

BEFORE
THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

PETITION FOR
APPROVAL OF TRANSMISSION TARIFF FOR

1)400kV 125MVAR Bus Reactor at 765kV Indore S/S along with associated bays (DOCO: 1.10.2013)
2) 400kV 125MVAR Bus Reactor-I and Bus Reactor-II at 765kV Gwalior S/S along with associated bays
(DOCO: 1.10.2013), 3)765 kV D/C Jabalpur Pooling Station-Bina Ckt-I with 240 MVAR Switchable Line
Reactors and associated bays (Ant. DOCO:1.01.2014) 4) 765 kV D/C Jabalpur Pooling Station - Bina Ckt-II
with 240 MVAR Switchable Line Reactors and associated bays (Ant. DOCO:1.03.2014) under
"Transmission System for Phase-I Generation Projects in Orissa Part-C" in Western Region for 2009-
14.

PETITION NO. :

TARIFF BLOCK: 2009 - 2014

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



BEFORE
THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

PETITION NO.:

IN THE MATTER OF: Approval under Regulation-86 of CERC (Conduct of Business) Regulations'1999 and CERC (Terms and Conditions of Tariff) Regulations'2009 for determination of Transmission Tariff for 1)400kV 125MVAR Bus Reactor at 765kV Indore S/S along with associated bays (DOCO: 1.10.2013) 2) 400kV 125MVAR Bus Reactor-I and Bus Reactor-II at 765kV Gwalior S/S along with associated bays (DOCO: 1.10.2013) 3)765 kV D/C Jabalpur Pooling Station-Bina Ckt-I with 240 MVAR Switchable Line Reactors and associated bays (Ant. DOCO:1.01.2014) 4) 765 kV D/C Jabalpur Pooling Station - Bina Ckt-II with 240 MVAR Switchable Line Reactors and associated bays (Ant. DOCO:1.03.2014) under "Transmission System for Phase-I Generation Projects in Orissa Part-C" in Western Region for 2009-14.

Power Grid Corporation of India Ltd.
(Govt. of India undertaking)

---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)

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Filed by
Power Grid Corporation of India Ltd.

Represented by

S. S. Raju
S. S. Raju

Dy. General Manager (Commercial)

Gurgaon

Dated: 29.10.2013



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

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IN THE MATTER OF: Approval under Regulation-86 of CERC (Conduct of Business) Regulations'1999 and CERC (Terms and Conditions of Tariff) Regulations'2009 for determination of Transmission Tariff for 1)400kV 125MVAR Bus Reactor at 765kV Indore S/S along with associated bays (DOCO: 1.10.2013) 2) 400kV 125MVAR Bus Reactor-I and Bus Reactor-II at 765kV Gwalior S/S along with associated bays (DOCO: 1.10.2013) 3)765 kV D/C Jabalpur Pooling Station-Bina Ckt-I with 240 MVAR Switchable Line Reactors and associated bays (Ant. DOCO:1.01.2014) 4) 765 kV D/C Jabalpur Pooling Station - Bina Ckt-II with 240 MVAR Switchable Line Reactors and associated bays (Ant. DOCO:1.03.2014) under "Transmission System for Phase-I Generation Projects in Orissa Part-C" in Western Region for 2009-14.

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Sector-29, Gurgaon -122 001. (Haryana)

---PETITIONER

To

~~The Secretary~~
Central Electricity Regulatory Commission
New Delhi. 110 001
Sir,

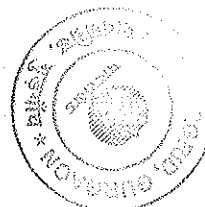
The application filed under Regulation 86 of CERC (Conduct of Business) Regulation, 1999 and CERC (Terms and Conditions of Tariff) Regulations'2009 for determination of Transmission tariff from DOCO to 31.03.2014 may please be registered.

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


S. S. Raju

Dy. General Manager (Commercial)

Gurgaon
Dated: 29.10.2013



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

PETITION NO.:

IN THE MATTER OF: Approval under Regulation-86 of CERC (Conduct of Business) Regulations'1999 and CERC (Terms and Conditions of Tariff) Regulations'2009 for determination of Transmission Tariff for 1)400kV 125MVAR Bus Reactor at 765kV Indore S/S along with associated bays (DOCO: 1.10.2013) 2) 400kV 125MVAR Bus Reactor-I and Bus Reactor-II at 765kV Gwalior S/S along with associated bays (DOCO: 1.10.2013) 3)765 kV D/C Jabalpur Pooling Station-Bina Ckt-I with 240 MVAR Switchable Line Reactors and associated bays (Ant. DOCO:1.01.2014) 4) 765 kV D/C Jabalpur Pooling Station - Bina Ckt-II with 240 MVAR Switchable Line Reactors and associated bays (Ant. DOCO:1.03.2014) under "Transmission System for Phase-I Generation Projects in Orissa Part-C" in Western Region for 2009-14.

Power Grid Corporation of India Ltd.
(Govt. of India undertaking)

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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)

MEMO OF PARTIES

POWER GRID CORPORATION OF INDIA LTD.

---PETITIONER

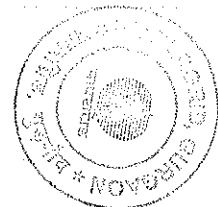
VERSUS

1. GMR KAMALANGA ENERGY LTD.
SKIP HOUSE, 25/1, MUSEUM ROAD,
BANGALORE,
KARNATAKA- 560025
REPRESENTED BY ITS MD
2. MONNET POWER COMPANY LTD.
MONNET MARG, MANDIR HASAUD,
RAIPUR,
CHATTISGARH- 492101
REPRESENTED BY ITS CEO
3. LANCO BABANDH POWER LTD.



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- PLOT NO. 397, PHASE-III, 2nd FLOOR,
UDYOG VIHAR, GURGAON,
HARYANA- 120016
REPRESENTED BY ITS CEO
4. IND BARATH ENERGY (UTKAL) LTD.
PLOT NO. 30-A, ROAD NO. 1 ,
FILM NAGAR, JUBLIEE HILLS,
HYDERABAD, ANDHRA PRADESH- 500033
REPRESENTED BY ITS DIRECTOR
5. NAVBHARAT POWER PRIVATE LTD.
NAVBHARAT CHAMBERS, 6-3-1109/1,
3rd FLOOR, LEFT WING, RAJBHAWAN ROAD,
SOMAJIGUDA,
HYDERABAD, ANDHRA PRADESH- 500082
REPRESENTED BY ITS MD
6. JINDAL INDIA THERMAL POWER LTD.,
PLOT NO. 12, SECTOR- B, POCKET- 1,
LOCAL SHOPPING COMPLEX,
VASANT KUNJ, NEW DELHI- 110070
REPRESENTED BY ITS CEO
7. STERLITE ENERGY LIMITED,
SIPCOT INDUSTRIAL COMPLEX,
TUTICORIN, TAMIL NADU - 628002
REPRESENTED BY ITS GM
8. MADHYA PRADESH POWER MANAGEMENT COMPANY LTD.
SHAKTI BHAWAN, RAMPUR
JABALPUR - 482 008
REPRESENTED BY ITS MD
9. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD.
PRAKASHGAD, 4TH FLOOR
ANDHERI (EAST), MUMBAI - 400 052
REPRESENTED BY ITS MD
10. GUJARAT URJA VIKAS NIGAM LTD.
SARDAR PATEL VIDYUT BHAWAN,
RACE COURSE ROAD
VADODARA - 390 007
REPRESENTED BY ITS CHAIRMAN
11. ELECTRICITY DEPARTMENT
GOVT. OF GOA
VIDYUT BHAWAN, PANAJI,
NEAR MANDVI HOTEL, GOA - 403 001
REPRESENTED BY ITS CHIEF ENGINEER (ELECTRICAL)
12. ELECTRICITY DEPARTMENT



10. 11. 12.

ADMINISTRATION OF DAMAN & DIU
DAMAN - 396 210
REPRESENTED BY ITS SECRETARY (FIN.)

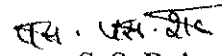
13. ELECTRICITY DEPARTMENT
ADMINISTRATION OF DADRA NAGAR HAVELI
U.T., SILVASSA - 396 230
REPRESENTED BY ITS SECRETARY (FIN.)

14. CHHATTISGARH STATE ELECTRICITY BOARD
P.O.SUNDER NAGAR, DANGANIA, RAIPUR
CHHATISGAARH-492013
REPRESENTED BY ITS CHAIRMAN

15. MADHYAPRADESH AUDYOGIK KENDRA
VIKAS NIGAM (INDORE) LTD.
3/54, PRESS COMPLEX, AGRA-BOMBAY ROAD,
INDORE-452 008

--- RESPONDENTS

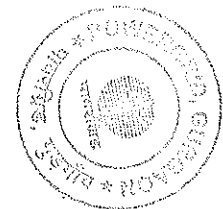
Filed by
Power Grid Corporation of India Ltd.
Represented by


S. S. Raju

Dy. General Manager (Commercial)

Gurgaon

Dated: 29.11.2013





हरियाणा HARYANA

BEFORE
THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

30AA 425209

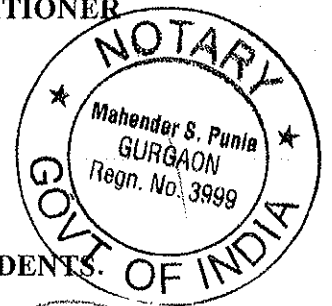
PETITION NO.:

IN THE MATTER OF: Approval under Regulation-86 of CERC (Conduct of Business) Regulations'1999 and CERC (Terms and Conditions of Tariff) Regulations'2009 for determination of Transmission Tariff for 1) 400kV 125MVAR Bus Reactor at 765kV Indore S/S along with associated bays (DOCO: 1.10.2013) 2) 400kV 125MVAR Bus Reactor-I and Bus Reactor-II at 765kV Gwalior S/S along with associated bays (DOCO: 1.10.2013) 3) 765 kV D/C Jabalpur Pooling Station-Bina Ckt-I with 240 MVAR Switchable Line Reactors and associated bays (Ant. DOCO:1.01.2014) 4) 765 kV D/C Jabalpur Pooling Station - Bina Ckt-II with 240 MVAR Switchable Line Reactors and associated bays (Ant. DOCO:1.03.2014) under "Transmission System for Phase-I Generation Projects in Orissa Part-C" in Western Region for 2009-14.

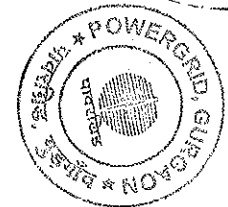
Power Grid Corporation of India Ltd.
(Govt. of India undertaking)
Registered office: B-9, Qutab Institutional Area,
Katwaria Sarai, New Delhi. 110 016.
Corporate Centre : 'SAUDAMINI', Plot No-2,
Sector-29, Gurgaon-122 001 (Haryana).

Maharashtra State Electricity Distribution Co. Ltd.
5th Floor, Prakashgad,
Bandra (East), Mumbai - 400 051
Represented By Its Chief Engineer (Power Purchase Cell)
And others

--- PETITIONER



---RESPONDENTS.



Affidavit verifying the Petition

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

स. स. राजु

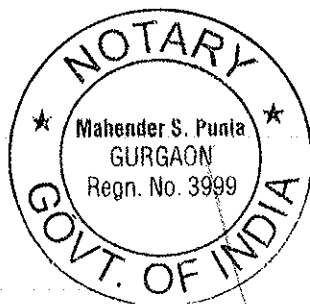
1. I am the Dy. General Manager (Commercial) of Power Grid Corporation of India Ltd., the representative of the Petitioner in the above matter, and am duly authorized to make this affidavit.
2. I submit that the enclosed tariff Petition is being filed for determination of 1)400kV 125MVAR Bus Reactor at 765kV Indore S/S along with associated bays (DOCO: 1.10.2013) 2) 400kV 125MVAR Bus Reactor-I and Bus Reactor-II at 765kV Gwalior S/S along with associated bays (DOCO: 1.10.2013) 3)765 kV D/C Jabalpur Pooling Station-Bina Ckt-I with 240 MVAR Switchable Line Reactors and associated bays (Ant. DOCO:1.01.2014) 4) 765 kV D/C Jabalpur Pooling Station - Bina Ckt-II with 240 MVAR Switchable Line Reactors and associated bays (Ant. DOCO:1.03.2014) under "Transmission System for Phase-I Generation Projects in **Orissa Part-C**" in Western Region for 2009-14.
3. I submit that no other tariff Petition except this Petition has been filed directly or indirectly for approval of tariff 1)400kV 125MVAR Bus Reactor at 765kV Indore S/S along with associated bays (DOCO: 1.10.2013) 2) 400kV 125MVAR Bus Reactor-I and Bus Reactor-II at 765kV Gwalior S/S along with associated bays (DOCO: 1.10.2013) 3)765 kV D/C Jabalpur Pooling Station-Bina Ckt-I with 240 MVAR Switchable Line Reactors and associated bays (Ant. DOCO:1.01.2014) 4) 765 kV D/C Jabalpur Pooling Station - Bina Ckt-II with 240 MVAR Switchable Line Reactors and associated bays (Ant. DOCO:1.03.2014) under "Transmission System for Phase-I Generation Projects in **Orissa Part-C**" in Western Region for 2009-14.
4. 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.

(DEPONENT)

VERIFICATION

Solemnly affirmed at Gurgaon on this 29th day of October 2013 that the contents of the above affidavit are true to my knowledge and belief and no part of it is false and nothing material has been concealed there from.

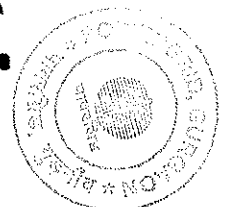
(DEPONENT)



ATTESTED

MAHENDER S. PUNIA
ADVOCATE & NOTARY
DIST. GURGAON (Haryana) India

29 OCT 2013



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

PETITION NO.:

IN THE MATTER OF: Approval under Regulation-86 of CERC (Conduct of Business) Regulations'1999 and CERC (Terms and Conditions of Tariff) Regulations'2009 for determination of Transmission Tariff
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Power Grid Corporation of India Ltd.
(Govt. of India undertaking)

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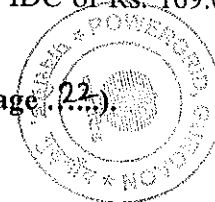
Registered office: B-9, Qutab Institutional Area,
Katwaria Sarai, New Delhi 110 016 and
Corporate office: "Saudamini", Plot no.2,
Sector-29, Gurgaon -122 001. (Haryana)

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) The Petitioner herein, Power Grid Corporation of India Ltd. is a Government Company within the meaning of Companies Act, 1956. The Petitioner is also discharging the statutory functions under various applicable provisions, including in particular section 28 and 38 of the Electricity Act, 2003. 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.
- 2) That, Hon'ble Commission have notified CERC (Terms and Conditions of Tariff) Regulations, 2009, in accordance with which tariff based on capital cost of the transmission projects shall be determined. These Regulations have come in to force on 1.4.2009 and shall remain in force for a period of 5 years, unless reviewed earlier or extended by the Hon'ble Commission.
- 3) **Approval of the Scheme**
That the petitioner has been entrusted with the implementation of Transmission System for Phase-I Generation Projects in Orissa Part-C in Western Region. Investment approvals for the said system was accorded by Board of Directors of POWERGRID vide Memorandum C/CP/Orissa Ph-I IPPs(Part-C) dtd. 17.03.2011 at an estimated cost of Rs. 2569.25 crore including IDC of Rs. 169.02 crs. (based on 3rd Quarter, 2010 price level). **Encl.-1, page..16...to...21...**

The Schematic diagram of the same is attached hereto as **Encl. - 2, (page..22..)**



17.03.2011

Long Term Access Agreement has been entered into between the Petitioner and IPPs situated in Orissa on 24.02.2010. The petitioner had approached CERC for Regulatory Approval of High Capacity Power Transmission Corridors (including the system under consideration/assets covered in the instant petition) for which approval was granted by H'ble Commission vide order dtd. 31.05.2010. Thereafter, Investment approval for the said system was accorded by Board of Directors of POWERGRID vide Memorandum C/CP/Orissa Ph-I IPPs (Part-C) dtd. 17.03.2011 at an estimated cost of Rs. 2569.25 crore including IDC of Rs. 169.02 crs. (based on 3rd Quarter, 2010 price level). The scheme was approved in the 29th Standing Committee meeting of Western region held on 10.09.2009 where the generation developers and constituents of WR. The Transmission system was later discussed and agreed for implementation in the 11th WRPC held in Raipur on 25th Sept '2009. The relevant summary record of discussions held as stated above and the BPTA signed by various generators are enclosed as **Encl.-3, (page 2.3..to ..4.5.).**

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

Transmission Line:

- (i) Jabalpur Pooling Station-Bina 765kV D/c Line.
- (ii) Bina-Gwalior 765kV S/c(3rd Circuit) line.
- (iii) Gwalior-Jaipur 765kV S/c (2nd Circuit) Line.
- (iv) Jaipur-Bhiwani 765kV S/c Line

4) Implementation Schedule

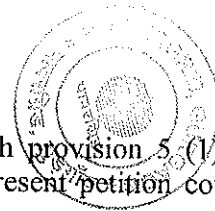
That details of asset covered in this petition under Transmission System for Phase-I Generation Projects in Orissa – Part-C in Western Region is as below:

S.No	Details of assets as per Petition being filed	DOCO
1	Asset I : 400kV 125MVAR Bus Reactor at 765kV Indore S/S along with associated bays	01.10.13
2	Asset II : 400kV 125MVAR Bus Reactor-I and Bus Reactor-II at 765kV Gwalior SS along with associated bays	01.10.13
3	Asset III : 765 kV D/C Jabalpur Pooling Station - Bina Ckt-I with 240 MVAR Switchable Line Reactors and associated bays	01.01.14 (Anticipated)
4	Asset IV: 765 kV D/C Jabalpur Pooling Station - Bina Ckt-II with 240 MVAR Switchable Line Reactors and associated bays	01.03.14 (Anticipated)

As per Investment Approval the project is scheduled to be commissioned by Mar '2014, i.e., DOCO as 01.04.2014. It is submitted that Asset-I & II covered in the petition have been commissioned and into commercial operation from 1.10.2013. Copy of notification for DOCO declaration is attached herewith as **Encl 4 (page no. 4.6 to 4.8.....)**. Further Asset-III & IV are anticipated to be commissioned within approved schedule. So there is no delay in completion of assets covered in the petition. The balance assets of the project are under various stages of implementation. So tariff petition for the same shall be filed progressively.

5) Completion Cost

That the application for determination of tariff is filed in line with provision 5 (1) & (2) of tariff Regulation 2009 applicable for 2009-14 period. Further, that the present petition covers approval of



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tariff based on actual/estimated expenditure incurred up to DOCO and additional capitalization projected to be incurred from DOCO to 31.03.2016 in respect of the subject asset as per detail given below. That the capital cost incurred upto DOCO and projected to be incurred during 2013-14, 2014-15 and 2015-16 is duly certified by auditors in auditor certificate; copy whereof in respect of the assets covered in this petition is enclosed herewith as Encl-5 (page 49... to 56)

(Rs in Lakhs)

S. No	Name of the asset	Apportioned approved cost	Estimated Exp. Up to Ant. DOCO	Estimated Exp. For FY 13-14	Estimated Exp. For FY 14-15	Estimated Exp. For FY 15-16	Total Est. Expenditure
1.	Asset I	925.00	740.97	167.35	90.35	39.40	1038.07
2	Asset II	1410.36	935.6	236.68	88.78	46.76	1307.82
3	Asset III	70258.35	68605.52	2836.36	7349.17	1811.89	80602.94
4	Asset IV	25112.26	21659.59	1110.34	3816.96	1271.68	27858.57
TOTAL		97705.97	91941.68	4350.73	11345.26	3169.73	110807.4

Against the apportioned approved cost of Rs 97705.97 lakhs, the anticipated completed cost as on anticipated DOCO is Rs.95944.65 lakhs and completed cost is Rs 110807.4 lakhs, so, there is marginal cost overrun in comparison to apportioned approved cost. The cost over run is mainly due to higher award cost received in competitive bidding as compared to initial estimates. The reasons for item wise cost variation between approved cost (FR) and actual cost as on DOCO are explained in detail in Form-5B. It is submitted that most of the assets covered under the project are yet to be commissioned. The comparison of actual cost with the approved cost of the project is to be seen in totality for the project as whole and not separately for each element. Therefore, Hon'ble Commission may kindly approve the capital cost of the elements covered under instant petition & allow following tariff as claimed. Initial spares may be allowed for the respective assets as claimed considering the overall ceiling limit of the whole project.

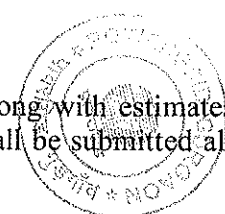
- 7) That the admissibility of additional capital expenditure (Add.-cap.) proposed during 2009-14 is to be dealt in accordance with the provisions of regulation 9(1), the extract of clause 9(1) of regulation 2009 is reproduced as under:

“Additional Capitalization”

The capital expenditure incurred or projected to be incurred, on the following counts within the original scope of work, after the date commercial operation and up to the cut-off date may be admitted by the Commission, subject to prudence check:

- (i) Undischarged liabilities
- (ii)
- (iii)
- (iv)
- (v)

Provided that the details of works included in the original scope of work along with estimates of expenditure, undischarged liabilities and the works deferred for execution shall be submitted along with the application for determination of tariff.



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7.1 The additional Capitalization incurred /projected to be incurred in the contextual assets is mainly on account of provisional price variation payments, final/Retention Payments,. Hon'ble Commission is prayed to award the same. The details of add cap is also mentioned in form 9 of the respective assets.

Asset-I

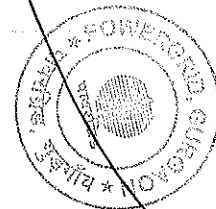
(Rs in Lakh)

Year	Work/Equipment proposed to be added after COD up to cut off date / beyond cut off date	Amount capitalized and proposed to be capitalized	Justification as per purpose
2013-14	Sub Station	167.35	Balance & retention payment
2014-15	Sub Station	90.35	Balance & retention payment
2015-16	Sub Station	39.40	Balance & retention payment
Total		297.10	

Asset-II

(Rs in Lakh)

Year	Work/Equipment proposed to be added after COD up to cut off date / beyond cut off date	Amount capitalized and proposed to be capitalized	Justification as per purpose
2013-14	Sub Station	236.68	Balance & retention payment
2014-15	Sub Station	88.78	Balance & retention payment
2015-16	Sub Station	46.76	Balance & retention payment
Total		372.22	



Asset-III

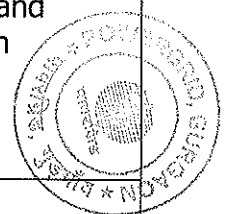
(Rs in Lakhs)

Year	Work/Equipment proposed to be added after COD up to cut off date / beyond cut off date	Amount capitalized and proposed to be capitalized	Justification as per purpose
2013-14 01.03.2013 to 31.03.2014	Civil works	182.06	Balance and Retention Payment
	Transmission Line	1307.87	
	Sub Station	1335.81	
	PLCC	10.62	
	Total	2836.36	
2014-15	Civil works	182.06	Balance and retention Payment
	Transmission Line	4262.60	
	Sub Station	2884.16	
	PLCC	20.35	
	Total	7349.17	
2015-16	Civil works	182.06	Balance and Retention Payment
	Transmission Line	538.07	
	Sub Station	1084.51	
	PLCC	7.25	
	Total	1811.89	
Total		11997.41	

Asset-IV

(Rs in Lakhs)

Year	Work/Equipment proposed to be added after COD up to cut off date / beyond cut off date	Amount capitalized and proposed to be capitalized	Justification as per purpose
2013-14	Transmission Line	101.40	Balance and Retention Payment
	Sub Station	996.34	
	PLCC	12.60	
	Total	1110.34	
2014-15	Civil works		Balance and Retention Payment
	Transmission Line	240.92	
	Sub Station	3548.10	
	PLCC	27.94	
	Total	3816.96	
2015-16	Civil works		Balance and Retention Payment
	Transmission Line	54.09	
	Sub Station	1211.52	
	PLCC	6.07	
	Total	1271.68	
Total		6198.98	



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8.0) TRANSMISSION TARIFF

8.1 The tariff for block 2009-2014 has been worked out as per CERC (Terms and Conditions of Tariff) Regulations, 2009, issued vide notification dated. 19.01.2009. In the present petition the transmission tariff has been calculated taking actual expenditure upto DOCO and projected additional capitalization from DOCO to 31.03.2014. Calculations for working out the tariff along with supporting documentation are attached hereto as Encl.- 6, (page 57. to 59...).

The annual transmission tariff for the tariff period 2009-14 is summarized as below:

(Rs in Lakhs)						
Sl No	Name of the asset	2009-10	2010-11	2011-12	2012-13	2013-14 (pro-rata)
1.	Asset-I(DOCO 1.10.13)	-	-	-	-	100.99
2	Asset-II(DOCO 1.10.13)	-	-	-	-	85.66
3	Asset-III(Ant.DOCO-1.1.14)	-	-	-	-	2874.51
4.	Asset-IV(Ant. DOCO 1.3.14)	-	-	-	-	334.42

O & M Expenses

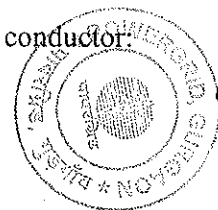
It is submitted that Asset-III & IV- 765 kV D/C Jabalpur Pooling Station - Bina Ckt-I and Ckt-II with 240 MVAR Switchable Line Reactor and associated bays is with 6 (six) number of sub-conductors. Transmission lines with six number sub-conductors are going to be commissioned for the first time in POWERGRID system during 2013-14. Prior to 2013-14 there were no such transmission lines and hence unit normative O & M rates for these types of lines have not been specified in the Tariff Regulations 2009.

In Tariff Regulations 2009, following unit normative O & M rates for S/C transmission lines has been indicated:

Rs. Lacs / Km					
No. of Sub-conductor	2009-10	2010-11	2011-12	2012-13	2013-14
Bundled conductor	0.537	0.568	0.600	0.635	0.671
Twin & Triple	0.358	0.378	0.400	0.423	0.447
Single	0.179	0.189	0.200	0.212	0.224

Based on the above, the increase in O&M expenditure in number of times for transmission lines of different sub-conductor with respect to single conductor have been calculated & are given below

O&M norms increased in number of times for other conductor w.r.t single conductor:



No. of Sub-conductor	2009-10	2010-11	2011-12	2012-13	2013-14
Bundled conductor	2.201	3.005	3.00	2.995	2.996
Twin & Triple	2.00	2.00	2.00	1.995	1.996
Single	1	1	1	1	1

From the above table it is seen that O&M expenditure for twin / triple conductor has been increased by 2 times that of single conductor and for bundled conductor (4) it is 3.0 times of single conductor. These clearly indicate that transmission lines with different number of sub-conductors have different O&M expense.

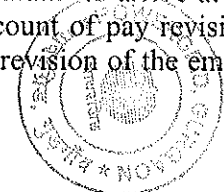
Now, transmission lines with 6 numbers of sub-conductors are being commissioned and hence the O&M expenditure for these types of transmission lines needs to be taken care of appropriately. The man and material requirement for maintenance in case of transmission lines with hexagonal type of conductor will be higher than the transmission lines with four sub-conductors and hence the maintenance cost as the towers will be much heavier with increased load carrying capability to take care of these additional loads of conductors and additional hardware.

One of the alternatives is the average concept i.e. the average difference in O&M norms for different number of sub-conductors for the year 2013-14 and the same is Rs. 0.223 Lacs. per km. Hence the average difference amount may be added to the rate of TL with 4 number sub-conductors to derive the rate of S/C line with 6 number of sub-conductors. Therefore the O&M charges for tariff for S/C transmission lines with hexagonal conductors = Rs. (0.671 + 0.223) = Rs. 0.894 lacs per km. Thus, the O & M expense calculations for Asset -III& Asset-IV have been carried out keeping in view the above justification.

- 8.2 Depreciation for 2009-14 period has been calculated as per straight line method and rates as specified in appendix III of the Regulation 2009 and these details are provide in Form-11.
- 8.3 That, it is submitted in the Tariff indicated at 8.3 above, the ROE has been calculated @17.481 % based on the rate notified by the Hon'ble Commission as per illustration under regulation 15 (4) (i) of the CERC (Terms and Conditions of Tariff) Regulations, 2009. It is further submitted that the above rate of 17.481% is based on the MAT rate of 11.33 % being applicable for the year 2008-09.

That further in line with the amendment dated 21.06.2011 to Regulation 15 of the Principal Tariff Regulation dated 19.01.2009, the petitioner shall be allowed to recover the shortfall or refund the excess Annual Fixed Charges, on account of rate 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. Further, Annual Fixed charges with respect to Tax rates applicable shall be trued up in accordance with Regulation 6 of the Principal Regulations

- 8.4 The transmission charges at para 9.1 above is inclusive of O&M expenses for the project derived based on the norms for O&M expenditure as specified under regulation 19(g) of the tariff regulations for block 2009-14. It is the understanding of the petitioner that these norms for O&M expenditure been arrived by the Hon'ble Commission after considering (i) normalized actual O&M expenses of the petitioner on its various projects in various regions during the year 2003-04, 2004-05, 2005-06, 2006-07, 2007-08, (ii) the base norms so arrived is escalated at 5.72% per annum to arrive at norms for years of tariff period 2009-14, (iii) and also wage hike of 50% on account of pay revision of the employees of Public Sector Undertakings. It is submitted that the wage revision of the employees of



एस. एस. 2

the petitioner company has already been done. The petitioner may approach the Commission for additional manpower cost on account of wage revision (if, any) during the tariff block 2009-14 for claiming in the tariff.

Petitioner submits that the License fee has been a new component of cost to the Transmission license under O&M stage of the project and has become incidental to the petitioner / CTU only from 2008-09.

It is therefore submitted that License fee shall be recovered separately from the respondents as per CERC (Terms and Conditions on Tariff) (Third Amendment), Regulations, 2012 issued vide date 31.12.2012, para 13 "Addition of New Regulation to the Principal Regulations 42A. (1) (b)."

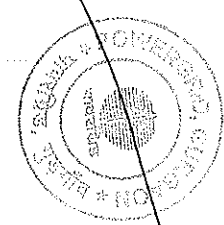
- 8.5 The Transmission Charges and other related Charges indicated at para 9 above, is exclusive of incentive, late payment surcharge, FERV, any statutory taxes, levies, duties, cess, filing fees, license fee or any other kind of imposition (s) and/ or other surcharges etc. whatsoever imposed / charged by any Government (Central/State) and / or any other local bodies/authorities/regulatory authorities in relation to transmission of electricity, environmental protection, and/or in respect of any of its installation associated with the Transmission System and the same shall be borne and additionally paid by the respondent(s) to the petitioner and the same shall be charged, billed separately by the petitioner on the respondents.
- 8.6 Service tax on transmission has been put in the negative list w.e.f. 01.04.2012 and accordingly the Transmission Charges indicated at para 8.1 above, is exclusive of Service Tax and the same shall be borne and additionally paid by the respondent(s) to the petitioner and the same shall be charged, billed separately by the petitioner if at any time the transmission charges is withdrawn from the negative list.
- 8.7 That Interest on Loan has been calculated on the basis of rate prevailing as on DOCO. 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 as was being followed during the tariff block 2004-09.

9.0 **Sharing of Transmission Charges**

Tariff for Transmission of Electricity (Annual Fixed Cost) as per para 8.1 of petition shall be recovered on monthly basis and the billing collection and disbursement of Transmission Charges shall be governed by provision of CERC (sharing of interstate Transmission Charges and Losses) Regulations, 2010.

The Petitioner submits that the Encl.-1 to Encl.-6 may please be treated as integral part of this petition.


14.04.12



PRAYER

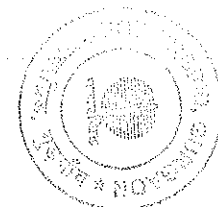
It is respectfully prayed that the Hon'ble Commission may be pleased to

- 1) Approve the Transmission Tariff for the assets covered under this petition, as per para -8.0 above. The billing shall be done from the actual date of commercial operation.
 - 2) Approve the Additional Capitalization incurred / projected to be incurred.
 - 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 the Commission.
 - 4) Approve the reimbursement of expenditure by the beneficiaries towards petition filing fee, and publishing of notices in newspapers in terms of Regulation 42 CERC (Terms and Conditions of Tariff) Regulations, 2009, and other expenditure (if any) in relation to the filing of petition.
 - 5) 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 2009-14 period, if any, from the respondent.
 - 6) Allow the Petitioner to bill and recover 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.
 - 7) Allow the petitioner to bill and recover Licensee fee separately from the respondents as per CERC (Terms and Conditions on Tariff) (Third Amendment), Regulations, 2012 issued vide date 31.12.2012, para 13 "Addition of New Regulation to the Principal Regulations 42A. (1) (b)."
 - 8) Allow provisional tariff in accordance with clause (3) of Regulation 5 Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2009 (First and Second Amendment).
 - 9) Allow the petitioner to bill Tariff from actual DOCO.
- and pass such other relief as Hon'ble Commission deems fit and appropriate under the circumstances of the case and in the interest of justice

Filed by
Power Grid Corporation of India Ltd.
Represented by

S. S. Raju
Dy. General Manager (Commercial)

Gurgaon

DAIED: 29.10.2013



ENGL-1

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



केन्द्रीय कार्यालय : "सौदामिनी" प्लॉट सं. 2, सेक्टर-29, गुडगाँव-122 001, हरियाणा
फोन : 0124-2571700-719, फैक्स : 0124-2571760, 0124-2571761 तार 'नेटग्रिड'
Corporate Office : "Saudamini" Plot No. 2, Sector-29, Gurgaon-122 001, Haryana
Tel. : 0124-2571700-719, Fax: 0124-2571760, 0124-2571761 Gram : 'NATGRID'

संदर्भ संख्या / Ref. No.

C/CP/ Orissa Ph-I IPPs (Part-C)

March 17, 2011

MEMORANDUM

SUB: INVESTMENT APPROVAL FOR "TRANSMISSION SYSTEM FOR PHASE-I GENERATION PROJECTS IN ORISSA - PART-C".

The Board of Directors of POWERGRID, in exercise of powers delegated to it by the Department of Public Enterprises (DPE), Ministry of Heavy Industries and Public Enterprises, Government of India through its Office Memorandum No. 26(3)/2005-GM-GL-92 dated 1st May, 2008 and Office Memorandum No. DPE/11(2)/97-Fin. dated 22nd July, 1997 (modified subsequently through Office Memorandum No. 18(24)/2003-GM-GL.64 dated 5th August, 2005), have accorded investment approval for "Transmission System for Phase-I Generation Projects in Orissa - Part-C" in its 250th meeting held on March 15, 2011, as per the details given below:

1. Scope of project

Broad scope of works under the project is given below:

Transmission Lines

- Jabalpur Pooling station-Bina 765kV D/c line
- Bina-Gwalior 765kV S/c (3rd circuit) line
- Gwalior-Jaipur 765kV S/c (2nd circuit) line
- Jaipur-Bhiwani 765kV S/c line

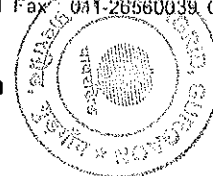
2. Project Cost & Funding

The estimated cost of the project based on 3rd Quarter, 2010 price level is **Rs. 2569.25 Crore** including IDC of Rs. 169.02 Crore. The abstract cost estimate is attached as **Annexure-I**.

This project is proposed to be implemented through domestic borrowings and POWERGRID's internal resources with a debt: equity ratio of 70:30.

पंजीकृत कार्यालय : बी-9, कुतब इंस्टीट्यूशनल एरिया, कलवारीया सराय, नई दिल्ली-110016 दूरभाष : 011-26560121 फैक्स : 011-26560039 तार 'नेटग्रिड'
Registered Office : B 9, Qutab Institutional Area, Kalwaria Sarai, New Delhi-110016 Tel. : 011-26560121 Fax : 011-26560039 Gram : 'NATGRID'

स्वहित एवं राष्ट्रहित में ऊर्जा बचाएं
Save Energy for Benefit of Self and Nation



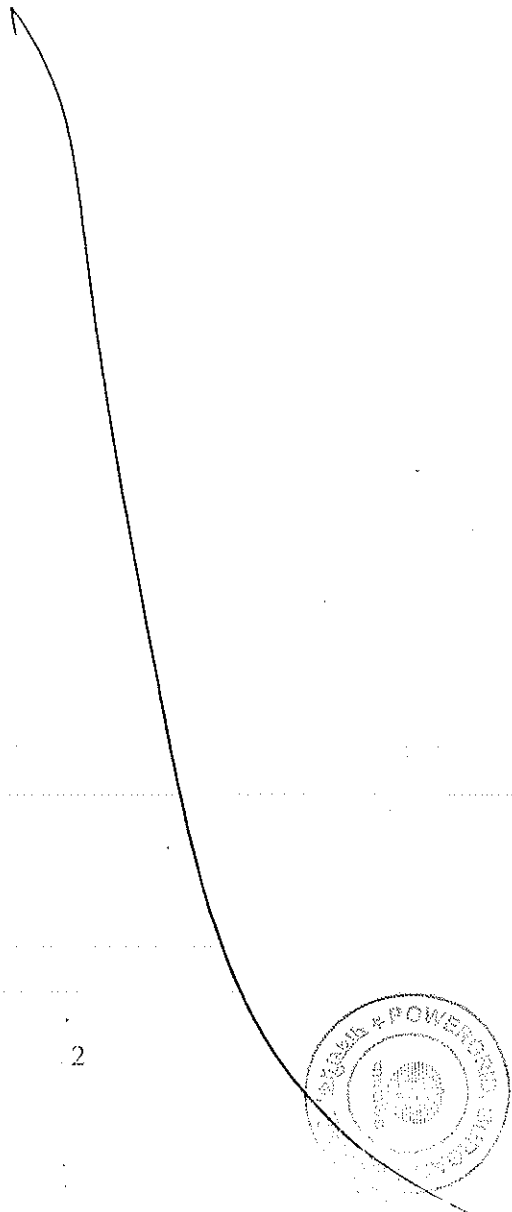
3. Implementation Schedule

The project is scheduled to be commissioned within **36 months** from the date of investment approval.

This is issued in pursuance of 250th meeting of Board of Directors held on March 15, 2011.

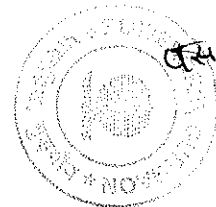
Seema Gupta
17/3/11
(Seema Gupta)
General Manager (CP)

Seema Gupta



Distribution:

1. PS to Secretary (Power), MoP, Shram Shakti Bhawan, New Delhi – 110 001
2. Chairman, CERC, Core-3, 6th floor, SCOPE complex, New Delhi – 110 003
3. Chairman, CEA, R.K.Puram, New Delhi – 110 066
4. Commissioner, Power Development Deptt., Govt. of Jammu & Kashmir, Mini Secretariat, Jammu
5. Chairman, Himachal Pradesh SEB, Vidyut Bhawan, Kumar House Complex Building-II, Shimla – 171 004
6. Chairman, Punjab State Electricity Board, The Mall, Patiala – 147 001
7. CMD, Haryana Vidyut Prasaran Nigam Ltd., Shakti Bhawan, Sector-6, Panchkula (Haryana) – 134 109
8. CMD, Rajasthan State Electricity Board, Vidyut Bhawan, Vidyut Marg, Jaipur – 302 005
9. CMD, UPPCL, Shakti Bhawan, 14, Ashok Marg, Lucknow – 226 001
10. CMD, Uttarakhand Power Corporation Ltd., Kaulagarh Power House, FRI complex, Dehradun – 248 006
11. CMD, Delhi Transco Limited (DTL), Shakti Sadan, Kotla Road, New Delhi-02
12. Chief Engineer, Electricity Deptt., Chandigarh Administration, Mini Secretariat (U.T.), Sector-9, Chandigarh
13. Member Secretary, NRPC, 18/A, Shaheed Jeet Singh Sansanwal Marg, Katwaria Sarai, New Delhi – 110 016
14. Chairman, Maharashtra State Electricity Board, Hongkong Bank Bldg, 4th floor, MG Road, Fort, Mumbai – 400 051
15. Chairman, Madhya Pradesh State Electricity Board, Shakti Bhawan, PB No. 34, Rampur, Jabalpur – 482 008
16. Chairman, Gujarat Electricity Board, Vidyut Bhawan, Race Course, Baroda, Gujarat
17. Secretary (Power), Govt. of Goa, Vidyut Bhawan, Near Mandvi Hotel, Panaji, Goa – 403 001
18. Chairman, Chhattisgarh State Electricity Board, PO– Sundamagar, Dangania, Raipur, Chhattisgarh – 492 013
19. Secretary (Power), Electricity Department, Administration of Dadra Nagar Haveli, U.T. Silvassa – 396 230
20. Secretary (Power), Electricity Department, Administration of Daman and Diu, U.T. Daman – 396 210
21. Member Secretary, WRPC, MIDC Area, Marol, Andheri East, Mumbai – 400094
22. Chairman, BSEB, Bidyut Bhawan, Bailey Road, Patna – 800 001



23. Chairman, WBSEB, Bidyut Bhawan, Bidhan Nagar, Block- DJ, Sector-II, Salt Lake City, Kolkata – 700 091
24. Chairman, JSEB, Jharkhand Vidyut Bhawan, Nepal House, Doranda, Ranchi– 02
25. Secretary (Power), Power Department, Govt. of Sikkim, Gangtok – 727 102
26. CMD, GRIDCO, Vidyut Bhawan, Janpath, Bhubaneswar – 751 007
27. Member Secretary, ERPC, 14, Golf Club Road, Kolkata – 700 033
28. Advisor, PAMD, Planning Commission, Yojana Bhawan, New Delhi
29. Advisor, PAMD, Planning Commission, Yojana Bhawan, New Delhi
30. Member Secretary, Planning Commission, Yojana Bhawan, New Delhi
31. Member (Power Systems), CEA, R.K.Puram, New Delhi – 110 066
32. Secretary, CEA, Sewa Bhawan, R.K.Puram, New Delhi–110 066 – **03 copies**
33. Joint Secretary (Trans.), MoP, Shram Shakti Bhawan, New Delhi
34. Joint Secretary & Financial Advisor, MoP, Shram Shakti Bhawan, New Delhi
35. Director (Trans.), MoP, Shram Shakti Bhawan, New Delhi
36. Joint Secretary (Plan Finance Div.-II), Ministry of Finance, North Block, New Delhi
37. Director (Plan Finance-II Div.), Ministry of Finance, North Block, New Delhi
38. Joint Secretary, Ministry of Statistics & Programme Implementation, Sardar Patel Bhawan, New Delhi
39. Deputy Secretary, Cabinet Secretariat, Rashtrapati Bhawan, New Delhi
40. Under Secretary, Finance & Budget Section, MoP, New Delhi

2 Amt
17/3/11
(Seema Gupta)
General Manager (CP)

17.3.11



Distribution:

CEO, POSOCO

ED: Engg.-SEF, CE & IT / Comml. / Finance – Sh. R. T. Agarwal / CS & MM / HR/ Finance – Sh. V. C. Jagannathan / Engg.-HVDC & QA&I / Telecom / LD&C / OS / NR-I / NR-II / WR-I / WR-II / ER-I / ER-II

GM: Engg.-TL & SS / ESMD / CMG

Dy. CVO

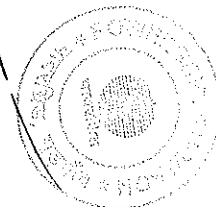
Company Secretary

For kind information of:

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

2/17/11
(Seema Gupta)
General Manager (CP)

24.02.11



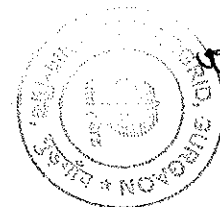
ABSTRACT COST ESTIMATE
(BASE COST)

TRANSMISSION SYSTEM FOR PHASE-I GENERATION PROJECTS IN ORISSA
(PART-C)

(Cost updated to 3rd Qtr. 2010 price level)

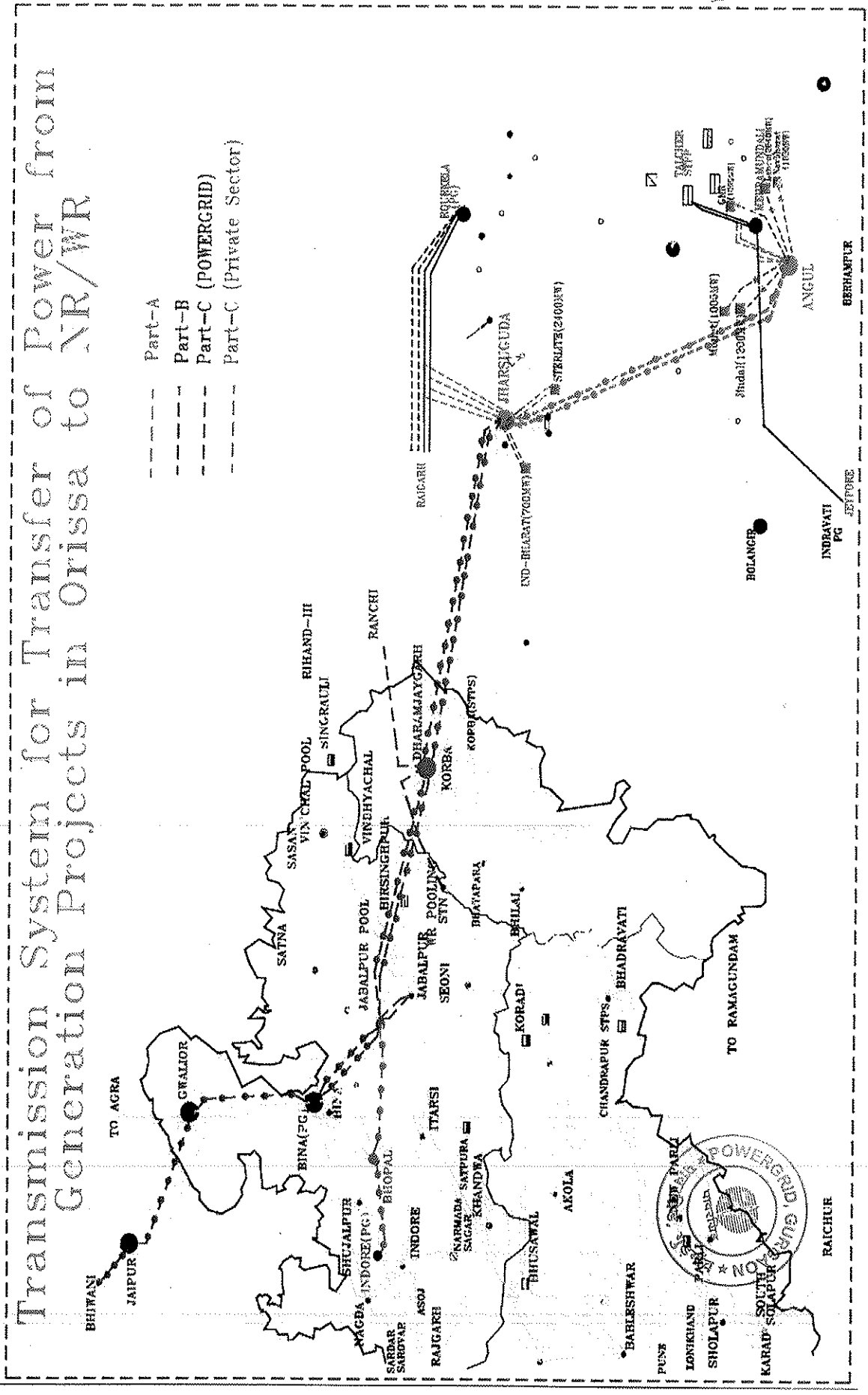
Sr. No.	DESCRIPTION	AMOUNT (Rs. in Crs.)
A	Preliminary Survey & Soil Investigation	1.03
B	Land acquisition for S/Stn and R&R Compensation	0.00
C	Cost of compensation for Trans. Lines	
	i) Compensation towards Crop & PTCC	15.08
	ii) Compensation towards forest	29.46
D	Civil Works	
	i) Infrastructure for substations	1.20
	ii) Non Residential Buildings	0.00
	iii) Colony for Trans. Lines and S/stn	10.72
E	Equipment (Supply & Erection) Cost	
	a) Trans.Lines	1770.39
	b) Sub-Stations	389.10
F	Sub Total A to E	2216.97
G	Maintenance during construction	
H	Engg. & Administration	@ 5% of [F - C(ii)]
I	Losses on Stock	
J	Contingencies @ 3% of [F - C(ii)]	65.63
K	Centages & Contingencies @ 8% on Compensatory Afforestation (considering Rs.45,000 per Ha) 260 Ha	0.09
L	Overheads payable to SEBs	8.16
	Sub Total (A to L)	2400.23
M	Interest During Construction(IDC)	169.02
	GRAND TOTAL	2569.25

Note: 1. Loan has been assumed to be available from Domestic sources.
2. Interest rate on Loan has been considered @ 10.5% for Domestic Loan subject to actuals.
3. Debt/Equity ratio has been considered as 70:30.
4. The project is scheduled to be commissioned within 36 months from the date of investment approval.



Transmission System for Transfer of Power from Generation Projects in Orissa to NR/WR

- Part-A
- Part-B (POWERGRID)
- Part-C (Private Sector)



ENCLOSURE

Central Electricity Authority
System Planning & Project Appraisal Division
Sewa Bhawan, R.K. Puram, New Delhi - 110066.

No. 26/10/2009-SP&PA/

Date: 17th Sep., 2009

To

- | | | | |
|----|--|----|--|
| 1 | The Member (PS),
Central Electricity Authority,
Sewa Bhawan, R. K. Puram,
New Delhi-110066 | 8 | Shri M.L Jadhav, Chief Engineer (Trans),
Nuclear Power Corp. of India Ltd.,
9S30, VS Bhavan, Anushakti Nagar,
Mumbai-400094
Fax 022-25993570 |
| 2 | The Member Secretary,
Western Regional Power Committee,
MIDC Area, Marol, Andheri East, Mumbai
Fax 022 28370193 | 9 | The Executive Director (Engg.),
NTPC Ltd., Engg. Office Complex,
A-8, Sector-24, NOIDA 201301
Fax 0124-2410201 |
| 3 | The Director (Projects),
Power Grid Corp. of India Ltd.,
"Saudamini", Plot No. 2, Sector-29,
Gurgaon-122001
Fax 95124-2571760 | 10 | The Chief Engineer,
Electricity Department,
The Government of Goa, Panaji
Fax 0832 2222354 |
| 4 | Chairman and Managing Director,
MPPTCL, Shakti Bhawan,
Rampur, Jabalpur-482008
Fax 0761 2685593 | 11 | Executive Engineer (Projects)
UT of Dadra & Nagar Haveli,
Department of Electricity , Silvassa
Ph. 0260-2642787 |
| 5 | Member (Transmission & Distribution),
Chhatisgarh State Electricity Board,
Dangania, Raipur (CG)-492013
Fax 0771 4088566 | 12 | Executive Engineer
Administration of Daman & Diu (U.T.)
Department of Electricity
Moti Daman-396220
Ph. 0260-2250889, 2254745 |
| 6 | The Managing Director,
GETCO, Sardar Patel Vidyut Bhawan,
Race Course, Baroda-390007
Fax 0265-2338152 | 13 | ED, WRLDC (Special invitee)
Plot no F-3, MIDC Area, Msarol,
Andheri(East) Mumbai-400093
Fax no 022-28235434 |
| 7. | Director (Operation),
MAHATRANSCO, 'Prakashgad', Plot
No.G-9, Bandra-East, Mumbai-400051
Fax 022-26390383/26595258 | | |

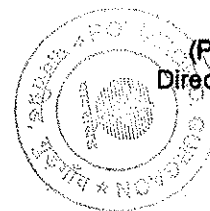
Sub: Minutes of the 29th meeting of the Standing Committee on Power System Planning in Western Region held on 10th Sept 2009 at Ahmedabad

Sir,

The minutes of the 29th meeting of the Standing Committee on Power System Planning of Western Region held on 10th Sept 2009 at Ahmedabad are available on CEA website (www.cea.nic.in) at the following link: Home page-Power Systems-Standing Committee on Power System Planning-Western Region).

Yours faithfully,

(P. K. Pahwa)
Director, SP&PA



भारत सरकार
केन्द्रीय विद्युत प्राधिकरण
प्रणाली योजना एवं परियोजना मूल्यांकन प्रभाग
सेवा भवन, रामकृष्णपुरम, नई दिल्ली 110066

क. सं. : 26/10/2009-प्र. यो. प. मू./

दिनांक: 17.09.2009

- | | | | |
|---|---|----|--|
| 1 | सदस्य (विद्युत प्रणाली),
केन्द्रीय विद्युत प्राधिकरण,
सेवा भवन, आर के पुरम,
नई दिल्ली-110066 | 8 | श्री एम एल जाधव, मुख्य अभियंता (पारेषण),
न्यूक्लीयर पावर कॉरपोरेशन ऑफ इंडिया लि,
9एस30, वीएस भवन, अणुशक्ति नगर,
मुम्बई-400094 फैक्स सं. 022-25993570 |
| 2 | सदस्य सचिव,
पश्चिमी क्षेत्रीय विद्युत समिति, एम. आई. डी. सी क्षेत्र,
मैरोल, अंधेरी पूर्व, मुम्बई-400094
फैक्स सं. 022-28370193 | 9 | कार्यपालक निदेशक (अभियंत्रिकी),
नेशनल थर्मल पावर कॉरपोरेशन लि,
इंजीनियरिंग ऑफिस कॉम्प्लेक्स, ए-8, सेक्टर-24,
नोएडा-201301 फैक्स सं. 0124-2410201 |
| 3 | निदेशक (परियोजना),
पावरग्रिड कॉरपोरेशन ऑफ इंडिया लि,
सौदागिनी, प्लॉट सं. 2, सेक्टर-29, गुडगाँव-122001
फैक्स सं. 95124-2571760 | 10 | मुख्य अभियंता,
विद्युत विभाग, गोवा सरकार, पणजी
फैक्स सं. 0832-2222354 |
| 4 | अध्यक्ष एवं प्रबन्ध निदेशक,
एम.पी.टी.सी.एल. शक्ति भवन,
रामपुर, जबलपुर-482008
फैक्स सं. 0761-2665593 | 11 | कार्यपालक इंजीनियर (परियोजनाएं),
दादरा एवं नाम्न हवेली संघ शासित क्षेत्र,
विद्युत विभाग, सिलवासा,
फोन नं. 0260-2642787 |
| 5 | सदस्य (पारेषण एवं वितरण)
छत्तीसगढ़ रा. वि. बोर्ड,
दानगनिया, रायपुर (छत्तीसगढ़) -492013
फैक्स सं. 0771-4066566 | 12 | कार्यपालक इंजीनियर,
विद्युत विभाग, दमन एवं दीव संघशासित क्षेत्र प्रशासन,
मोती दमन, पिन-396220
फोन नं. 0260-2250889, 2254745 |
| 6 | प्रबन्ध निदेशक,
जी.ई.ट्रा.नि.लि. सरदार पटेल विद्युत भवन,
रेस कोर्स, यड़ोदा-390007
फैक्स सं. 0265-2338152 | 13 | कार्यपालक निदेशक, (विशेष आमंत्रित),
डब्लू आर एल डी सी, प्लॉट संख्या-एफ 3,
एम आई डी सी एरिया, मैरोल,
अंधेरी पूर्व, मुम्बई-400093,
फैक्स संख्या-022-28235434 |
| 7 | निदेशक (प्रचालन),
महाद्वारको, प्रकाशगड, प्लॉट संख्या-जी 9,
बांद्रा-पूर्व, मुम्बई-400051
फैक्स 022-26390383/26595258 | | |

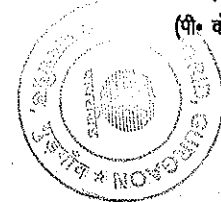
विषय :- पश्चिमी क्षेत्र की विद्युत प्रणाली योजना पर, 10 सितम्बर 2009 को अहमदाबाद में आयोजित की गयी, स्थाई समिति की 29वीं बैठक का कार्यवृत्त।

महोदय,

पश्चिमी क्षेत्र की विद्युत प्रणाली योजना पर, 10 सितम्बर 2009 को अहमदाबाद में आयोजित की गयी, स्थाई समिति की 29वीं बैठक का कार्यवृत्त केन्द्रीय विद्युत प्राधिकरण की वेबसाइट www.cea.nic.in पर लिंक (Home page - Power Systems-Standing Committee on Power System Planning-Western Region) पर उपलब्ध है।

संलग्न - [REDACTED]

एम. एम. 2



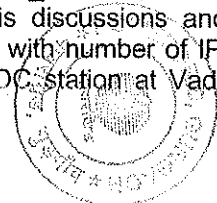
(पी. के. पाहवा)
निदेशक

पी. के. पाहवा
17/9/09

Aurangabad- Dhule-Vadodra 765 kV S/C. For further dispersal of power at 400 kV, Aurangabad-Khargar 400 kV D/C (quad), Vadodra-Asoj 400 kV D/C (quad), Dhule – Nasik 400 kV D/C (quad), Dhule – Malegaon 400 kV D/C (quad) had been proposed. Also interconnection at 400 kV between the new proposed 765 kV substations at Dhule, Padghe, Vadodara, Raipur pooling stations, Raigarh (Kotra) Pooling Stations to the existing substations was proposed. Also for bulk transfer of power from eastern part of Western Region to western part of Western Region a \pm 600 kV, 4000 MW HVDC bipole between Raigarh pooling station (Kotra) to Dhule was proposed and for bulk transfer of power to NR \pm 800 kV, 6000 MW HVDC bipole between Champa pooling station and around Kurushetra in Haryana was proposed with 3000 MW, 800 kV HVDC terminals at Champa and Kurushetra with provision to upgrade the terminals to 6000 MW.

- 3.3.2 POWERGRID stated that for evacuation of power from IPP projects in Orissa it was proposed to pool power from various IPPs located in Orissa at three number 765/400 kV pooling stations at Jharsuguda, Dhenkanal and Angul. The proposed pooling stations would be interconnected through 765 kV 2xS/C ring network and for onward transfer of power to NR and WR it was proposed to inject power at new pooling station at Dharamjaygarh in Chhattisgarh through Jharsuguda pooling- Dharamjaygarh 765 kV 2x D/c lines. In the phased development of transmission pooling stations at Jharsuguda and Angul were proposed to be set up along with the initial set of IPPs likely to materialise in Orissa which were located near to these two pooling stations. These two pooling stations were initially proposed to be interconnected through 765 kV, 2x S/C line. Subsequently, when more IPP projects materialize in Orissa, Dhenkanal pooling station could be established with 765 kV interconnections with between pooling stations. Out of the 2 no. 765 kV D/C lines from Jharsuguda to Dharamjaygarh one D/C line is proposed to be associated with Orissa IPP projects who had sought open access for transfer to WR/NR and the 2nd D/C line is proposed with IPP projects in SR who would had sought open access for selling power to NR/WR. From Dharamjaygarh power is proposed to be transferred to Jabalpur pooling station through 765 kV 2xD/C lines. Of the two D/c lines one D/C is proposed to be associated with Orissa IPPs and the 2nd D/C line is proposed as part of transmission system associated with Jharkhand IPPs and West Bengal projects who had sought open access for transfer of power to NR/WR. From Jabalpur pooling station onwards power would be transferred to NR through the proposed Jabalpur-Bina- Gwalior- Jaipur- Bhiwani 765 kV line. For transfer within WR Jabalpur-Bhopal-Indore- Vadodra 765 kV 1x S/C lines were proposed. From Vadodra a 400 kV D/C quad line was proposed up to Pirana. The 765 kV Jabalpur-Bhopal-Indore section of lines were proposed to be covered with Orissa IPPs and 765 kV Indore-Vadodra section and Vadodra- Pirana 400 kV quad were proposed to be covered with Madhya Pradesh generation projects and Chhattisgarh generation projects (pooled at Bilaspur). For IPP projects in Jharkhand and West Bengal in addition to the existing Ranchi-Sipat 400 kV and Ranchi-Sipat 765 kV S/c under construction a 765 kV Ranchi-Dharamjaygarh S/C line and a 765 kV Dharamjaygarh-Jabalpur 765 kV D/C line were proposed. For MP and Chhattisgarh projects which are proposed to be pooled at Bilaspur pooling station Indore-Vadodra 765 kV S/C and Vadodra –Pirana 400 kV D/C quad lines were proposed.
- 3.4 Member (PS), CEA stated that two pooling stations Raigarh (Kotra) and Raigarh (Tanmar) pooling stations had been planned and interconnected to reduce the ROW requirements as there was difficulty in laying transmission lines for projects located towards northern part of Raigarh. At present only Jindal Power project was planned to be connected to Raigarh (Tanmar). Jindal Power was yet to get coal linkage, therefore the implementation of Raigarh(Tanmar) pooling station should be linked with the progress of works at Jindal Power.
- 3.5 Member (PS) stated that POWERGRID had proposed to \pm 600 kV, 4000 MW HVDC from Raigarh to Vadodra in Gujarat. However based on his discussions and interaction with GETCO it is understood that GETCO had signed MOU with number of IPPs for setting up generation projects in their state. The location of HVDC station at Vadodra indicated in

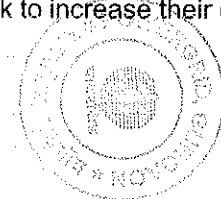
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agenda note would not be appropriate and hence the same had been reviewed and is now proposed at Dhule which was a major load centre.

- 3.6 Principal Secretary (Energy), Govt of Gujarat and Chairman GETCO and WRPC informed that many IPPs had signed MOUs with Gujarat Government for setting up projects in their state. He stated that there was a need to sort out the IPPs from the list which are likely to materialize and for evacuating power from these stations a strong National grid needs to be built so that beneficiaries are able to source their requirement from the IPP projects without constraint.
- 3.7 Member (PS), CEA endorsed Principal Secretary (Energy) views the need for segregating the serious IPPs from the non serious ones and stated that except for Videocon, none of the IPPs in Gujarat had approached the CTU for Open Access in Inter-state transmission. He stated that inter-state transmission requirements would be worked out after the IPPs seek Open Access in line with what had been done for IPP projects in other states.
- 3.8 Director (SP&PA) stated that the beneficiaries of Chhattisgarh IPP project had indicated WR and NR as their target beneficiaries and the common WR and NR transmission system included pooling stations along with their interconnections. It would be appropriate that pooling stations along with their interconnections be shown as specific to group of IPPs who would be getting connected to these pooling stations to avoid ambiguity in case at a later date the final beneficiaries are in the regions other than WR and NR. It was decided to indicate the pooling stations along with the interconnection as specific to a group of IPPs.
- 3.9 Member (PS), CEA stated that out of the proposed transmission works Jabalpur pooling station - Bhopal- Indore 765 kV S/C along with 765/400 kV substation at Bhopal, one D/C out of two Dharamjaygarh- Jabalpur 765 kV D/C, Aurangabad - Dhule - Vadodra 765 kV S/C along with 765/400 kV substation at Dhule and 400 kV connectivity to Dhule (MSETCL) were proposed for implementation through private sector under tariff based competitive bidding route. He further stated phasing of transmission works for Chhattisgarh had been done based on the commissioning schedule of various IPPs in Chhattisgarh and also interim arrangement for connectivity for those IPPs which are likely to come prior to availability of the network had been evolved. This temporary arrangement along with its restoration would be at the cost of the project developer. He requested the members to give their views on the proposed network.
- 3.10 Chhattisgarh representative was in agreement with the planned transmission system.
- 3.11 MAHATRANSCO representative while concurring with the planned network stated that connectivity between Aurangabad -Khargar 400 kV D/C line needs to be reviewed in to as Khargar was not a major load centre. It was decided that CEA, POWERGRID and MAHATRANSCO would jointly sort this out in a separate meeting and in case any change/modification of the terminal station at Dhule or connectivity to Khargar was required the same would be intimated to the members.
- 3.12 MD, GETCO concurred with the proposed network and stated that Gujarat was facing low voltage problems in Saurashtra area and desired CTU network may be extended to that area. Member (PS), CEA clarified that with Mundra (Adani) -Varsana 400 kV D/C line under implementation by GETCO the voltage levels in Saurashtra region would improve.
- 3.13 MPTRANSCO agreed with the proposed transmission network and stated that they were facing high voltage problems in MP area due to large number of CTU lines passing through MP. Member (PS), CEA clarified that line and bus reactors wherever required were already installed at CTU substations. To avoid over voltage problems there was need for MPTRANSCO to plan for more intra-state transmission network to increase their drawal from the CTU network.

AM. 1/11/12



The above interim arrangement is purely a temporary transmission arrangement to be carried out by the respective IPP and power transfer may take place on short-term open access basis. The LILO shall be removed and the line shall be restored in its original configuration by the respective developer, after interconnection of the generation project at the identified Pooling Station.

B. Madhya Pradesh Generation Projects and Chattishgarh Generation Projects (pooled at Bilaspur Pooling Point)

➤ **System strengthening in WR associated with above generation projects**

- (i) Indore - Vadodara 765kV S/c
- (ii) Vadodara – Pirana 400kV D/c(Quad)
- (iii) Establishment of 765/400kV 2x1500MVA Vadodara substation

➤ **Dedicated transmission System up to pooling point under the scope of Project Developer**

Maruti Clean Coal & Power Ltd. (300 MW)	(i) Maruti – WR Pooling Station(Bilaspur) 400 kV D/c (ii) Two nos of 400kV bays at WR Pooling Station (Bilaspur)
Dheeru Powergen (450MW) and PTC India(600MW)	(i) Dheeru Power Gen – WR Pooling Station (Bilaspur) 400 kV D/c (high capacity) (ii) Two nos of 400kV bays each at WR Pooling Station (Bilaspur)
Jaiprakash Power Ventures Ltd. (1320MW)	(i) Jaiprakash – Satna 400kV D/c (high capacity) (ii) Two nos of 400kV bays at Satna(POWERGRID)
Aryan Coal Benefications Pvt. Ltd. (1200MW)	(i) Aryan Coal – Vindhyaachal Pooling Station 400kV D/c (high capacity) (ii) Two nos of 400kV bays at Vindhyaachal Pooling Station (iii) 1X 1500 MVA, 765/400 KV transformer at Vindhyaachal Pooling Station (to be reviewed in light of 400 kV D/C interconnection between Vindhyaachal pool and Sasan)

C. Orissa IPP Projects

➤ **System strengthening common for WR and NR associated with Orissa IPPs.**

- (i) Establishment of 765kV switching substation at Dharamjaygarh
- (ii) Establishment of 2x1500 MVA, 765/400kV Jabalpur Pooling Station
- (iii) Jharsuguda Pooling Station – Dharamjaygarh (WR) 765kV D/c
- (iv) LILO of Ranchi – Sipat (Bilaspur) PS 765kV S/c line at Dharamjaygarh
- (v) Dharamjaygarh – Jabalpur Pool 765kV D/c line
- (vi) Jabalpur Pooling station – Jabalpur 400 kV D/c (high capacity)
- (vii) Jabalpur Pooling station – Bina 765kV D/c line
- (viii) Bina – Gwalior 765kV S/c (3rd circuit)

➤ **System strengthening in WR associated with Orissa IPPs.**

- (i) Establishment of 2x1500MVA, 765/400kV Bhopal Pooling Station. (Implementation by private sector through tariff based competitive bidding route)
- (ii) Jabalpur Pooling station – Bhopal 765kV S/c (Implementation by private sector through tariff based competitive bidding route)

UAT. UAT. 2





दिल्ली DELHI

AGREEMENT FOR LONG TERM ACCESS

T 102024

BETWEEN

POWER GRID CORPORATION OF INDIA LTD.

AND

FOUR LONG TERM TRANSMISSION CUSTOMERS

This Bulk Power Transmission Agreement entered into on the 24th day of February Two thousand Ten between **POWER GRID CORPORATION OF INDIA LIMITED**, 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 "**POWERGRID**" which expression shall unless repugnant to the context or meaning thereof include its successors and assigns) as party of the first part;

and

GMR Kamalanga Energy Ltd., a company incorporated under the companies Act, 1956 having its office at Skip House, 25/1, Museum Road, Bangalore – 560025 and



Monnet Power Company Limited., a company incorporated under the companies Act, 1956 having its office at Monnet Marg, Mandir Hasaud, Raipur -- 492101. and

Lanco Babandh Power Ltd., a company incorporated under the companies Act, 1956 having its office at Plot No. 397, Phase-III, 2nd Floor, Udyog Vihar, Gurgaon-122 016 and

Ind-Barath Energy (Utkal) Ltd., a company incorporated under the companies Act, 1956 having its office at Plot No. 30-A, Road No. 1, Film Nagar, Jubilee Hills, Hyderabad – 500 033 (A.P.)

(hereinafter collectively referred to as Long Term Transmission Customer and individually referred to as GMR Kamalanga Energy Ltd., Monnet Power Company Limited., Lanco Babandh Power Ltd. and Ind-Barath Energy(Utkal) Ltd respectively) which expression shall unless repugnant to the context or meaning thereof include its successors and assigns as party of the second, third, fourth and fifth respectively.

A) Whereas Long Term Transmission Customers are the Power Project Developers/state agency/consumer/electricity trader/distribution licensee and are desirous to avail Long Term Open Access in accordance with Central Electricity Regulatory Commission (Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State Transmission and related matters) Regulations, 2009 herinafter referred to as "Regulations", and Electricity Act 2003 (including their amendments if any) to Transmission System of POWERGRID for transfer of power from the respective places of generation to the places of delivery as per the details contained in the **Annexure-1**.

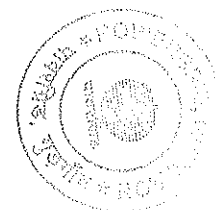
B) Whereas the comprehensive transmission system for above Long Term Open Access was evolved by CEA, developers, Constituents and POWERGRID which was discussed and finalized in various meetings.

C) The transmission system required for direct evacuation / dispatch of power from respective generating units to the pooling points of POWERGRID has been finalized in consultation with CEA, developers and Constituents and shall be built, owned, operated and maintained by respective Long Term Transmission Customers as indicated at **Annexure-2**.

D) The common transmission system to evacuate and dispatch power to respective beneficiaries from the generation projects, has been finalized in consultation with CEA, developers and Constituents and shall be built, owned, operated and maintained by POWERGRID as indicated at **Annexure- 3**.

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E) Each of the project developers i.e. the Long term transmission customer has agreed to share and bear the applicable transmission charges as decided by Central Electricity Regulatory Commission of the total transmission scheme as per Annexure-3 from the scheduled date of commissioning of respective generating units, corresponding to the capacity of power contracted from the said generation project through open access as indicated at Annexure-1 irrespective of their actual date of commissioning. The sharing mechanism for these transmission charges has been agreed to be as per **Annexure- 4** of this agreement.

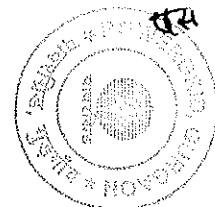
F) AND WHEREAS in accordance with Central Electricity Regulatory Commission Regulations 2009 and Electricity Act 2003(including their amendment if any) and in accordance with the terms mentioned above, POWERGRID has agreed to provide such open access required by these Long Term Transmission Customers from the date of availability of evacuation transmission system for the transfer of power as mentioned in Annexure 2 and Annexure 3 of this agreement.

G) AND WHEREAS the parties have agreed that in case any of the asset mentioned at Annexure 3 are executed, owned and operated by any agency(ies) other than POWERGRID, as per the directives of competent authority (for which POWERGRID would immediately inform all the parties) then the tariff of the same would be payable by the long term customer directly to the concerned agency(ies) through a separate Agreement to be entered by the Long term customer with the concerned agency(ies).

H) AND WHEREAS Long term transmission customers have agreed to share and pay all the transmission charges of POWERGRID in accordance with the regulation/tariff order issued by Central Electricity Regulatory Commission from time to time for the use of its Transmission System of the concerned Regions including inter regional links/ULDC/NLDC charges and any additions thereof in proportion to their proposed capacity addition as indicated at Annexure-1 of this Agreement. These charges would be shared and paid from the scheduled date of commissioning of respective generating units as indicated at Annexure-1.

I) AND WHEREAS it has become incumbent upon Long term Transmission Customers and POWERGRID to enter in to Bulk Power Transmission Agreement as envisaged under the Central Electricity Regulatory Commission Regulations, 2009 (including their amendments if any) for payment of above transmission charges.

J) AND WHEREAS the Bulk Power Transmission Agreement has already been entered into between POWERGRID and Bulk Power Beneficiaries of all the regions. A copy of BPTA entered into with constituents of Northern Region (with HVPNL) dated 16.10.2003, Western Region dated 31.3.1999, Eastern Region dated 16.09.2004 and Southern Region (with TNEB) dated 4.3.2006 are enclosed at Annexure A, Annexure B, Annexure C and Annexure D respectively. These



agreements are likely to be replaced on its renewal. The renewed/modified agreements would be generally in line with the Transmission Service Agreement (TSA) issued by Ministry of Power as part of standard bid documents for competitive bidding for transmission in accordance with Section 63 of the Act. Accordingly, on replacement of renewed/modified agreement in line with TSA, the same would become part of this agreement.

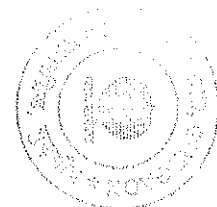
K) AND WHEREAS the Long term transmission customer is desirous of wheeling its power to its consumers through long term open access on the same terms and conditions as contained in the Bulk Power Transmission Agreement of the respective Region. Words and expressions used and defined in the Bulk Power Transmission Agreement at Annexure A, B, C and D shall have the same meaning assigned to them under the Electricity Act 2003 or Grid code or Central Electricity Regulatory Commission (Open Access in Inter-state transmission) Regulations, 2009, as the case may be (including their amendments if any).

Now, therefore in consideration of the premises and mutual agreements, covenants and conditions set forth herein, and in the Agreement as contained in the Annexure A, B, C and D attached hereto which shall form an integral part of this Agreement, it is hereby agreed by and between the parties as follows:

1.0 In accordance with Central Electricity Regulatory Commission Regulations 2009 and Electricity Act 2003(including there amendment if any) and in accordance with the term mentioned above, POWERGRID agrees to provide such open access required by these Long Term Transmission Customers from the date and in the manner mentioned in the Annexure 1, Annexure 2 , Annexure 3 and Annexure 4 of this agreement for a period of 25 years from the schedule date of open access of individual long-term open access customers (as specified in Annexure 1).

2.0 (a) Long term transmission customer shall share and pay the transmission charges in accordance with the regulation/tariff order issued by Central Electricity Regulatory Commission from time to time of POWERGRID transmission system of concerned applicable Region i.e. Northern Region / Western Region/Eastern Region and Southern Region including charges for inter regional links/ULDC/NLDC charges and any additions thereof. These charges would be applicable corresponding to the capacity of power contracted from the said generation project through open access from the scheduled date of commissioning of generating projects as indicated at Annexure-1 irrespective of their actual date of commissioning.

(b) Long term transmission customer shall share and pay the transmission charges of the transmission system detailed in Annexure-3 in accordance with the sharing mechanism detailed in



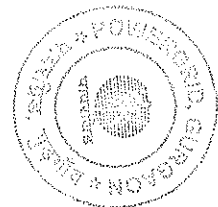
Annexure-4. In case, in future, any other long-term transmission customer(s) is/are granted open access through the transmission system detailed at Annexure-3 (subject to technical feasibility), he/they would also share the applicable transmission charges.

- (c) Each Long term transmission customer (including its successor/assignee) shall pay the applicable transmission charges from the date of commissioning of the respective transmission system which would not be prior to the schedule commissioning date of generating units as indicated by the respective developer as per Annexure-1. The commissioning of transmission system would be preponed only if the same is agreed mutually by concerned parties.
- (d) In addition to opening of LC for 105% of estimated average monthly billing for charges mentioned at 2(a) and 2(b) above, Long-Term Transmission customer would provide security in the form of irrevocable Bank Guarantee (BG), in favor of POWERGRID, equivalent to two months estimated average monthly billing, three months prior to the scheduled date of commissioning of generating units as indicated at Annexure-1. Initially the security mechanism shall be valid for a minimum period of three (3) years and shall be renewed from time to time till the expiry of the open access.
- (e) The estimated average transmission charges would be reviewed every six months and accordingly the amount of security would be enhanced/ reduced by long term transmission customers.
- (f) In case the long term transmission customer defaults in payment of the monthly charges of POWERGRID bills then, POWERGRID shall be entitled to encash/adjust the BG immediately.
- (g) In case of encashment / adjustment of BG by POWERGRID against non-payment of monthly charges by long-term transmission customer, the same should be immediately replenished/recouped by long-term transmission customers before the next billing cycle.
- (h) The format for bank guarantee is enclosed as **Annexure-X**. The Bank Guarantee shall be issued by
 - i) A Public Sector Bank or
 - ii) Scheduled Indian Bank having paid up capital(net of accumulated losses) of Rs.100 crore or above(duly supported by latest annual report) and also satisfying the minimum capital adequacy requirement

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or

- iii) Any foreign Bank with overall International corporate rating or rating of long term debt not less than A -(A minus) or equivalent by reputed rating agency.

3.0 POWERGRID agrees to provide Long Term Access required by Long term transmission customer as per the details mentioned above and in accordance with the Regulations under the Central Electricity Regulatory Commission (Open Access in Interstate Transmission -Regulations 2009) and conditions specified by the CERC from time to time.

However, during the tenure of this agreement if any of the covenants and conditions recited in this agreement including agreements at Annexure- A, B C and D found inconsistent with the provisions of the Electricity Act 2003 and/or applicable notifications/rules/regulations issued either by CERC or by GOI as per the provisions of the Electricity Act then notwithstanding any thing contained in the agreement referred to above, the said rules and regulations shall prevail.

4.0 Copy of the Agreements entered with Northern Region (with HVPNL) dated 16.10.2003 (Annexure-A), Western Region dated 31.03.1999 (Annexure-B), Eastern Region dated 16.9.2004 (Annexure-C) and Southern Region(with TNEB) dated 4.3.2006 (Annexure-D) shall form part and parcel of this Agreement and accordingly, all terms and conditions of Agreements dated 16.10.2003, 31.03.1999, 16.9.2004 and 4.3.2006, shall mutatis mutandis apply to the Long term transmission customer. Any revision, replacement, modification and extension of these Agreements shall also apply to the Long term transmission customer.

5.0 The Long term transmission customer shall not relinquish or transfer its rights and obligations specified in the Bulk Power Transmission Agreement, without prior approval of POWERGRID and CERC and subject to payment of compensation in accordance with the CERC Regulations issued from time to time.

- 6.0 (a) In case any of the developers fail to construct the generating station /dedicated transmission system or makes an exit or abandon its project, POWERGRID shall have the right to collect the transmission charges and/or damages as the case may be in accordance with the notification/regulation issued by CERC from time to time. The developer shall furnish a Bank guarantee from a nationalized bank for an amount which shall be equivalent to Rs.5 (five).Lakhs/MW to compensate such damages. The bank guarantee format is enclosed as **Annexure-Y**. The details and categories of bank would be in accordance with clause 2 (h) above. The Bank guarantee would be furnished in favour of

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POWERGRID in accordance with the time frame agreed during the meeting held at CEA on 1.2.2010.

(b) This bank guarantee would be initially valid for a period upto six months after the expected date of commissioning schedule of generating unit(s) mentioned at Annexure-1 I (however, for existing commissioned units, the validity shall be the same as applicable to the earliest validity applicable to the generator in the group mentioned at Annexure 1). The bank guarantee would be encashed by POWERGRID in case of adverse progress of individual generating unit(s) assessed during coordination meeting as per para 7 below. However, the validity should be extended by concerned Long Term transmission customer(s) as per the requirement to be indicated during co-ordination meeting.

(c) The POWERGRID shall build transmission system included at Annexure-3 keeping view of various commissioning schedules, however, till the completion of identified transmission elements the transfer of power will be based on the availability of system on short term basis.

(d) In the event of delay in commissioning of concerned transmission system from its schedule, as indicated at Annexure-4 POWERGRID shall pay proportionate transmission charges to concerned Long Term Access Customer(s) proportionate to its commissioned capacity (which otherwise would have been paid by the concerned Long Term Access Customer (s) to POWERGRID) provided generation is ready and POWERGRID fails to make alternate arrangement for dispatch of power.

7.0. In order to monitor/ review the progress of generating units along with its direct evacuation lines and also the common transmission system, Joint co-ordination meeting with the representative of each developers and POWERGRID shall be held at regular interval (preferably quarterly) after signing of this Agreement.

8.0 All differences/ disputes between the parties arising out of or in connection with this Agreement shall be resolved in terms of the Redressal Mechanism provided under Regulation 35 of the CERC (open access in Inter-state Transmission) Regulations and under Electricity Act 2003 (including any amendments thereof).

9.0 The parties shall ensure due compliance with the terms of this Agreement. However, no party shall be liable for any claim for any loss or damage whatsoever arising out of failure to carry out the terms of the Agreement to the extent that such a failure is due to force majeure events such as war, rebellion, mutiny, civil commotion, riot, strike, lock out, fire, flood, forces of nature, major accident, act of God, change of law and any other causes beyond the control of the defaulting party. But any party claiming the benefit of this clause shall satisfy the other party of the existence of such an event and give written notice of 30 days to the other

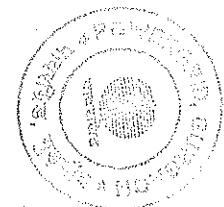
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party to this effect. Transmission/drawal of power shall be started as soon as practicable by the parties concerned after such eventuality has come to an end or ceased to exist.

10. In the event of finalisation of beneficiaries by the developers, the applicable transmission charges and other charges covered under this agreement would be payable by the concerned beneficiary. These charges would be effective only from the date of signing of agreement by concerned beneficiary with POWERGRID for the validity period of open access.

11. This Agreement shall be valid from the date of signing of this agreement till the validity of open access subject to its revision as may be made by the parties to this Agreement provided that this Agreement may be mutually extended, renewed or replaced by another Agreement on such terms and for such further period as the parties may mutually agree. In case Long Term Transmission Customers continue to get transmission services from the POWERGRID even after expiry of this Agreement without further renewal or formal extension thereof, then all the provisions of this Agreement shall continue to operate till this Agreement is formally renewed, extended or replaced.

In witness whereof both the parties have executed this Agreement through their authorized representative.

Witness

1.

**For and on behalf of
POWER GRID CORPN.OF INDIA LTD.**

Signature :.....*Yugal*.....

Signature:.....*ARUN*.....

Name:..... Y. K. Sehgal
Executive Director (SEF & O&M)
Designation..... Power Grid Corporation of India Ltd.
Plot No.2, Sector-29, Gurgaon-122 001 (Haryana)

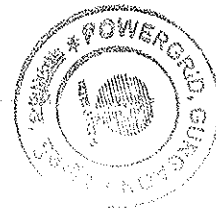
Name:..... अरुण कुमार
ARUN KUMAR
Designation..... कार्यपालक निदेशक (वाणिज्यिक)
Executive Director (Commercial)

Yugal

AR

ARUN

ARUN



2.

For and on behalf of
GMR Kamalanga Energy Ltd.

Signature: [Signature]
Name: G. M. GUPTA
Designation: MANAGER

Signature: [Signature]
Name: K V V RAO
Designation: Managing Director

3.

For and on behalf of
Monnet Power Company Limited

Signature: [Signature]
Name: BIMAL DHAR
Designation: V.P (Comm.)
MPCL

Signature: [Signature]
Name: AVDESH
Chief Executive
Monnet Power Company Limited
MONNET HOUSE, 11 Masjid Moth,
Greater Kailash Part-II, New Delhi-110 048

4.

For and on behalf of
Lanco Babandh Power Ltd.

Signature: [Signature]
Name: J. R. Rao
Designation: J.G.M.

Signature: [Signature]
Name: Pradheep Lenka
Designation: CEO



[Signature]

[Signature]

[Signature]



5.

For and on behalf of
Ind-Barath Energy (Utkal) Ltd.

Signature :.....
[Handwritten Signature]

Signature:.....
[Handwritten Signature]

Name:.....
MC Muleri

Name:.....
J. MOHAPATRA

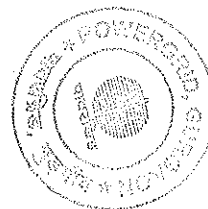
Designation.....
R. Manager

Designation.....
DIRECTOR
Ind-Barath Energy (Utkal) Ltd.
Plot No.30-A, Road No.1, Film Nagar
Jubilee Hills, Hyderabad-500 033 (AP)

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Annexure-I

List of Gen Projects and their beneficiaries

Details of Generation Projects in Orissa

Sl. No.	Applicant	Gen. Project Capacity (MW)	LTOA Applied for (MW)	Location	Time Frame (Unit wise)	Long Term Access granted				Period Of Long Term Access
						WR	SR	NR	ER	
1.	GMR Kamalanga Energy Ltd	1050	800	Kamala -nga, Dhenka -nal dt.	Unit#1 : 350 MW : Nov., 2011 Unit#2 : 350 MW : Jan, 2012 Unit#3 : 350 MW : March, 2012		200	600		25
2.	Monnet Power Company Ltd	1050	900	Angul Dt.	Unit#1 : 525 MW : June, 2012 Unit#2 : 525 MW : Sept. 2012	225	150	300	225	25
3.	Lanco Babandh Power Ltd	2640	1600 (4* 660)	Dhenka -nal dt.	Unit 1 Dec 2013 Unit 2 April 2014 Unit 3 Aug.2014 Unit 4 Dec.2014	950		650		25
4.	Ind Barath Energy(Utkal) Ltd	700	616	Jhatsgu da Dt.	Unit#1 : 350 MW : Dec., 2011 Unit#2 : 350 MW : Feb., 2012	350		266		25
	Total	5440	3916			1525	350	1816	225	

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Transmission system to be implemented by Generation project developer and its and its schedule of commissioning

I Transmission System Under the Scope of Generation Developer

IA Upto Pooling Station at Jharsuguda

1. Ind-Barath (700 MW) (Schedule commissioning : on or before Dec, 2011)
Ind-Barath – Jharsuguda Pool 400KV D/c line with associated line bays

IB Upto Pooling Station at Angul

1. Monnet (1050 MW) (Schedule commissioning: on or before June 2012)
Monet – Angul Pool 400KV D/c line with associated line bays
2. GMR (1050 MW) (Schedule commissioning: on or before Nov., 2011)
GMR – Angul Pool 400KV D/c line with associated line bays
3. Lanco Babandh(2640 MW) (Schedule commissioning: on or before Dec, 2013)
Lanco Babandh – Angul Pool 400KV 2xD/c line
3x1500MVA, 765/400kV ICT at Angul with associated line bays

Note:

1. The termination of the line as well as location of pooling station is subject to minor changes depending upon final survey and physical constraint, if any.
2. In case of any major development, if there is any change in the transmission system to achieve overall optimization of the system, then, above details would be modified on mutual consent.
3. In case, in future, any other long-term transmission customer(s) is/are granted open access through the transmission system detailed above (subject to technical feasibility), he/they would also share the applicable transmission charges.

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II Transmission System under the Scope of POWERGRID

IIA Strengthening System in Orissa

- 1 Establishment of 765/400kV Pooling Station at Jharsuguda
- 2 Establishment of 765/400kV Pooling Station at Angul
- 3 Angul Pooling Station – Jharsuguda Pooling Station 765kV 2xS/c
- 4 LILO of Rourkela – Raigarh 400kV D/c at Jharsuguda Pooling station
- 5 LILO of Meramundali – Jeypore 400kV S/c line at Angul pooling station
- 6 LILO of one ckt of Talcher - Meramundali 400kV D/c line at Angul pooling station

IIIB Strengthening System (ER-WR AC Corridor)

- 1 Establishment of 765/400kV substation at Dharamjaygarh
- 2 Jharsuguda Pooling Station – Dharamjaygarh (WR) 765kV D/c
- 3 LILO of Ranchi – WR Pooling near Sipat 765kV S/c line at Dharamjaygarh
- 4 Dharamjaygarh – Jabalpur Pool 765kV D/c line
- 5 Establishment of 2x1500 MVA, 765/400kV Pooling Station near Jabalpur
- 6 Jabalpur Pool – Jabalpur 400 kV D/c (high capacity)
- 7 Jabalpur Pool – Bina 765kV D/c line
- 8 Bina – Gwalior 765kV S/c (3rd circuit)
- 9 Jabalpur – Bhopal – Indore – Vadodara 765kV S/c
- 10 Establishment of 2x1500 MVA, 765/400kV sub-station at Bhopal
- 11 Bhopal New substation – Bhopal (M.P.) 400kV D/c (high capacity)
- 12 Establishment of 2x1500 MVA, 765/400kV sub-station at Vadodara
- 13 Vadodara – Pirana 400kV D/c (high capacity)

Note :

1. The termination of the line as well as location of pooling station is subject to minor changes depending upon final survey and physical constraint, if any.
2. In case of any major development, if there is any change in the transmission system to achieve overall optimization of the system, then, above details would be modified on mutual consent.
3. In case, in future, any other long-term transmission customer(s) is/are granted open access through the transmission system detailed above subject to technical feasibility), he/they would also share the applicable transmission charges.

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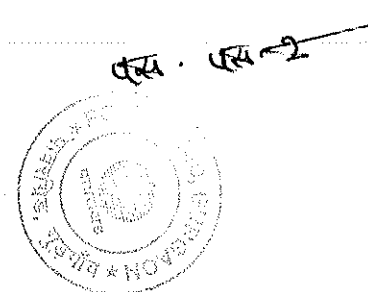


Transmission Charges for the transmission system of respective Generation Projects

The transmission charges for different stages of the transmission system would be borne by the generation developers / beneficiaries as given below :

- The dedicated transmission system indicated at Annexure-2 i.e. from the generation switchyard up to various pooling points/substations shall be built, owned and operated by the generation project developer.
- However, some of the dedicated transmission system indicated at Annexure-3 i.e. from the generation switchyard up to various pooling points/substations shall be built, owned and operated by POWERGRID. The transmission charges for these dedicated transmission system shall be paid by the concerned generation developers.
- The charges for the transmission system (other than the dedicated system) indicated at Annexure-3 would be borne by the generation developers in proportion to capacity for which long term open access has been sought. The transmission charges will be corresponding to phased development of transmission system and in each time frame, charges should be shared by all the generation developer. whose generation projects are scheduled to come up in that time frame or earlier.
- The long term Access Applicants would also have to share the applicable Regional transmission charges in proportion to the Long term capacity sought by them as per CERC norm.
- As the transmission system has been evolved considering target beneficiaries and tentative allocation indicated by the developer(s) in their application, some transmission strengthening may be required in the receiving end/region once the beneficiaries/quantum of allocation is finalized. The cost/tariff of such system strengthening would also have to be borne by the developer(s) as and when identified.
- In the event of default by any developer under Clause 5 and 6 of this Agreement, the transmission charges for the system mentioned at Annexure-3 would be shared by balance developers. However, the damages collected (if any) from the defaulting developer(s) under clause 5 & 6 of this agreement shall be adjusted for the purpose of claiming transmission charges from the balance (remaining) developers.

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The composite transmission scheme would be developed in phases keeping in view the commissioning schedule of generation project. Depending upon the status of various generation projects as informed by different generation developers, the details of phasing of development of transmission system has been evolved. Details of staging are described as follows –

1.0 Stage – I

1.1 Generation Projects and its schedule

Generation	Capacity	Commissioning Schedule
IND-BARATH	350 MW	Dec 2011
IND-BARATH	350 MW	Feb., 2012

1.2 Transmission System

1.21 Transmission System to be developed by the generation developer

With Ind-Barath Generation Project

- Ind-Barath-Jharsuguda 400 kV D/c line
- 2 nos. 400kV line bays at Jharsuguda S/s (along with commissioning of the same) for termination of 400 kV D/c line from Ind-Barath project

1.22 Transmission System to be developed by POWERGRID

A. 30 months from the date of regulatory approval.

- LILO of one circuit of Rourkela-Raigarh 400 kV D/c line upto Jharsuguda

Note : As the Jharsuguda Substation would not be ready by this time, the line from Ind-Barath generation would be temporarily connected to the LILO section directly so as to form Ind-Barath-Rourkela and Ind-Barath-Raigarh 400kV lines.

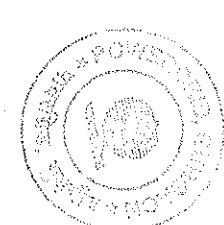
B. 42 months from the date of regulatory approval.

- Establishment of 765/400 kV Jharsuguda Substation
- LILO of 2nd circuit of Rourkela-Raigarh 400 kV D/c line at Jharsuguda
- Termination of LILO of 1st ckt of Rourkela-Raigarh 400kV D/c line at Jharsuguda

Sharing of Transmission Charges : The transmission charges are to be shared Initially by Ind-Barath Enery (Utkal) Ltd.

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2.0 Stage – II

2.1 Generation Projects

Generation	Capacity	Commissioning Schedule
GMR Unit #1	350 MW	Nov. 2011
Ind-Barath #1	350 MW	Dec.2011
GMR Unit #2	350 MW	Jan. 2012
Ind-Barath #2	350 MW	Feb. 2012
GMR Unit #3	350 MW	March 2012
Monnet Unit #1	525 MW	June 2012
Monnet Unit # 2	525MW	Sept.2012
Lanco Unit # 1,2,3,4	4x660 = 2640 MW	Progressively onwards of Dec 13

2.2 Transmission System

2.21 Transmission System to be developed by the generation developer With GMR Generation Project

- GMR-Angul 400 kV D/c line
- 2 nos 400kV line bays for connecting 400 kV lines from GMR to Angul switchyard (along with commissioning of Angul substation)

With Monnet Generation Project

- Monnet-Angul 400 kV D/c line
- 2 nos 400kV line bays for connecting 400 kV lines from Monnet to Angul switchyard (along with commissioning of Angul substation)

With Lanco Babandh Generation Project

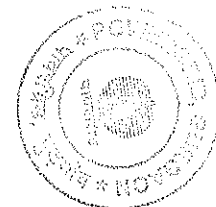
- Lanco – Angul 400 kV 2xD/c

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- 2 no 400kV bays at Angul for termination of Lanco – Angul 400kV D/c line
- 3x1500MVA, 765/400kV ICT at Angul along with associated bays

With Ind-Barath Generation Project

- Ind-Barath - Jharsuguda 400 kV 2xD/c
- 2 no 400kV bays at Jharsuguda for termination of Ind-Barath –Jharsuguda 400kV D/c line

Note : As the Angul Substation would not be ready the Meramundali-Jeypore 400-kV S/C line would be looped in and looped out at Angul depending upon the project commissioning schedule. As GMR project is coming up early, the Talchar-Meramundali line would be Looped in and Looped out at GMR project as dedicated portion. This line route will be later utilized to terminate GMR project at Angul and loop in loop out of Talchar-Meramundali 400kV will be restored.

2.22 Transmission System to be developed by POWERGRID

A. 30 months from the date of regulatory approval.

- LILO of Jeypore-Meramundali 400kV S/c at Angul.
- LILO of one ckt of Talcher-Meramundali 400kV D/c at Angul

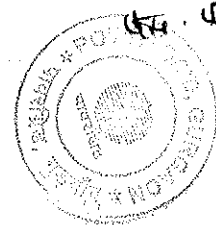
Note :

1. As the Angul Substation would not be ready by this time, the lines from generation projects to Angul S/s may be joined temporarily with LILO of Talcher – Meramundali 400kV one ckt and/or LILO of Meramundali – Jeypore 400kV S/c line at Angul depending upon the commissioning of the generation projects and its dedicated transmission system.
2. As mentioned above, these LILOs would also help in evacuation of power before commissioning of Angul S/s.
3. These LILOs are provided for better grid connectivity as well as reliability and security of power supply.
4. These LILOs would be withdrawn at appropriate time in order to reduce the short-circuit level.

B. 42 months from the date of regulatory approval.

- Establishment of 765/400kV Pooling Station at Angul

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- Angul Pooling Station – Jharsuguda Pooling Station 765kV 2xS/c
- Establishment of 765/400kV substation at Dharamjaygarh
- Jharsuguda Pooling Station – Dharamjaygarh (WR) 765kV D/c LILO of Ranchi – WR Pooling near Sipat 765kV S/c line at Dharamjaygarh
- Dharamjaygarh – Jabalpur Pool 765kV D/c line
- Establishment of 2x1500 MVA, 765/400kV Pooling Station near Jabalpur
- Jabalpur Pool – Jabalpur 400 kV D/c (high capacity)
- Jabalpur Pool – Bina 765kV D/c line
- Bina – Gwalior 765kV S/c (3rd circuit)
- Jabalpur – Bhopal – Indore – Vadodara 765kV S/c
- Establishment of 2x1500 MVA, 765/400kV sub-station at Bhopal
- Bhopal New substation – Bhopal (M.P.) 400kV D/c (high capacity)
- Establishment of 2x1500 MVA, 765/400kV sub-station at Vadodara
- Vadodara – Pirana 400kV D/c (high capacity)

Sharing of Transmission Charges : The transmission charges for Stage-I and Stage-II transmission system are to be shared by GMR Kamalanga Energy Ltd., Monnet Power Company Ltd., Lanco Babandh Power Pvt. Ltd. and Ind-Barath Energy (Utkal) Ltd. in proportion to the MW capacity to be injected matching with the commissioning schedule.

Note: In case, in future, any other long-term transmission customer(s) is/are granted open access through the transmission system detailed above (subject to technical feasibility), he/they would also share the applicable transmission charges.

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पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड
(भारत सरकार का उद्यम)
POWER GRID CORPORATION OF INDIA LIMITED



(A Government of India Enterprise)

पावरग्रिड

'आय.एस.ओ. 9001 : 2000 प्रमाणित कंपनी I.S.O. 9001 : 2000 Certified Company'

४वी, ५वी एवं ६ठी मंजिल, वुडा भवन, एल.एंड.टी.सर्कल, वी.आई.पी. रोड, कारेलीबाग, वडोदरा-३९० ०९८. (गुजरात)
4th, 5th & 6th Floor, VUDA Bhavan, L&T Circle, V.I.P. Road, Karellbaug, VADODARA - 390 018. (Gujarat)

पश्चिम क्षेत्र पारेषण प्रणाली-II, क्षेत्रीय मुख्यालय
Western Region Transmission System-II, Regional Headquarters

Ref No.: WR - II / VDR /COML/

Date: 01.10.2013

To,

As per Distribution List.

Sub: Commercial Declaration of assets / systems commissioned under Phase-I Generation Projects in Orissa Part-C.


Dear Sir,

We are pleased to inform that 400kV, 125MVAR Bus Reactor at Indore along with associated bays under Transmission System for Phase-I Generation Projects in Orissa Part-C, have been charged successfully on 30.09 2013 and put into regular operation in Western Region, and the same is under commercial operation w. e. f. 01st October 2013.

Accordingly, the monthly transmission charges of the above transmission element will be shared and payable by concerned from 1st October 2013 in accordance with CERC Regulation.

Thanking you.

Yours faithfully,


(R. K. Singh)

Executive Director (WR-II)

List of Addresses

1. Member Secretary, WRPC, Mumbai.
2. Chairman, MPPICL, Jabalpur.
3. Managing Director, MSEDCL, Mumbai.
4. Chairperson, GUVNL, Baroda.
5. Chairman, CSPICL, Raipur.
6. Chief Engineer, GOA Electricity Department, Panjim.
7. Executive Engineer, Electricity Department, Diu and Daman, Moti Dargan, Daman.
8. Executive Engineer, Electricity Department, Dadra & Nagar Haveli, Silvassa.



पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड
(भारत सरकार का उद्यम)
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पावरग्रिड
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4th, 5th & 6th Floor, VUDA Bhavan, L&T Circle, V.I.P. Road, Karellbaug, VADODARA - 390 018. (Gujarat)

पश्चिम क्षेत्र पारेषण प्रणाली-II, क्षेत्रीय मुख्यालय
Western Region Transmission System-II, Regional Headquarters

Ref No.: WR - II / VDR /COML/

Date: 01.10.2013

To,

As per Distribution List.

Sub: Commercial Declaration of assets / systems commissioned under under Transmission System for Phase-I Generation Projects in Orissa Part-C.

Dear Sir,

We are pleased to inform that 400kV, 125 MVAR Bus Reactor#1 at Gwalior along with associated bays under Transmission System for Phase-I Generation Projects in Orissa Part-C, have been charged successfully on 30.09.2013 and put into regular operation in Western Region, and the same is under commercial operation w. e. f. 01st October 2013.

Accordingly, the monthly transmission charges of the above transmission element will be shared and payable by concerned from 1st October 2013 in accordance with CERC Regulation.

Thanking you,

Yours faithfully,

(R. K. Singh)

Executive Director (WR-II)

List of Addresses

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2. Chairman, MPPTCL, Jabalpur.
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4. Chairperson, GUVNL, Baroda.
5. Chairman, CSPTCL, Raipur.
6. Chief Engineer, GOA Electricity Department, Panjim.
7. Executive Engineer, Electricity Department, Diu and Daman, Moti Daman, Daman.
8. Executive Engineer, Electricity Department, Dadra & Nagar Haveli, Silvassa.



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



'आय.एस.ओ. 9001 : 2000 प्रमाणित कंपनी I.S.O. 9001 : 2000 Certified Company'

४वीं, ५वीं एवं ६वीं मंजिल, वुडा भवन, एल.एंड.टी. सर्कल, वी.आई.पी. रोड, कारेलीबाग, वडोदरा-३९० ०१८. (गुजरात)
4th, 5th & 6th Floor, VUDA Bhavan, L&T Circle, V.I.P. Road, Karelibaug, VADODARA - 390 018. (Gujarat)

पश्चिम क्षेत्र पारेषण प्रणाली-II, क्षेत्रीय मुख्यालय
Western Region Transmission System-II, Regional Headquarters

Ref No.: WR - II / VDR /COMI./

Date: 01.10.2013

To,

As per Distribution List.

Sub: Commercial Declaration of assets / systems commissioned under under Transmission System for Phase-I Generation Projects in Orissa Part-C.


Dear Sir,

We are pleased to inform that 400kV, 125 MVAR Bus Reactor#2 at Gwalior along with associated bays under Transmission System for Phase-I Generation Projects in Orissa Part-C, have been charged successfully on 30.09.2013 and put into regular operation in Western Region, and the same is under commercial operation w. e. f. 01st October 2013.

Accordingly, the monthly transmission charges of the above transmission element will be shared and payable by concerned from 1st October 2013 in accordance with CERC Regulation.

Thanking you,

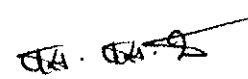
Yours faithfully,


(R. K. Singh)

Executive Director (WR-II)

List of Addressees

1. Member Secretary, WRPC, Mumbai.
2. Chairman, MPPPTCL, Jabalpur.
3. Managing Director, MSEDCL, Mumbai.
4. Chairperson, GUVNL, Baroda.
5. Chairman, CSPTCL, Raipur.
6. Chief Engineer, GOA Electricity Department, Panjim.
7. Executive Engineer, Electricity Department, Diu and Daman, Moti Daman, Daman.
8. Executive Engineer, Electricity Department, Dadra & Nagar Haveli, Silvassa.







CERTIFICATE OF CAPITAL COST

Project Name: 400kV 125 MVAR Bus Reactor at 765kV Indore SS along with associated bays associated with Transmission System for Phase-I Generation Projects in ORISSA-C

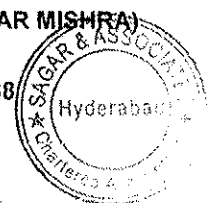
Date of Commercial Operation: DOCO 01.10.2013

PARTICULARS	(RS./ LAKHS)			
	CAPITAL COST	IEDC	IDC	TOTAL
Expenditure up to 31.03.2013	257.55	0.00	9.47	267.02
Expenditure 01.04.2013 to 30.09.2013 (up to DOCO)	452.42	0.12	21.41	473.95
Projected Expenditure from 01.10.2013 to 31.03.2014	167.35	0.00	0.00	167.35
Projected Expenditure 2014-15	90.35	0.00	0.00	90.35
Projected Expenditure 2015-16	39.40	0.00	0.00	39.40
	1007.07	0.12	30.88	1038.07

This is to certify that the above summary has been prepared on the basis of the information drawn from the Audited Statement of Accounts of Power Grid Corporation of India Ltd., Western Region-II, Vadodara upto 31-03-2013. Expenditure for the period 01-04-2013 to 30.09.2013 has been verified from books of accounts and projected expenditure is based on details furnished by the management.

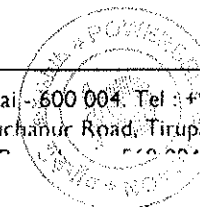
For Sagar & Associates
 Chartered Accountants
 FR No. 003510S

(AJAY KUMAR MISHRA)
 Partner
 M.No. 205468



Place : Vadodara
 Date : 18-10-2013

Handwritten signature/initials





(D2)

CERTIFICATE OF CAPITAL COST

Project Name: 400kV 125 MVAR Bus Reactor at 765kV Indore SS along with associated bays associated with Transmission System for Phase-I Generation Projects in ORISSA-C

Date of Commercial Operation: DOCO 01.10.2013

PARTICULARS	Expenditure up to 31.03.2013	Expenditure 01.04.2013 to 30.09.2013 (up to DOCO)	Projected Expenditure from 01.10.2013 to 31.03.2014	Projected Expenditure 2014-15	Projected Expenditure 2015-16	(RS / LAKHS)
						Total
LAND	0.00	0.00	0.00	0.00	0.00	0.00
BUILDING ,CIVIL WORKS & COLONY	0.00	0.00	0.00	0.00	0.00	0.00
TRANSMISSION LINE	0.00	0.00	0.00	0.00	0.00	0.00
SUB-STATION	267.02	473.95	167.35	90.35	39.40	1038.07
PLCC	0.00	0.00	0.00	0.00	0.00	0.00
	267.02	473.95	167.35	90.35	39.40	1038.07

Initial Spares included in the above

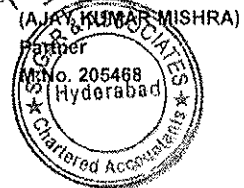
90.08

This is to certify that the above summary has been prepared on the basis of the information drawn from the Audited Statement of Accounts of Power Grid Corporation of India Ltd., Western Region-II, Vadodara upto 31-03-2013. Expenditure for the period 01-04-2013 to 30.09.2013 has been verified from books of accounts and projected expenditure is based on details furnished by the management.

For Sagar & Associates
Chartered Accountants
FR No. 003510S

Place : Vadodara

Date : 18-10-2013



18/10/2013





CERTIFICATE OF CAPITAL COST

Project Name: 400kV 125 MVAR Bus Reactor-1 & Bus Reactor-2 at 765kV
Gwalior SS along with associated bays associated with
Transmission System for Phase-I Generation Projects in ORISSA-C

Date of Commercial Operation: DOCO 01.10.2013

(RS./ LAKHS)

PARTICULARS	CAPITAL COST	IEDC	IDC	TOTAL
Expenditure up to 31.03.2013	228.01	0.00	8.38	236.39
Expenditure 01.04.2013 to 30.09.2013 (up to DOCO)	668.33	0.18	30.70	699.21
Projected Expenditure from 01.10.2013 to 31.03.2014	236.68	0.00	0.00	236.68
Projected Expenditure 2014-15	88.78	0.00	0.00	88.78
Projected Expenditure 2015-16	46.76	0.00	0.00	46.76
	1268.56	0.18	39.08	1307.82

This is to certify that the above summary has been prepared on the basis of the information drawn from the Audited Statement of Accounts of Power Grid Corporation of India Ltd., Western Region-II, Vadodara upto 31-03-2013. Expenditure for the period 01-04-2013 to 30.09.2013 has been verified from books of accounts and projected expenditure is based on details furnished by the management.

For Sagar & Associates
Chartered Accountants
FR No. 003510S

Place : Vadodara
Date : 18-10-2013



(AJAY KUMAR MISHRA)
Partner
M.No. 205468





SAGAR & ASSOCIATES
CHARTERED ACCOUNTANTS

H.O.: H. No. 6-3-244/5, Sarada Devi Str
Prem Nagar, Hyderabad - 500 004.
Phone : +040-2330 3371, +040-2339 5581
Fax : +040-2339 0151
E-mail : sagarandassociates@yahoo.co.in
E-mail : vsagarbabu@gmail.com
Service Tax Regn. No. : AAJFS7795N STI

CERTIFICATE OF CAPITAL COST

Project Name: 400kV 125 MVAR Bus Reactor-1 & Bus Reactor-2 at 765kV Gwalior SS along with associated bays associated with Transmission System for Phase-I Generation Projects in ORISSA-C

Date of Commercial Operation: DOCO 01.10.2013

(RS./ LAKHS)

PARTICULARS	Expenditure up to 31.03.2013	Expenditure 01.04.2013 to 30.09.2013 (up to DOCO)	Projected Expenditure from 01.10.2013 to 31.03.2014	Projected Expenditure 2014-15	Projected Expenditure 2015-16	Total
LAND	0.00	0.00	0.00	0.00	0.00	0.00
BUILDING ,CIVIL WORKS & COLONY	0.00	0.00	0.00	0.00	0.00	0.00
TRANSMISSION LINE	0.00	0.00	0.00	0.00	0.00	0.00
SUB-STATION	236.39	699.21	236.68	88.78	46.76	1307.82
PLCC	0.00	0.00	0.00	0.00	0.00	0.00
	236.39	699.21	236.68	88.78	46.76	1307.82

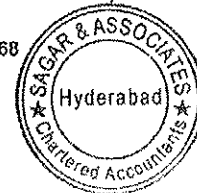
Initial Spares included in the above

26.62

This is to certify that the above summary has been prepared on the basis of the information drawn from the Audited Statement of Accounts of Power Grid Corporation of India Ltd., Western Region-II, Vadodara upto 31-03-2013. Expenditure for the period 01-04-2013 to 30.09.2013 has been verified from books of accounts and projected expenditure is based on details furnished by the management.

For Sagar & Associates
Chartered Accountants
FR No. 003510S

(AJAY KUMAR MISHRA)
Partner
M.No. 205468



Place : Vadodara
Date : 18.10.2013

B.O. No. 38, (Old No. 14) Second Main Road, C.I.T. Colony, Mylapore, Chennai - 600 004. Tel : +91-44-2499 0993
B.O. : D. No. 19-9-61, Sarada Devi Street, Opp. Electrical D.E. Office, Tiruchanur Road, Tirupati - 517 501

CERTIFICATE OF CAPITAL COST

Project Name: 765KV D/C Jabalpur Pooling Station- Bina Transmission line (CKT# 1) and respective bay extension works at 765 kV Jabalpur Pooling S/S & 765 kV Bina S/S along with 240 MVAR Switchable line reactors at respective ends associated with Transmission System for Phase-I Generation Projects in ORISSA-C

Date of Commercial Operation: Anticipated DOCO 01.01.2014

PARTICULARS	CAPITAL COST	IEDC	IDC	(RS./ LAKHS)
				TOTAL
Expenditure up to 31.03.2013	56639.43	0.00	2078.28	58717.71
Projected Expenditure 01.04.2013 to 31.12.2012(Up to DOCO)	8928.61	2.45	956.75	9887.81
Projected Expenditure 01.01.2014 to 31.03.2014	2836.36	0.00	0.00	2836.36
Projected Expenditure 2014-15	7349.17	0.00	0.00	7349.17
Projected Expenditure 2015-16	1811.89	0.00	0.00	1811.89
	77565.46	2.45	3035.03	80602.94

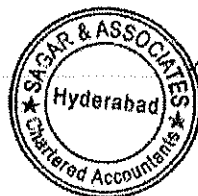
This is to certify that the above summary has been prepared on the basis of the information drawn from the Audited Statement of Accounts of Power Grid Corporation of India Ltd., Western Region-II, Vadodara upto 31-03-2013. Projected expenditure is based on details furnished by the management.

For Sagar & Associates
 Chartered Accountants
 FR No. 003510S

(AJAY KUMAR MISHRA)
 Partner
 M.No. 205468

Place : Vadodara

Date : 18-10-2013



(B2)

CERTIFICATE OF CAPITAL COST

Project Name:

765KV D/C Jabalpur Pooling Station- Bina Transmission line (CKT# 1) and
 respective bay extension works at 765 kV Jabalpur Pooling S/S & 765 kV Bina S/S
 along with 240 MVAR Switchable line reactors at respective ends associated with
 Transmission System for Phase-I Generation Projects in ORISSA-C

Date of Commercial Operation:

Anticipated DOCO 01.01.2014

(RS./ LAKHS)

PARTICULARS	Expenditure up to 31.03.2013	Projected Expenditure 01.04.2013 to 31.12.2012(Up to DOCO)	Projected Expenditure 01.01.2014 to 31.03.2014	Projected Expenditure 2014-15	Projected Expenditure 2015-16	Total
LAND	95.55	0.00	0.00	0.00	0.00	95.55
BUILDING ,CIVIL WORKS & COLONY	0.00	67.21	182.06	182.06	182.06	613.39
TRANSMISSION LINE	57410.74	8060.57	1307.87	4262.60	538.07	71579.85
SUB-STATION	1179.25	1720.85	1335.81	2884.16	1084.51	8204.58
PLCC	32.17	39.18	10.62	20.35	7.25	109.57
	58717.71	9887.81	2836.36	7349.17	1811.89	80602.94

Initial Spares included in the above

TL
 Sub station

627.93
 480.51

This is to certify that the above summary has been prepared on the basis of the information drawn from the Audited Statement of Accounts of Power Grid Corporation of India Ltd., Western Region-II, Vadodara upto 31-03-2013. Projected expenditure is based on details furnished to the management.

For Sagar & Associates
 Chartered Accountants
 FR No. 0035105

(Signature)
 (AJAY KUMAR MISHRA)
 Partner
 M.No. 205468



Place : Vadodara
 Date : 18.10.2013

(Handwritten initials)





SAGAR & ASSOCIATES
CHARTERED ACCOUNTANTS

H.O.: H. No. 6-3-244/5, Sarada Devi Street,
Prem Nagar, Hyderabad - 500 004.
Phone : +040-2330 3371, +040-2339 5588
Fax : +040-2339 0151
E-mail : sagarandassociates@yahoo.co.in
E-mail : vsagarbabu@gmail.com
Service Tax Regn. No. : AAJFS7295N ST001

CERTIFICATE OF CAPITAL COST

Project Name: 765KV D/C Jabalpur Pooling Station- Bina Transmission line (CKT# 2) and respective bay extension works at 765 kV Jabalpur Pooling S/S & 765 kV Bina S/S along with 240 MVAR Switchable line reactors at respective ends associated with Transmission System for Phase-I Generation Projects in ORISSA-C

Date of Commercial Operation: Anticipated DOCO 01.03.2014

(RS./ LAKHS)

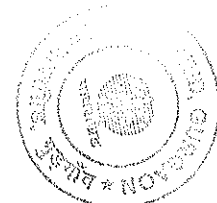
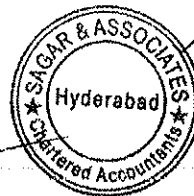
PARTICULARS	CAPITAL COST	IEDC	IDC	TOTAL
Expenditure up to 31.03.2013	16485.26	0.00	605.92	17091.18
Projected Expenditure 01.04.2013 to 28.02.2013(Up to DOCO)	4125.24	1.13	442.04	4568.41
Projected Expenditure 01.03.2014 to 31.03.2014	1110.34	0.00	0.00	1110.34
Projected Expenditure 2014-15	3816.96	0.00	0.00	3816.96
Projected Expenditure 2015-16	1271.68	0.00	0.00	1271.68
	26809.48	1.13	1047.96	27858.57

This is to certify that the above summary has been prepared on the basis of the information drawn from the Audited Statement of Accounts of Power Grid Corporation of India Ltd., Western Region-II, Vadodara upto 31-03-2013. Projected expenditure is based on details furnished by the management.

Place : Vadodara
Date : 18.10.2013

For Sagar & Associates
Chartered Accountants
FR No. 003510S

(AJAY KUMAR MISHRA)
Partner
M.No. 205468



B.O. No. 38, (Old No. 14) Second Main Road, C.I.T. Colony, Mylapore, Chennai - 600 004. Tel : +91-44-2499 0993
B.O. : D. No. 19-9-61, Sarada Devi Street, Opp. Electrical D.E. Office, Tiruchanur Road, Tirupati - 517 501
B.O. : 130 III Main, First Block, Raj Mahal, Vile Parle, Mumbai - 400 044



CERTIFICATE OF CAPITAL COST

Project Name: 765KV D/C Jabalpur Pooling Station- Bina Transmission line (CKT# 2) and respective bay extension works at 765 kV Jabalpur Pooling S/S & 765 kV Bina S/S along with 240 MVAR Switchable line reactors at respective ends associated with Transmission System for Phase-I Generation Projects in ORISSA-C

Date of Commercial Operation: Anticipated DOCO 01.03.2014

PARTICULARS	Expenditure up to 31.03.2013	Projected Expenditure 01.04.2013 to 28.02.2013 (Up to DOCO)	Projected Expenditure 01.03.2014 to 31.03.2014	Projected Expenditure		Total
				2014-15	2015-16	
LAND	0.00	0.00	0.00	0.00	0.00	0.00
BUILDING ,CIVIL WORKS & COLONY	0.00	0.00	0.00	0.00	0.00	0.00
TRANSMISSION LINE	15852.43	2267.97	101.40	240.92	54.09	18516.81
SUB-STATION	1201.41	2256.84	996.34	3548.10	1211.52	9214.21
PLCC	37.34	43.60	12.60	27.94	6.07	127.55
	17091.18	4568.41	1110.34	3816.96	1271.68	27858.57

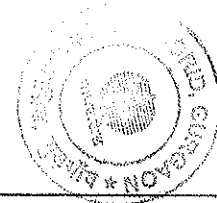
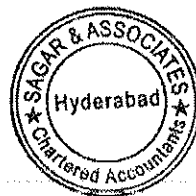
Initial Spares included in the above TL 209.31
Sub station 273.76

This is to certify that the above summary has been prepared on the basis of the information drawn from the Audited Statement of Accounts of Power Grid Corporation of India Ltd., Western Region-II, Vadodara upto 31-03-2013. Projected expenditure is based on details furnished by the management.

Place : Vadodara
Date : 18.10.2013

For Sagar & Associates
Chartered Accountants
FR No. 003510S

(AJAY KUMAR MISHRA)
Partner
M.No. 205468

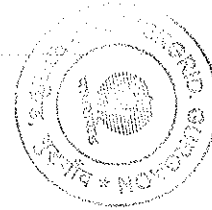


Summary Sheet

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **400kV 125MVAR Bus Reactor at 765kV Indore SS along with associated bays. :DOCO :01-OCT-2013**

Sl.No.	Particulars	Form No.	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014(Pro Rata)	(Rs in Lacs)
1	2	3	4	5	6	7	8	9	
1	Depreciation	FORM-12	0.00						21.77
2	Interest on Loan	FORM-13A	0.00						21.64
3	Return on Equity	FORM-01A	0.00						21.62
4	Interest On Working Capital	FORM-13B	0.00						3.23
5	O & M Expenses		0.00						32.73
6	Total		0.00						100.99

[Signature]
Petitioner



Calculation Of Return On Equity

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
 Name of Region: WESTERN REGION
 Name of the Project: Transmission System for Phase-I Generation Projects in ORISSA-C
 Name of the Transmission Element: 400KV 125MVAR Bus Reactor at 765KV Indore SS along with associated bays. :DOCO :01-OCT-2013

Particulars	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	(Rs in Lacs)	
						2013-2014	2013-2014
1	2	3	4	5	6	7	7
Equity as DOCO							272.29
Notional Equity for Add Cap							50.20
Total Equity							272.50
Return on Equity @ 17.481%							21.62

[Signature]
Petitioner

Details of Transmission Lines And Substations

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **400kV 125MVAR Bus Reactor at 765kV Indore SS along with associated bays. :DOCO :01-OCT-2013**

Transmission Lines									
Sl.No.	Name of Line	Type of Line AC/HVDC	S/C or D/C	No. of Sub-Conductors	Voltage level kV	Line Length (Km.)	Date of Commercial operation	Covered in the present petition	If No, petition No.
								Yes/No	If No, petition No.

Substations									
Sl.No.	Name of Sub-Station	Type of Substation (Conventional /GIS/ HVDC Terminal/ HVDC Back to Back	Voltage level kV	No. of Transformers / Reactors/ SVC etc (with Capacity)	No. of Bays	Date of Commercial operation	Covered in the present petition	If No, petition No.	
1	Indore 765/400 kV S/S(Extn.)	Conventional	765/400kV		765 KV 400 KV 220 KV	132 KV & below			
	125 MVAR Bus Reactor		400		1	01-OCT-2013	Yes		
Total									



[Signature]
Petitioner

Normative Parameters considered For tariff calculations

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **400kV 125MVAR Bus Reactor at 765kV Indore SS along with associated bays. :DOCO :01-OCT-2013**

Particulars	Unit	Year Ending March							
		Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014		
1	2	3	4	5	6	7	8		
Base Rate of Return on Equity	%						17.481		
Tax Rate	%						11.33		
Target Availability	%						98.00		
Normative O&M per Km.	Rs. lacs	Given Below							
Normative O&M per bay	Rs. lacs	Given Below							
Spares for WC as % of O&M	%						15.00		
Receivables in Months for WC	months						2.00		
Prime lending Rate of SBI as on 01-APR-2009	%						13.20		
Norms for O&M expenditure for Transmission System									
		2009-10	2010-11	2011-12	2012-13	2013-14			
Norms for sub-station (Rs Lakh per bay)									
765 KV		73.36	77.56	81.99	86.68	91.64			
400 KV		52.40	55.40	58.57	61.92	65.46			
220 KV		36.68	38.78	41.00	43.34	45.82			
132 KV and below		26.20	27.70	29.28	30.96	32.73			
Norms for AC and HVDC Lines (Rs Lakhs per km)									
Single Circuit: (Bundled conductor with four or more sub-conductors)		0.537	0.568	0.600	0.635	0.671			
Single Circuit: (Twin & Triple Conductor)		0.358	0.378	0.400	0.423	0.447			
Double Circuit: (Single Conductor)		0.179	0.189	0.200	0.212	0.224			
Double Circuit: (Bundled conductor with four or more sub-conductors)		0.940	0.994	1.051	1.111	1.174			
Double Circuit: (Twin & Triple Conductor)		0.627	0.663	0.701	0.741	0.783			
Double Circuit: (Single Conductor)		0.269	0.284	0.301	0.318	0.336			
Norm for HVDC Stations									
HVDC Back-to-back stations (Rs lakh per 500 MW)		443.00	468.00	495.00	523.00	553.00			
Rihand-Dagri HVDC bipole scheme (Rs Lakh)		1450.00	1533.00	1621.00	1713.00	1811.00			
Talcher-Kolar-HVDC bipole scheme (Rs Lakh)		1699.00	1796.00	1899.00	2008.00	2122.00			



Petitioner

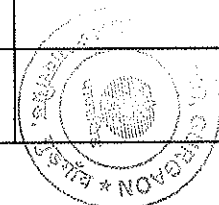
Abstract of Capital Cost Estimates and Schedule of Commissioning for the New projects

Name of the Transmission Licensee : POWER GRID CORPORATION OF INDIA
Name of Region: WESTERN
Name of the Project : TRANSMISSION SYSTEM FOR PHASE-I GENERATION PROJECTS IN ORISSA (PART-C)
 400kV 125 MVAR Bus Reactor at 765kV Indore SS along with associated bays associated with Transmission System for Phase-I Generation Projects in ORISSA-C

Name of Element:
Capital Cost Estimates

Board of Director/ Agency approving the Capital cost estimates:	Board of Directors of POWERGRID	
Date of approval of the Capital cost estimates:	Memo No. C/CP/ Orissa Ph-I IPPs (Part-C) dated 17.03.2011	
	Present Day Cost	Completed Cost
Price level of approved estimates	As of End 3rd Qtr. Of the year 2010	As on Scheduled COD (FR)
Foreign Exchange rate considered for the Capital cost estimates		
Capital Cost excluding IDC & FC		
Foreign Component, if any (In Million US \$ or the relevant Currency)	0	0.00
Domestic Component (Rs. Cr.)	8.64	9.73
Capital cost excluding IDC & FC (Rs. Cr)	8.64	9.73
IDC & FC		
Foreign Component, if any (In Million US \$ or the relevant Currency)	0	0.00
Domestic Component (Rs. Cr.)	0.61	0.69
Total IDC & FC (Rs.Cr.)	0.61	0.69
Rate of taxes & duties considered		
Capital cost Including IDC & FC		
Foreign Component, if any (in Million US \$ or the relevant Currency)	0.00	0.00
Domestic Component (Rs. Cr.)	9.25	10.42
Total Capital cost Including IDC & FC (Rs. Cr)	9.25	10.42
Schedule of Commissioning		
(Scheduled DOCO elementwise)	01.04.2014	01.10.2013
(COD of Unit-1/Block-1)		
(COD of Unit-1/Block-2)		
(COD of Unit-1/Block-3)		

- Note:
1. Copy of approval letter should be enclosed.
 2. Details of Capital cost are to be furnished as per FORM-5B or 5C as applicable.
 3. Details of IDC & Financing Charges are to be furnished as per FORM-16.



Handwritten signature or initials.

Name of the Transmission Licensee :

POWER GRID CORPORATION OF INDIA

Name of Region:

WESTERN REGION-II

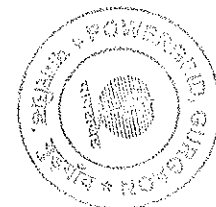
Name of the Project :

TRANSMISSION SYSTEM FOR PHASE-I GENERATION PROJECTS IN ORISSA (PART-C)

Name of the Element:

400kV 125 MVAR Bus Reactor at 765kV Indore SS along with associated bays associated with Transmission System for Phase-I Generation Projects in ORISSA-C

Sl.No.	Break Down	As per Original Estimate	As on COD	Liabilities / Provision	Variation	Reasons for Variation
		(FR) (3rd Qtr.2009)	01.10.2013			
1	2	3		5	6=(4+5-3)	7
A	TRANSMISSION LINE					
	Total -Transmission lines	0.00	0.00	0.00	0.00	
B.	SUBSTATIONS					
4.0	Preliminary works & land					
4.1	Design & Engineering				0.00	
4.2	Land				0.00	
4.3	Site preparation				0.00	
	Total Preliminary works & land	0.00	0.00	0.00	0.00	
5.0	Civil Works					
5.1	Control Room & Office Building including HVAC				0.00	
5.2	Township & Colony				0.00	
5.3	Roads and Drainage				0.00	
5.4	Foundation for structures				0.00	
5.5	Misc. civil works				0.00	
	Total Civil Works	0.00	0.00	0.00	0.00	
6.0	Substation Equipments					
6.1	Switchgear (CT,PT, Circuit Breaker, Isolator etc)	149.75	146.92	90.65	87.81	As per actual execution of works, which includes mandatory spares. Cost has been decreased as per actual awarded cost.
6.2	Transformers	0.00	0.00	0.00	0.00	
6.3	Compensating Equipment(Reactor, SVCs etc)	455.52	411.28	112.83	68.58	As per actual execution of works including associated allied works and mandatory spares. Cost has been decreased as per awarded cost.
6.4	Control , Relay & Protection Panel	26.26	27.09	16.71	17.54	As per actual execution of works, which includes mandatory spares. Cost has been decreased as per actual awarded cost.
6.5	PLCC	0.00	0.00	0.00	0.00	
6.6	HVDC package	0.00	0.00	0.00	0.00	
6.7	Bus Bars/ conductors/insulators	100.14	74.43	45.92	20.21	As per actual execution of works, which includes mandatory spares. Cost has been decreased as per actual awarded cost.
6.8	outdoor lighting	13.11	9.81	6.05	2.75	As per actual execution of works. Cost has been decreased as per actual awarded cost.
6.9	Emergency DG set	0.00	0.00	0.00	0.00	
6.10	Grounding System	0.00	0.00	0.00	0.00	included in bus bar / conductors
6.11	Structure for Switch yard	2.85	2.05	1.27	0.47	As per actual execution of works, which includes mandatory spares. Cost has been decreased as per actual awarded cost.
6.12	Auxiliary System	51.63	38.38	23.68	10.42	As per actual execution of works, which includes mandatory spares. Cost has been decreased as per actual awarded cost.
	Total Substation Equipments	799.27	709.96	297.10	207.79	As per actual
7.0	Spares (incl.in eqpt. cost)	0.00		0.00	0.00	
8.0	Taxes and Duties					
8.1	Custom Duty	0.00	0.00	0.00	0.00	
8.2	Other Taxes & Duties				0.00	
8.3	Total Taxes & Duties	0.00	0.00	0.00	0.00	
	Total (Sub-station)	799.27	709.96	297.10	207.79	As per actual
9.0	Construction and pre-commissioning expenses					
9.1	Site supervision & site admn etc. (Payable to SEBs)	0.00	0.00	0.00	0.00	
9.2	Tools and Plants	0.00	0.00	0.00	0.00	
9.3	construction Insurance	0.00	0.00	0.00	0.00	
	Total Construction and pre commissioning expenses	0.00	0.00	0.00	0.00	
10.0	Overheads					
10.1	Establishment	64.46	0.12	0.00	-64.33	
10.2	Audit & Accounts	0.00	0.00	0.00	0.00	
10.3	Contingency	0.00	0.00	0.00	0.00	
	Total Overheads	64.46	0.12	0.00	-64.33	As per actual
11.0	Project cost without IDC, FC, FERV & Hedging cost	863.73	710.08	297.10	143.46	As per actual
12.0	Total Cost (Plant & Equipment)	0.00	0.00	0.00	0.00	
12.1	Interest During Construction (IDC)	51.27	30.88	0.00	-30.39	
12.2	Financing Charges (FC)	0.00	0.00	0.00	0.00	
12.3	Foreign Exchange Rate Variation (FERV)	0.00	0.00	0.00	0.00	
12.4	Hedging Cost	0.00	0.00	0.00	0.00	
13.0	Project cost including IDC, FC, FERV & Hedging cost	925.00	740.97	297.10	113.07	As per actual



POWER GRID CORPORATION OF INDIA
WESTERN TRANSMISSION SYSTEM FOR PHASE-I GENERATION PROJECTS IN ORISSA (PART-C)
400KV 125 MVAR Bus Reactor at 765KV Indore SS along with associated bays associated with Transmission System for Phase-I Generation Projects in ORISSA-C

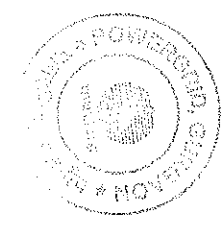
01.10.2013
(Actual)

Break-up of Construction/Supply/Service packages

Name/No. of Construction/supply service package	Scope of works (in line with head of cost break-ups as applicable)	Whether awarded through IC/DCE/ Departmentally/Deposit Work etc & No. of bids received.	Date of award received	Date of start of work	Date of completion of work	Value of Award in (Rs./ Euro/ \$) Lakhs	Firm or Escalation in prices.	Actual expenditure up to COD whichever is earlier. (Rs. Lakhs)	Taxes & Duties, customs duty & others and IEDC	IDC,FC,PERV & Hedging cost			
1	Substation Pkg. SS01 for Extension of 765/400kv Swallow, 765KV Bina, 765KV Jabalpur Pooling Station and 765/400kv Indore SIS.-Mts. Techno Electric & Engg. Company Ltd CC-CS/111-WR2/SS-1223/3/ G2/NOA-1/3955 & NOA-1/1/3966	Domestic	22.10.2011	22.10.2011	22.11.2013	Supply- INR 95,10,85,417/- Erection - Rs.27,68,99,836/-	Escalation	298.88	0.05	12.99	311.73		
2	Reactor Pkg. P238-BR01 for 2X125 MVAR, 420KV B/R at Swallow SIS and 1X125 MVAR, 420KV B/R at Indore SIS.-ALSTOM T & D India Limited CC-CS/111-WR2/RT-1223/3/ G2/NOA-1/4283 & NOA-1/1/4284	Domestic	13.04.2012	13.04.2012	13.05.2014	Supply- Rs. 12,38,89,000/- Erection- Rs 64,29,000/-	Escalation	351.20	60.15	17.89	429.24		
GRAND TOTAL										649.89	60.20	30.88	740.97

(Rs in Lakhs)

2013.10.01



Financial package upto COD

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **400kV 125MVAR Bus Reactor at 765kV Indore SS along with associated bays. :DOCO :01-OCT-2013**
 Project Cost as on COD/31.03.2009: **740.97 (Rs. in Lakhs)**
 Date of Commercial Operation of the Transmission element: **01-OCT-2013**

(Rs in Laacs)

Transmission Lines						
	Financial Package as apportioned/ Approved		Financial Package as on COD		As Admitted on COD	
	Currency and Amount		Currency and Amount		Currency and Amount	
Loans						
Loans - Domestic	INR	647.50	INR	408.68		
Loans - Foreign			INR	110.00		
Total Loans		647.50		518.68		
Equity						
Foreign						
Domestic	INR	277.50	INR	222.29		
Notional				0.00		
Total Equity		277.50		222.29		
Debt Equity Ratio		70.00:30.00		70.00:30.00		
Total Cost		925.00		740.97		
	Debt	Equity	Total			
Add Cap For 2013-2014			167.35			
Add Cap For 2013-2014	Actual	Normative				
Debt		117.14				
Equity		50.20				
Total		167.35				
Total Capital Cost with ADDCAP upto 01.04.2014			908.32			

07/11/2013
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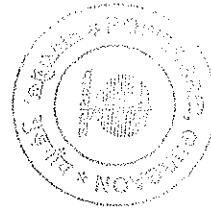
Statement of Additional Capitalisation after COD

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **400kV 125MVAR Bus Reactor at 765kV Indore SS along with associated bays. :DOCO :01-OCT-2013**
 COD: **01-OCT-2013**

Sl.No.	Year	Work/Equipment proposed to be added after COD upto cut off date/ beyond cut off date	Amount capitalised and proposed to be capitalised	Justification as per propose	Regulation under which covered	Admitted Cost
1	2013-2014	SUB STATION	167.35	Balance and Retention Payment	9(1)	7
	Total		167.35			
2.	2014-2015	SUB STATION	90.35	Balance and Retention Payment	9(1)	
	Total		90.35			
3.	2015-2016	SUB STATION	39.40	Balance and Retention Payment	9(1)	
	Total		39.40			

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Statement of Capital Cost

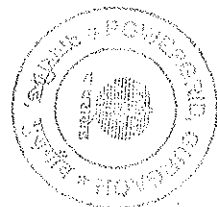
Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **400kV 125MVAR Bus Reactor at 765kV Indore SS along with associated bays. :DOCO :01-OCT-2013**

Statement of Capital Cost

(To be given for relevant dates and year wise)

	01-APR-2009- 31-Mar-2010	01-APR-2010- 31-Mar-2011	01-APR-2011- 31-Mar-2012	01-APR-2012- 31-Mar-2013	01-OCT-2013- 31-Mar-2014	(Rs. in Crores)
A						7.41
a) Opening Gross Block Amount as per books						
b) Amount of capital liabilities in A(a) above						
c) Amount of IDC, FC, FERV & Hedging cost included in A(a) above						0.61
d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) a						
B						1.67
a) Addition in Gross Block Amount during the period						
b) Amount of capital liabilities in B(a) above						
c) Amount of IDC, FC, FERV & Hedging cost included in B(a) above						
d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) a						9.08
C						0.61
a) Closing Gross Block Amount as per books						
b) Amount of capital liabilities in C(a) above						
c) Amount of IDC, FC, FERV & Hedging cost included in C(a) above						
d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) a						

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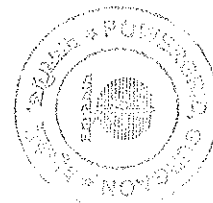


Financing of Additional Capitalisation

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
 Name of Region: WESTERN REGION
 Name of the Project: Transmission System for Phase-I Generation Projects in ORISSA-C
 Name of the Transmission Element: 400KV 125MVAR Bus Reactor at 765KV Indore SS along with associated bays. :DOCO :01-OCT-2013

Financial Year (Starting from COD)	Projected/Actual					Admitted				
	From COD to 31- Mar-2014	Year2	Year3	Year4	Year5& So on	Year1	Year2	Year3	Year4	Year5 & so on
1	2	3	4	5	6	7	8	9	10	11
Amount capitalised in Work/Equipmen t	167.35									
Financing Details										
Loan-1										
Loan-2										
Loan-3 and so on										
Total Loan	117.14									
Equity	50.20									
Internal Resources										
Others										
Total	167.35									

(Rs in Lacs)



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Calculation of Depreciation Rate

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **400kV 125MVAR Bus Reactor at 765kV Indore SS along with associated bays. :DOCO :01-OCT-2013**

(Rs in Lacs)

Sl.No.	Name of the Assets	Gross Block as on 31.03.2013 or as on COD, whichever is later	Addcap during the year	Gross Block as on 31.03.2014 or as on COD, whichever is later	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount up to 31.03.2014
	1	2	3	4	5	6=Col.4 X Col.5
2013-2014						
1	FREEHOLD LAND	0.00	0.00	0.00	0.00%	0.00
2	BUILDING	0.00	0.00	0.00	3.34%	0.00
3	TR LINE	0.00	0.00	0.00	5.28%	0.00
4	SUB STATION	740.97	167.35	908.32	5.28%	21.77
5	PLCC	0.00	0.00	0.00	6.33%	0.00
6	LEASEHOLD LAND	0.00	0.00	0.00	3.34%	0.00
	Total	740.97	167.35	908.32		21.77
Weighted Average Rate of Depreciation (%)						2.64
Elapsed Life						0


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Statement of Depreciation

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
 Name of Region: WESTERN REGION
 Name of the Project: Transmission System for Phase-I Generation Projects in ORISSA-C
 Name of the Transmission Element: 400kV 125MVAR Bus Reactor at 765kV Indore SS along with associated bays. :DOCO :01-OCT-2013

Financial Year	(Rs in Lacs)													
	Upto 2000-2001	2001-2002	2002-2003	2003-2004	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Depreciation on Capital Cost														19.56
Depreciation on Additional Capitalisation														
Amount of Additional Capitalisation														167.35
Depreciation Amount														
Details of FERV														2.21
Amount of FERV on which depreciation charged														
Depreciation Amount														
Depreciation Recovered during the year														21.77
Advance against Depreciation recovered during the year														
Depreciation and Advance against Depreciation recovered during the year														21.77
Cumulative Depreciation And Advance against Depreciation recovered upto the year														21.77



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Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **400kV 125MVAR Bus Reactor at 765kV Indore SS along with associated bays. :DOCO :01-OCT-2013**

Particulars	(Rs in Laacs)					
	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
IFC (IFC - A LOAN) (31419-00)						
Gross Loan Opening						5.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						5.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						5.00
Average Net Loan						5.00
Rate of Interest on Loan		0%	0%	0%	0%	3.285%
Interest on Loan						0.16
IFC (IFC - B LOAN) (31419-01)						
Gross Loan Opening						40.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						40.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						40.00
Average Net Loan						40.00
Rate of Interest on Loan		0%	0%	0%	0%	2.435%
Interest on Loan						0.97
IFC (ICFF LOAN) (31419-02)						
Gross Loan Opening						15.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						15.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						15.00
Average Net Loan						15.00
Rate of Interest on Loan		0%	0%	0%	0%	3.285%
Interest on Loan						0.49
FC - BOND (17.01.2013)						
Gross Loan Opening						50.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						50.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						50.00
Average Net Loan						50.00
Rate of Interest on Loan		0%	0%	0%	0%	3.875%
Interest on Loan						1.94
Proposed Loan 2013-14 (8.70%)						
Gross Loan Opening						330.68

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Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **400kV 125MVAR Bus Reactor at 765kV Indore SS along with associated bays. :DOCO :01-OCT-2013**

Particulars	(Rs in Lacs)					
	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						330.68
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						330.68
Average Net Loan						330.68
Rate of Interest on Loan		0%	0%	0%	0%	8.7%
Interest on Loan						28.77
BOND - XLII						
Gross Loan Opening						7.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						7.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						7.00
Average Net Loan						7.00
Rate of Interest on Loan		0%	0%	0%	0%	8.8%
Interest on Loan						0.62
BOND - XLI						
Gross Loan Opening						6.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						6.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						6.00
Average Net Loan						6.00
Rate of Interest on Loan		0%	0%	0%	0%	8.85%
Interest on Loan						0.53
SBI (21.03.2012)						
Gross Loan Opening						15.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						15.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						15.00
Average Net Loan						15.00
Rate of Interest on Loan		0%	0%	0%	0%	10.05%
Interest on Loan						1.51
BOND XXXVII						
Gross Loan Opening						15.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						15.00

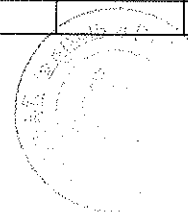
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Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **400kV 125MVAR Bus Reactor at 765kV Indore SS along with associated bays. :DOCO :01-OCT-2013**

(Rs in Laacs)

Particulars	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						15.00
Average Net Loan						15.00
Rate of Interest on Loan		0%	0%	0%	0%	9.25%
Interest on Loan						1.39
BOND XL						
Gross Loan Opening						25.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						25.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						25.00
Average Net Loan						25.00
Rate of Interest on Loan		0%	0%	0%	0%	9.3%
Interest on Loan						2.33
BOND XXXIX						
Gross Loan Opening						10.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						10.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						10.00
Average Net Loan						10.00
Rate of Interest on Loan		0%	0%	0%	0%	9.4%
Interest on Loan						0.94
Total						
Gross Loan Opening						518.68
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						518.68
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						518.68
Average Net Loan						518.68
Interest on Loan						39.64
Weighted Average Rate of Interest on Loans						7.6434%



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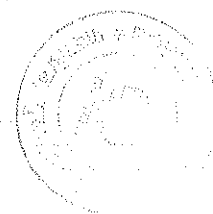
Calculation of Interest on Normative Loan

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **400kV 125MVAR Bus Reactor at 765kV Indore SS along with associated bays. :DOCO :01-OCT-2013**

(Rs in Lacs)

Particulars	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
1	2	3	4	5	6	7
Gross Normative Loan - Opening						518.68
Cumulative repayment of Normative Loan upto previous year						
Net Normative loan - Opening						518.68
Increase/Decrease due to ACE during the Year						117.14
Repayments of Normative Loan during the year						21.77
Net Normative loan - Closing						614.05
Average Normative Loan						566.37
Weighted average Rate of Interest on actual Loans						7.6434%
Interest on Normative loan						21.64


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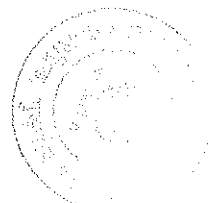


Loans in Foreign Currency

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **400kV 125MVAR Bus Reactor at 765kV Indore SS along with associated bays. :DOCO :01-OCT-2013**

Particulars	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
1	2	3	4	5	6	7
IFC (IFC - A LOAN) (31419-00) (USD in LACs) EXCHANGE RATE : 63.12						
Gross Loan Opening						0.08
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						0.08
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						0.08
Average Net Loan						0.08
Rate of Interest on Loan						3.285%
Interest on Loan						
IFC (IFC - B LOAN) (31419-01) (USD in LACs) EXCHANGE RATE : 63.12						
Gross Loan Opening						0.63
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						0.63
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						0.63
Average Net Loan						0.63
Rate of Interest on Loan						2.435%
Interest on Loan						0.02
IFC (ICFF LOAN) (31419-02) (USD in LACs) EXCHANGE RATE : 63.12						
Gross Loan Opening						0.24
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						0.24
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						0.24
Average Net Loan						0.24
Rate of Interest on Loan						3.285%
Interest on Loan						0.01
FC - BOND (17.01.2013) (USD in LACs) EXCHANGE RATE : 63.12						
Gross Loan Opening						0.79
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						0.79
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						0.79
Average Net Loan						0.79
Rate of Interest on Loan						3.875%
Interest on Loan						0.03


Petitioner





**NATIONAL STOCK EXCHANGE
OF INDIA LIMITED**

NIFTY 50
Stock of the nation

Ref.: NSE/LIST/155559-V

January 4, 2012

The Manager (Finance)
Power Grid Corporation Limited
Saudamini,
Plot No.2, Sector - 29,
Gurgaon(Haryana) - 122 001.

Kind Attn. : Mr. K.C. Pant

Dear Sir,


Sub: **Listing of Secured Redeemable, Non-Convertible, Non Cumulative,
Redeemable, Taxable Bonds (Series-XXXVII) issued by Power Grid
Corporation of India Limited**

This has reference to your listing application for the listing of Secured Redeemable, Non-Convertible, Non Cumulative, Redeemable, Taxable Bonds (Series-XXXVII), issued by you.

In this connection, we are pleased to inform you that the securities as specified in the application are duly listed on the WDM segment with effect from January 4, 2012 and all members have been suitably informed as per details given in Annexure I.

A Trade Statistics report will be provided to you on a monthly basis in the first week of the following month, if the security was traded during the previous month. This report will contain price volume details for each day traded.

Yours truly,
For National Stock Exchange of India Limited


Johnson Joseph
Chief Manager

pam





Annexure I
Power Grid Corporation of India Limited
Details of Securities

Sr. No.	Issue Description	Security Type	Security	Issue	Allotment amount (In lakhs)	Maturity date
1	POWER GRID CORP 9.25% 2015 (S-XXXVII, STRPP-A)	PT	PGC15B	9.25%	16625	26-Dec-2015
2	POWER GRID CORP 9.25% 2016 (S-XXXVII, STRPP-B)	PT	PGC16B	9.25%	16625	26-Dec-2016
3	POWER GRID CORP 9.25% 2017 (S-XXXVII, STRPP-C)	PT	PGC17B	9.25%	16625	26-Dec-2017
4	POWER GRID CORP 9.25% 2018 (S-XXXVII, STRPP-D)	PT	PGC18B	9.25%	16625	26-Dec-2018
5	POWER GRID CORP 9.25% 2019 (S-XXXVII, STRPP-E)	PT	PGC19B	9.25%	16625	26-Dec-2019
6	POWER GRID CORP 9.25% 2020 (S-XXXVII, STRPP-F)	PT	PGC20B	9.25%	16625	26-Dec-2020
7	POWER GRID CORP 9.25% 2021 (S-XXXVII, STRPP-G)	PT	PGC21B	9.25%	16625	26-Dec-2021
8	POWER GRID CORP 9.25% 2022 (S-XXXVII, STRPP-H)	PT	PGC22A	9.25%	16625	26-Dec-2022
9	POWER GRID CORP 9.25% 2023 (S-XXXVII, STRPP-I)	PT	PGC23	9.25%	16625	26-Dec-2023
10	POWER GRID CORP 9.25% 2024 (S-XXXVII, STRPP-J)	PT	PGC24	9.25%	16625	26-Dec-2024
11	POWER GRID CORP 9.25% 2025 (S-XXXVII, STRPP-K)	PT	PGC25	9.25%	16625	26-Dec-2025
12	POWER GRID CORP 9.25% 2026 (S-XXXVII, STRPP-L)	PT	PGC26	9.25%	16625	26-Dec-2026

H



Date: 16/12/2022



Ref.: NSE/LIST/166892-S

April 26, 2012

The Manager (Finance)
Power Grid Corporation of India Limited
Saudamini,
Plot No.2, Sector - 29,
Gurgaon(Haryana) - 122 001.

Kind Attn. : Mr. K.C. Pant

Dear Sir,

**Sub: Listing of Secured, Redeemable, Non-Convertible, Non Cumulative,
Redeemable, Taxable Bonds (Series-XXXIX) issued by Power Grid
Corporation of India Limited**


This has reference to your listing application for the listing of secured redeemable, non-convertible, non cumulative, redeemable, taxable Bonds (Series-XXXIX).

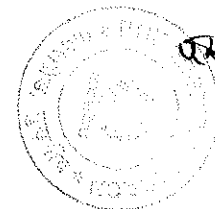
In this connection, we are pleased to inform you that the securities as specified in the application are duly listed on the WDM segment with effect from April 26, 2012 and all members have been suitably informed as per details given below:

Sr. No	Security Description	Sec Type	Security	Issue	Issue Size (Rs. in lakhs)	Maturity Date
1	POWER GRID CORP 9.40% 2027 (S- XXXIX)	PT	PGC27	9.40%	180000	29-Mar-2027

A Trade Statistics report will be provided to you on a monthly basis in the first week of the following month, if the security was traded during the previous month. This report will contain price volume details for each day traded.

Yours faithfully,
For National Stock Exchange of India Limited


Johnson Joseph
Chief Manager





Ref.: NSE/LIST/ 175394-C

July 19, 2012

The Manager (Finance)
Power Grid Corporation of India Limited
Saudamini,
Plot No.2, Sector - 29,
Gurgaon(Haryana) - 122 001.

Kind Attn. : Mr. K.C. Pant

Dear Sir,

**Sub: Listing of Secured Redeemable, Non-Convertible, Non Cumulative,
Redeemable, Taxable Bonds (Series – XL) issued by Power Grid
Corporation of India Limited**

This has reference to your application for the listing of secured redeemable, non-convertible, non cumulative, redeemable, taxable Bonds (Series-XL).

In this connection, we are pleased to inform you that the securities as specified in the application are duly listed on the WDM segment with effect from July 19, 2012 and all members have been suitably informed as per details given in the annexure below:

A Trade Statistics report will be provided to you on a monthly basis in the first week of the following month, if the security was traded during the previous month. This report will contain price volume details for each day traded.

Yours truly,
For National Stock Exchange of India Limited

Vishal Patelia

Vishal Patelia
Manager



Ref.: NSE/LIST/199045-S

March 25, 2013

The Manager (Finance)
Power Grid Corporation of India Limited
Saudamini,
Plot No.2, Sector - 29,
Gurgaon(Haryana) - 122 001.

Kind Attn. : Mr. K.C. Pant

Dear Sir,

**Sub: Listing of Secured, Redeemable, Non-Convertible, Non Cumulative,
Redeemable, Taxable Bonds (Series-XLII) issued by Power Grid
Corporation of India Limited**

This has reference to your listing application for the listing of secured redeemable, non-convertible, non cumulative, redeemable, taxable Bonds (Series-XLII).

In this connection, we are pleased to inform you that the securities as specified in the application are duly listed on the WDM segment with effect from March 25, 2013 and all members have been suitably informed as per details given below:

Sr. No	Security Description	Sec Type	Security	Issue	Issue Size (Rs. in lakhs)	Maturity Date
1	Power Grid Corp 8.80% 2023 (S-XLII)	PT	PGC23	8.80%	199000	13-May-2023

A Trade Statistics report will be provided to you on a monthly basis in the first week of the following month, if the security was traded during the previous month. This report will contain price volume details for each day traded.

Yours faithfully,
For National Stock Exchange of India Limited

Vishal Patelia

Vishal Patelia
Manager

Pant

Chh. Pant





Annexure I
Power Grid Corporation of India Limited
Details of Securities

Sr. No.	Issue Description	Security Type	Security	Issue	Allotment amount (In lakhs)	Maturity date
1	POWER GRID CORP 9.30% 2016 (S-XL, STRPP-A)	PT	PGC16A	9.30%	33312.5	28-Jun-2016
2	POWER GRID CORP 9.30% 2017 (S-XL, STRPP-B)	PT	PGC17A	9.30%	33312.5	28-Jun-2017
3	POWER GRID CORP 9.30% 2018 (S-XL, STRPP-C)	PT	PGC18A	9.30%	33312.5	28-Jun-2018
4	POWER GRID CORP 9.30% 2019 (S-XL, STRPP-D)	PT	PGC19A	9.30%	33312.5	28-Jun-2019
5	POWER GRID CORP 9.30% 2020 (S-XL, STRPP-E)	PT	PGC20A	9.30%	33312.5	28-Jun-2020
6	POWER GRID CORP 9.30% 2021 (S-XL, STRPP-F)	PT	PGC21A	9.30%	33312.5	28-Jun-2021
7	POWER GRID CORP 9.30% 2022 (S-XL, STRPP-G)	PT	PGC22A	9.30%	33312.5	28-Jun-2022
8	POWER GRID CORP 9.30% 2023 (S-XL, STRPP-H)	PT	PGC23A	9.30%	33312.5	28-Jun-2023
9	POWER GRID CORP 9.30% 2024 (S-XL, STRPP-I)	PT	PGC24	9.30%	33312.5	28-Jun-2024
10	POWER GRID CORP 9.30% 2025 (S-XL, STRPP-J)	PT	PGC25	9.30%	33312.5	28-Jun-2025
11	POWER GRID CORP 9.30% 2026 (S-XL, STRPP-K)	PT	PGC26	9.30%	33312.5	28-Jun-2026
12	POWER GRID CORP 9.30% 2027 (S-XL, STRPP-L)	PT	PGC27	9.30%	33312.5	28-Jun-2027

9.30.2



H

Ref. :II/CA/COM/67304/2012

October 23, 2012

Ms. Divya Tandon
 Company Secretary
 Power Grid Corporation of India Limited
 4th Floor, Power Grid Building
 Plot No. 2, Sector 29,
 Near ISSCO chowk
 Gurgaon - 122 001

Madam,

Sub. : Allotment

As per the corporate action(s) executed by your R&T Agent/Registry Division viz; MCS Limited, Delhi, Bonds were credited/debited to the account(s) in the NSDL system, details of which are given below :

ISIN	ISIN Description	D/C	Records	QTY	Execution Date
JNE752E07KB4	POWER GRID CORPORATION OF STRPP-A 8.85 LOA 19OT16 FVRS12.5LAC	CREDIT	24	1835	22/10/2012
INE752E07KC2	POWER GRID CORPORATION OF STRPP-B 8.85 LOA 19OT17 FVRS12.5LAC	CREDIT	24	1835	22/10/2012
INE752E07KD0	POWER GRID CORPORATION OF STRPP-C 8.85 LOA 19OT18 FVRS12.5LAC	CREDIT	24	1835	22/10/2012
INE752E07KE8	POWER GRID CORPORATION OF STRPP-D 8.85 LOA 19OT19 FVRS12.5LAC	CREDIT	24	1835	22/10/2012
INE752E07KF5	POWER GRID CORPORATION OF STRPP-E 8.85 LOA 19OT20 FVRS12.5LAC	CREDIT	24	1835	22/10/2012
INE752E07KG3	POWER GRID CORPORATION OF STRPP-F 8.85 LOA 19OT21 FVRS12.5LAC	CREDIT	24	1835	22/10/2012
INE752E07KH1	POWER GRID CORPORATION OF STRPP-G 8.85 LOA 19OT22 FVRS12.5LAC	CREDIT	24	1835	22/10/2012
INE752E07KI9	POWER GRID CORPORATION OF STRPP-H 8.85 LOA 19OT23 FVRS12.5LAC	CREDIT	24	1835	22/10/2012
INE752E07KJ7	POWER GRID CORPORATION OF STRPP-I 8.85 LOA 19OT24 FVRS12.5LAC	CREDIT	24	1835	22/10/2012
INE752E07KK5	POWER GRID CORPORATION OF STRPP-J 8.85 LOA 19OT25 FVRS12.5LAC	CREDIT	24	1835	22/10/2012
INE752E07KL3	POWER GRID CORPORATION OF STRPP-K 8.85 LOA 19OT26 FVRS12.5LAC	CREDIT	24	1835	22/10/2012
INE752E07KM1	POWER GRID CORPORATION OF STRPP-L 8.85 LOA 19OT27 FVRS12.5LAC	CREDIT	24	1835	22/10/2012

National Securities Depository Ltd.

4th Floor, 'A' Wing, Trade World, Kamala Mills Compound, Senapati Bapat Marg, Lower Parel, Mumbai - 400 013, India
 Tel.: 91-22-2499 4200 | Fax: 91-22-2497 6351 | Email: info@nsdl.co.in | Web: www.nsdl.co.in



You may contact your R&T Agent/ Registry Division for further details in this regard.

Yours faithfully,

Nitin Ambure
Vice President

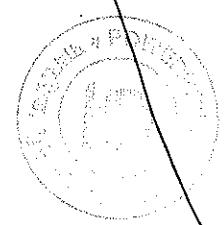
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Validity unknown

Digitally signed by **Nitin K.**
Date: 2012.10.23 12:53:39 +05:30
Reason: Authentication

National Securities Depository Ltd.

4th Floor, 'A' Wing, Trade World, Kamala Mills Compound, Senapati Bapat Marg, Lower Parel, Mumbai - 400 013, India
Tel.: 91-22-2499 4200 | Fax: 91-22-2497 6351 | Email: info@nsdl.co.in | Web: www.nsdl.co.in





2121 Pennsylvania Avenue, NW
 Washington, DC 20433
 USA

Wednesday, April 03, 2013

Page 1 of 1

Re: POWER GRID CORPORATION OF INDIA Audit Confirmation

We hereby confirm that the outstanding balance of IFC's Loan to the above company as of March 31, 2013 was as follows. All other terms and conditions are in accordance with the investment agreement.

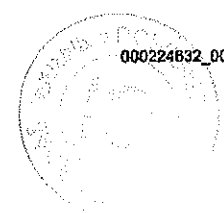
As of March 31, 2013

Tranche	31419-00	31419-01	31419-02
Currency	USD	USD	USD
Principal Amount Outstanding	100,000,000.00	120,000,000.00	50,000,000.00
Undisbursed Amount	0.00	0.00	0.00
Interest Rate	3.345000%	2.495000%	3.345000%
Interest Rate Type	VARIABLE	VARIABLE	VARIABLE
Accrued Interest	157,958.34	141,383.33	78,979.16
Accrued Commitment Fee	0.00	0.00	0.00
Accrued Other Fees	0.00	0.00	0.00
Accrued Default Rate Interest	0.00	0.00	0.00
Repayment Schedule			
Next Repayment Schedule	15-SEP-17	15-SEP-15	15-SEP-17
Next Repayment Amount	5,000,000.00	30,000,000.00	2,500,000.00
Repayment Frequency	SEMI-ANNUALLY	SEMI-ANNUALLY	SEMI-ANNUALLY
Last Maturity Date	15-MAR-27	15-MAR-17	15-MAR-27
Remaining Payments	20	4	20

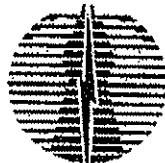
For Internal use only

Sincerely,

Scott Riggs
 Head, Loan Operations
 Corporate Financial Operations
 Fax: (202) 974-4371



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पावरग्रिड

POWER GRID CORPORATION OF INDIA LIMITED

(incorporated with limited liability in India)

U.S.\$500,000,000 3.875 per cent. Notes due 2023

Issue price: 98.954 per cent.

The U.S.\$500,000,000 3.875 per cent. notes due 2023 (the Notes) are issued by Power Grid Corporation of India Limited (the Issuer).

The Issuer may, at its option, redeem all, but not some only, of the Notes at any time at par plus accrued interest, in the event of certain tax changes as described under "Conditions of the Notes – Redemption and Purchase". The Notes mature on 17 January 2023.

Approval-in-principal has been received for the listing of the Notes on the Singapore Exchange Securities Trading Limited (the SGX-ST). The SGX-ST assumes no responsibility for the correctness of any statements made, opinions expressed or reports contained herein. Admission of the Notes to the Official List of the SGX-ST is not to be taken as an indication of the merits of the Issuer or the Notes.

The Notes will be rated BBB- by Standard & Poor's (S&P) and BBB- by Fitch Ratings (Fitch). A rating is not a recommendation to buy, sell or hold securities and may be subject to revision, suspension or withdrawal at any time by the assigning rating organisation.

The Notes have not been and will not be registered under the United States Securities Act of 1933, as amended (the Securities Act) and may not be offered or sold within the United States except in certain transactions exempt from the registration requirements of the Securities Act. This offering circular (Offering Circular) has not been and will not be registered as a prospectus or a statement in lieu of a prospectus with the Registrar of Companies in India in accordance with the Companies Act, 1956 and other laws for the time being in force. This Offering Circular has not been and will not be reviewed or approved by any regulatory authority in India, including, but not limited to, the Securities and Exchange Board of India (SEBI), any Registrar of Companies or any stock exchange in India. This Offering Circular and the Notes are not and should not be construed as an advertisement, invitation, offer or sale of any securities to the public or any person resident in India. The Notes have not been and will not be, offered or sold to any person resident in India. If you purchase any of the Notes, you will be deemed to have acknowledged, represented and agreed that you are eligible to purchase the Notes under applicable laws and regulations and that you are not prohibited under any applicable law or regulation from acquiring, owning or selling the Notes.

The Notes will initially be represented by a global certificate in registered form (the Global Certificate) which will be registered in the name of a nominee of a common depository for Euroclear Bank SA/NV (Euroclear) and Clearstream Banking, société anonyme (Clearstream, Luxembourg). It is expected that delivery of the Global Certificate will be made on 17 January 2013 or such later date as may be agreed (the Closing Date) by the Issuer and the Joint Lead Managers (as defined under "Subscription and Sale").

An investment in Notes involves certain risks. Prospective investors should have regard to the factors described under the heading "Risk Factors" on page 11.

Joint Lead Managers and Joint Bookrunners

Barclays

The Royal Bank of Scotland

Standard Chartered Bank

The date of this Offering Circular is 10 January 2013.





**NATIONAL STOCK EXCHANGE
OF INDIA LIMITED**

1/3

NIFTY 50
Stock of the nation

Ref.: NSE/LIST/206336-V

June 06, 2013

The Dy. General Manager (Finance),
Power Grid Corporation of India Limited
"Saudamini",
Plot No.2, Sector - 29,
Gurgaon - 122 001.

Kind Attn. : Mr. Sandeep Kumar Jain

Dear Sir,

**Sub: Listing of Secured, Redeemable, Non-Convertible, Non Cumulative,
Redeemable, Taxable Bonds (Series - XLIII issued by Power Grid
Corporation of India Limited**

This has reference to your listing application for the listing of Secured Redeemable, Non - Convertible, Non - Cumulative, Redeemable, Taxable Bonds (Series - XLIII).

In this connection, we are pleased to inform you that the securities as specified in the application are duly listed on the WDM segment with effect from June 06, 2013 and all members have been suitably informed as per details given in the Annexure.

A Trade Statistics report will be provided to you on a monthly basis in the first week of the following month, if the security was traded during the previous month. This report will contain price volume details for each day traded.

Yours truly,
For National Stock Exchange of India Limited

Rajdev

Samir Rajdev
Manager

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2/3

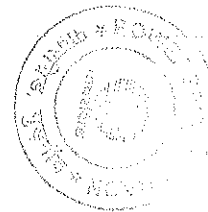
Continuation Sheet

Ref.: NSE/LIST/206246-6

June 05, 2013

Annexure

Sr. No	Security Description	Sec Type	Security	Issue	Issue Size (Rs. in lakhs)	Maturity Date
1.	Power Grid Corp 7.93% 2017 (S-XLIII)	PT	PGC17	7.93%	26050	20-May-2017
2.	Power Grid Corp 7.93% 2018 (S-XLIII)	PT	PGC18	7.93%	26050	20-May-2018
3.	Power Grid Corp 7.93% 2019 (S-XLIII)	PT	PGC19	7.93%	26050	20-May-2019
4.	Power Grid Corp 7.93% 2020 (S-XLIII)	PT	PGC20	7.93%	26050	20-May-2020
5.	Power Grid Corp 7.93% 2021 (S-XLIII)	PT	PGC21	7.93%	26050	20-May-2021
6.	Power Grid Corp 7.93% 2022 (S-XLIII)	PT	PGC22	7.93%	26050	20-May-2022





3/3

Continuation Sheet

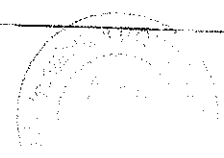
Ref: NSE/LIST/206336-V

June 06, 2013

Annexure

Sr. No	Security Description	Sec Type	Security	Issue	Issue Size (Rs. in lakhs)	Maturity Date
1.	Power Grid Corp 7.93% 2023 (S-XLIII)	PT	PGC23	7.93%	26050	20-May-2023
2.	Power Grid Corp 7.93% 2024 (S-XLIII)	PT	PGC24	7.93%	26050	20-May-2024
3.	Power Grid Corp 7.93% 2025 (S-XLIII)	PT	PGC25	7.93%	26050	20-May-2025
4.	Power Grid Corp 7.93% 2026 (S-XLIII)	PT	PGC26	7.93%	26050	20-May-2026
5.	Power Grid Corp 7.93% 2027 (S-XLIII)	PT	PGC27	7.93%	26050	20-May-2027
6.	Power Grid Corp 7.93% 2028 (S-XLIII)	PT	PGC28	7.93%	26050	20-May-2028

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भारतीय स्टेट बैंक
State Bank of India

कॉर्पोरेट लेखा समूह शाखा, जवाहर व्यापार भवन,
11वां व 12 वां तल, 1, टॉलस्टोय मार्ग, नई दिल्ली - 110001
Corporate Accounts Group Branch, Jawahar Vyapar Bhawan,
11th & 12th Floor, 1, Tolstoy Marg, New Delhi-110001

Te: 23352610, 23374505, 23374541 (AMT-I); 23353022 (AGM & CDD); 23701043, 23359506 (A & A); 23352995 (CS); 23352968 (IB);
Fax: 23352151 (Sectt); 23352792 (CS); 23353029 (IB)

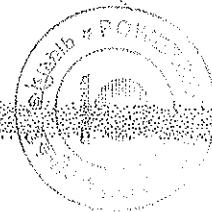
TO WHOMSOEVER IT MAY CONCERN

This is to certify that SBI BASE RATE (BR) on 01.04.2013 was 9.70% p.a.

Dy. General Manager & RM (AMT-I)

15.04.2013

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Calculation of Interest on Working Capital

Name of the Transmission Licensee:

POWERGRID CORPORATION OF INDIA LTD.

Name of Region:

WESTERN REGION

Name of the Project:

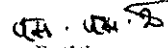
Transmission System for Phase-I Generation Projects in ORISSA-C

Name of the Transmission Element:

400kV 125MVAR Bus Reactor at 765kV Indore SS along with associated bays.
:DOCO :01-OCT-2013

(Rs in Laacs)

Sl.N o.	Particulars	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
1	2	3	4	5	6	7	8
1	O and M Expenses						5.46
2	Maintenance Spares						9.82
3	Receivables						33.66
4	Total Working Capital						48.94
5	Rate of Interest						13.20
6	Interest on Working Capital						3.23


Petitioner

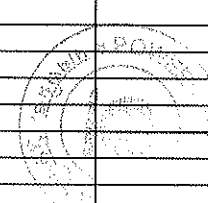


Draw Down Schedule for Calculation of IDC & Financing Charges

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **400kV 125MVAR Bus Reactor at 765kV Indore SS along with associated bays. :DOCO :01-OCT-2013**

(Rs in Lacs)

Draw Down Schedule for Calculation of IDC & Financing Charges										
Sl.No	Drawn Down	Quarter 1			Quarter 2			Quarter n(COD)		
Sl.No	Particulars	Quantum In Foreign Currency	Exchange Rate on Draw Down Date	Amount In Indian Rupee	Quantum In Foreign Currency	Exchange Rate on Draw Down Date	Amount In Indian Rupee	Quantum In Foreign Currency	Exchange Rate on Draw Down Date	Amount In Indian Rupee
1.	Loans									
1.1	Foreign Loans									
1.2	Indian Loans									
1.2.1	IFC (IFC - A LOAN) (31419-00)									
	Draw Down Amount									5.00
	IDC									
	Financing Charges									
1.2.2	IFC (IFC - B LOAN) (31419-01)									
	Draw Down Amount									40.00
	IDC									
	Financing Charges									
1.2.3	IFC (ICFF LOAN) (31419-02)									
	Draw Down Amount									15.00
	IDC									
	Financing Charges									
1.2.4	FC - BOND (17.01.2013)									
	Draw Down Amount									50.00
	IDC									
	Financing Charges									
	Total Foreign Loans									
	Draw Down Amount									110.00
	IDC									0.00
	Financing Charges									0.00
1.2	Indian Loans									
1.2.1	BOND XXXVII									
	Draw Down Amount									15.00
	IDC									
	Financing Charges									
1.2.2	BOND XXXIX									
	Draw Down Amount									10.00
	IDC									
	Financing Charges									
1.2.3	SBI (21.03.2012)									
	Draw Down Amount									15.00
	IDC									
	Financing Charges									
1.2.4	BOND XL									
	Draw Down Amount									25.00
	IDC									
	Financing Charges									
1.2.5	BOND - XLI									
	Draw Down Amount									6.00
	IDC									
	Financing Charges									
1.2.6	BOND - XLII									
	Draw Down Amount									7.00
	IDC									
	Financing Charges									
1.2.7	Proposed Loan 2013-14 (8.70%)									
	Draw Down Amount									330.68



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Draw Down Schedule for Calculation of IDC & Financing Charges

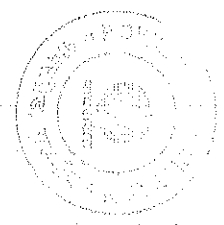
Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
 Name of Region: WESTERN REGION
 Name of the Project: Transmission System for Phase-I Generation Projects in ORISSA-C
 Name of the Transmission Element: 400kV 125MVAR Bus Reactor at 765kV Indore SS along with associated bays.
 :DOCO :01-OCT-2013

(Rs in Lacs)

Draw Down Schedule for Calculation of IDC & Financing Charges										
Sl.No	Drawn Down	Quarter 1			Quarter 2			Quarter n(COD)		
Sl.No.	Particulars	Quantum In Foreign Currency	Exchange Rate on Draw Down Date	Amount In Indian Rupee	Quantum In Foreign Currency	Exchange Rate on Draw Down Date	Amount In Indian Rupee	Quantum In Foreign Currency	Exchange Rate on Draw Down Date	Amount In Indian Rupee
	IDC									
	Financing Charges									
	Total Indian Loans									
	Draw Down Amount									408.68
	IDC									0.00
	Financing Charges									0.00
	Total of Loans Drawn									
	Draw Down Amount									518.68
	IDC									61.27
	Financing Charges									0.00
2	Equity									
2.1	Foreign Equity Drawn									
2.2	Indian Equity Drawn									0
	Total Equity Deployed									0.00

The project has been funded through domestic loans and foreign loans allocated from the common pool based on the phasing of expenditure and IDC has been booked accordingly. As the loans are allocated from common pool, quarter wise drawl is not furnished.

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Summary Sheet

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
Name of Region: WESTERN REGION

Name of the Project: Transmission System for Phase-I Generation Projects in ORISSA-C
Name of the Transmission Element: 400kV 125MAVR Bus Reactor-I & Bus Reactor-II at 765kV Gwalior S/s along with associated bays. :DOCO :01-OCT-2013

Sl.No.	Particulars	Form No.	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014 (Pro Rata)	(Rs in Lacs)
1	2	3	4	5	6	7	8	9	
1	Depreciation	FORM-12	0.00						27.82
2	Interest on Loan	FORM-13A	0.00						28.32
3	Return on Equity	FORM-01A	0.00						27.64
4	Interest On Working Capital	FORM-13B	0.00						1.88
5	Total		0.00						85.66

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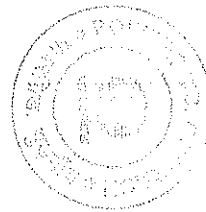
Calculation Of Return On Equity

Name of the Transmission Licensee:
Name of Region:
Name of the Project:
Name of the Transmission Element:

POWERGRID CORPORATION OF INDIA LTD.
WESTERN REGION
Transmission System for Phase-I Generation Projects in ORISSA-C
400kV 125MAVR Bus Reactor-I & Bus Reactor-II at 765kV Gwalior S/s along with associated bays. :DOCO :01-OCT-2013

Particulars	(Rs in Lacs)						
	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	
1	2	3	4	5	6	7	
Equity as DOCO							280.68
Notional Equity for Add Cap							71.00
Total Equity							351.68
Return on Equity @ 17.481%							27.64

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Details of Transmission Lines And Substations

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **400kV 125MAVR Bus Reactor-I & Bus Reactor-II at 765kV Gwalior S/s along with associated bays. :DOCO :01-OCT-2013**

Transmission Lines									
SL.No.	Name of Line	Type of Line AC/HVDC	S/C or D/C	No. of Sub-Conductors	Voltage level kV	Line Length (Km.)	Date of Commercial operation	Covered in the present petition	If No, petition No.
								Yes/No	If No, petition No.

Substations									
SL.No.	Name of Sub-Station	Type of Substation Conventional /GIS/HVDC Terminal/HVDC Back to Back	Voltage level kV	No. of Transformers / Reactors/ SVC etc (with Capacity)	No. of Bays	Date of Commercial operation	Covered in the present petition	If No, petition No.	
								Yes/No	If No, petition No.
								Yes/No	If No, petition No.

O&M Charges for Bays are not being claimed in the instant petition . After upgradation of Bina-Gwalior Ckt-I and Agra-Gwalior Ckt-I from 400kV to 765kV. 2No. 400kV bays which has become spare have been utilised for 125MAVR Bus Reactor-I and II



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Normative Parameters considered For tariff calculations

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **400KV 125MAVR Bus Reactor-II at 765kV Gwalior S/s along with associated bays. :DOCO :01-OCT-2013**

Particulars	Unit	Year Ending March							
		Existing	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	
1	2	3	4	5	6	7	8		
Base Rate of Return on Equity	%						17.481		
Tax Rate	%						11.33		
Target Availability	%						98.00		
Normative O&M per Km.	Rs. lacs	Given Below							
Normative O&M per bay	Rs. lacs	Given Below							
Spares for WC as % of O&M	%						15.00		
Recoverables in Months for WC	months						2.00		
Prime lending Rate of SBI as on 01-APR-2009	%						13.20		
Norms for O&M expenditure for Transmission System									
		2009-10	2010-11	2011-12	2012-13	2013-14			
Norms for sub-station (Rs Lakh per bay)									
765 KV		73.36	77.56	81.99	86.68	91.64			
400 KV		52.40	55.40	58.57	61.92	65.46			
220 KV		36.68	38.78	41.00	43.34	45.82			
132 KV and below		26.20	27.70	29.28	30.96	32.73			
Norms for AC and HVDC Lines (Rs Lakhs per km)									
Single Circuit (Bundled conductor with four or more sub-conductors)		0.537	0.568	0.600	0.635	0.671			
Single Circuit (Twin & Triple Conductor)		0.358	0.378	0.400	0.423	0.447			
Single Circuit (Single Conductor)		0.179	0.189	0.200	0.212	0.224			
Double Circuit (Bundled conductor with four or more sub-conductors)		0.940	0.994	1.051	1.111	1.174			
Double Circuit (Twin & Triple Conductor)		0.627	0.663	0.701	0.741	0.783			
Double Circuit (Single Conductor)		0.269	0.284	0.301	0.318	0.336			
Norms for HVDC Stations									
HVDC Back-to-back stations (Rs lakh per 500 MW)		443.00	468.00	495.00	523.00	553.00			
Rihand-Daen HVDC Bipole scheme (Rs Lakh)		1450.00	1533.00	1621.00	1713.00	1811.00			
Talcher-Ko. ar HVDC bipole scheme (Rs Lakh)		1699.00	1796.00	1899.00	2008.00	2122.00			

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Abstract of Capital Cost Estimates and Schedule of Commissioning for the New projects

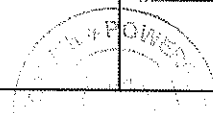
Name of the Transmission Licensee : POWER GRID CORPORATION OF INDIA
Name of Region: WESTERN
Name of the Project : TRANSMISSION SYSTEM FOR PHASE-I GENERATION PROJECTS IN ORISSA (PART-C)
 400KV 125 MVAR Bus Reactor-1 & Bus Reactor-2 at 765KV Gwalior SS along with associated bays associated with Transmission System for Phase-I Generation Projects in ORISSA-C
Name of Element:

Capital Cost Estimates

Board of Director/ Agency approving the Capital cost estimates:	Board of Directors of POWERGRID	
Date of approval of the Capital cost estimates:	Memo No. C/CP/ Orissa Ph-I IPPs (Part-C) dated 17.03.2011	
	Present Day Cost	Completed Cost
Price level of approved estimates	As of End 3rd Qtr. Of the year 2010	As on Scheduled COD (FR)
Foreign Exchange rate considered for the Capital cost estimates		
Capital Cost excluding IDC & FC		
Foreign Component, if any (In Million US \$ or the relevant Currency)	0	0.00
Domestic Component (Rs. Cr.)	13.17	14.84
Capital cost excluding IDC & FC (Rs. Cr)	13.17	14.84
IDC & FC		
Foreign Component, if any (In Million US \$ or the relevant Currency)	0	0.00
Domestic Component (Rs. Cr.)	0.93	1.05
Total IDC & FC (Rs.Cr.)	0.93	1.05
Rate of taxes & duties considered		
Capital cost Including IDC & FC		
Foreign Component, if any (In Million US \$ or the relevant Currency)	0.00	0.00
Domestic Component (Rs. Cr.)	14.10	15.89
Total Capital cost Including IDC & FC (Rs. Cr)	14.10	15.89
Schedule of Commissioning		
(Scheduled DOCO elementwise)	01.04.2014	01.10.2013
(COD of Unit-1/Block-1)		
(COD of Unit-1/Block-2)		
(COD of Unit-1/Block-3)		

Note:

- Copy of approval letter should be enclosed.
- Details of Capital cost are to be furnished as per FORM-5B or 5C as applicable.
- Details of IDC & Financing Charges are to be furnished as per FORM-16.



9/11/13

Name of the Transmission Licensee :

POWER GRID CORPORATION OF INDIA

Name of Region:

WESTERN REGION-II

Name of the Project :

TRANSMISSION SYSTEM FOR PHASE-I GENERATION PROJECTS IN ORISSA (PART-C)

Name of the Element:

400kV 125 MVAR Bus Reactor-1 & Bus Reactor-2 at 765kV Gwalior SS along with associated bays associated with Transmission System for Phase-I Generation Projects in ORISSA-C

(Rs in lakh)

Sl.No.	Break Down	As per Original Estimate (FR) (3rd Qtr.2010)	As on COD (01/10/2013)	Liabilities / Provision	Variation 6=(4+5-3)	Reasons for Variation
1	2	3		5	6=(4+5-3)	7
A	TRANSMISSION LINE					
	Total -Transmission lines	0.00	0.00	0.00	0.00	
B.	SUBSTATIONS					
4.0	Preliminary works & land					
4.1	Design & Engineering				0.00	
4.2	Land				0.00	
4.3	Site preparation				0.00	
	Total Preliminary works & land	0.00	0.00	0.00	0.00	
5.0	Civil Works					
5.1	Control Room & Office Building including HVAC				0.00	
5.2	Township & Colony				0.00	
5.3	Roads and Drainage				0.00	
5.4	Foundation for structures				0.00	
5.5	Misc. civil works				0.00	
	Total Civil Works	0.00	0.00	0.00	0.00	
6.0	Substation Equipments					
6.1	Switchgear (CT,PT, Circuit Breaker, Isolator etc)	209.21	81.08	89.97	-38.16	As per actual execution of works, which includes mandatory spares. Cost has been decreased as per actual awarded cost.
6.2	Transformers	0.00	0.00	0.00	0.00	
6.3	Compensating Equipment(Reactor, SVCs etc)	906.07	774.81	237.37	106.10	As per actual execution of works including associated allied civil works and mandatory spares. Cost has been decreased as per awarded cost
6.4	Control, Relay & Protection Panel	53.66	20.80	23.07	-9.79	As per actual execution of works, which includes mandatory spares. Cost has been decreased as per actual awarded cost.
6.5	PLCC	0.00	0.00	0.00	0.00	
6.6	HVDC package	0.00	0.00	0.00	0.00	
6.7	Bus Bars/ conductors/insulators	0.00	0.00	0.00	0.00	
6.8	Outdoor lighting	0.00	0.00	0.00	0.00	
6.9	Emergency DG set	0.00	0.00	0.00	0.00	
6.10	Grounding System	0.00	0.00	0.00	0.00	
6.11	Structure for Switch yard	3.80	1.47	1.63	-0.69	As per actual execution of works. Cost has been decreased as per actual awarded cost.
6.12	Auxiliary System	46.92	18.18	20.18	-8.56	As per actual execution of works. Cost has been decreased as per actual awarded cost.
	Total Substation Equipments	1219.65	896.34	372.22	48.91	As per actual
7.0	Spares (incl.in eqpt. cost)	0.00		0.00	0.00	
8.0	Taxes and Duties					
8.1	Custom Duty	0.00	0.00	0.00	0.00	
8.2	Other Taxes & Duties				0.00	
8.3	Total Taxes & Duties	0.00	0.00	0.00	0.00	
	Total (Sub-station)	1219.65	896.34	372.22	48.91	As per actual
9.0	Construction and pre-commissioning expenses					
9.1	Site supervision & site admn.etc. (Payable to SEBs)	0.00	0.00	0.00	0.00	
9.2	Tools and Plants	0.00	0.00	0.00	0.00	
9.3	construction Insurance	0.00	0.00	0.00	0.00	
	Total Construction and pre commissioning expenses	0.00	0.00	0.00	0.00	
10.0	Overheads					
10.1	Establishment	97.47	0.18	0.00	-97.29	
10.2	Audit & Accounts	0.00	0.00	0.00	0.00	
10.3	Contingency	0.00	0.00	0.00	0.00	
	Total Overheads	97.47	0.18	0.00	-97.29	As per actual
11.0	Project cost without IDC, FC, FERV & Hedging cost	1317.12	896.52	372.22	-48.38	As per actual
12.0	Total Cost (Plant & Equipment)	0.00	0.00	0.00	0.00	
12.1	Interest During Construction (IDC)	93.24	39.08	0.00	-54.16	
12.2	Financing Charges (FC)	0.00	0.00	0.00	0.00	
12.3	Foreign Exchange Rate Variation (FERV)	0.00	0.00	0.00	0.00	
12.4	Hedging Cost	0.00	0.00	0.00	0.00	
13.0	Project cost including IDC, FC, FERV & Hedging cost	1410.36	935.60	372.22	-102.55	As per actual

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POWER GRID CORPORATION OF INDIA
WESTERN TRANSMISSION SYSTEM FOR PHASE-I GENERATION PROJECTS IN ORISSA (PART-C)
400KV 125 MVAR Bus Reactor-1 & Bus Reactor-2 at 765KV Gwalior SS along with associated bays associated with Transmission System for Phase-I Generation Projects in ORISSA-C

Name of the Transmission Licensee :
Name of Region :
Name of the Project :
Name of the Transmission Element :

COD

Break-up of Construction/Supply/Service packages

Name/No. of Construction/Supply/Service package	Scope of works (in line with head of cost break-ups as applicable)	Whether awarded through ICI/DCPI/Departmental/Deposit Work etc. & No. of bids received.	No. of bids received.	Date of award	Date of start of work	Date of completion of work	Value of Award in (Rs./ Euro \$) Lakhs	Firm of work with Escalation in prices.	Actual expenditure till the completion of work in the COD whichever is earlier. (Rs. Lakhs)	FORM-5C	IDC FC-FERV & Hedging cost	Sub-Total	
										Taxes & Duties, customs duty & others and EDC			
1	Substation Pkg. SS01 for Extension of 765/400kv Gwalior, 765KV Bina, 765KV Jabalpur Pooling Station and 765/400kv Indore SIS...M/s. Techno Electric & Engg. Company Ltd CC-SS111-WR2/SS-1220/ G3NDA-1/2E5 & NOA-1/3995	Domestic	5	22.10.2011	22.10.2011	22.11.2013	Supply: INR 95,10,85,417 /- Erection - Rs. 27,68,99,835/-	Escalation		121.53	0.02	5.30	
2	Reactor Pkg. P233-BE01 for 2X125 MVAR, 420KV B/R at Gwalior SIS and 1X125 MVAR, 420KV B/R at Indore SIS...ALSTOM T & D India Limited CC-SS111-WR2/RT-1220/ G3NDA-1/4E0 & NOA-1/4284	Domestic	4	13.04.2012	13.04.2012	13.05.2014	Supply: Rs. 12,38,85,000/- Erection- Rs 64,26,000/-	Escalation		672.45	102.51	33.78	
GRAND TOTAL										793.99	102.53	39.08	935.60

Rs in lakhs

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Financial package upto COD

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **400kV 125MAVR Bus Reactor-I & Bus Reactor-II at 765kV Gwalior S/s along with associated bays. :DOCO :01-OCT-2013**
 Project Cost as on COD/31.03.2009: **935.60 (Rs. in Lakhs)**
 Date of Commercial Operation of the Transmission element: **01-OCT-2013**

(Rs in Lacs)

Transmission Lines						
	Financial Package as apportioned/ Approved		Financial Package as on COD		As Admitted on COD	
	Currency and Amount		Currency and Amount		Currency and Amount	
Loans						
Loans - Domestic	INR	987.25	INR	539.92		
Loans - Foreign			INR	115.00		
Total Loans		987.25		654.92		
Equity						
Foreign						
Domestic	INR	423.11	INR	280.68		
Notional				0.00		
Total Equity		423.11		280.68		
Debt Equity Ratio		70.00:30.00		70.00:30.00		
Total Cost		1410.36		935.60		
	Debt	Equity	Total			
Add Cap For 2013-2014			236.68			
Add Cap For 2013-2014	Actual	Normative				
Debt		165.68				
Equity		71.00				
Total		236.68				
Total Capital Cost with ADDCAP upto 01.04.2014			1172.28			

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Statement of Additional Capitalisation after COD

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
 Name of Region: WESTERN REGION
 Name of the Project: Transmission System for Phase-I Generation Projects in ORISSA-C
 Name of the Transmission Element: 400KV 125MAVR Bus Reactor-I & Bus Reactor-II at 765KV Gwalior S/s along with associated bays. :DOCO :01-OCT-2013
 COD: 01-OCT-2013

Sl.No.	Year	Work/Equipment proposed to be added after COD upto cut off date/ beyond cut off date	Amount capitalised and proposed to be capitalised	Justification as per propose	Regulation under which covered	Admitted Cost
		3	4	5	6	7
1.	2013-2014	SUB STATION	236.68	Balance and Retention Payment	9(1)	
	Total		236.68			
2.	2014-2015	SUB STATION	88.78	Balance and Retention Payment	9(1)	
	Total		88.78			
3.	2015-2016	SUB STATION	46.76	Balance and Retention Payment	9(1)	
	Total		46.76			

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Statement of Capital Cost

POWERGRID CORPORATION OF INDIA LTD.
WESTERN REGION

Transmission System for Phase-I Generation Projects in ORISSA-C

400kV 125MAVR Bus Reactor-I & Bus Reactor-II at 765kV Gwalior S/s along with associated bays. :DOCO :01-OCT-2013

Statement of Capital Cost

(To be given for relevant dates and year wise)

		01-APR-2009- 31-Mar-2010	01-APR-2010- 31-Mar-2011	01-APR-2011- 31-Mar-2012	01-APR-2012- 31-Mar-2013	01-OCT-2013- 31-Mar-2014
A	a) Opening Gross Block Amount as per books					9.36
	b) Amount of capital liabilities in A(a) above					
	c) Amount of IDC, FC, FERV & Hedging cost included in A(a) above					0.93
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) a					
B	a) Addition in Gross Block Amount during the period					2.37
	b) Amount of capital liabilities in B(a) above					
	c) Amount of IDC, FC, FERV & Hedging cost included in B(a) above					
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) a					
C	a) Closing Gross Block Amount as per books					11.73
	b) Amount of capital liabilities in C(a) above					
	c) Amount of IDC, FC, FERV & Hedging cost included in C(a) above					0.93
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) a					



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Financing of Additional Capitalisation

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **400kV 125MVA/B Bus Reactor-I & Bus Reactor-II at 765kV Gwalior S/s along with associated bays. :DOCO :01-OCT-2013**

(Rs in Laacs)

Financial Year (Starting from COD)	Projected/Actual					Admitted				
	From COD to31- Mar-2014	Year2	Year3	Year4	Year5& So on	Year1	Year2	Year3	Year4	Year5 & so on
1	2	3	4	5	6	7	8	9	10	11
Amount capitalised in Work/Equipmen t	236.68									
Financing Details										
Loan-1										
Loan-2										
Loan-3 and so on										
Total Loan	165.68									
Equity	71.00									
Internal Resources										
Others										
Total	236.68									



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Calculation of Depreciation Rate

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **400kV 125MAVR Bus Reactor-I & Bus Reactor-II at 765kV Gwalior S/s along with associated bays. :DOCO :01-OCT-2013**

(Rs in Lacs)

Sl.No.	Name of the Assets	Gross Block as on 31.03.2013 or as on COD, whichever is later	Addcap during the year	Gross Block as on 31.03.2014 or as on COD, whichever is later	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount up to 31.03.2014
	1	2	3	4	5	6=Col.4 X Col.5
2013-2014						
1	FREEHOLD LAND	0.00	0.00	0.00	0.00%	0.00
2	BUILDING	0.00	0.00	0.00	3.34%	0.00
3	TR LINE	0.00	0.00	0.00	5.28%	0.00
4	SUB STATION	935.60	236.68	1172.28	5.28%	27.82
5	PLCC	0.00	0.00	0.00	6.33%	0.00
6	LEASEHOLD LAND	0.00	0.00	0.00	3.34%	0.00
	Total	935.60	236.68	1172.28		27.82
Weighted Average Rate of Depreciation (%)						2.64
Elapsed Life						0

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Statement of Depreciation

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
Name of Region: **WESTERN REGION**

Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
Name of the Transmission Element: **400kV 125MAVR Bus Reactor-I & Bus Reactor-II at 765kV Gwalior S/s along with associated bays. :DOCO :01-OCT-2013**

Financial Year	(Rs in Lacs)													
	Upto 2000-2001	2001-2002	2002-2003	2003-2004	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
I	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Depreciation on Capital Cost														24.70
Depreciation on Additional Capitalisation														
Amount of Additional Capitalisation														236.68
Depreciation Amount														3.12
Details of FERV														
Amount of FERV on which depreciation charged														
Depreciation Amount														
Depreciation Recovered during the year														27.82
Advance against Depreciation recovered during the year														
Depreciation and Advance against Depreciation recovered during the year														27.82
Cumulative Depreciation And Advance against Depreciation recovered upto the year														27.82

[Signature]
Petitioner

Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **400kV 125MAVR Bus Reactor-I & Bus Reactor-II at 765kV Gwalior S/s along with associated bays. :DOCO :01-OCT-2013**

(Rs in Laacs)

Particulars	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
IFC (IFC - A LOAN) (31419-00)						
Gross Loan Opening						5.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						5.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						5.00
Average Net Loan						5.00
Rate of Interest on Loan		0%	0%	0%	0%	3.285%
Interest on Loan						0.16
IFC (IFC - B LOAN) (31419-01)						
Gross Loan Opening						45.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						45.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						45.00
Average Net Loan						45.00
Rate of Interest on Loan		0%	0%	0%	0%	2.435%
Interest on Loan						1.10
IFC (ICFF LOAN) (31419-02)						
Gross Loan Opening						20.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						20.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						20.00
Average Net Loan						20.00
Rate of Interest on Loan		0%	0%	0%	0%	3.285%
Interest on Loan						0.66
FC - BOND (17.01.2013)						
Gross Loan Opening						45.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						45.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						45.00
Average Net Loan						45.00
Rate of Interest on Loan		0%	0%	0%	0%	3.875%
Interest on Loan						1.74
Proposed Loan 2013-14 (8.70%)						
Gross Loan Opening						457.92

Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **400kV 125MAVR Bus Reactor-I & Bus Reactor-II at 765kV Gwalior S/s along with associated bays. :DOCO :01-OCT-2013**

(Rs in Lacs)

Particulars	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						457.92
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						457.92
Average Net Loan						457.92
Rate of Interest on Loan		0%	0%	0%	0%	8.7%
Interest on Loan						39.84
BOND - XLII						
Gross Loan Opening						5.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						5.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						5.00
Average Net Loan						5.00
Rate of Interest on Loan		0%	0%	0%	0%	8.8%
Interest on Loan						0.44
BOND - XLI						
Gross Loan Opening						1.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						1.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						1.00
Average Net Loan						1.00
Rate of Interest on Loan		0%	0%	0%	0%	8.85%
Interest on Loan						0.09
SBI (21.03.2012)						
Gross Loan Opening						20.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						20.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						20.00
Average Net Loan						20.00
Rate of Interest on Loan		0%	0%	0%	0%	10.05%
Interest on Loan						2.01
BOND XXXVII						
Gross Loan Opening						15.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						15.00

Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **400kV 125MAVR Bus Reactor-I & Bus Reactor-II at 765kV Gwalior S/s along with associated bays. :DOCO :01-OCT-2013**

(Rs in Laacs)

Particulars	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						15.00
Average Net Loan						15.00
Rate of Interest on Loan		0%	0%	0%	0%	9.25%
Interest on Loan						1.39
BOND XL						
Gross Loan Opening						25.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						25.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						25.00
Average Net Loan						25.00
Rate of Interest on Loan		0%	0%	0%	0%	9.3%
Interest on Loan						2.33
BOND XXXIX						
Gross Loan Opening						16.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						16.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						16.00
Average Net Loan						16.00
Rate of Interest on Loan		0%	0%	0%	0%	9.4%
Interest on Loan						1.50
Total						
Gross Loan Opening						654.92
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						654.92
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						654.92
Average Net Loan						654.92
Interest on Loan						51.25
Weighted Average Rate of Interest on Loans						7.8261%

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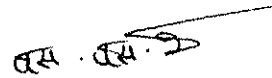


Calculation of Interest on Normative Loan

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **400kV I25MAVR Bus Reactor-I & Bus Reactor-II at 765kV Gwalior S/s along with associated bays. :DOC0 :01-OCT-2013**

(Rs in Lacs)

Particulars	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
1	2	3	4	5	6	7
Gross Normative Loan - Opening						654.92
Cumulative repayment of Normative Loan upto previous year						
Net Normative loan - Opening						654.92
Increase/Decrease due to ACE during the Year						165.68
Repayments of Normative Loan during the year						27.82
Net Normative loan - Closing						792.78
Average Normative Loan						723.85
Weighted average Rate of Interest on actual Loans						7.8261%
Interest on Normative loan						28.32


Petitioner

Loans in Foreign Currency

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **400kV 125MAVR Bus Reactor-I & Bus Reactor-II at 765kV Gwalior S/s along with associated bays. :DOCO :01-OCT-2013**

Particulars	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
I	2	3	4	5	6	7
IFC (IFC - A LOAN) (31419-00) (USD in LACs) EXCHANGE RATE : 63.12						
Gross Loan Opening						0.08
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						0.08
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						0.08
Average Net Loan						0.08
Rate of Interest on Loan						3.285%
Interest on Loan						
IFC (IFC - B LOAN) (31419-01) (USD in LACs) EXCHANGE RATE : 63.12						
Gross Loan Opening						0.71
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						0.71
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						0.71
Average Net Loan						0.71
Rate of Interest on Loan						2.435%
Interest on Loan						0.02
IFC (ICFF LOAN) (31419-02) (USD in LACs) EXCHANGE RATE : 63.12						
Gross Loan Opening						0.32
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						0.32
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						0.32
Average Net Loan						0.32
Rate of Interest on Loan						3.285%
Interest on Loan						0.01
FC - BOND (17.01.2013) (USD in LACs) EXCHANGE RATE : 63.12						
Gross Loan Opening						0.71
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						0.71
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						0.71
Average Net Loan						0.71
Rate of Interest on Loan						3.875%
Interest on Loan						0.03

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Calculation of Interest on Working Capital

Name of the Transmission Licensee:

POWERGRID CORPORATION OF INDIA LTD.

Name of Region:

WESTERN REGION

Name of the Project:

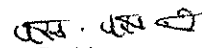
Transmission System for Phase-I Generation Projects in ORISSA-C

Name of the Transmission Element:

400kV 125MAVR Bus Reactor-I & Bus Reactor-II at 765kV Gwalior S/s along with associated bays. :DOCO :01-OCT-2013

(Rs in Lacs)

Sl.N o.	Particulars	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
1	2	3	4	5	6	7	8
1	Recievables						28.55
2	Total Working Capital						28.55
3	Rate of Interest						13.20
4	Interest on Working Capital						1.88


Petitioner



Draw Down Schedule for Calculation of IDC & Financing Charges

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **400kV 125MAVR Bus Reactor-I & Bus Reactor-II at 765kV Gwalior S/s along with associated bays. :DOC0 :01-OCT-2013**

(Rs in Lacs)

Draw Down Schedule for Calculation of IDC & Financing Charges										
Sl.No	Drawn Down	Quarter 1			Quarter 2			Quarter n(COD)		
Sl.No.	Particulars	Quantum In Foreign Currency	Exchange Rate on Draw Down Date	Amount In Indian Rupee	Quantum In Foreign Currency	Exchange Rate on Draw Down Date	Amount In Indian Rupee	Quantum In Foreign Currency	Exchange Rate on Draw Down Date	Amount In Indian Rupee
1.	Loans									
1.1	Foreign Loans									
1.2	Indian Loans									
1.2.1	IFC (IFC - A LOAN) (31419-00)									
	Draw Down Amount									5.00
	IDC									
	Financing Charges									
1.2.2	IFC (IFC - B LOAN) (31419-01)									
	Draw Down Amount									45.00
	IDC									
	Financing Charges									
1.2.3	IFC (ICFF LOAN) (31419-02)									
	Draw Down Amount									20.00
	IDC									
	Financing Charges									
1.2.4	FC - BOND (17.01.2013)									
	Draw Down Amount									45.00
	IDC									
	Financing Charges									
	Total Foreign Loans									
	Draw Down Amount									115.00
	IDC									0.00
	Financing Charges									0.00
1.2	Indian Loans									
1.2.1	BOND XXXVII									
	Draw Down Amount									15.00
	IDC									
	Financing Charges									
1.2.2	BOND XXXIX									
	Draw Down Amount									16.00
	IDC									
	Financing Charges									
1.2.3	SBI (21.03.2012)									
	Draw Down Amount									20.00
	IDC									
	Financing Charges									
1.2.4	BOND XL									
	Draw Down Amount									25.00
	IDC									
	Financing Charges									
1.2.5	BOND - XLI									
	Draw Down Amount									1.00
	IDC									
	Financing Charges									
1.2.6	BOND - XLII									
	Draw Down Amount									5.00
	IDC									
	Financing Charges									
1.2.7	Proposed Loan 2013-14 (8.70%)									
	Draw Down Amount									457.92

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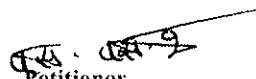
Draw Down Schedule for Calculation of IDC & Financing Charges

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **400kV 125MAVR Bus Reactor-I & Bus Reactor-II at 765kV Gwalior S/s along with associated bays. :DOC0 :01-OCT-2013**

(Rs in Lacs)

Draw Down Schedule for Calculation of IDC & Financing Charges										
Sl.No	Drawn Down	Quarter 1			Quarter 2			Quarter n(COD)		
Sl.No.	Particulars	Quantum In Foreign Currency	Exchange Rate on Draw Down Date	Amount In Indian Rupee	Quantum In Foreign Currency	Exchange Rate on Draw Down Date	Amount In Indian Rupee	Quantum In Foreign Currency	Exchange Rate on Draw Down Date	Amount In Indian Rupee
	IDC									
	Financing Charges									
	Total Indian Loans									
	Draw Down Amount									539.92
	IDC									0.00
	Financing Charges									0.00
	Total of Loans Drawn									
	Draw Down Amount									654.92
	IDC									93.24
	Financing Charges									0.00
2	Equity									
2.1	Foreign Equity Drawn									
2.2	Indian Equity Drawn									0
	Total Equity Deployed									0.00

The project has been funded through domestic loans and foreign loans allocated from the common pool based on the phasing of expenditure and IDC has been booked accordingly. As the loans are allocated from common pool, quarter wise drawl is not furnished.


Petitioner



Summary Sheet

POWERGRID CORPORATION OF INDIA LTD.
WESTERN REGION

Transmission System for Phase-I Generation Projects in ORISSA-C

765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-1) and respective bay extension at 765kV Jabalpur Pooling Station & 765kV Bina S/s along with 240MVAR switchable line Reactor at respective ends Antir: :DOCO :01-JAN-2014

Name of the Transmission Licensee:
Name of Region:
Name of the Project:
Name of the Transmission Element:

Sl.No.	Particulars	Form No.	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014(Pro Rata)	(Rs in Lacs)
1	2	3	4	5	6	7	8	9	
1	Depreciation	FORM-12	0.00						922.49
2	Interest on Loan	FORM-13A	0.00						823.21
3	Return on Equity	FORM-01A	0.00						918.06
4	Interest On Working Capital	FORM-13B	0.00						67.65
5	O & M Expenses		0.00						143.10
6	Total		0.00						2,874.51

 Petitioner



Calculation Of Return On Equity

Name of the Transmission Licensee:

POWERGRID CORPORATION OF INDIA LTD.

Name of Region:

WESTERN REGION

Name of the Project:

Transmission System for Phase-I Generation Projects in ORISSA-C

Name of the Transmission Element:

765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-I) and respective bay extension at 765kV Jabalpur Pooling Station & 765kV Bina S/s along with 240MVAR switchable line Reactor at respective ends Anti: :DOCO :01-JAN-2014

Particulars	(Rs in Lacs)						
	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	
1	2	3	4	5	6	7	
Equity as DOCO							20,581.66
Notional Equity for Add Cap							850.91
Total Equity							21,432.57
Return on Equity @ 17.481%							918.06

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Details of Transmission Lines And Substations

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-I) and respective bay extension at 765kV Jabalpur Pooling Station & 765kV Bina S/s along with 240MVAF switchable line Reactor at respective ends Anti : DOCO :01-JAN-2014**

Transmission Lines									
SL.No.	Name of Line	Type of Line AC/HVDC	S/C or D/C	No. of Sub-Conductors	Voltage level kV	Line Length (Kms.)	Date of Commercial operation	Covered in the present petition	If No, petition No.
1	765kV D/C Jabalpur Pooling-Bina Transmission Line (ckt-I) along with associated bays	AC	S/C	6	765	230.12	01-JAN-2014	Yes	
Substations									
SL.No.	Name of Sub-Station	Type of Substation (Conventional /GIS/ HVDC Terminal/ HVDC Back to Back	Voltage level kV	No. of Transformers / Reactors/ SVC etc (with Capacity)	No. of Bays	No. of Bays	Date of Commercial operation (Anti expected)	Covered in the present petition	If No, petition No.
1	Jabalpur Pooling station 765/460kV New S/S	Conventional	765/400kV		765 KV	400 KV	220 KV	132 KV & below	Yes/No
	Bina-I		765		1		01-JAN-2014	Yes	
2	Bina 765kV Extension	Conventional	765/400kV						
	Jabalpur-I		765		1		01-JAN-2014	Yes	
3	765kV Bina Station	Conventional	765/400kV						
	240 MVAF switchable Line Reactr		765		1		01-JAN-2014	Yes	
4	765kV Jabalpur pooling Station	Conventional	765/400kV						
	240 MVAF switchable Line Reactr		765		1		01-JAN-2014	Yes	
Total									4

C&M Expenses for one ckt of D/c is being claimed

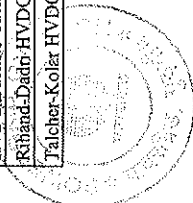
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Normative Parameters considered For tariff calculations

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-I) and respective bay extension at 765kV Jabalpur Pooling Station & 765kV Bina S/s along with 240MVAR switchable line Reactor at respective ends Antir: :DOCO -01-JAN-2014**

Particulars	Unit	Year Ending March							
		Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014		
		3	4	5	6	7	8		
1	2								
Base Rate of Return on Equity	%							17.481	
Tax Rate	%							11.33	
Target Availability	%							98.00	
Normative O&M per Km.	Rs. lacs			Given Below					
Normative O&M per bay	Rs. lacs			Given Below					
Spares for WC as % of O&M	%							15.00	
Recoverables in Months for WC	months							2.00	
Prime lending Rate of SBI as on 01-APR-2009	%							13.20	
Norms for O&M expenditure for Transmission System									
Norms for sub-station (Rs Lakh per bay)									
765 KV		73.36	77.56		81.99		86.68		91.64
400 KV		52.40	55.40		58.57		61.92		65.46
220 KV		36.68	38.78		41.00		43.34		45.82
132 KV and below		26.20	27.70		29.28		30.96		32.73
Norms for AC and HVDC Lines (Rs Lakhs per km)									
Single Circuit (Bundled conductor with four or more sub-conductors)		0.537	0.568		0.600		0.635		0.671
Single Circuit (Twin & Triple Conductor)		0.358	0.378		0.400		0.423		0.447
Single Circuit (Single Conductor)		0.179	0.189		0.200		0.212		0.224
Double Circuit (Bundled conductor with four or more sub-conductors)		0.940	0.994		1.051		1.111		1.174
Double Circuit (Twin & Triple Conductor)		0.627	0.663		0.701		0.741		0.783
Double Circuit (Single Conductor)		0.269	0.284		0.301		0.318		0.336
Norm for HVDC Stations									
HVDC Back-to-back stations (Rs lakh per 500 MW)		443.00	468.00		495.00		523.00		555.00
Rihand-Dadri HVDC bipole scheme (Rs Lakh)		1450.00	1533.00		1621.00		1713.00		1811.00
Falcher-Kolar HVDC bipole scheme (Rs Lakh)		1699.00	1796.00		1899.00		2008.00		2122.00

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Abstract of Capital Cost Estimates and Schedule of Commissioning for the New projects

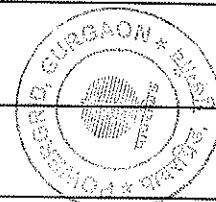
Name of the Transmission Licensee : POWER GRID CORPORATION OF INDIA
Name of Region: WESTERN
Name of the Project : TRANSMISSION SYSTEM FOR PHASE-I GENERATION PROJECTS IN ORISSA (PART-C)
 765 KV D/C Jabalpur Pooling - Bina Transmission Line Ckt#1 along with associated Bays at Jabalpur 765/400 KV Pooling Substation(NEW) & 765KV Bina Substation under ORISSA PART-C

**Name of Element:
Capital Cost Estimates**

Board of Director/ Agency approving the Capital cost estimates:	Board of Directors of POWERGRID	
Date of approval of the Capital cost estimates:	Memo No. C/CP/ Orissa Ph-I IPPs (Part-C) dated 17.03.2011	
	Present Day Cost	Completed Cost
Price level of approved estimates	As of End 3Rd Qtr. Of the year 2010	As on Scheduled COD (FR)
Foreign Exchange rate considered for the Capital cost estimates		
Capital Cost excluding IDC & FC		
Foreign Component, if any (In Million US \$ or the relevant Currency)	0	0.00
Domestic Component (Rs. Cr.)	656.91	740.15
Capital cost excluding IDC & FC (Rs. Cr)	656.91	740.15
IDC & FC		
Foreign Component, if any (In Million US \$ or the relevant Currency)	0	0.00
Domestic Component (Rs. Cr.)	45.67	51.46
Total IDC & FC (Rs.Cr.)	45.67	51.46
Rate of taxes & duties considered		
Capital cost Including IDC & FC		
Foreign Component, if any (In Million US \$ or the relevant Currency)	0.00	0.00
Domestic Component (Rs. Cr.)	702.58	791.61
Total Capital cost Including IDC & FC (Rs. Cr)	702.58	791.61
Schedule of Commissioning		
(Scheduled DOCO elementwise)	01.04.2014	01.01.2014 (Anticipated)
(COD of Unit-1/Block-1)		
(COD of Unit-1/Block-2)		
(COD of Unit-1/Block-3)		

Note:

- Copy of approval letter should be enclosed.
- Details of Capital cost are to be furnished as per FORM-5B or 5C as applicable.
- Details of IDC & Financing Charges are to be furnished as per FORM-16.



Handwritten signature and initials: *THA. CHA. 2*

Name of the Transmission Licensee :

Name of the Transmission Licensee :

POWER GRID CORPORATION OF INDIA

Name of Region:

WESTERN REGION -II

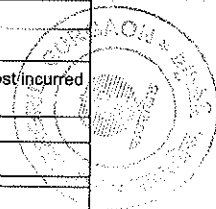
Name of the Project :

TRANSMISSION SYSTEM FOR PHASE-I GENERATION PROJECTS IN ORISSA
(PART-C)

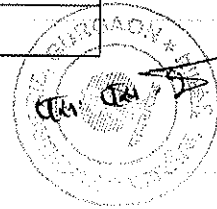
Name of the Element:

765 KV D/C Jabalpur Pooling - Bina Transmission Line Ckt#1 along with associated Bays
at Jabalpur 765/400 KV Pooling Substation(NEW) & 765kV Bina Substation under
ORISSA PART-C

Sl.No	Break Down	As per Original Estimate (3rd Qtr-2010)	As on COD 01.01.2014 (Anticipated)	Liabilities / Provision	Variation	Reasons for Variation
1	2	3	4	5	6=(4+5-3)	7
A	TRANSMISSION LINE					
1.0	Preliminary works					
1.1	Design & Engineering	0.00	0.00	0.00	0.00	
1.2	Preliminary investigation, Right of way, forest clearance, PTCC, general civil works, compensation etc.	2080.93	1578.88	1771.12	1269.07	1. Amount towards Survey & soil investigation got increased as per awarded value. 2. Amount towards Crop Compensation got increased as per actual compensation paid based on assessment by Revenue Authorities & Government notification issued by State of Gujarat
1.3	Total Preliminary works	2080.93	1578.88	1771.12	1269.07	
2.0	Transmission Lines material					
2.1	Towers Steel	25342.89	30326.18	2387.14	7370.44	The line length has decreased from the estimated quantity of 238 Kms. to 230.12 Kms. (as per check survey and final route alignment) due to change in location of substation land sital Jabalpur Pooling SS. The total number of estimated suspension (DA) towers has increased from 500 nos. to 481 nos. and tension towers has decreased from 140 nos. to 135 nos., however, DD type tower has increased from 58 nos. to 68 nos. and change in tower design weight. In addition to above, the actual awarded cost per metric tonnage is more than the estimated cost (3rd Quarter 2010) price level, which has resulted into increase in the overall cost of towers.
2.2	Conductor	11295.19	12593.76	676.02	1974.59	Cost has increased as per actual awarded value.
2.3	Earth Wire	115.12	137.76	10.84	33.48	Cost has increased as per actual awarded value.
2.4	Insulators	1875.02	2080.04	8.90	213.92	Cost has increased as per actual awarded value.
2.5	Hardware Fittings	1192.05	1426.45	112.28	346.68	Cost has increased as per actual awarded value.
2.6	Conductor & Earthwire accessories	391.22	468.15	36.85	113.78	Cost has increased as per actual awarded value.
2.7	Spares				0.00	
2.8	Erection, Stringing & Civil works including foundation	11735.26	14042.82	1105.39	3412.95	Quantities pertaining to various erection activities got increased due to actual Soil Strata encountered during execution which resulted into increase of foundation, erection quantities resulted into increase in completion cost.
2.9	Total Transmission Lines material	51946.74	61075.16	4337.42	13465.84	
3.0	Taxes and Duties					
3.1	Custom Duty	0.00	0.00	0.00	0.00	
3.2	Other Taxes & Duties	0.00	0.00	0.00	0.00	
	Total Taxes & Duties	0.00	0.00	0.00	0.00	
	Total -Transmission lines	54027.67	62654.03	6108.54	14734.91	As per actual
B.	SUBSTATIONS					
4.0	Preliminary works & land					
4.1	Design & Engineering	0.00	0.00	0.00	0.00	
4.2	Land		95.55	0.00	95.55	As per actual land cost incurred in BINA
4.3	Site preparation				0.00	
	Total Preliminary works & land	0.00	95.55	0.00	95.55	
5.0	Civil Works					
5.1	Control Room & Office Building including HVAC	844.00	60.69	546.18	-237.14	As per actual and anticipated
5.2	Township & Colony	0.00	0.00	0.00	0.00	
5.3	Roads and Drainage	0.00	0.00	0.00	0.00	
5.4	Foundation for structures	0.00	0.00	0.00	0.00	
5.5	Misc. civil works	0.00	0.00	0.00	0.00	



Sl.No	Break Down	As per Original Estimate (3rd Qtr-2010)	As on COD 01.01.2014 (Anticipated)	Liabilities / Provision	Variation	Reasons for Variation
1	2	3	4	5	6=(4+5-3)	7
	Total Civil Works	844.00	60.69	546.18	-237.14	
6.0	Substation Equipments					
6.1	Switchgear (CT,PT, Circuit Breaker, isolator etc)	2555.06	1540.23	1831.88	817.05	As per actual execution of works, which includes mandatory spares. Cost has been increased as per actual awarded cost.
6.2	Transformers	0.00	0.00	0.00	0.00	
6.3	Compensating Equipment(Reactor, SVCs etc)	2676.29	682.03	2723.90	729.64	As per actual execution of works, which includes mandatory spares. Cost has increased as per actual awarded cost.
6.4	Control , Relay & Protection Panel	149.62	75.37	91.59	17.34	As per actual execution of works including associated allied works and mandatory spares. Cost has increased as per awarded cost
6.5	PLCC	88.82	66.40	38.22	15.80	As per actual execution of works including associated allied works and mandatory spares. Cost has increased as per awarded cost
6.6	HVDC package	0.00	0.00	0.00	0.00	
6.7	Bus Bars/ conductors/Insulators	240.44	121.11	147.19	27.86	As per actual execution of works including associated allied works and mandatory spares. Cost has increased as per awarded cost
6.8	outdoor lighting	26.71	14.15	17.19	4.63	As per actual execution of works including associated allied works and mandatory spares. Cost has been increased as per awarded cost
6.9	Emergency DG set	0.00	0.00	0.00	0.00	
6.10	Grounding System	0.00	0.00	0.00	0.00	included in bus bars and conductors
6.11	Structure for Switch yard	164.43	82.83	100.66	19.05	As per actual execution of works including associated allied works and mandatory spares. Cost has been increased as per awarded cost
6.12	Auxiliary System	228.00	114.84	139.57	26.42	As per actual execution of works including associated allied works and mandatory spares. Cost has been increased as per awarded cost
	Total Substation Equipments	6129.37	2696.95	5090.20	1657.78	
7.0	Spares (incl.in eqpt. cost)			0.00	0.00	Included in associated equipments
8.0	Taxes and Duties				0.00	
8.1	Custom Duty		60.81	252.50	313.31	As per actual
8.2	Other Taxes & Duties	0.00	0.00	0.00	0.00	
8.3	Total Taxes & Duties	0.00	60.81	252.50	313.31	
	Total (Sub-station)	6973.37	2914.00	5888.88	1829.51	
9.0	Construction and pre-commissioning expenses					
9.1	Site supervision & site admin.etc. (Payable to SEBs)			0.00	0.00	
9.2	Tools and Plants			0.00	0.00	
9.3	Construction Insurance			0.00	0.00	
	Total Construction and pre commissioning	0.00	0.00	0.00	0.00	
10.0	Overheads					
10.1	Establishment	4690.24	2.45	0.00	-4687.79	
10.2	Audit & Accounts	0.00	0.00	0.00	0.00	
10.3	Contingency	0.00		0.00	0.00	
	Total Overheads	4690.24	2.45	0.00	-4687.79	
11.0	Project cost without IDC, FC, FERV & Hedging cost	65691.28	65570.49	11997.42	11876.63	
12.0	Total Cost (Plant & Equipment)			0.00	0.00	
12.1	Interest During Construction (IDC)	4567.07	3035.03	0.00	-1532.04	
12.2	Financing Charges (FC)			0.00	0.00	
12.3	Foreign Exchange Rate Variation (FERV)			0.00	0.00	
12.4	Hedging Cost			0.00	0.00	
13.0	Project cost including IDC, FC, FERV & Hedging cost	70258.35	68605.52	11997.42	10344.59	



Name of the Transmission Licensee : POWER GRID CORPORATION OF INDIA
 Name of Region : WESTERN
 Name of the Project : TRANSMISSION SYSTEM FOR PHASE-I GENERATION PROJECTS IN ORISSA (PART-C)
 Name of the Transmission Element : 76.2 KV D/C Jabalpur Pooling - Bina Transmission Line Ckt#1 along with associated Bays at Jabalpur 765/400 KV Pooling Substation(NEW) & 765KV Bina Substation under ORISSA PART-C

01.01.2014
 (Anticipated)

Break-up of Construction/Supply/Service packages

Network/No. of Construction/Supply/Service package	Scope of works (in line with head of cost break-up as applicable)	Date of Award	No. of bids received	Whether awarded High (CDD/DB/ EPC) or L1/Other etc. & No. of bids received	Date of start of work	Date of completion of work	Value of Award in (Rs./ Euro \$) Lakhs	Firm or with Excitation in prices	Actual expenditure till the completion or up to COO whichever is earlier. (Rs. Lakhs)	Taxes & Duties, customs duty & others and IEDC	IDC, FC, Ferry & Hedging cost	FORM-SC
												Sub - Total
11) Circuit Breaker Pkg.-A (Part C) Estn. of 765KV Gwalior & Jabalpur under ORISSA-C		19.06.2012			19.06.2012	19.09.2013	Supply- Rs 92527074/- L1 - Rs 1408657/-	Excitation	204.62	35.01	11.09	250.73
CC-SS25A-WR103-19063 G10A04432E	Supply and Erection package		3	Domestic								
12) 765KV Circuit Breaker Pkg.-A (referred to as Pkg.-A-1) for Extension of 765KV Bina & 765KV Indore under Orissa (Part-C)		31.10.2012			31.10.2012	31.03.2014	Supply- Rs 22521392/- L1 - Rs 5148274/-	Excitation	11.58	1.98	0.63	14.19
CC-SS25A-WR103-19063 G10A04432E	Supply and Erection package		3	Domestic								
Crop compensation									1578.88	0.06	73.08	1652.02
Civil, Land & Others									156.24	0.01	7.23	163.48
GRAND TOTAL									58878.86	5881.63	3035.03	68695.52

Rs in lakhs

CPA . 174.22



Name of the Transmission Licensee : POWER GRID CORPORATION OF INDIA
 Name of Region : WESTERN
 Name of the Project : TRANSMISSION SYSTEM FOR PHASE-4 GENERATION PROJECTS IN ORISSA (PART-C)
 Name of the Transmission Element : 765 KV D/C Jabalpur Pooling - Bina Transmission Line. OXP1 along with associated Bays at Jabalpur 765/400 KV Pooling Substation(NEW) & 765KV Bina Substation under ORISSA PART-C

CDD 01.01.2014 (Anticipated)

Break-up of Construction/Supply/Service packages

Name/No. of Construction/Supply/Service package	Scope of works (in line with head of cost break-ups as applicable)	Whether awarded by IFCDB/ Jolly/Deposit etc & No. of bids received.	No. of bids received.	Date of Award	Date of start of work	Date of completion of work	Value of Award in (Rs./ Euro \$) Lakhs	Firm or with Escalation in prices.	Actual expenditure up to COD whichever is earlier. (Rs. Lakhs)	Taxes & Duties customs duty & others and IEDC	IDC,FC,PERV & Hedding cost	Sub - Total
1. Jabalpur Pool - Bina (Part-I) TL - Mts. NPTL CC-CS111-WR2074-680/32/NOA-I & II/2802/2/3891	Supply and Erection package	Domestic	7	24.03.2011	24.03.2011	24.07.2013	Supply - Rs. 1177796590/- Erection - Rs. 719206927/-	Escalation	23918.69	0.90	1107.16	25026.74
2. Jabalpur Pool - Bina (Part-II) TL - Mts. LAT CC-CS111-WR2074-680/32/NOA-I & II/3892/3/3893	Supply and Erection package	Domestic	3	24.03.2011	24.03.2011	24.07.2013	Supply - Rs. 184496731/- Erection - Rs. 657386525/-	Escalation	19198.58	3294.93	1040.68	23524.19
3. Jabalpur Pool - Bina (Part-III) TL - Mts. LAT CC-CS111-WR2074-680/32/NOA-I & II/3892/3/3893	Supply and Erection package	Domestic	4	24.03.2011	24.03.2011	24.03.2013	Supply - Rs. 944193200/- Erection - Rs. 28028000/-	Escalation	5072.61	715.61	267.92	6056.14
4. Jabalpur Pool - Bina (Part-IV) TL - Mts. LAT CC-CS111-WR2074-680/32/NOA-I & II/3892/3/3893	Supply and Erection package	Domestic	3	24.03.2011	24.03.2011	24.03.2013	Supply - Rs. 997426200/- Erection - Rs. 263109000/-	Escalation	5617.45	792.48	296.69	6706.62
5. Inverter Pkg. BSI for 765KV S/C Jabalpur. Em. S. Bin. - Overlcr CC-CS111-WR2065-12207/32/NOA-I/3895 & NOA-II/3896	Supply and Erection package	Domestic	6	10.10.2011	10.10.2011	10.07.2013	Rs. 42568600/-	Escalation	1446.75	633.37	96.28	2176.40
6. Inverter Pkg. BSI for 765KV S/C Jabalpur. Em. S. Bin. - Overlcr CC-CS111-WR2065-12207/32/NOA-I/3895 & NOA-II/3896	Supply and Erection package	Domestic	3	14.06.2011	14.06.2011	14.04.2013	71459015/- Erection - Rs. 5114220/-	Escalation	338.22	57.87	18.33	414.42
7. Substation Pkg. S301 for Extension of 765/400kv Overlcr, 765KV Bina, 765KV Jabalpur Pooling Station and 765/400kv Indore SIS. Mts. TECHN CC-CS111-WR2065-12207/32/NOA-I/3895 & NOA-II/3896	Supply and Erection package	Domestic	5	22.10.2011	22.10.2011	22.10.2013	Supply - Rs. 511085417/- Erection - Rs. 276898835/-	Escalation	1001.21	0.04	46.34	1047.59
8. Substation Pkg. S31 for Extension of 765/400kv Overlcr, 765KV Bina, 765KV Jabalpur Pooling Station and 765/400kv Indore SIS. Mts. TECHN CC-CS111-WR2065-12207/32/NOA-I/3895 & NOA-II/3896	Supply and Erection package	Domestic	5	22.10.2011	22.10.2011	22.10.2013	Supply - Rs. 511085417/- Erection - Rs. 276898835/-	Escalation	760.52	0.03	35.20	795.76
9. Reactor Pkg. P238-SR02 for 765/400KV MVAR, 765/400KV SR along with associated NGRs & SIS at Overlcr SIS and 72240 MVAR, 765/400KV SR along with associated NGRs & SIS at Bina SIS. Mts. BIDDING CC-CS111-WR2074-680/32/NOA-I & II/3892/3/3893	Supply and Erection package	Domestic	3	10.02.2012	10.02.2012	10.03.2014	Supply - Rs. 498282325.5/- Erection - Rs. 182158837/-	Escalation	265.98	108.07	17.31	391.36
10. Reactor Pkg. P238-SR02 for 765/400KV MVAR, 765/400KV SR along with associated NGRs & SIS at Overlcr SIS and 72240 MVAR, 765/400KV SR along with associated NGRs & SIS at Bina SIS. Mts. BIDDING CC-CS111-WR2074-680/32/NOA-I & II/3892/3/3893	Supply and Erection package	Domestic	3	10.02.2012	10.02.2012	10.02.2014	Supply - Rs. 498282325.5/- Erection - Rs. 182158837/-	Escalation	307.54	61.28	17.07	385.89

Rs. in Lakhs

PKA. 2014

DETAILS OF ELEMENTWISE COST

Name of the Transmission Licensee : POWER GRID CORPORATION OF INDIA LTD.

Name of Region:

WESTERN REGION

Name of the Project :

TRANSMISSION SYSTEM FOR PHASE-I GENERATION PROJECTS IN ORISSA (PART-C)

Transmission Lines

S.NO.	Name of line	Apportioned approved Cost (Rs. Lacs)(FR)	Completed Cost (Rs. Lacs)	Covered in the present petition	
				yes/no	if no, petition no.
1	JABALPUR POOLING- BINA 765kV D/C LINE Ckt#1	62325.06	71579.85	Yes	
2	JABALPUR POOLING- BINA 765kV D/C LINE Ckt#2	17809.15	18516.81	Yes	
	Total A	80,134.21	90,096.66		

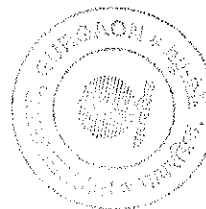
Substations

S.NO.	Name of Substation	Apportioned approved Cost (Rs. Lacs)(FR)	Completed Cost (Rs. Lacs)	Covered in the present petition	
				yes/no	if no, petition no.
1	765kV JABALPUR POOLING STATION EXTENSION & 765kV BINA SS EXTN for 765kV D/C Jabalpur Pool- Bina Ckt#1	7933.29	9023.09	Yes	
2	765kV JABALPUR POOLING STATION EXTENSION & 765kV BINA SS EXTN for 765kV D/C Jabalpur Pool- Bina Ckt#2	7303.11	9341.76	Yes	
3	INDORE SUBSTATION EXTENSION for 400kV Bus Reactor	925.00	1038.07	Yes	
4	GWALIOR SUBSTATION EXTENSION 765kV for 400kV Bus Reactor#1 & 2	1410.36	1307.82	Yes	
	Total B	17571.75	20710.74		
	Sub total A+B	97,705.96	110,807.40		
	Balance Portion of Orissa C	159,219.05	yet to be commissioned		
	Total Project cost for TL & Bays under ORISSA PART-C Transmission System	256925.01	110807.40		

Rs in delm

94.852

Petitioner



Financial package upto COD

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-I) and respective bay extension at 765kV Jabalpur Pooling Station &765kV Bina S/s along with 240MVAR switchable line Reactor at respective ends Anti: :DOCO :01-JAN-2014**
 Project Cost as on COD/31.03.2009: **68605.52 (Rs. in Lakhs)**
 Date of Commercial Operation of the Transmission element: **01-JAN-2014**

(Rs in Lacs)

Transmission Lines				Financial Package as apporportioned/ Approved		Financial Package as on COD		As Admitted on COD	
	Currency and Amount		Currency and Amount		Currency and Amount		Currency and Amount		
Loans									
Loans - Domestic	INR	49180.85	INR	27698.86					
Loans - Foreign			INR	20325.00					
Total Loans		49180.85		48023.86					
Equity									
Foreign									
Domestic	INR	21077.51	INR	20581.66					
Notional				0.00					
Total Equity		21077.51		20581.66					
Debt Equity Ratio		70.00:30.00		70.00:30.00					
Total Cost		70258.36		68605.52					
	Debt	Equity	Total						
Add Cap For 2013-2014			2836.36						
Add Cap For 2013-2014	Actual	Normative							
Debt		1985.45							
Equity		850.91							
Total		2836.36							
Total Capital Cost with ADDCAP upto 01.04.2014			71441.88						

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Petitioner



Statement of Additional Capitalisation after COD

Name of the Transmission Licensee:

POWERGRID CORPORATION OF INDIA LTD.

Name of Region:

WESTERN REGION

Name of the Project:

Transmission System for Phase-I Generation Projects in ORISSA-C

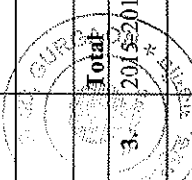
Name of the Transmission Element:

765KV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-I) and respective bay extension at 765KV Jabalpur Pooling Station & 765kv Bina S/s along with 240MVAR switchable line Reactor at respective ends Anti: :DOCO :01-JAN-2014

COD:

01-JAN-2014

Sl.No.	Year	Work/Equipment proposed to be added after COD upto cut off date/ beyond cut off date	Amount capitalised and proposed to be capitalised	Justification as per propose	Regulation under which covered	Admitted Cost
1	2	3	4	5	6	7
1.	2013-2014	BUILDING	182.06	Balance and Retention Payment	9(1)	
		TR LINE	1307.87	Balance and Retention Payment	9(1)	
		SUB STATION	1335.81	Balance and Retention Payment	9(1)	
		PLCC	10.62	Balance and Retention Payment	9(1)	
		Total	2836.36			
2.	2014-2015	BUILDING	182.06	Balance and Retention Payment	9(1)	
		TR LINE	4262.60	Balance and Retention Payment	9(1)	
		SUB STATION	2884.16	Balance and Retention Payment	9(1)	
		PLCC	20.35	Balance and Retention Payment	9(1)	
		Total	7349.17			
3.	2015-2016	BUILDING	182.06	Balance and Retention Payment	9(1)	
		TR LINE	538.07	Balance and Retention Payment	9(1)	
		SUB STATION	1084.51	Balance and Retention Payment	9(1)	
		PLCC	7.25	Balance and Retention Payment	9(1)	
		Total	1811.89			



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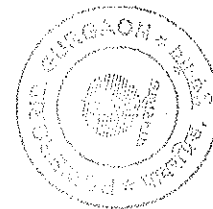
Statement of Capital Cost

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-1) and respective bay extension at 765kV Jabalpur Pooling Station & 765kV Bina S/s along with 240MVAR switchable line Reactor at respective ends Antf.: :DOCO :01-JAN-2014**

Statement of Capital Cost

(To be given for relevant dates and year wise)

		(Rs. in Crores)				
		01-APR-2009- 31-Mar-2010	01-APR-2010- 31-Mar-2011	01-APR-2011- 31-Mar-2012	01-APR-2012- 31-Mar-2013	01-JAN-2014- 31-Mar-2014
A	a) Opening Gross Block Amount as per books					685.06
	b) Amount of capital liabilities in A(a) above					
	c) Amount of IDC, FC, FERV & Hedging cost included in A(a) above					45.67
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) a					
B	a) Addition in Gross Block Amount during the period					28.36
	b) Amount of capital liabilities in B(a) above					
	c) Amount of IDC, FC, FERV & Hedging cost included in B(a) above					
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) a					
C	a) Closing Gross Block Amount as per books					714.42
	b) Amount of capital liabilities in C(a) above					
	c) Amount of IDC, FC, FERV & Hedging cost included in C(a) above					45.67
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) a					



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Financing of Additional Capitalisation

Name of the Transmission Licensee:
Name of Region:
Name of the Project:
Name of the Transmission Element:

POWERGRID CORPORATION OF INDIA LTD.
WESTERN REGION
Transmission System for Phase-I Generation Projects in ORISSA-C
765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-I) and respective bay extension at 765kV Jabalpur Pooling Station & 765kV Bina S/s along with 240MVAR switchable line Reactor at respective ends Anti: :DOCO :01-JAN-2014

(Rs in Lacs)

Financial Year (Starting from COB)	From COD to 31- Mar-2014	Projected/Actual					Admitted			
		Year2	Year3	Year4	Year5& So on	Year1	Year2	Year3	Year4	Year5 & so on
1	2	3	4	5	6	7	8	9	10	11
Amount capitalised in Work/Equipmen t	2836.36									
Financing Details										
Loan-1										
Loan-2										
Loan-3 and so on										
Total Loan	1985.45									
Equity	850.91									
Internal Resources										
Others										
Total	2836.36									



[Signature]
Petitioner

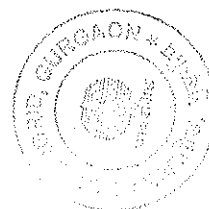
Calculation of Depreciation Rate

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-I) and respective bay extension at 765kV Jabalpur Pooling Station &765kV Bina S/s along with 240MVAR switchable line Reactor at respective ends Anti: :DOCO :01-JAN-2014**

(Rs in Laacs)

Sl.No.	Name of the Assets	Gross Block as on 31.03.2013 or as on COD, whichever is later	Addcap during the year	Gross Block as on 31.03.2014 or as on COD, whichever is later	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount up to 31.03.2014
	1	2	3	4	5	6=Col.4 X Col.5
2013-2014						
1	FREEHOLD LAND	95.55	0.00	95.55	0.00%	0.00
2	BUILDING	67.21	182.06	249.27	3.34%	1.32
3	TR LINE	65471.31	1307.87	66779.18	5.28%	872.85
4	SUB STATION	2900.10	1335.81	4235.91	5.28%	47.10
5	PLCC	71.35	10.62	81.97	6.33%	1.21
6	LEASEHOLD LAND	0.00	0.00	0.00	3.34%	0.00
	Total	68605.52	2836.36	71441.88		922.49
Weighted Average Rate of Depreciation (%)						1.32
Elapsed Life						0

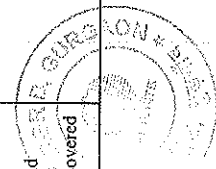
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 Petitioner



Statement of Depreciation

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-I) and respective bay extension at 765kV Jabalpur Pooling Station & 765kV Bina S/s along with 240MV/AR switchable line Reactor at respective ends Anti: :DOCO :01-JAN-2014**

Financial Year	Upto 2000-2001	2001-2002	2002-2003	2003-2004	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Depreciator: on Capital Cost														904.19
Depreciator: on Additional Capitalisation														
Amount of Additional Capitalisation														2,836.36
Depreciation Amount														18.29
Details of FERV														
Amount of FERV on which depreciation charged														
Depreciation Amount														
Depreciation Recovered during the year														922.49
Advance against Depreciation recovered during the year														
Depreciation and Advance against Depreciation recovered during the year														922.49
Cumulative Depreciation And Advance against Depreciation recovered upto the year														922.49



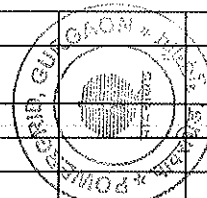
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Petitioner

Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-I) and respective bay extension at 765kV Jabalpur Pooling Station & 765kV Bina S/s along with 240MVAR switchable line Reactor at respective ends Anti :DOCO :01-JAN-2014**

(Rs in Lacs)

Particulars	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
Proposed Loan 2013-14 (8.70%)						
Gross Loan Opening						6898.86
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						6898.86
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						6898.86
Average Net Loan						6898.86
Rate of Interest on Loan		0%	0%	0%	0%	8.7%
Interest on Loan						600.20
IFC (IFC - A LOAN) (31419-00)						
Gross Loan Opening						75.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						75.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						75.00
Average Net Loan						75.00
Rate of Interest on Loan		0%	0%	0%	0%	3.285%
Interest on Loan						2.46
IFC (IFC - B LOAN) (31419-01)						
Gross Loan Opening						5400.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						5400.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						5400.00
Average Net Loan						5400.00
Rate of Interest on Loan		0%	0%	0%	0%	2.435%
Interest on Loan						131.49
IFC (ICFF LOAN) (31419-02)						
Gross Loan Opening						2250.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						2250.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						2250.00
Average Net Loan						2250.00
Rate of Interest on Loan		0%	0%	0%	0%	3.285%
Interest on Loan						73.91
FC - BOND (17.01.2013)						
Gross Loan Opening						12600.00



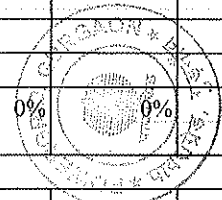
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Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-I) and respective bay extension at 765kV Jabalpur Pooling Station &765kV Bina S/s along with 240MVAR switchable line Reactor at respective ends Anti: :DOCO :01-JAN-2014**

(Rs in Lacs)

Particulars	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						12600.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						12600.00
Average Net Loan						12600.00
Rate of Interest on Loan		0%	0%	0%	0%	3.875%
Interest on Loan						488.25
BOND - XLII						
Gross Loan Opening						700.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						700.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						700.00
Average Net Loan						700.00
Rate of Interest on Loan		0%	0%	0%	0%	8.8%
Interest on Loan						61.60
BOND - XLI						
Gross Loan Opening						300.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						300.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						300.00
Average Net Loan						300.00
Rate of Interest on Loan		0%	0%	0%	0%	8.85%
Interest on Loan						26.55
SBI (21.03.2012)						
Gross Loan Opening						4000.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						4000.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						4000.00
Average Net Loan						4000.00
Rate of Interest on Loan		0%	0%	0%	0%	10.05%
Interest on Loan						402.00
BOND XXXVII						
Gross Loan Opening						3500.00
Cumulative Repayments of Loans upto Previous Year						



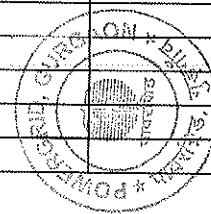
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Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-I) and respective bay extension at 765kV Jabalpur Pooling Station &765kV Bina S/s along with 240MVAR switchable line Reactor at respective ends Anti: :DOCO :01-JAN-2014**

Particulars	(Rs in Lacs)					
	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
Net Loans Opening						3500.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						3500.00
Average Net Loan						3500.00
Rate of Interest on Loan		0%	0%	0%	0%	9.25%
Interest on Loan						323.75
BOND XL						
Gross Loan Opening						9600.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						9600.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						9600.00
Average Net Loan						9600.00
Rate of Interest on Loan		0%	0%	0%	0%	9.3%
Interest on Loan						892.80
BOND XXXIX						
Gross Loan Opening						2700.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						2700.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						2700.00
Average Net Loan						2700.00
Rate of Interest on Loan		0%	0%	0%	0%	9.4%
Interest on Loan						253.80
Total						
Gross Loan Opening						48023.86
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						48023.86
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						48023.86
Average Net Loan						48023.86
Interest on Loan						3256.82
Weighted Average Rate of Interest on Loans						6.7817%



TH. CH. 2
Petitioner

Calculation of Interest on Normative Loan

Name of the Transmission Licensee:

POWERGRID CORPORATION OF INDIA LTD.

Name of Region:

WESTERN REGION

Name of the Project:

Transmission System for Phase-I Generation Projects in ORISSA-C

Name of the Transmission Element:

765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-I) and respective bay extension at 765kV Jabalpur Pooling Station & 765kV Bina S/s along with 240MVAR switchable line Reactor at respective ends Anti: :DOCO :01-JAN-2014

Particulars	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	(Rs in Lacs)
						2013-2014
1	2	3	4	5	6	7
Gross Normative Loan - Opening						48,023.86
Cumulative repayment of Normative Loan upto previous year						
Net Normative loan - Opening						48,023.86
Increase/Decrease due to ACE during the Year						1,985.45
Repayments of Normative Loan during the year						922.49
Net Normative loan - Closing						49,086.82
Average Normative Loan						48,555.34
Weighted average Rate of Interest on actual Loans						6.7817%
Interest on Normative loan						823.21

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Loans in Foreign Currency

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-I) and respective bay extension at 765kV Jabalpur Pooling Station &765kV Bina S/s along with 240MVAR switchable line Reactor at respective ends Anti: :DOCO :01-JAN-2014**

Particulars	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
1	2	3	4	5	6	7
IFC (IFC - A LOAN) (31419-00) (USD in LACs) EXCHANGE RATE : 63.12						
Gross Loan Opening						1.19
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						1.19
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						1.19
Average Net Loan						1.19
Rate of Interest on Loan						3.285%
Interest on Loan						0.04
IFC (IFC - B LOAN) (31419-01) (USD in LACs) EXCHANGE RATE : 63.12						
Gross Loan Opening						85.55
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						85.55
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						85.55
Average Net Loan						85.55
Rate of Interest on Loan						2.435%
Interest on Loan						2.08
IFC (ICFF LOAN) (31419-02) (USD in LACs) EXCHANGE RATE : 63.12						
Gross Loan Opening						35.65
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						35.65
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						35.65
Average Net Loan						35.65
Rate of Interest on Loan						3.285%
Interest on Loan						1.17
FC - BOND (17.01.2013) (USD in LACs) EXCHANGE RATE : 63.12						
Gross Loan Opening						199.62
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						199.62
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						199.62
Average Net Loan						199.62
Rate of Interest on Loan						3.875%
Interest on Loan						7.74



17.01.2013
Petitioner

Calculation of Interest on Working Capital

Name of the Transmission Licensee:

POWERGRID CORPORATION OF INDIA LTD.

Name of Region:

WESTERN REGION

Name of the Project:

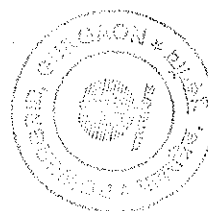
Transmission System for Phase-I Generation Projects in ORISSA-C

Name of the Transmission Element:

765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-I) and respective bay extension at 765kV Jabalpur Pooling Station & 765kV Bina S/s along with 240MVAR switchable line Reactor at respective ends Anti: :DOCO :01-JAN-2014

Sl.No.	Particulars	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	(Rs in Lacs)
							2013-2014
1	2	3	4	5	6	7	8
1	O and M Expenses						47.7
2	Maintenance Spares						85.86
3	Receivables						1,916
4	Total Working Capital						2,050
5	Rate of Interest						13.20
6	Interest on Working Capital						67.65

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Petitioner



Draw Down Schedule for Calculation of IDC & Financing Charges

Name of the Transmission Licensee:

POWERGRID CORPORATION OF INDIA LTD.

Name of Region:

WESTERN REGION

Name of the Project:

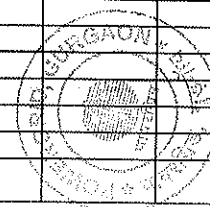
Transmission System for Phase-I Generation Projects in ORISSA-C

Name of the Transmission Element:

765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-I) and respective bay extension at 765kV Jabalpur Pooling Station & 765kV Bina S/s along with 240MVAR switchable line Reactor at respective ends Anti: :DOCO :01-JAN-2014

(Rs in Lacs)

Draw Down Schedule for Calculation of IDC & Financing Charges										
Sl.No	Drawn Down	Quarter 1			Quarter 2			Quarter n(COD)		
Sl.No	Particulars	Quantum In Foreign Currency	Exchange Rate on Draw Down Date	Amount In Indian Rupee	Quantum In Foreign Currency	Exchange Rate on Draw Down Date	Amount In Indian Rupee	Quantum In Foreign Currency	Exchange Rate on Draw Down Date	Amount In Indian Rupee
I.	Loans									
1.1	Foreign Loans									
1.2	Indian Loans									
1.2.1	IFC (IFC - A LOAN) (31419-00)									
	Draw Down Amount									
	IDC									75.00
	Financing Charges									
1.2.2	IFC (IFC - B LOAN) (31419-01)									
	Draw Down Amount									
	IDC									5400.00
	Financing Charges									
1.2.3	IFC (ICFF LOAN) (31419-02)									
	Draw Down Amount									
	IDC									2250.00
	Financing Charges									
1.2.4	FC - BOND (17.01.2013)									
	Draw Down Amount									
	IDC									12600.00
	Financing Charges									
	Total Foreign Loans									
	Draw Down Amount									
	IDC									20325.00
	Financing Charges									0.00
										0.00
1.2	Indian Loans									
1.2.1	BOND XXXVII									
	Draw Down Amount									
	IDC									3500.00
	Financing Charges									
1.2.2	BOND XXXIX									
	Draw Down Amount									
	IDC									2700.00
	Financing Charges									
1.2.3	SBI (21.03.2012)									
	Draw Down Amount									
	IDC									4000.00
	Financing Charges									
1.2.4	BOND XL									
	Draw Down Amount									
	IDC									9600.00
	Financing Charges									
1.2.5	BOND - XLI									
	Draw Down Amount									
	IDC									300.00
	Financing Charges									
1.2.6	BOND - XLII									
	Draw Down Amount									
	IDC									700.00
	Financing Charges									
1.2.7	Proposed Loan 2013-14 (8.70%)									



771. PCL-2

Draw Down Schedule for Calculation of IDC & Financing Charges

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **765kV D/C Jabalpur Pooling Station-Bina Transmission line(ekt-I) and respective bay extension at 765kV Jabalpur Pooling Station & 765kV Bina S/s along with 240MVAR switchable line Reactor at respective ends Anti: :DOCO :01-JAN-2014**

(Rs in Lacs)

Draw Down Schedule for Calculation of IDC & Financing Charges										
Sl.No	Drawn Down	Quarter 1			Quarter 2			Quarter n(COD)		
Sl.No.	Particulars	Quantum In Foreign Currency	Exchange Rate on Draw Down Date	Amount In Indian Rupee	Quantum In Foreign Currency	Exchange Rate on Draw Down Date	Amount In Indian Rupee	Quantum In Foreign Currency	Exchange Rate on Draw Down Date	Amount In Indian Rupee
	Draw Down Amount									
	IDC									6898.86
	Financing Charges									
	Total Indian Loans									
	Draw Down Amount									
	IDC									27698.86
	Financing Charges									0.00
	Total of Loans Drawn									0.00
	Draw Down Amount									
	IDC									48023.86
	Financing Charges									4567.07
2	Equity									0.00
2.1	Foreign Equity Drawn									
2.2	Indian Equity Drawn									0
	Total Equity Deployed									0.00

The project has been funded through domestic loans and foreign loans allocated from the common pool based on the phasing of expenditure and IDC has been booked accordingly. As the loans are allocated from common pool, quarter wise drawl is not furnished.

[Signature]
Petitioner



Summary Sheet

POWERGRID CORPORATION OF INDIA LTD.
WESTERN REGION

Transmission System for Phase-I Generation Projects in ORISSA-C

765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-II) and respective bay extension works at 765kV Jabalpur Pooling S/s & 765kV Bina S/s along with 240MVAR switchable Line Reactor at respective ends . Antti: :DOCO :01-MAR-2014

Name of the Transmission Licensee:

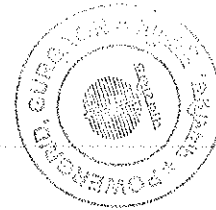
Name of Region:

Name of the Project:

Name of the Transmission Element:

Sl.No.	Particulars	Form No.	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014(Pro Rata)	(Rs in Lacs)
1	2	3	4	5	6	7	8	9	
1	Depreciation	FORM-12	0.00						97.82
2	Interest on Loan	FORM-13A	0.00						82.99
3	Return on Equity	FORM-01A	0.00						97.08
4	Interest On Working Capital	FORM-13B	0.00						8.83
5	O & M Expenses		0.00						47.70
6	Total		0.00						334.42

 Petitioner



Calculation Of Return On Equity

Name of the Transmission Licensee:

POWERGRID CORPORATION OF INDIA LTD.

Name of the Region:

WESTERN REGION

Name of the Project:

Transmission System for Phase-I Generation Projects in ORISSA-C

Name of the Transmission Element:

765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-II) and respective bay extension works at 765kV Jabalpur Pooling S/s & 765kV Bina S/s along with 240MV-AR switchable Line Reactor at respective ends . Anti: :DOCO :01-MAR-2014

Particulars	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	(Rs in Lacs)	
						2013-2014	2013-2014
1	2	3	4	5	6	7	
Equity as DOCO							6,497.88
Notional Equity for Add Cap							333.10
Total Equity							6,830.98
Return on Equity @ 17.481%							97.08

CCRA
Petitioner



Details of Transmission Lines And Substations

Name of the Transmission Licensee:
Name of Region:
Name of the Project:
Name of the Transmission Element:

POWERGRID CORPORATION OF INDIA LTD.
WESTERN REGION

Transmission System for Phase-I Generation Projects in ORISSA-C

765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-II) and respective bay extension works at 765kV Jabalpur Pooling S/s & 765kV Bina S/s along with 240MVAR switchable Line Reactor at respective ends . Antti :DOCO :01-MAR-2014

Transmission Lines									
Sl.No.	Name of Line	Type of Line AC/HVDC	S/C or D/C	No. of Sub-Conductors	Voltage level kV	Line Length (Km.)	Date of Commercial operation	Covered in the present petition	If No, petition No.
1	765kV Jabalpur Pooling Station-Bina Transmission Line(Ckt-II)	AC	S/C	6	765	230.12	01-MAR-2014	Yes	
Substations									
Sl.No.	Name of Sub-Station	Type of Substation Conventional /GIS/ HVDC Terminal/ HVDC Back to Back	Voltage level kV	No. of Transformers / Reactors/ SVC etc (with Capacity)	No. of Bays	No. of Bays	Date of Commercial operation	Covered in the present petition	If No, petition No.
1	Jabalpur 765kV/400kV Pooling Station	Conventional	765/400kV		765 KV	400 KV		Yes	
	Bina-II		765				01-MAR-2014	Yes	
2	Bina 765kV Extn S/S	Conventional	765/400kV						
	Jabalpur-II		765				01-MAR-2014	Yes	
3	765kV Jabalpur pooling Station	Conventional	765/400kV						
	240 MVAR switchable Line Reactor		765				01-MAR-2014	Yes	
4	765kV Bina Station	Conventional	765/400kV						
	240 MVAR switchable Line Reactor		765				01-MAR-2014	Yes	
Total									
4									

O&M Expenses for One ckt of D/C line is being claimed

RA. K. S.

Normative Parameters considered For tariff calculations

Name of the Transmission Licensee:

POWERGRID CORPORATION OF INDIA LTD.

Name of Region:

WESTERN REGION

Name of the Project:

Transmission System for Phase-I Generation Projects in ORISSA-C

Name of the Transmission Element:

765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-II) and respective bay extension works at 765kV Jabalpur Pooling S/s & 765kV Bina S/s along with 240MVAR switchable Line Reactor at respective ends . Anti : :DOCO :01-MAR-2014

Particulars	Unit	Year Ending March							
		Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014		
1	2	3	4	5	6	7	8		
Base Rate of Return on Equity	%						17.481		
Tax Rate	%						11.33		
Target Availability	%						98.00		
Normative O&M per Km.	Rs. lacs	Given Below							
Normative O&M per bay	Rs. lacs	Given Below							
Spares for WC as % of O&M	%						15.00		
Recoveries in Months for WC	months						2.00		
Prime ending Rate of SBI as on 01-APR-2009	%						13.20		
Norms for O&M expenditure for Transmission System									
		2009-10	2010-11	2011-12	2012-13	2013-14			
Norms for sub-station (Rs Lakh per bay)									
765 KV		73.36	77.56	81.99	86.68	91.64			
400 KV		52.40	55.40	58.57	61.92	65.46			
220 KV		36.68	38.78	41.00	43.34	45.82			
132 KV and below		26.20	27.70	29.28	30.96	32.73			
Norms for AC and HVDC Lines (Rs Lakhs per km)									
Single Circuit (Bundled conductor with four or more sub-conductors)		0.537	0.568	0.600	0.635	0.671			
Single Circuit (Twin & Triple Conductor)		0.358	0.378	0.400	0.423	0.447			
Single Circuit (Single Conductor)		0.179	0.189	0.200	0.212	0.224			
Double Circuit (Bundled conductor with four or more sub-conductors)		0.940	0.994	1.051	1.111	1.174			
Double Circuit (Twin & Triple Conductor)		0.627	0.663	0.701	0.741	0.783			
Double Circuit (Single Conductor)		0.269	0.284	0.301	0.318	0.336			
Norm for HVDC Stations									
HVDC Back-to-back stations (Rs lakh per 500 MW)		443.00	448.00	495.00	523.00	553.00			
Rihand-Badrli HVDC bipole scheme (Rs Lakh)		1450.00	1533.00	1621.00	1713.00	1811.00			
Tatcher-Kolar HVDC bipole scheme (Rs Lakh)		1699.00	1796.00	1899.00	2008.00	2122.00			

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Abstract of Capital Cost Estimates and Schedule of Commissioning for the New projects

Name of the Transmission Licensee : POWER GRID CORPORATION OF INDIA
Name of Region: WESTERN
Name of the Project : TRANSMISSION SYSTEM FOR PHASE-I GENERATION PROJECTS IN ORISSA (PART-C)

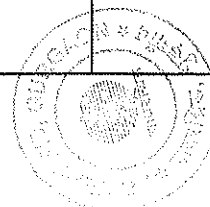
765 KV D/C Jabalpur Pooling - Bina Transmission Line Ckt#2 along with associated Bays at Jabalpur 765/400 KV Pooling Substation(NEW) & 765KV Bina Substation under ORISSA PART-C

Name of Element:
Capital Cost Estimates

Board of Director/ Agency approving the Capital cost estimates:	Board of Directors of POWERGRID	
Date of approval of the Capital cost estimates:	Memo No. C/CP/ Orissa Ph-I IPPs (Part-C) dated 17.03.2011	
	Present Day Cost	Completed Cost
Price level of approved estimates	As of End 3Rd Qtr. Of the year 2010	As on Scheduled COD (FR)
Foreign Exchange rate considered for the Capital cost estimates		
Capital Cost excluding IDC & FC		
Foreign Component, if any (In Million US \$ or the relevant Currency)	0	0.00
Domestic Component (Rs. Cr.)	234.18	263.85
Capital cost excluding IDC & FC (Rs. Cr)	234.18	263.85
IDC & FC		
Foreign Component, if any (In Million US \$ or the relevant Currency)	0	0.00
Domestic Component (Rs. Cr.)	16.94	19.09
Total IDC & FC (Rs.Cr.)	16.94	19.09
Rate of taxes & duties considered		
Capital cost Including IDC & FC		
Foreign Component, if any (In Million US \$ or the relevant Currency)	0.00	0.00
Domestic Component (Rs. Cr.)	251.12	282.94
Total Capital cost Including IDC & FC (Rs. Cr)	251.12	282.94
Schedule of Commissioning	01.04.2014	01.03.2014 (Anticipated)
(Scheduled DOCO elementwise)		
(COD of Unit-1/Block-1)		
(COD of Unit-1/Block-2)		
(COD of Unit-1/Block-3)		

Note:

- Copy of approval letter should be enclosed.
- Details of Capital cost are to be furnished as per FORM-5B or 5C as applicable.
- Details of IDC & Financing Charges are to be furnished as per FORM-16.



Name of the Transmission Licensee :

Name of the Transmission Licensee :

POWER GRID CORPORATION OF INDIA

Name of Region:

WESTERN REGION -II

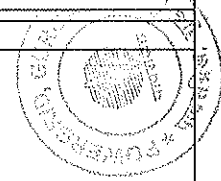
Name of the Project :

TRANSMISSION SYSTEM FOR PHASE-I GENERATION PROJECTS IN ORISSA
(PART-C)

Name of the Element:

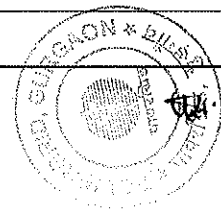
765 KV D/C Jabalpur Pooling - Bina Transmission Line Ckt#2 along with associated Bays
at Jabalpur 765/400 KV Pooling Substation(NEW) & 765kV Bina Substation under
ORISSA PART-C

I.No	Break Down	As per Original Estimate (3rd Qtr-2010)	As on COD 01.03.2014 (Anticipated)	Liabilities / Provision	Variation	Reasons for Variation
1	2	3	4	5	6=(4+5-3)	7
A	TRANSMISSION LINE					
1.0	Preliminary works					
1.1	Design & Engineering	0.00	0.00	0.00	0.00	
1.2	Preliminary investigation, Right of way, forest clearance, PTCC, general civil works, compensation etc.	0.00	0.00	0.00	0.00	
1.3	Total Preliminary works	0.00	0.00	0.00	0.00	
2.0	Transmission Lines material					
2.1	Towers Steel	0.00	0.00	0.00	0.00	
2.2	Conductor	11295.19	12619.15	378.82	1702.78	Cost has increased as per actual awarded value.
2.3	Earth Wire	115.12	138.84	0.93	24.64	Cost has increased as per actual awarded value.
2.4	Insulators	1875.02	2082.64	0.00	207.62	Cost has increased as per actual awarded value.
2.5	Hardware Fittings	1192.05	1437.62	9.59	255.17	Cost has increased as per actual awarded value.
2.6	Conductor & Earthwire accessories	391.22	471.82	3.15	83.74	Cost has increased as per actual awarded value.
2.7	Spares				0.00	
2.8	Erection, Stringing & Civil works including foundation	487.83	588.32	3.93	104.42	Quantities pertaining to various erection activities got increased due to actual Soil Strata encountered during execution which resulted into increase of foundation, erection quantities resulted into increase in completion cost.
2.9	Total Transmission Lines material	15356.42	17338.39	396.41	2378.38	
3.0	Taxes and Duties					
3.1	Custom Duty	0.00	0.00	0.00	0.00	
3.2	Other Taxes & Duties	0.00	0.00	0.00	0.00	
	Total Taxes & Duties	0.00	0.00	0.00	0.00	
	Total -Transmission lines	15356.42	17338.39	396.41	2378.38	As per actual
B.	SUBSTATIONS					
4.0	Preliminary works & land					
4.1	Design & Engineering	0.00	0.00	0.00	0.00	
4.2	Land		0.00	0.00	0.00	
4.3	Site preparation				0.00	
	Total Preliminary works & land	0.00	0.00	0.00	0.00	
5.0	Civil Works					
5.1	Control Room & Office Building including HVAC	0.00	0.00	0.00	0.00	
5.2	Township & Colony	0.00	0.00	0.00	0.00	
5.3	Roads and Drainage	0.00	0.00	0.00	0.00	
5.4	Foundation for structures	0.00	0.00	0.00	0.00	
5.5	Misc. civil works	0.00	0.00	0.00	0.00	
	Total Civil Works	0.00	0.00	0.00	0.00	



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i.No	Break Down	As per Original Estimate (3rd Qtr-2010)	As on COD 01.03.2014 (Anticipated)	Liabilities / Provision	Variation	Reasons for Variation
1	2	3	4	5	6=(4+5-3)	7
6.0	Substation Equipments					
6.1	Switchgear (C1,PT, Circuit Breaker, Isolator etc)	2316.36	1431.07	1709.72	824.43	As per actual execution of works, which includes mandatory spares. Cost has been increased as per actual awarded cost.
6.2	Transformers	0.00	0.00	0.00	0.00	
6.3	Compensating Equipment(Reactor, SVCs etc)	3122.50	1196.85	3104.39	1178.74	As per actual execution of works, which includes mandatory spares. Cost has increased as per actual awarded cost.
6.4	Control , Relay & Protection Panel	136.43	69.39	85.02	17.97	As per actual execution of works including associated allied works and mandatory spares. Cost has increased as per awarded cost.
6.5	PLCC	108.41	75.38	46.60	13.58	As per actual execution of works including associated allied works and mandatory spares. Cost has increased as per awarded cost.
6.6	HVDC package	0.00	0.00	0.00	0.00	
6.7	Bus Bars/ conductors/Insulators	248.05	126.15	154.56	32.67	As per actual execution of works including associated allied works and mandatory spares. Cost has increased as per awarded cost.
6.8	outdoor lighting	9.88	5.31	6.50	1.93	As per actual execution of works including associated allied works and mandatory spares. Cost has been increased as per awarded cost.
6.9	Emergency DG set	0.00	0.00	0.00	0.00	
6.10	Grounding System	0.00	0.00	0.00	0.00	Included in bus bars and conductors
6.11	Structure for Switch yard	164.43	83.63	102.46	21.66	As per actual execution of works including associated allied works and mandatory spares. Cost has been increased as per awarded cost.
6.12	Auxiliary System	207.77	105.66	129.46	27.36	As per actual execution of works including associated allied works and mandatory spares. Cost has been increased as per awarded cost.
	Total Substation Equipments	6313.82	3093.43	5338.72	2118.33	
7.0	Spares (incl.in eqpt. cost)			0.00	0.00	Included in associated equipments
8.0	Taxes and Duties				0.00	
8.1	Custom Duty	0.00	178.68	463.85	642.53	As per actual
8.2	Other Taxes & Duties	0.00	0.00	0.00	0.00	
8.3	Total Taxes & Duties	0.00	178.68	463.85	642.53	
	Total (Sub-station)	6313.82	3272.11	5802.57	2760.86	
9.0	Construction and pre-commissioning expenses					
9.1	Site supervision & site admn.etc. (Payable to SEBs)			0.00	0.00	
9.2	Tools and Plants			0.00	0.00	
9.3	construction Insurance			0.00	0.00	
	Total Construction and pre-commissioning	0.00	0.00	0.00	0.00	
10.0	Overheads					
10.1	Establishment	1747.81	1.13	0.00	-1746.68	
10.2	Audit & Accounts	0.00	0.00	0.00	0.00	
10.3	Contingency	0.00	0.00	0.00	0.00	
	Total Overheads	1747.81	1.13	0.00	-1746.68	
11.0	Project cost without IDC, FC, FERV & Hedging cost	23418.05	20611.63	6198.98	3392.56	
12.0	Total Cost (Plant & Equipment)			0.00	0.00	
12.1	Interest During Construction (IDC)	1694.21	1047.98	0.00	-646.24	
12.2	Financing Charges (FC)			0.00	0.00	
12.3	Foreign Exchange Rate Variation (FERV)			0.00	0.00	
12.4	Hedging Cost			0.00	0.00	
13.0	Project cost including IDC, FC, FERV & Hedging cost	25112.26	21659.59	6198.98	2746.31	



POWER GRID CORPORATION OF INDIA

WESTERN TRANSMISSION SYSTEM FOR PHASE-I GENERATION PROJECTS IN ORISSA (PART-C)
765 KV D/C Jabalpur Pooling - Bina Transmission Line CKFEZ along with associated Bays at Jabalpur 765/400 KV Pooling Substation(NEW) & 765KV Bina Substation under ORISSA PART-C

01.03.2014
(Anticipated)

Rs in Lakhs

Break-up of Construction/Supply/Service packages

Name of the Transmission Licensee : Name of the Region : Name of the Project : Name of the Transmission Element :	Name/No. of Construction/Supply/Service package	Scope of works (in line with head or cost break-ups as applicable)	Whether awarded through ICB/DB/Design/Procurement/Deposit etc. & No. of bids received.	Date of award received	Date of start of work	Date of completion of work	Value of Award in (Rs./ Euro/ \$) Lakhs	Firm or with Escalation in prices.	Actual expenditure till the completion or up to COD whichever is earlier. (Rs. Lakhs)	Taxes & Duties, customs duty & others and IEDC	FORM-SC Sub - Total	
												FORM-SC
	Tower Pkg. TW01 for 765KV DIC Jabalpur Pool - Bina (Part-I) TIL -M/s. KPFL											
	CC-CS/11-WR2/TW-986/G2NDA-1 & I/3890 & 3691	Supply and Erection package	Domestic	24.03.2011	24.03.2011	24.07.2013	Supply - Rs. 117796680/- Erection - Rs. 719209921/-	Escalation	1363.29	0.07	69.32	1432.68
	Tower Pkg. TW02 for 765KV DIC Jabalpur Pool - Bina (Part-II) TIL -M/s. L&T											
	CC-CS/11-WR2/TW-987/G2NOA-1 & I/3692 & 3693	Supply and Erection package	Domestic	24.03.2011	24.03.2011	24.07.2013	Supply - Rs. 1204068731/- Erection - Rs. 657385251/-	Escalation	1087.32	186.07	64.74	1338.13
	Conductor Pkg. CD02 for 765KV DIC Jabalpur Pool - Bina (Part-II) TIL - M/s. JSK											
	CC-CS/11-WR2/CD-995/G2NOA/370	Supply and Erection package	Domestic	24.03.2011	24.03.2011	24.03.2013	Supply - Rs. 944103200/- F&I - Rs. 280230000/-	Escalation	5121.68	722.64	297.14	6141.47
	Conductor Pkg. CD01 for 765KV DIC Jabalpur Pool - Bina (Part-I) TIL - M/s. GAMMON											
	CC-CS/11-WR2/CD-994/G2NOA/3699	Supply and Erection package	Domestic	24.03.2011	24.03.2011	24.03.2013	Supply - Rs. 959742500/- F&I - Rs. 26310000/-	Escalation	5590.62	788.80	324.35	6703.78
	Insulator Pkg. IS01 for 765KV SIC Jabalpur Pool - Bina - Owtitor (Part-I & II) TIL - M/s. NANJING											
	CC-CS/11-WR2/INS-1002/G2NOA-1/3695 & NOA-1/3696	Supply and Erection package	Domestic	10.10.2011	10.10.2011	10.07.2013	Supply - 331181383.78/- F&I - Rs. 42566600/-	Escalation	1449.35	633.41	105.89	2188.65
	Pkg. P22B-SR01 for Hexagonal Bundles Spacer Damper and Rigid Spacer Pkg. for 765KV DIC Jabalpur Pool-Bina TIL -M/s. TAG Corporation											
	CC-CS/11-WR2/RWF-1007/G2NOA/3743	Supply and Erection package	Domestic	14.06.2011	14.06.2011	14.04.2013	Supply - 71458015/- F&I - Rs. 5114220/-	Escalation	338.22	67.88	20.14	416.24
	Substation Pkg. SS01 for Extension of "65400kv Owtitor, 765KV Bina/765KV Jabalpur Pooling Station and 765400kv Indore SIS - M/s. TECHIND											
	CC-CS/11-WR2/SS-12003/G2NOA-1/365 & NOA-1/2965	Supply and Erection package	Domestic	22.10.2011	22.10.2011	22.10.2013	Supply - Rs. 951085417/- Erection - Rs. 276989836/-	Escalation	867.89	0.05	44.13	912.07
	Substation Pkg. SS01 for Extension of "65400kv Owtitor, 765KV Bina/765KV Jabalpur Pooling Station and 765400kv Indore SIS - M/s. TECHIND											
	CC-CS/11-WR2/SS-12003/G2NOA-1/365 & NOA-1/2966	Supply and Erection package	Domestic	22.10.2011	22.10.2011	22.10.2013	Supply - Rs. 951085417/- Erection - Rs. 276989836/-	Escalation	775.37	0.04	39.42	814.84
	Reactor Pkg. P22B-SR01 for 6160 MVAR, 765KV SR along with associated NGRs & SAs at Gwalior - S/S and 12340 MVAR, 765KV SR along with associated NGRs & SAs at Bina SIS - M/s. BAOINDO											
	CC-CS/11-WR2/RT-1221/G2NOA-1/369 & NOA-1/4100 & NOA-1/4101	Supply and Erection package	Domestic	10.02.2012	10.02.2012	10.02.2014	Supply - Rs. 691842851/- Erection - Rs. 182158837/-	Escalation	428.01	135.81	28.67	592.48
	Reactor Pkg. P22B-SR02 for 7X80 MVAR, 765KV SR along with associated NGRs & SAs at Jabalpur Pooling Station and 4X80 MVAR, 765KV SR along with associated NGRs & SAs at Indore SIS.											
	CC-CS/11-WR2/RT-1222/G2NOA-1/4102, NOA-1/4103 & NOA-1/4104	Supply and Erection package	Domestic	10.02.2012	10.02.2012	10.02.2014	Supply - Rs. 498282323.5/- Erection - Rs. 105438185/-	Escalation	686.02	126.05	41.29	853.36

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POWER GRID CORPORATION OF INDIA
WESTERN
TRANSMISSION SYSTEM FOR PHASE-I GENERATION PROJECTS IN ORISSA (PART-C)
765 KV D/C Jabalpur Pooling - Bina Transmission Line Ckt# 2 along with associated Bays at Jabalpur 765/400 KV Pooling Substation(NEW) & 765KV Bina Substation under ORISSA PART-C

01.03.2014
(Anticipated)

COD

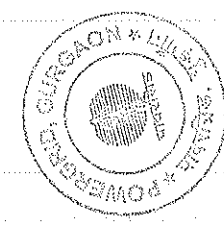
Name of the Transmission Licensee :
Name of the Region :
Name of the Project :
Name of the Transmission Element :

Break-up of Construction/Supply/Service packages

Sl. No.	Name/No. of Construction/Supply/Service package	Scope of works (in line with head of cost break-ups as applicable)	Whether awarded through ICB/DCB/ Departmentally/Deposit Work etc. & No. of bids received.	No. of bid Date of received Award	Date of start of work	Date of completion of work	Value of Award in (Rs./ Euro/ \$) Lakhs	Firm or with Escalation in prices.	FORM-5C			
									Actual expenditure till the completion or up to COD whichever is earlier. (Rs. Lakhs)	Taxes & Duties, customs duty & others and IEDC	IDC, PSERV & Hedging cost	Sub - Total
1	Circuit Breaker Pkg.-A for (P) Extn. of 765KV Gwalior & Jabalpur under ORISSA-C			19.06.2012	19.06.2012	19.09.2013	Supply- Rs. 62527074/- F&I - Rs. 1408657/-	Escalation	204.52	35.00	12.18	251.70
12	CC-CS/256-WR/ICB-15062/ G10N04/430 765KV Circuit Breaker Pkg.-A (referred to as Pkg.- A-II) for Extension of 765KV Bina & 765KV indore under Orissa (Part-C)	Suppl. and Erection package	Domestic	3	31.10.2012	31.03.2014	Supply- Rs. 22521383/- F&I - Rs. 514874/-	Escalation	11.55	1.98	0.69	14.22
	Crop compensation								0.00	0.00	0.00	0.00
	Civil, Land & Others								0.00	0.00	0.00	0.00
GRAND TOTAL									17923.84	2687.79	1047.96	21659.59

(Signature)

DR. J.R. D.



Financial package upto COD

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**

Name of Region: **WESTERN REGION**

Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**

Name of the Transmission Element: **765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-II) and respective bay extension works at 765kV Jabalpur Pooling S/s & 765kV Bina S/s along with 240MVAR switchable Line Reactor at respective ends . Anti: :DOCO :01-MAR-2014**

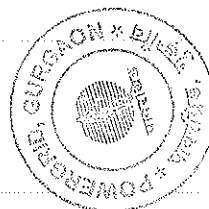
Project Cost as on COD/31.03.2009: **21659.59 (Rs. in Lakhs)**

Date of Commercial Operation of the Transmission element: **01-MAR-2014**

(Rs in Lacs)

Transmission Lines					
	Financial Package as apporportioned/ Approved		Financial Package as on COD		As Admitted on COD
	Currency	Amount	Currency	Amount	Currency and Amount
Loans					
Loans - Domestic	INR	17578.58	INR	7936.71	
Loans - Foreign			INR	7225.00	
Total Loans		17578.58		15161.71	
Equity					
Foreign					
Domestic	INR	7533.68	INR	6497.88	
Notional				0.00	
Total Equity		7533.68		6497.88	
Debt Equity Ratio		70.00:30.00		70.00:30.00	
Total Cost		25112.26		21659.59	
	Debt	Equity	Total		
Add Cap For 2013-2014			1110.34		
Add Cap For 2013-2014	Actual	Normative			
Debt		777.24			
Equity		333.10			
Total		1110.34			
Total Capital Cost with ADDCAP upto 01.04.2014			22769.93		

[Signature]
Petitioner



Statement of Additional Capitalisation after COD

Name of the Transmission Licensee:

POWERGRID CORPORATION OF INDIA LTD.

Name of Region:

WESTERN REGION

Name of the Project:

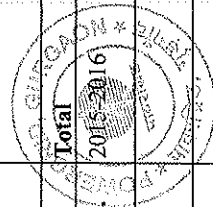
Transmission System for Phase-I Generation Projects in ORISSA-C

Name of the Transmission Element:

765kV D/C Jabalpur Pooling Station-Bina Transmission line(ck-II) and respective bay extension works at 765kV Jabalpur Pooling S/s & 765kV Bina S/s along with 240MVAR switchable Line Reactor at respective ends . Anti :DOCO :01-MAR-2014

COD: 01-MAR-2014

SLNo.	Year	Work/Equipment proposed to be added after COD upto cut off date/ beyond cut off date	Amount capitalised and proposed to be capitalised	Justification as per propose	Regulation under which covered	Admitted Cost (Rs in Lacs)
			4	5	6	7
1.	2013-2014	TR LINE	101.40	Balance and Retention Payment	9(1)	
		SUB STATION	996.34	Balance and Retention Payment	9(1)	
		PLCC	12.60	Balance and Retention Payment	9(1)	
		Total	1110.34			
2.	2014-2015	TR LINE	240.92	Balance and Retention Payment	9(1)	
		SUB STATION	3548.10	Balance and Retention Payment	9(1)	
		PLCC	27.93	Balance and Retention Payment	9(1)	
		Total	3816.95			
3.	2015-2016	TR LINE	54.09	Balance and Retention Payment	9(1)	
		SUB STATION	1211.52	Balance and Retention Payment	9(1)	
		PLCC	6.07	Balance and Retention Payment	9(1)	
		Total	1271.68			



[Signature]
Petitioner

Statement of Capital Cost

POWERGRID CORPORATION OF INDIA LTD.
WESTERN REGION

Transmission System for Phase-I Generation Projects in ORISSA-C

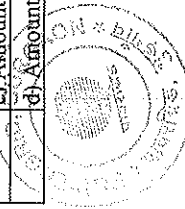
765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-II) and respective bay extension works at 765kV Jabalpur Pooling S/s & 765kV Bina S/s along with 240MVAR switchable Line Reactor at respective ends . Antti: :DOCO :01-MAR-2014

Name of the Transmission Licensee:
Name of Region:
Name of the Project:
Name of the Transmission Element:

Statement of Capital Cost

(To be given for relevant dates and year wise)

	01-APR-2009-31-Mar-2010	01-APR-2010-31-Mar-2011	01-APR-2011-31-Mar-2012	01-APR-2012-31-Mar-2013	01-MAR-2014-31-Mar-2014	(Rs. in Crores)
A						216.6
a) Opening Gross Block Amount as per books						
b) Amount of capital liabilities in A(a) above						
c) Amount of IDC, FC, FERV & Hedging cost included in A(a) above						16.94
d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) a						
B						11.1
a) Addition in Gross Block Amount during the period						
b) Amount of capital liabilities in B(a) above						
c) Amount of IDC, FC, FERV & Hedging cost included in B(a) above						
d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) a						
C						227.7
a) Closing Gross Block Amount as per books						
b) Amount of capital liabilities in C(a) above						
c) Amount of IDC, FC, FERV & Hedging cost included in C(a) above						16.94
d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) a						



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Financing of Additional Capitalisation

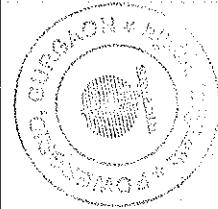
POWERGRID CORPORATION OF INDIA LTD.
WESTERN REGION

Transmission System for Phase-I Generation Projects in ORISSA-C
765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-II) and respective bay extension works at 765kV Jabalpur Pooling S/s & 765kV Bina S/s along with 240MV AR switchable Line Reactor at respective ends . Anti :DOCO :01-MAR-2014

Name of the Transmission Licensee:
Name of Region:
Name of the Project:
Name of the Transmission Element:

Financial Year (Starting from COD)	Projected/Actual					Admitted				
	From COD to31- Mar-2014	Year2	Year3	Year4	Year5& So on	Year1	Year2	Year3	Year4	Year5 & so on
1	2	3	4	5	6	7	8	9	10	11
Amount capitalised in Work/Equipmen t	1110.34									
Financing Details										
Loan-1										
Loan-2										
Loan-3 and so on										
Total Loan	777.24									
Equity	333.10									
Internal Resources										
Others										
Total	1110.34									

(Rs in Lacs)



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Calculation of Depreciation Rate

Name of the Transmission Licensee:

POWERGRID CORPORATION OF INDIA LTD.

Name of Region:

WESTERN REGION

Name of the Project:

Transmission System for Phase-I Generation Projects in ORISSA-C

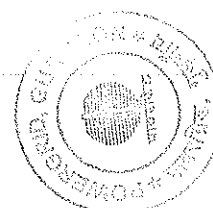
Name of the Transmission Element:

765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-II) and respective bay extension works at 765kV Jabalpur Pooling S/s & 765kV Bina S/s along with 240MVAR switchable Line Reactor at respective ends . Anti: :DOC0 :01-MAR-2014

(Rs in Lacs)

Sl.No.	Name of the Assets	Gross Block as on 31.03.2013 or as on COD, whichever is later	Addcap during the year	Gross Block as on 31.03.2014 or as on COD, whichever is later	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount up to 31.03.2014
	1	2	3	4	5	6=Col.4 X Col.5
2013-2014						
1	FREEHOLD LAND	0.00	0.00	0.00	0.00%	0.00
2	BUILDING	0.00	0.00	0.00	3.34%	0.00
3	TR LINE	18120.40	101.40	18221.80	5.28%	79.95
4	SUB STATION	3458.25	996.34	4454.59	5.28%	17.41
5	PLCC	80.94	12.60	93.54	6.33%	0.46
6	LEASEHOLD LAND	0.00	0.00	0.00	3.34%	0.00
	Total	21659.59	1110.34	22769.93		97.82
Weighted Average Rate of Depreciation (%)						0.44
Elapsed Life						0

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Statement of Depreciation

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
Name of Region: **WESTERN REGION**

Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**

Name of the Transmission Element: **765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-II) and respective bay extension works at 765kV Jabalpur Pooling S/s & 765kV Bina S/s along with 240MVAR switchable Line Reactor at respective ends . Anti: :DOCO :01-MAR-2014**

Financial Year	(Rs in Lacs)													
	Upto 2000-2001	2001-2002	2002-2003	2003-2004	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Depreciation on Capital Cost														95.37
Depreciation on Additional Capitalization														
Amount of Additional Capitalisation														1,110.34
Depreciation Amount														2.45
Details of FERV														
Amount of FERV on which depreciation charged														
Depreciation Amount														
Depreciation Recovered during the year														97.82
Advance against Depreciation recovered during the year														
Depreciation: and Advance against Depreciator. recovered during the year.														97.82
Cumulative Depreciation: and Advance against Depreciator. recovered upto the year.														97.82



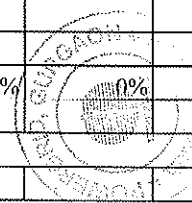
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Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-II) and respective bay extension works at 765kV Jabalpur Pooling S/s & 765kV Bina S/s along with 240MVAR switchable Line Reactor at respective ends . Anti :DOC0 :01-MAR-2014**

(Rs in Lacs)

Particulars	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
Proposed Loan 2013-14 (8.70%)						
Gross Loan Opening						3196.71
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						3196.71
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						3196.71
Average Net Loan						3196.71
Rate of Interest on Loan		0%	0%	0%	0%	8.7%
Interest on Loan						278.11
IFC (IFC - A LOAN) (31419-00)						
Gross Loan Opening						50.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						50.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						50.00
Average Net Loan						50.00
Rate of Interest on Loan		0%	0%	0%	0%	3.285%
Interest on Loan						1.64
IFC (IFC - B LOAN) (31419-01)						
Gross Loan Opening						1845.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						1845.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						1845.00
Average Net Loan						1845.00
Rate of Interest on Loan		0%	0%	0%	0%	2.435%
Interest on Loan						44.93
IFC (ICFF LOAN) (31419-02)						
Gross Loan Opening						790.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						790.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						790.00
Average Net Loan						790.00
Rate of Interest on Loan		0%	0%	0%	0%	3.285%
Interest on Loan						25.95
FC - BOND (17.01.2013)						
Gross Loan Opening						4540.00

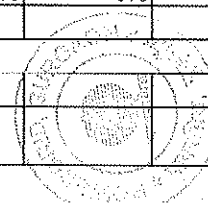


Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-II) and respective bay extension works at 765kV Jabalpur Pooling S/s & 765kV Bina S/s along with 240MVAR switchable Line Reactor at respective ends . Anti : :DOCO :01-MAR-2014**

(Rs in Lacs)

Particulars	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						4540.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						4540.00
Average Net Loan						4540.00
Rate of Interest on Loan		0%	0%	0%	0%	3.875%
Interest on Loan						175.92
BOND - XLII						
Gross Loan Opening						150.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						150.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						150.00
Average Net Loan						150.00
Rate of Interest on Loan		0%	0%	0%	0%	8.8%
Interest on Loan						13.20
BOND - XLI						
Gross Loan Opening						60.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						60.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						60.00
Average Net Loan						60.00
Rate of Interest on Loan		0%	0%	0%	0%	8.85%
Interest on Loan						5.31
SBI (21.03.2012)						
Gross Loan Opening						1000.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						1000.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						1000.00
Average Net Loan						1000.00
Rate of Interest on Loan		0%	0%	0%	0%	10.05%
Interest on Loan						100.50
BOND XXXVII						
Gross Loan Opening						800.00
Cumulative Repayments of Loans upto Previous Year						



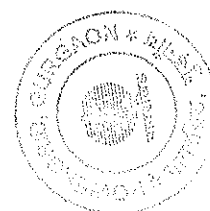
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Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-II) and respective bay extension works at 765kV Jabalpur Pooling S/s & 765kV Bina S/s along with 240MVAR switchable Line Reactor at respective ends . Anti : :DOCO :01-MAR-2014**

(Rs in Lacs)

Particulars	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
Net Loans Opening						800.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						800.00
Average Net Loan						800.00
Rate of Interest on Loan		0%	0%	0%	0%	9.25%
Interest on Loan						74.00
BOND XL						
Gross Loan Opening						2080.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						2080.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						2080.00
Average Net Loan						2080.00
Rate of Interest on Loan		0%	0%	0%	0%	9.3%
Interest on Loan						193.44
BOND XXXIX						
Gross Loan Opening						650.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						650.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						650.00
Average Net Loan						650.00
Rate of Interest on Loan		0%	0%	0%	0%	9.4%
Interest on Loan						61.10
Total						
Gross Loan Opening						15161.71
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						15161.71
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						15161.71
Average Net Loan						15161.71
Interest on Loan						974.11
Weighted Average Rate of Interest on Loans						6.4248%



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 Petitioner

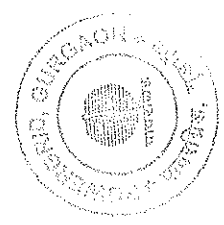
Calculation of Interest on Normative Loan

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-II) and respective bay extension works at 765kV Jabalpur Pooling S/s & 765kV Bina S/s along with 240MVAR switchable Line Reactor at respective ends . Anti : :DOCO :01-MAR-2014**

(Rs in Lacs)

Particulars	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
1	2	3	4	5	6	7
Gross Normative Loan - Opening						15,161.71
Cumulative repayment of Normative Loan upto previous year						
Net Normative loan - Opening						15,161.71
Increase/Decrease due to ACE during the Year						777.24
Repayments of Normative Loan during the year						97.82
Net Normative loan - Closing						15,841.13
Average Normative Loan						15,501.42
Weighted average Rate of Interest on actual Loans						6.4248%
Interest on Normative loan						82.99

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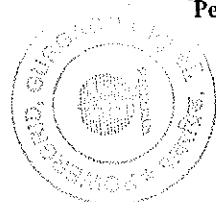


Loans in Foreign Currency

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-II) and respective bay extension works at 765kV Jabalpur Pooling S/s & 765kV Bina S/s along with 240MVAR switchable Line Reactor at respective ends . Anti :DOCO :01-MAR-2014**

Particulars	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
1	2	3	4	5	6	7
IFC (IFC - A LOAN) (31419-00) (USD in LACs) EXCHANGE RATE : 63.12						
Gross Loan Opening						0.79
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						0.79
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						0.79
Average Net Loan						0.79
Rate of Interest on Loan						3.285%
Interest on Loan						0.03
IFC (IFC - B LOAN) (31419-01) (USD in LACs) EXCHANGE RATE : 63.12						
Gross Loan Opening						29.23
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						29.23
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						29.23
Average Net Loan						29.23
Rate of Interest on Loan						2.435%
Interest on Loan						0.71
IFC (ICFF LOAN) (31419-02) (USD in LACs) EXCHANGE RATE : 63.12						
Gross Loan Opening						12.52
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						12.52
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						12.52
Average Net Loan						12.52
Rate of Interest on Loan						3.285%
Interest on Loan						0.41
FC - BOND (17.01.2013) (USD in LACs) EXCHANGE RATE : 63.12						
Gross Loan Opening						71.93
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening						71.93
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing						71.93
Average Net Loan						71.93
Rate of Interest on Loan						3.875%
Interest on Loan						2.79

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Calculation of Interest on Working Capital

Name of the Transmission Licensee:

POWERGRID CORPORATION OF INDIA LTD.

Name of Region:

WESTERN REGION

Name of the Project:

Transmission System for Phase-I Generation Projects in ORISSA-C

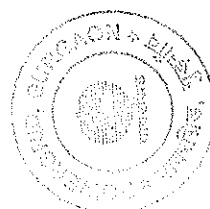
Name of the Transmission Element:

765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-II) and respective bay extension works at 765kV Jabalpur Pooling S/s & 765kV Bina S/s along with 240MVAR switchable Line Reactor at respective ends . Anti: :DOCO :01-MAR-2014

(Rs in Lacs)

SLN o.	Particulars	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
1	2	3	4	5	6	7	8
1	O and M Expenses						47.7
2	Maintenance Spares						85.86
3	Receivables						668.8
4	Total Working Capital						802.40
5	Rate of Interest						13.20
6	Interest on Working Capital						8.826


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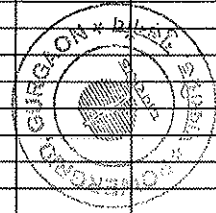


Draw Down Schedule for Calculation of IDC & Financing Charges

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **Transmission System for Phase-I Generation Projects in ORISSA-C**
 Name of the Transmission Element: **765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-II) and respective bay extension works at 765kV Jabalpur Pooling S/s & 765kV Bina S/s along with 240MVAR switchable Line Reactor at respective ends . Anti: :DOC0 :01-MAR-2014**

(Rs in Lacs)

Draw Down Schedule for Calculation of IDC & Financing Charges										
Sl.No	Drawn Down	Quarter 1			Quarter 2			Quarter n(COD)		
Sl.No.	Particulars	Quantum In Foreign Currency	Exchange Rate on Draw Down Date	Amount In Indian Rupee	Quantum In Foreign Currency	Exchange Rate on Draw Down Date	Amount In Indian Rupee	Quantum In Foreign Currency	Exchange Rate on Draw Down Date	Amount In Indian Rupee
1.	Loans									
1.1	Foreign Loans									
1.2	Indian Loans									
1.2.1	IFC (IFC - A LOAN) (31419-00)									
	Draw Down Amount									50.00
	IDC									
	Financing Charges									
1.2.2	IFC (IFC - B LOAN) (31419-01)									
	Draw Down Amount									1845.00
	IDC									
	Financing Charges									
1.2.3	IFC (ICFF LOAN) (31419-02)									
	Draw Down Amount									790.00
	IDC									
	Financing Charges									
1.2.4	FC - BOND (17.01.2013)									
	Draw Down Amount									4540.00
	IDC									
	Financing Charges									
	Total Foreign Loans									
	Draw Down Amount									7225.00
	IDC									0.00
	Financing Charges									0.00
1.2	Indian Loans									
1.2.1	BOND XXXVII									
	Draw Down Amount									800.00
	IDC									
	Financing Charges									
1.2.2	BOND XXXIX									
	Draw Down Amount									650.00
	IDC									
	Financing Charges									
1.2.3	SBI (21.03.2012)									
	Draw Down Amount									1000.00
	IDC									
	Financing Charges									
1.2.4	BOND XL									
	Draw Down Amount									2080.00
	IDC									
	Financing Charges									
1.2.5	BOND - XLI									
	Draw Down Amount									60.00
	IDC									
	Financing Charges									
1.2.6	BOND - XLI.I									
	Draw Down Amount									150.00
	IDC									
	Financing Charges									
1.2.7	Proposed Loan 2013-14 (8.70%)									



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Draw Down Schedule for Calculation of IDC & Financing Charges

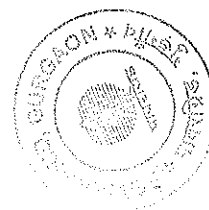
Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
 Name of Region: WESTERN REGION
 Name of the Project: Transmission System for Phase-I Generation Projects in ORISSA-C
 Name of the Transmission Element: 765kV D/C Jabalpur Pooling Station-Bina Transmission line(ckt-II) and respective bay extension works at 765kV Jabalpur Pooling S/s & 765kV Bina S/s along with 240MVAR switchable Line Reactor at respective ends . Anti: :DOCO :01-MAR-2014

(Rs in Lacs)

Draw Down Schedule for Calculation of IDC & Financing Charges										
Sl.No	Drawn Down	Quarter 1			Quarter 2			Quarter n(COD)		
Sl.No.	Particulars	Quantum In Foreign Currency	Exchange Rate on Draw Down Date	Amount In Indian Rupee	Quantum In Foreign Currency	Exchange Rate on Draw Down Date	Amount In Indian Rupee	Quantum In Foreign Currency	Exchange Rate on Draw Down Date	Amount In Indian Rupee
	Draw Down Amount									3196.71
	IDC									
	Financing Charges									
	Total Indian Loans									
	Draw Down Amount									7936.71
	IDC									0.00
	Financing Charges									0.00
	Total of Loans Drawn									
	Draw Down Amount									15161.71
	IDC									1694.21
	Financing Charges									0.00
2	Equity									
2.1	Foreign Equity Drawn									
2.2	Indian Equity Drawn									0
	Total Equity Deployed									0.00

The project has been funded through domestic loans and foreign loans allocated from the common pool based on the phasing of expenditure and IDC has been booked accordingly. As the loans are allocated from common pool, quarter wise drawl is not furnished.


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CHECK LIST
PART-III

Name of the Company

Power Grid Corporation of India Ltd.

Name of the Project :

Transmission System for Ph-I Generation Projects in Orissa part-C

Name of the Transmission Element:

1)400kV 125MVAR Bus Reactor at 765kV Indore S/S along with associated bays(DOCO: 1. 10.2013).2)400kV 125MVAR Bus Reactor-I and Bus Reactor-II at 765kV Gwalior S/S along with associated bays (1.10.2013).3)765kV D/C Jabalpur Pooling Station -Bina Ckt-I with 240MVAR Switchable line reactor and associated bays(Anti. DOCO: 1. 1. 2014).4)765kV D/C Jabalpur Pooling Station -Bina Ckt-II with 240MVAR Switchable line reactor and associated bays(Anti. DOCO:1.3.2014)

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

Form No.	Tariff Filing Formats (Transmission)	Tick
FORM- 1	Summary Sheet	Yes
FORM-1A	Calculation of Return on Equity	Yes
FORM-2	Details of Transmission Lines and Substations	Yes
FORM-3	Normative Parameters considered for tariff calculations	Yes
FORM- 4	Details of Foreign loans	Not applicable and hence not enclosed
FORM-4A	Details of Foreign Equity	Not applicable and hence not enclosed
FORM-5	Abstract of Admitted Cost for the existing Projects	Not applicable and hence not enclosed
FORM-5A	Abstract of Project Cost Estimates and Schedule of Commissioning for the new Projects	Yes
FORM-5B	Element wise Break-up of Project Cost for Transmission System	Yes
FORM-5C	Break-up of Construction/Supply/Service packages	Yes
FORM-5D	Details of elementwise cost	Yes
FORM-6	Financial Package upto COD	Yes
FORM- 7	Details of Project Specific Loans	Not applicable and hence not enclosed
FORM- 8	Details of Allocation of corporate loans to various transmission elements	Not applicable and hence not enclosed
FORM-9	Statement of Additional Capitalisation after COD	Yes
FORM-9A	Statement of capital cost	Yes
FORM- 10	Financing of Additional Capitalisation	Yes
FORM- 11	Calculation of Depreciation Rate	Yes
FORM- 12	Statement of Depreciation	Yes
FORM- 13	Calculation of Weighted Average Rate of Interest on Actual Loans	Yes
FORM- 13A	Calculation of Interest on Normative Loans	Yes
FORM-13B	Calculation of Interest on Working Capital	Yes
FORM- 14	Draw down Schedule for Calculation of IDC & Financing Charges	Yes
FORM-14A	Actual Cash Expenditure	Not applicable and hence not enclosed

Sl. No.	Information/Document	Tick
1	Certificate of incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association (For New Station setup by a company making tariff application for the first time to CERC)	- Not Applicable -
2	Regionwise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the new Transmission System & for the relevant years.	Consolidated Balancesheet of POWERGRID & Regional Balance Sheet of WR for FY 2012-13 shall be submitted shortly
3	Copies of relevant loan Agreements	
4	Copies of the approval of Competent Authority for the Capital Cost and	
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	Equity contribution by GOI (69.42%) and others(30.58%)
6	Copies of the BPTA/TSA with the beneficiaries, if any	Covered in petition
7	Detailed note giving reasons of time and cost over run, if applicable.	Covered in petition
8	Any other relevant information, (Please specify)	-Not Applicable -

