TBCB)-Parli (POWRGRID) 400 KV D/C (Quad) line under TBCB)		
Region	Western Region	DOC Date	Apr 27, 2018

(Amount in Rs. Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
<b>BOND 59 -DOCO 1</b>					
Gross Loan- Opening	718.00	718.00	718.00	718.00	718.00
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	718.00	718.00	718.00	718.00	718.00
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	718.00	718.00	718.00	718.00	718.00
Average Net Loan	718.00	718.00	718.00	718.00	718.00
Rate of Interest on Loan on Annual Basis	7.30	7.30	7.30	7.30	7.30
Interest on loan	52.414	52.414	52.414	52.414	52.414

<b>BOND60 (LX) -DOCO 3</b>					
Gross Loan- Opening	584.00	584.00	584.00	584.00	584.00
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	584.00	584.00	584.00	584.00	584.00
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	584.00	584.00	584.00	584.00	584.00

*Handwritten signature/initials*

Average Net Loan	584.00	584.00	584.00	584.00	584.00
Rate of Interest on Loan on Annual Basis	7.20	7.20	7.20	7.20	7.20
Interest on loan	42.048	42.048	42.048	42.048	42.048

BOND LXI -DOGO 2					
Gross Loan- Opening	655.00	655.00	655.00	655.00	655.00
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	655.00	655.00	655.00	655.00	655.00
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	655.00	655.00	655.00	655.00	655.00
Average Net Loan	655.00	655.00	655.00	655.00	655.00
Rate of Interest on Loan on Annual Basis	7.74	7.74	7.74	7.74	7.74
Interest on loan	50.697	50.697	50.697	50.697	50.697

SBI-03 -ADDCAP 2018-19 ACCRU					
Gross Loan- Opening	50.80	50.80	50.80	50.80	50.80
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	2.54
Net loan-Opening	50.80	50.80	50.80	50.80	48.26
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	2.54	5.08
Net Loan-Closing	50.80	50.80	50.80	48.26	43.18
Average Net Loan	50.80	50.80	50.80	49.53	45.72
Rate of Interest on Loan on Annual Basis	8.25	8.25	8.25	8.25	8.25
Interest on loan	4.191	4.191	4.191	4.0862	3.7719



<b>SBI-03 -DOCO 4</b>					
Gross Loan- Opening	5.47	5.47	5.47	5.47	5.47
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.27
Net loan-Opening	5.47	5.47	5.47	5.47	5.20
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	0.27	0.55
Net Loan-Closing	5.47	5.47	5.47	5.20	4.65
Average Net Loan	5.47	5.47	5.47	5.34	4.93
Rate of Interest on Loan on Annual Basis	8.25	8.25	8.25	8.25	8.25
Interest on loan	0.4513	0.4513	0.4513	0.4406	0.4067

<b>SBI-04 -ADDCAP 2018-19</b>					
Gross Loan- Opening	490.21	490.21	490.21	490.21	490.21
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	490.21	490.21	490.21	490.21	490.21
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	24.51
Net Loan-Closing	490.21	490.21	490.21	490.21	465.70
Average Net Loan	490.21	490.21	490.21	490.21	477.96
Rate of Interest on Loan on Annual Basis	8.35	8.35	8.35	8.35	8.35
Interest on loan	40.9325	40.9325	40.9325	40.9325	39.9097

<b>ICICI (3270 CR.) (Replaced with Bond LXII) - ADDCAP 2018-19</b>					
Gross Loan- Opening	39.47	39.47	39.47	39.47	39.47
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	39.47	39.47	39.47	39.47	39.47



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	39.47	39.47	39.47	39.47	39.47
Average Net Loan	39.47	39.47	39.47	39.47	39.47
Rate of Interest on Loan on Annual Basis	8.36	8.36	8.36	8.36	8.36
Interest on loan	3.2997	3.2997	3.2997	3.2997	3.2997

### Summary

Gross Loan- Opening	2,542.95	2,542.95	2,542.95	2,542.95	2,542.95
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	2.81
Net loan-Opening	2,542.95	2,542.95	2,542.95	2,542.95	2,540.14
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	2.81	30.14
Net Loan-Closing	2,542.95	2,542.95	2,542.95	2,540.14	2,510.00
Average Net Loan	2,542.95	2,542.95	2,542.95	2,541.55	2,525.08
Rate of Interest on Loan on Annual Basis	7.6303	7.6303	7.6303	7.6299	7.6254
Interest on loan	194.0335	194.0335	194.0335	193.918	192.547

(Petitioner)



**Calculation of interest on Normative loan**

Form No. - 9E

Name of the Transmission Licensee: Power Grid Corporation of India Limited			
Project	WRSS XV		
Element Description	2 Nos. 400 KV line bays at Parli & Solapur (POWRGRID) Switching Stn. (for Parli new (TBCB)-Parli (POWRGRID) 400 KV D/C (Quad) line under TBCB)		
Region	Western Region	DOC Date	Apr 27, 2018

(Amount in Rs. Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
No. of Days in the Year	366.00	365.00	365.00	365.00	366.00
No. of days for which Tariff claimed	366.00	365.00	365.00	365.00	366.00
Gross normative loan-Opening	2,542.97	2,832.38	2,864.54	2,864.54	2,864.54
Cumulative repayments of Normative loan upto previous year	167.29	374.87	591.57	809.18	1,026.79
Net normative loan-Opening	2,375.68	2,457.51	2,272.97	2,055.36	1,837.75
Addition in normative loan towards the ACE	289.41	32.16	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	207.58	216.70	217.61	217.61	217.61
Adjustment of cumulative repayment pertaining to the decapitalised asset	0.00	0.00	0.00	0.00	0.00
Net normative loan - closing	2,457.51	2,272.97	2,055.36	1,837.75	1,620.14
Average normative loan	2,416.60	2,365.24	2,164.17	1,946.56	1,728.95
Weighted Average Rate of interest on actual loan	7.6303	7.6303	7.6303	7.6299	7.6254
Interest on normative loan	184.39	180.47	165.13	148.52	131.84
Pro rata interest on normative loan	184.39	180.47	165.13	148.52	131.84

(Petitioner)



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

Form No. - 10

Name of the Transmission Licensee: Power Grid Corporation of India Limited			
Project	WRSS XV		
Element Description	2 Nos. 400 KV line bays at Parli & Solapur (POWRGRID) Switching Strn. (for Parli new (TBCB)-Parli (POWRGRID) 400 KV D/C (Quad) line under TBCB)		
Region	Western Region	DOCO Date	Apr 27, 2018

(Amount in Rs. Lakh)

Name of Assets	Gross block at the beginning of the year	Add Cap during the year	Gross block at the end of the year	Average Gross Block	Depreciation Rate as per CERC's Depreciation Rate Schedule	Depreciation Amount for each year upto 31.03.2024
<b>2019-20</b>						
Land	0.00	0.00	0.00	0.00	0.00	0.00
Building	492.22	279.25	771.47	631.85	3.34	21.10
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
Sub Station	2,866.16	133.86	3,000.02	2,933.09	5.28	154.87
PLCC	110.38	0.33	110.71	110.55	6.33	7.00
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT Equipment and software	164.05	0.00	164.05	164.05	15.00	24.61
<b>TOTAL</b>	<b>3,632.81</b>	<b>413.44</b>	<b>4,046.25</b>	<b>3,839.54</b>	<b>0.00</b>	<b>207.58</b>
<b>Weighted Average Rate of Depreciation(%)</b>					<b>5.406377</b>	



<b>2020-21</b>						
Land	0.00	0.00	0.00	0.00	0.00	0.00
Building	771.47	31.03	802.50	786.99	3.34	26.29
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00

*Handwritten signature*



Sub Station	3,000.02	14.88	3,014.90	3,007.46	5.28	158.79
PLCC	110.71	0.03	110.74	110.73	6.33	7.01
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT Equipment and software	164.05	0.00	164.05	164.05	15.00	24.61
<b>TOTAL</b>	<b>4,046.25</b>	<b>45.94</b>	<b>4,092.19</b>	<b>4,069.23</b>	<b>0.00</b>	<b>216.70</b>
<b>Weighted Average Rate of Depreciation(%)</b>					<b>5.325332</b>	

2021-22

Land	0.00	0.00	0.00	0.00	0.00	0.00
Building	802.50	0.00	802.50	802.50	3.34	26.80
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
Sub Station	3,014.90	0.00	3,014.90	3,014.90	5.28	159.19
PLCC	110.74	0.00	110.74	110.74	6.33	7.01
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT Equipment and software	164.05	0.00	164.05	164.05	15.00	24.61
<b>TOTAL</b>	<b>4,092.19</b>	<b>0.00</b>	<b>4,092.19</b>	<b>4,092.19</b>	<b>0.00</b>	<b>217.61</b>
<b>Weighted Average Rate of Depreciation(%)</b>					<b>5.317691</b>	



2022-23

Land	0.00	0.00	0.00	0.00	0.00	0.00
Building	802.50	0.00	802.50	802.50	3.34	26.80
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
Sub Station	3,014.90	0.00	3,014.90	3,014.90	5.28	159.19
PLCC	110.74	0.00	110.74	110.74	6.33	7.01

*(Handwritten signature)*

Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT Equipment and software	164.05	0.00	164.05	164.05	15.00	24.61
<b>TOTAL</b>	<b>4,092.19</b>	<b>0.00</b>	<b>4,092.19</b>	<b>4,092.19</b>	<b>0.00</b>	<b>217.61</b>
<b>Weighted Average Rate of Depreciation(%)</b>					<b>5.317691</b>	

2023-24						
Land	0.00	0.00	0.00	0.00	0.00	0.00
Building	802.50	0.00	802.50	802.50	3.34	26.80
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
Sub Station	3,014.90	0.00	3,014.90	3,014.90	5.28	159.19
PLCC	110.74	0.00	110.74	110.74	6.33	7.01
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT Equipment and software	164.05	0.00	164.05	164.05	15.00	24.61
<b>TOTAL</b>	<b>4,092.19</b>	<b>0.00</b>	<b>4,092.19</b>	<b>4,092.19</b>	<b>0.00</b>	<b>217.61</b>
<b>Weighted Average Rate of Depreciation(%)</b>					<b>5.317691</b>	

(Petitioner)



## Statement of Depreciation

Form No. - 10A

Name of the Transmission Licensee: Power Grid Corporation of India Limited			
Project	WRSS XV		
Element Description	2 Nos. 400 KV line bays at Parli & Solapur (POWRGRID) Switching Stn. (for Parli new (TBCB)-Parli (POWRGRID) 400 KV D/C (Quad) line under TBCB)		
Region	Western Region	DOC Date	Apr 27, 2018

(Amount in Rs. Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
No of Days in the year	366.00	365.00	365.00	365.00	366.00
No of days for which tariff claimed	366.00	365.00	365.00	365.00	366.00
<b>Life at the beginning of the year</b>					
1.1 Weighted Average useful life of the Asset/ Project	24.00	24.00	24.00	24.00	24.00
1.2 Lapsed Weighted Average useful life of the Asset/Project(in completed no. of year)	0.00	1.00	2.00	3.00	4.00
1.3 Balance Weighted Average useful life of the Asset/Project(in completed no. of year)	24.00	23.00	22.00	21.00	20.00
<b>Capital Base</b>					
1.4 Opening capital cost	3,632.81	4,046.25	4,092.19	4,092.19	4,092.19
1.5 Additional Capital Expenditure dr. the year	413.44	45.94	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	4,046.25	4,092.19	4,092.19	4,092.19	4,092.19
1.8 Average capital cost	3,839.54	4,069.23	4,092.19	4,092.19	4,092.19
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	164.05	164.05	164.05	164.05	164.05
1.11 Asset having 10% salvage value included in 1.8	3,675.49	3,905.18	3,928.14	3,928.14	3,928.14
1.12 Depreciable Value(1.10+90% of 1.11)	3,472.00	3,678.71	3,699.38	3,699.38	3,699.38
<b>Depreciation for the period and Cum. Depreciation</b>					
1.13 Weighted Average Rate of depreciation	5.406377	5.325332	5.317691	5.317691	5.317691



1.14 Depreciation(for the period)	207.58	216.70	217.61	217.61	217.61
1.15 Depreciation(Annualised)	207.58	216.70	217.61	217.61	217.61
1.16 Cumulative depreciation at the beginning of the period	167.29	374.87	591.57	809.18	1,026.79
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	374.87	591.57	809.18	1,026.79	1,244.40

(Petitioner) 



**Calculation of interest on working Capital**

Form No. - 11

Name of the Transmission Licensee: Power Grid Corporation of India Limited			
Project	WRSS XV		
Element Description	2 Nos. 400 KV line bays at Parli & Solapur (POWRGRID) Switching Stn. (for Parli new (TBCB)-Parli (POWRGRID) 400 KV D/C (Quad) line under TBCB)		
Region	Western Region	DOCO Date	Apr 27, 2018

(Amount in Rs. Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
No of Days in the year	366.00	365.00	365.00	365.00	366.00
No of days for which tariff claimed	366.00	365.00	365.00	365.00	366.00
O&M Expenses-one month	13.04	13.50	13.96	14.45	14.95
Maintenance spares 15% of O&M Expenses	23.48	24.30	25.14	26.01	26.91
Receivables equivalent to 45 days of AFC	97.40	100.73	99.81	98.49	96.90
Total Working capital	133.92	138.53	138.91	138.95	138.76
Bank Rate as on 01.04.2019 or as on 01st April of the COD year, whichever is later.	12.05	12.05	12.05	12.05	12.05
Interest on working capital	16.14	16.69	16.74	16.74	16.72
Pro rata interest on working capital	16.14	16.69	16.74	16.74	16.72

(Petitioner) 

Summary of issue involved in the petition

PART-III  
FORM- 15

1. Name of the Petitioner	Powergrid Corporation of India Ltd		
2. Petition Category	Transmission		
3. Tariff Period	2019-24		
4. Name of the Project	POWERGRID works associated with Western Region Strengthening Scheme XV		
5. Investment Approval date	06.04.2016		
6. SCOD of the Project	02.02.2018		
7. Actual COD of the project	27.04.2018		
8. Whether entire scope is covered in the present petition.	Yes		
9. No. of Assets covered in instant petition	1		
10. No. of Assets having time over run	1		
11. Estimated Project Cost as per IA	4655.65 Lakhs		
12. Is there any RCE? if so, provide the date	No		
13. Revised Estimated Project Cost (if any)	Nil		
14. Completion cost for all the assets covered in the instant petition.	4142.94 Lakhs		
15. No. of Assets covered in instant petition and having cost overrun.	Nil		
16	Prayer in brief		
17	Key details and any Specific issue involved		
18	Respondents		
	Name of Respondents		
1	MPPMCL	8	CSPTCL
2	MPPTCL	9	CSPDCL
3	Madhya Pradesh Aadyogik Kendra Vikas Nigam Ltd.	10	Dadar and Nagra Power Distribution Corporation Limited
4	MSEDCL	11	Electricity Department Government of Goa
5	MSETCL		
6	Electricity Department Administration of Daman and Diu		
7	Gujarat Urja Vikas Nigam Ltd.		

(Petitioner)



**PART-III**

Summary of Capital Cost & Annual Fixed Cost (AFC) Claimed for ALL the assets covered in the present petition.																
Name of the Petitioner Powergrid Corporation of India Ltd																
Tariff Period 2019-24																
Name of the Transmission Project POWERGRID works associated with Western Region Strengthening Scheme XV																
COD of the Project (if entire scope of project is completed) 27.04.2018																
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 Investment approval	As per RCE	As on COD/ 31.3.19	2019-20	2020-21	2021-22	2022-23	2023-24	Capital Cost as on 31.03.2024				
1	Asset	27.04.2018	31.03.2021	4655.65	4	3	2	1	5	6	7	8	9	10	11=(5+6+7+8+9+10)	12
									3632.79	413.44	45.94	0	0	0	4092.17	
<b>Total Capital Cost Claimed</b> 4092.17																
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	2 Nos 400kV line Bays at Parli(POWERGRID) Switching Station (for Parli new(TBCB)-Parli(POWERGRID) 400kV D/C(Quad) line under TBCB) and 2 Nos 765kV line Bays at Solapur(POWERGRID) Station (for Parli new(TBCB)-Solapur(POWERGRID) 765kV D/C line under TBCB route)														
		<b>Total AFC for all the Assets</b>														
										792.22		817.03	809.61	798.82	788.12	

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

(Petitioner)



## INDEX

## PART-III

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

Form No.	Title of Tariff Filing Forms (Transmission& Communication System)	Tick
FORM- 1	Summary of Tariff	✓
FORM- 1A	Summary of Asset level cost	NA
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.	NA
FORM- 4A	Statement of Capital cost	✓
FORM- 4B	Statement of Capital Works in Progress	NA
FORM- 4C	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New Project/Element	NA
FORM-5	Element wise Break-up of Project/Asset/Element Cost for Transmission System or Communication System	NA
FORM-5A	Break-up of Construction/Supply/Service packages	NA
FORM-5B	Details of all the assets covered in the project	NA
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.	NA
FORM- 8	Calculation of Return on Equity	✓
FORM-8A	Details of Foreign Equity	NA
FORM-9	Details of Allocation of corporate loans to various transmission elements	NA
FORM-9A	Details of Project Specific Loans	NA
FORM-9B	Details of Foreign loans	NA
FORM-9C	Calculation of Weighted Average Rate of Interest on Actual Loans	✓
FORM-9D	Loans in Foreign Currency	NA
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	NA
FORM- 11	Calculation of Interest on Working Capital	✓
FORM- 12	Details of time over run	NA
FORM- 12A	Incidental Expenditure during Construction	NA
FORM- 12B	Calculation of IDC & Financing Charges	✓
FORM- 13	Details of Initial spares	NA
FORM- 14	Non-Tariff Income	NA
FORM- 15	Summary of issue involved in the petition	NA
FORM A	Summary of Capital Cost & Annual Fixed Cost (AFC) Claimed for ALL	NA
<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)	
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.	
3	Copies of relevant loan Agreements	
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	



*Handwritten signature/initials*



6	Copies of the BPTA/TSA/PPA with the beneficiaries, if any	
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	
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.	
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.	
10.	Any other relevant information, (Please specify)	
<p><b>Note 1:</b> 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.</p>		



**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.	NA
FORM- 4A	Statement of Capital cost	NA
FORM- 4B	Statement of Capital Works in Progress	NA
FORM- 4C	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New Project/Element	NA
FORM-5	Element wise Break-up of Project/Asset/Element Cost for Transmission System or Communication System	NA
FORM-5A	Break-up of Construction/Supply/Service packages	NA
FORM-5B	Details of all the assets covered in the project	NA
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.	NA
FORM- 8	Calculation of Return on Equity	✓
FORM-8A	Details of Foreign Equity	NA
FORM-9	Details of Allocation of corporate loans to various transmission elements	NA
FORM-9A	Details of Project Specific Loans	NA
FORM-9B	Details of Foreign loans	NA
FORM-9C	Calculation of Weighted Average Rate of Interest on Actual Loans	✓
FORM-9D	Loans in Foreign Currency	NA
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	NA
FORM- 11	Calculation of Interest on Working Capital	✓
FORM- 12	Details of time over run	NA
FORM- 12A	Incidental Expenditure during Construction	NA
FORM- 12B	Calculation of IDC & Financing Charges	NA
FORM- 13	Details of Initial spares	NA
FORM- 14	Non-Tariff Income	NA
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)	
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.	
3	Copies of relevant loan Agreements	
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	



6	Copies of the BPTA/TSA/PPA with the beneficiaries, if any	
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	
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.	
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.	
10.	Any other relevant information, (Please specify)	
<b>Note 1:</b> 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.		

