

BEFORE
THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

IN THE MATTER OF: Approval under Regulation-86 of CERC (Conduct of Business) Regulations'1999 and CERC (Terms and Conditions of Tariff) Regulations'2009 for determination of Transmission Tariff for Extension of 765/400 kV Bilaspur Pooling Station (near Sipat) alongwith LILO of Sipat-Seoni Ckt-2 with 3x80 MVAR Switchable Line Reactor and 765/400 kV, 1500 MVA Auto-transformer 3 (Ant. DOCO: 01.03.2012) under WRSS XI Scheme in WR for tariff block 2009-14 period

PETITIONER

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

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

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

Power Grid Corporation of India Ltd., the petitioner in the matter, is filing petition under Regulation-86 for approval of transmission tariff for WRSS XI (Ant. DOCO: 01.03.2012) as above in WR for The Period From DOCO To 31.3.2014.

In terms of Regulation 3(2) of the Central Electricity Regulatory Commission (Procedure for making of application for determination of tariff, publication of the application and other related matters) Regulations, 2004, copy of complete tariff application is hereby served to the respondents (beneficiaries of **Western Region**), for information and necessary action in the matter.

The tariff application is hereby served through the nodal officers of the respondents for CERC matters, on the addresses as mentioned below:

ADDRESSES OF NODAL OFFICERS

1. **Managing Director**

Madhya Pradesh Power Trading Co. Ltd.
Shakti Bhawan, Rampur
Jabalpur - 482 008

2. **Secretary (Finance)**

Electricity Department
Power House Building, 2nd floor,
Administration of Daman & Diu
Daman - 396 210

3. **Chairman**


Gujarat Urja Vikas Nigam Ltd.,
Sardar Patel Vidyut Bhawan,
Race Course,
Vadodara-390 007



4. **Chief Engineer (Electrical)**
Electricity Department
Govt. of Goa, Vidyut Bhawan,
Near Mandvi Hotel,
Panaji, Goa - 403 001
5. **Secretary (Power)**
Electricity Department
Administration of Dadra Nagar Haveli
U.T., Silvassa - 396 230
6. **Chief Engineer (Power Purchase Cell)**
Maharashtra State Electricity Distribution Co. Ltd.
5th Floor, Prakashgad,
Plot No.9, Anant Kanekar Marg,
Bandra(East), Mumbai - 400 051
7. **Chairman**
Chhatisgarh State Electricity Board
P.O.Sunder Nagar, Dangania, Raipur
Chhatisgarh-492013
8. **The Managing Director,**
Madhya Pradesh Audyogik Kandra
Vikas Nigam (Indore) Ltd.
3/54, Press Complex, Agra-Mumbai Road,
Indore -452 008.

Kindly acknowledge the receipt.

PETITIONER
POWER GRID CORPORATION OF INDIA LTD.
REPRESENTED BY


S. S. Raju

Dy. GENERAL MANAGER (COMMERCIAL)

GURGAON
DATED: 30.12.2011



BEFORE
THE CENTRAL ELECTRICITY REGULATORY COMMISSION

NEW DELHI

PETITION FOR

APPROVAL OF TRANSMISSION TARIFF FOR

**Extension of 765/400 kV Bilaspur Pooling station (near Sipat) alongwith
LILO of Sipat-Seoni Ckt-2 with 3x80 MVAR Switchable Line Reactor and
765/400 kV, 1500 MVA Auto-transformer # 3 (Ant. DOCO: 01.03.2012) under
WRSS XI Scheme in WR**

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**

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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 Extension of 765/400 kV Bilaspur Pooling Station (near Sipat) alongwith LILO of Sipat-Seoni Ckt-2 with 3x80 MVAR Switchable Line Reactor and 765/400 kV, 1500 MVA Auto-transformer 3 (Ant. DOCO: 01.03.2012) under WRSS XI Scheme in WR for tariff block 2009-14 period.

Power Grid Corporation of India Ltd.

(Govt. of India undertaking)

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)

---PETITIONER

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD. --- RESPONDENTS

PRAKASHGAD, 4TH FLOOR

ANDHERI (EAST), MUMBAI - 400 052

REPRESENTED BY ITS MD

And Others

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Filed by
Power Grid Corporation of India Ltd.

Represented by

S. S. Raju

Dy. General Manager (Commercial)

Gurgaon

Dated: 30.12.2011



**BEFORE
THE CENTRAL ELECTRICITY REGULATORY COMMISSION
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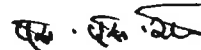
MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD. --- **RESPONDENTS**
PRAKASHGAD, 4TH FLOOR
ANDHERI (EAST), MUMBAI - 400 052
REPRESENTED BY ITS MD
And Others

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: 30.12.2011



**BEFORE
THE CENTRAL ELECTRICITY REGULATORY COMMISSION
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PRAKASHGAD, 4TH FLOOR
ANDHERI (EAST), MUMBAI - 400 052
REPRESENTED BY ITS MD
And Others

MEMO OF PARTIES

POWER GRID CORPORATION OF INDIA LTD.

---PETITIONER

VERSUS

1. MADHYA PRADESH POWER TRADING COMPANY LTD.
SHAKTI BHAWAN, RAMPUR
JABALPUR - 482 008
REPRESENTED BY ITS MD
2. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD.
PRAKASHGAD, 4TH FLOOR
ANDHERI (EAST), MUMBAI - 400 052
REPRESENTED BY ITS MD
3. GUJARAT URJA VIKAS NIGAM LTD.
SARDAR PATEL VIDYUT BHAWAN,
RACE COURSE ROAD
VADODARA - 390 007
REPRESENTED BY ITS CHAIRMAN
4. ELECTRICITY DEPARTMENT



GOVT. OF GOA
VIDYUT BHAWAN, PANAJI,
NEAR MANDVI HOTEL, GOA - 403 001
REPRESENTED BY ITS CHIEF ENGINEER (ELECTRICAL)

5. ELECTRICITY DEPARTMENT
ADMINISTRATION OF DAMAN & DIU
DAMAN - 396 210
REPRESENTED BY ITS SECRETARY (FIN.)
6. ELECTRICITY DEPARTMENT
ADMINISTRATION OF DADRA NAGAR HAVELI
U.T., SILVASSA - 396 230
REPRESENTED BY ITS SECRETARY (FIN.)
7. CHHATTISGARH STATE ELECTRICITY BOARD
P.O.SUNDER NAGAR, DANGANIA, RAIPUR
CHHATISGAARH-492013
REPRESENTED BY ITS CHAIRMAN
8. 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: 30.12.2011





दिल्ली DELHI

45AA 448228

BEFORE

THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

FILE NO:.....

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 Extension of 765/400 Bilaspur Pooling Station (near Sipat) alongwith LILO of Sipat-Seoni Ckt-2 with 3x80 MVAR Switchable Line Reactor and 765/400 kV, 1500 MVA Auto-transformer 3 (Ant. DOCO: 01:03.2012) under WRSS XI Scheme in WR for tariff block 2009-14 period.

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PRAKASHGAD, 4TH FLOOR
ANDHERI (EAST), MUMBAI - 400 052
REPRESENTED BY ITS MD

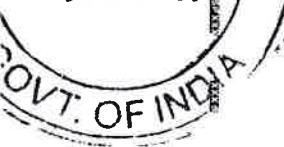
And Others

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-

Name: SURINDER SINGH
Area: DELHI
Regd. No. 2608

6



110 016, do hereby solemnly affirm and state as under:-

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 tariff for Extension of 765/400 Bilaspur Pooling Station (near Sipat) alongwith LILO of Sipat-Seoni Ckt-2 with 3x80 MVAR Switchable Line Reactor and 765/400 kV, 1500 MVA Auto-transformer 3 (Ant. DOCO: 01.03.2012) under WRSS XI Scheme in WR for tariff block 2009-14 period.
3. I submit that no other tariff Petition except this Petition has been filed directly or indirectly for approval of tariff for Extension of 765/400 Bilaspur Pooling Station (near Sipat) alongwith LILO of Sipat-Seoni Ckt-2 with 3x80 MVAR Switchable Line Reactor and 765/400 kV, 1500 MVA Auto-transformer 3 (Ant. DOCO: 01.03.2012) under WRSS XI Scheme in WR for tariff block 2009-14 period.
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 ³⁰ day of Dec' 2011 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

30/12/2011
NOTARY PUBLIC
DELHI



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MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD. --- RESPONDENTS
PRAKASHGAD, 4TH FLOOR
ANDHERI (EAST), MUMBAI - 400 052
REPRESENTED BY ITS MD
And Others

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.

That the petitioner has been entrusted with the implementation of Western Region System Strengthening Scheme - XI in Western Region. Investment approval for the said system was accorded by Board of Directors of POWERGRID vide their letter C/CP/WRSS XI dated 16.02.2009 at an estimated cost of Rs.409.50 crore including IDC of Rs. 31.25 crore. (based on 4th Quarter, 2008 price level). Encl.-1, page..14...to..17... The Schematic diagram of the same is attached hereto as Encl. - 2, (page ..18..).



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

Transmission line

- i) LILO of Sipat-Seoni 765 kV second S/C line at WR Pooling Station near Sipat

Sub-Station

- i) Extension of WR Pooling Station near Sipat by installation of 765/400 kV, 1x1500 MVA, 3rd transformer along with associated bays
- ii) Provision of 1x240 MVAR switchable line reactor at 765/400 kV WR Pooling station for WR Pooling station-Seoni 765 kV 2nd transmission line.

As per the investment approval, the system is scheduled for commissioning 36 months from the date of investment approval i.e. by Feb.' 2012 (DOCO: 01.03.2012).

- 3) The assets of this scheme were agreed as part of BPTA in the 8th WRPC meeting in Western Region held on 12.09.2008. A copy whereof is attached hereto Encl. - 3, (Page..11..to.22...).
- 4) That the details of commissioning of the current asset of WRSS XI Scheme is as below:

S.No	Asset	Schedule as per FR	Anticipated DOCO	Delay in commissioning
1	Extension of 765/400 kV Bilaspur Pooling Station (near Sipat) alongwith LILO of Sipat-Seoni Ckt-2 with 3x80 MVAR Switchable Line Reactor and 765/400 kV, 1500 MVA Auto-transformer 3 - Asset I	February' 2012	01.03.2012	Within schedule as per FR

This is the first petition for WRSS XI Scheme and includes complete assets of this scheme.

- 5) That the application for determination of tariff is filed in line with provision 5 (2) of tariff Regulation 2009 applicable for 2009-14 period. The present petition covers determination of tariff based on actual expenditure incurred upto DOCO and projected additional capitalization to be incurred from DOCO to 31.03.2014 of the asset covered under the current petition. The details of apportioned approved cost, cost as on DOCO and estimated /projected additional capitalization to be incurred of various assets covered in this petition are summarized below:

(Rs in Lakhs)

Name of the asset	Apportioned approved cost as per FR	Expenditure up to DOCO	Proj. Exp. from 01.03.12 to 31.03.12	Est. Exp. For 2012-13	Est. Exp. For 2013-14	Total Estimated Completion Cost
Asset I	40949.50	12805.20	2805.43	836.42	696.55	17143.60

A copy of auditor's certificate in respect of the asset covered in this petition is enclosed herewith as Encl-4 (page 21. to 22.). The reasons for item wise cost variation between approved cost (FR) and



actual cost as on DOCO are explained in detail in Form-5B. Further, details of apportioned approved cost and total estimated completion cost has been given at Form-5D.

That the petitioner as per clause 6 (1) of tariff Regulations'2009 may in its discretion make an application before the Hon'ble commission one more time prior to 2013-14 for revision of tariff.

- 6) That there is cost variation for various items shown in form 5B of the petition. The detailed justification for the same is furnished as below:

Structure and foundation for Switchyard:

The cost has primarily increased on account of the Lattice structures used in 765 KV equipments to match the bus height of 13 meters. The cost of Structures have increased on account of the increase in the number of 765 KV equipments due to the consideration of the Auto switching arrangement of 1-phase spare units of 765/400KV Auto Transformers and 765 KV Line Reactors as compared to the that of FR. Accordingly, the cost of foundation for structure and Structure for Switch yard has been increased significantly to cater the system requirements as explained above.

- 7) The details of underlying assumptions for additional capitalization are summarized as follows:

The admissibility of additional capital expenditure (Add. Cap.) incurred after DOCO is to be dealt in accordance with the provisions of Regulation 9 (1), the extract of clause 9 of the regulations, 2009 is reproduced as under:

“Additional Capitalisation”: (1) The capital expenditure incurred or projected to be incurred, on the following counts within the original scope of work, after the date of commercial operation and upto the cut-off date may be admitted by the Commission, subject to prudence check:

- (i) Undischarged liabilities;
- (ii) Works deferred for execution
- (iii) Procurement of initial capital spares within the original scope of work, subject to the provisions of regulation 8;
- (iv) Liabilities to meet award of arbitration or for compliance of the order or decree of a court; and
- (v) Change in Law: 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.

The additional Capitalization incurred in the contextual assets is on account of works completed but to be billed after DOCO, balance civil works, final/retention payment, taxes & duties, price variation, & spares, etc. within the original scope and hence the Hon'ble Commission is requested to award the same.

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.- 5, (page 23 to 50.).



The annual transmission tariff for the assets covered under the current petition for the tariff period 2009-14 is summarized as below:

(Rs in Lakhs)

S. No.	Name of the asset	2009-10	2010-11	2011-12 (pro-rata)	2012-13	2013-14
1	Asset I	-	-	239.32*	3168.80	3244.75

* Tariff for 2011-12 is pro-rata for 01 month (01.03.12 to 31.03.12)

- 8.2 That the asset covered in the petition is anticipated to be put under DOCO on 01.03.2012 and accordingly will complete 12 years beyond 2013-14 and thus 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 8.1 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 8.1 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 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 after the amendment in the Regulation' 2009 as per direction of Hon'ble Commission order dated 25.10.2011 in petition no. 21/2011.

- 8.5 The Transmission Charges and other related Charges indicated at para 8 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:**

CBEC has exempted service tax on transmission vide notification No.: 11/2010 – Servicer Tax dated 27/02/2010. Further, CBEC also has exempted levy of service tax on transmission for the past period upto 26.02.2010 vide notification No.: 45/2010 – servicer tax datec 20th July 2010.

The Transmission Charges indicated at para 8.0 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 in case the exemption as above is withdrawn in future.

8.7 That Interest on Loan has been calculated on the basis of rate prevailing as on Anticipated DOCO i.e. 01.03.2012. 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. **Sharing of Transmission Charges**

Tariff for Transmission of Electricity (Annual Fixed Cost) as per para 8.1 shall be recovered on monthly basis in accordance with Regulation 23 and shall be shared by WR beneficiaries on regional basis. Further, with effect from 01.07.2011, 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.**

PRAAYER

- 1) Approve the Transmission Tariff for the assets covered under this petition, as per para – 8 above.
- 2) Approve the Additional Capitalization for the assets covered under this petition, as per para – 5 above.
- 3) Allow grossing up of base rate of return with the applicable tax rate as per the Finance Act for the relevant year and direct settlement of tax liability between the generating company/transmission licensee and the beneficiaries/long term transmission customers on year to year basis.
- 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 recover Service Tax on Transmission charges separately from the respondents, if at any time exemption from Service tax is withdrawn and transmission of Power is notified as a taxable Service.
- 6) Allow the petitioner to bill and recover Licensee fee separately from the respondents.



7) Allow the petitioner to raise the bills 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:
DATED: 30.12.2011**



Encl-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 : 2571700 - 719 फैक्स : 2571760, 2571761 तार 'नेटग्रिड'
Corporate office : "Saudamini" Plot No. 2, Sector-29, Gurgaon-122 001 Haryana
Tel. : 2571700 - 719, Fax : 2571760, 2571761 Gram : 'NATGRID'

संदर्भ संख्या / Ref. Number

C/CP/WRSS-XI

February 16, 2009

MEMORANDUM

Sub: **Western Region System Strengthening Scheme - XI.**

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 "Western Region System Strengthening Scheme - XI", in its 217th meeting held on 28th January, 2009, as per details given below:

1. Scope of Project

Transmission Line

(i) LILO of Sipat-Seoni 765kV second S/C line at WR Pooling station near Sipat

Substations

(ii) Extension of WR Pooling station near Sipat by installation of 765/400 kV, 1x1500 MVA, 3rd transformer along with associated bays

(iii) Provision of 1x240 MVAR switchable line reactor at 765/400kV WR Pooling station for WR Pooling station -Seoni 765kV 2nd transmission line.

2. Project Cost and Funding

The estimated cost of the project is **Rs. 409.50 Crore** (including IDC of **Rs. 31.25 Crore**) at 4th Quarter 2008 price level. The abstract cost estimate is enclosed at **Annexure-I**. Project is proposed to be funded through Domestic borrowings and internal resources of POWERGRID with a Debt: Equity ratio of 70:30.

3. Implementation Schedule

The commissioning schedule of the project is 36 months from the date of investment approval.

This is issued in pursuance of the minutes of 217th meeting of Board of Directors of POWERGRID held on 28th January, 2009.

(Sunil Agrawal)

Addl. General Manager (CP)

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

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

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

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Distribution:

ED: HR & CC/ OS/ IB & ESMD/ Commercial / Engg.-I/ Engg.-II/ R&D/ SO & NLDC /
LD&C/ CS & MM / CMG / Law / Finance / WRTS-I/ WRTS-II.

GM I/c: Telecom

GM: WRLDC

Company Secretary

For kind information to:

Director (Projects) / Director (Finance)

CVO



(Sunil Agrawal)
Addl. General Manager (CP)

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

ABSTRACT COST ESTIMATE
(BASE COST)
WESTERN REGION SYSTEM STRENGTHENING SCHEME-XI

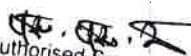
(Cost updated to 4th Qtr. 2008 price level)

Sr. No.	DESCRIPTION	AMOUNT (Rs. in Crs.)
A	Preliminary Survey & Soil Investigation	0.13
B	Land acquisition for S/Stn and R&R Compensation	0.00
C	Cost of compensation for Trans. Lines	
	i) Compensation towards Crop & PTCC	0.86
	ii) Compensation towards forest	2.84
D	Civil Works	
	i) Infrastructure for substations	0.20
	ii) Non Residential Buildings	0.00
	iii) Colony for Trans. Lines and S/stn	0.00
E	Equipment (Supply & Erection) Cost	
	a) Trans.Lines	100.27
	b) Sub-Stations	212.29
F	Sub Total A to E	316.59
G	Misc. Tools & Plants	
H	Maintenance during construction	
I	Engg. & Administration	@ 5% of [F - C(ii)]
J	Losses on Stock	15.69
K	Contingencies @ 3% of [F - C(ii)]	9.41
L	Centages & Contingencies @ 8% on 28.16 Ha Compensatory Afforestation (considering Rs.45,000 per Ha	0.01
M	Customs duty @20.94% (incl. handling charges @2%)	36.54
	Sub Total (A to M)	378.25
N	Interest During Construction(IDC)	31.25
	GRAND TOTAL	409.50

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.


Foreign Exchange component in above in equivalent Rs.Crores = 171.09

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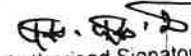

 Authorised Signatory
 Power Grid Corporation of India Ltd.
 Plot No. 2, Sector-29, Gurgaon-122001 (HARYANA)

Copy for kind information please:

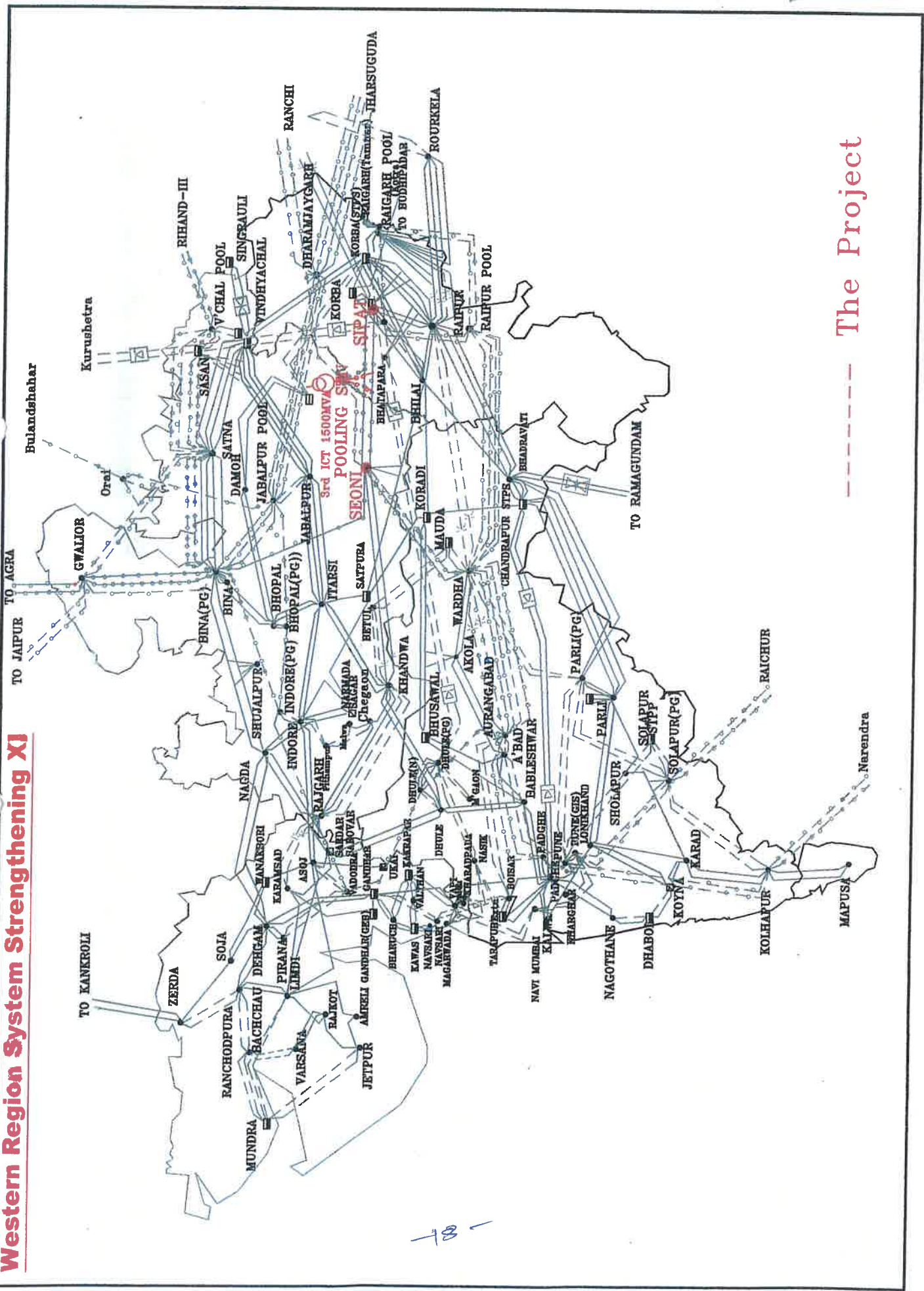
1. PS to Secretary (Power)
2. Chairman, CERC, Core-3, 6th floor, SCOPE complex, New Delhi – 110 003
3. Chairperson, CEA, R. K. Puram, New Delhi – 110 066
4. Chairman, Maharashtra State Electricity Board, Hongkong Bank Bldg, 4th floor, MG Road, Fort, Mumbai – 400 051
5. Chairman, Madhya Pradesh State Electricity Board, Shakti Bhawan, PB No. 34, Rampur, Jabalpur – 482 008
6. Chairman, Gujarat Electricity Board, Vidyut Bhawan, Race Course, Baroda, Gujarat
7. Secretary (Power), Govt. of Goa, Vidyut Bhawan, Near Mandvi Hotel, Panaji, Goa – 403 001
8. Chairman, Chhattisgarh State Electricity Board, PO – Sundarnagar, Dangania, Raipur, Chhattisgarh – 492 013
9. Secretary (Power), Electricity Department, Administration of Dadra Nagar Haveli, U.T. Silvassa – 396 230
10. Secretary (Power), Electricity Department, Administration of Daman and Diu, U.T. Daman – 396 210
11. Member Secretary, WRPC, MIDC Area, Marol, Andheri East, Mumbai – 400 094
12. Advisor, PAMD, Planning Commission, Yojana Bhawan, New Delhi – 110 001
13. Member Secretary, Planning Commission, Yojana Bhawan, New Delhi – 110 001
14. Member (Power Systems), CEA, R.K.Puram, New Delhi – 110 066
15. Secretary, CEA, Sewa Bhawan, R.K.Puram, New Delhi – 110 066 (3 Copies)
16. Addl. Secretary (Trans.), MOP, Shram Shakti Bhawan, New Delhi – 110 001
17. Joint Secretary & Financial Advisor, MOP, Shram Shakti Bhawan, New Delhi – 110 001
18. Director (Trans.), MOP, Shram Shakti Bhawan, New Delhi – 110 001
19. Joint Secretary (Plan Finance Div.-II), Ministry of Finance, North Block, New Delhi – 110 001
20. Director, Ministry of Finance (Plan Finance-II Div.), North Block, New Delhi – 110 001
21. Joint Secretary, Ministry of Statistics & Programme Implementation, Sardar Patel Bhawan, New Delhi – 110 001
22. Deputy Secretary, Cabinet Secretariat, Rashtrapati Bhawan, New Delhi – 110 001
23. Under Secretary, Finance & Budget Section, MOP, New Delhi – 110 001


(Suhil Agrawal)
Addl. General Manager (CP)

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

Western Region System Strengthening XI



The Project

Encl-3

स्पीड पोस्ट SPEED POST



भारत सरकार
Government of India
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
पश्चिम क्षेत्रीय विद्युत समिति



आई एस ओ : 9001-2000
ISO : 9001-2000

Western Regional Power Committee

एफ -3, एमआयडीसी क्षेत्र, अंधेरी (पूर्व), मुंबई - 400 093

F-3, MIDC Area, Andheri (East), Mumbai - 400 093

दूरभाष Phone: 022- 28221636; 28200194/95/96; फैक्स Fax : 022 - 28370193

Website : www.wrpc.nic.in

E-mail : ms-wrpc@nic.in

सं.: पक्षेविस/कार्यवृत्त/ सहा.सचि./2008/ 9638

दिनांक: 26 सितम्बर 2008

No.: WRPC/ Minutes/ A.S./ 2008/

Date:

सेवा में / To,

(संलग्न सूची के अनुसार)

(As per enclosed list)

विषय: 12 सितम्बर 2008 को जबलपुर में आयोजित की गई पश्चिम क्षेत्रीय विद्युत समिति की 8 वीं बैठक का कार्यवृत्त।

Sub.: Minutes of the 8th meeting of Western Regional Power Committee held on 12th September 2008 at Jabalpur.

महोदय / Sir,

इस पत्र के साथ दिनांक 12 सितम्बर 2008 को जबलपुर में आयोजित की गई पश्चिम क्षेत्रीय विद्युत समिति की 8वीं बैठक का कार्यवृत्त संलग्न है।

Please find enclosed herewith the minutes of 8th meeting of Western Regional Power Committee held at Jabalpur on 12th September 2008.

भवदीय / Yours faithfully,

(पी. पटेल / P. PATEL)

सदस्य सचिव / MEMBER SECRETARY

संलग्न / Encl.: उपरोक्तानुसार / As Above

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ए. व. र.
Authorised Signatory
Power Grid Corporation of India Ltd.
Plot No. 2, Sector-29, Gurgaon-122001 (HARYANA)

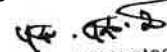
ITEM No.14: ANY OTHER ITEM

14.1: WESTERN REGION STRENGTHENING SCHEME –XI

Member Secretary, WRPC stated that Executive Director (OS), PGCIL vide letter No. C/OS/WRPC/Agenda dated 28th August 2008 have intimated that in Western Region (WR), a number of generation projects are envisaged to come up near Korba/Sipat complex in Chhattisgarh in next 3-4 years like Mahan (1200MW), Dheeru (600 MW), Pathadi (600 MW) etc. Further, as this complex shares boundary with ER, power from various proposed generation projects of DVC, NTPC etc. in ER is also to be injected in this complex for transfer to WR beneficiaries. Since such a large quantum of power from these generation projects and import from ER shall be transferred from this complex to the other parts of the region, a pooling station near Sipat is proposed as a part of DVC transmission system through LILO of Sipat-Seoni 765 kV line. Considering the quantum of power to be pooled at this substation and maintaining system reliability, strengthening of the transmission corridor from this substation to Seoni 765kV substation through LILO of 2nd ckt. of Sipat – Seoni 765 kV line was agreed in the 9th meeting of WR constituents regarding long-term open access applications held on 30.07.2007 to be developed as a part of WR system strengthening scheme. In view of this PGCIL have requested for concurrence of WRPC members for LILO of 2nd ckt. of Sipat – Seoni 765 kV line as agreed in the 9th meeting of WR constituents regarding long-term open access applications held on 30.07.2007.

Member Secretary, WRPC further stated that the above matter was discussed in the TCC meeting held on 11th Sept. 08 and TCC gave their concurrence for LILO of 2nd ckt. of Sipat – Seoni 765 kV line. The WRP Committee agreed to the same.

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

Encl-4

CERTIFICATE OF CAPITAL COST

Project Name:

Extension of 765/400KV Bilaspur Pooling Station (near Sipat) alongwith LLO of Sipat-Seoni Ckt 2 with 3x80 MVAR Switchable Line reactor and 765/400KV, 1500MVA Auto Transformer # 3 under WRSS-XI

Date of Commercial Operation:

Anticipated 01-03-2012

(RS./ LAKHS)

PARTICULARS	Expenditure upto 31.03.2011	Expenditure From 01.04.2011 to 30.06.2011	Estimated Exp From 01.07.2011 to 29.02.2012	Estimated Exp From 01.03.2012 to 31.03.2012	Estimated Exp From 01.04.2012 to 31.03.2013	Estimated Exp From 01.04.2013 to 31.03.2014	Total Expenditure
LAND	-	-	-	-	-	-	-
BUILDING ,CIVIL WORKS & COLONY	319.99	5.27	527.90	111.29	71.89	70.63	1,106.97
TRANSMISSION LINE	246.88	106.02	700.17	62.92	64.51	-	1,180.50
SUB-STATION	2,515.38	2,506.98	5,771.11	2,628.47	694.08	614.04	14,730.06
PLCC	90.62	5.42	9.45	2.75	5.94	11.88	126.06
	3,172.87	2,623.69	7,008.63	2,805.43	836.42	696.55	17,143.59

Initial Spares Included in Above - Transmission Line
- Sub-Station

356.72

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, Nagpur up to 31-03-2011. The expenditure from 01-04-2011 to 30-06-2011 have been verified from the books of account of the project. The estimated expenditure is based on the details furnished by the management.

Place : NAGPUR
Date : 11-10-2011



Jugal Kishore Puri
(JUGAL KISHORE PURI)
Cost Accountant
M/3703

21

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R. K. D.
Authorised Signatory
Power Grid Corporation of India Ltd.
Plot No 2, Sector-29, Gurgaon-122001 (HARYANA)

CERTIFICATE OF CAPITAL COST

Project Name:

Extension of 765/400KV Bilaspur Pooling Station (near Sipat)
alongwith LLO of Sipat-Seoni Ckt 2 with 3x80 MVAR
Switchable Line reactor and 765/400KV, 1500MVA Auto
Transformer # 3 under WRSS-XI

Date of Commercial Operation:

Anticipated 01-03-2012

(RS./ LAKHS)

PARTICULARS	CAPITAL COST	IDC	IEDC	TOTAL
Expenditure Upto 31.3.2011	3,130.39	107.14	(64.66)	3,172.87
Expenditure 01.04.2011 to 30.06.2011	2,522.24	73.09	28.36	2,623.69
Estimated Expenditure 01.07.2011 to 29.02.2012	6,534.56	398.45	75.62	7,008.63
Estimated Expenditure 01.03.2012 to 31.03.2012	2,805.43	-	-	2,805.43
Estimated Expenditure 01.04.2012 to 31.03.2013	836.42	-	-	836.42
Estimated Expenditure 01.04.2013 to 31.03.2014	696.55	-	-	696.55
	16,525.59	578.68	39.32	17,143.59

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, Nagpur up to 31-03-2011. The expenditure from 01-04-2011 to 30-06-2011 have been verified from the books of account of the project. The estimated expenditure is based on the details furnished by the management.

Place : NAGPUR
Date : 11-10-2011



Jugal Kishore Puri
JUGAL KISHORE PURI
Cost Accountant
M/3703

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[Signature]
Authorised Signatory
Power Grid Corporation of India Ltd.
Plot No. 2, Sector-29, Gurgaon-122001 (HARYANA)

Summary Sheet

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

POWERGRID CORPORATION OF INDIA LTD.
WESTERN REGION
WRSS XI

Extension of 765/400 kV Bilaspur S/S along with LILCO of Sipat-Seoni ckt-2 with 80 MVAR line reactor and 765/400 kV, 1500 MVA Autotransformer 3 Ant. :DOCO :01-MAR-2012

Sl.No.	Particulars	Form No.	Existing 2008-2009	2009-2010	2010-2011	2011-2012(Pro Rata)	2012-2013	2013-2014
1	2	3	4	5	6	7	8	9
1	Depreciation	FORM-12	0.00			61.14	828.08	867.26
2	Interest on Loan	FORM-13A	0.00			77.90	1,013.07	983.85
3	Return on Equity	FORM-01A	0.00			62.09	840.60	880.80
4	Interest On Working Capital	FORM-13B	0.00			5.58	73.40	75.53
5	O & M Expenses		0.00			32.61	413.65	437.31
6	Total		0.00			239.32	3,168.80	3,244.75

[Signature]
Petitioner

Encl-5



Calculation Of Return On Equity

Name of the Transmission Licensee:

POWERGRID CORPORATION OF INDIA LTD.

Name of Region:

WESTERN REGION


Name of the Project:

WRSS XI

Name of the Transmission Element:

Extension of 765/400 kV Bilaspur S/S along with LLO of Sipat-Seoni ckt-2 with 80 MVAR line reactor and 765/400 kV, 1500 MVA Autotransformer 3 Ant. :DOCO :01-MAR-2012

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				3,841.55	4,683.18	4,934.10	
Notional Equity for Add Cap				841.63	250.93	208.96	
Total Equity				4,683.18	4,934.10	5,143.07	
Return on Equity @ 17.481%				62.09	840.60	880.80	


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:

WRSS XI

Name of the Transmission Element:

Extension of 765/400 kV Bilaspur S/S along with LILO of Sipat-Seoni ckt-2 with 80 MVAR line reactor and 765/400 kV, 1500 MVA Autoformer 3 Ant. :DOCO :01-MAR-2012

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.)	Ant. Date of Commercial operation	Covered in the present petition	Yes/No	If No, petition No.		
1	LILO of Sipat-Seoni II at Bilaspur	AC	S/C	4	765	7.886	01-MAR-2012	Yes	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		Ant. Date of Commercial operation	Covered in the present petition	Yes/No	If No, petition No.	
1	Bilaspur	Conventional	765/400	1 X 1500 MVA ICT III, 240 MVAR Switchable Line Reactor for Seoni II	765 KV	400 KV	220 KV	132 KV & below		Yes		
	Seoni II Bay		765		1					Yes		
	Sipat II Bay		765		1					Yes		
	Line Reactor Bay for Seoni II		765		1					Yes		
	ICT III Bay		765		1					Yes		
	ICT III Bay		400			1				Yes		
Total										4	1	



[Signature]
Petitioner

Normative Parameters considered For tariff calculations

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

POWERGRID CORPORATION OF INDIA LTD.
WESTERN REGION
WRSS XI

Extension of 765/400 kV Bilaspur S/S along with LLO of Sipat-Seoni ckt-2 with 80 MVAR line reactor and 765/400 kV, 1500 MVA Autoformer 3 Ant. :DOCO :01-MAR-2012

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	17.481	17.481		
Tax Rate	%				11.33	11.33	11.33		
Target Availability	%				98.00	98.00	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	15.00	15.00	15.00	
Receivables in Months for WC	months				2.00	2.00	2.00	2.00	
Prime lending Rate of SBI as on 01-APR-2009	%				11.75	11.75	11.75	11.75	
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	468.00	495.00	523.00	553.00			
Rihand-Dadri 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			



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

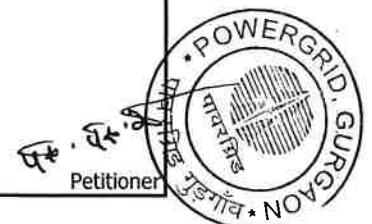
Name of the Transmission Licensee : POWER GRID CORPORATION OF INDIA
Name of Region: WESTERN
Name of the Project : WRSS-XI
Name of Element: Extension of 765/400KV Bilaspur Pooling Station (Near Sipat) alongwith LILO of Sipat- Seoni Ckt 1 with 3*80 MVAR switchable Line Reactors & 1500MVA Auto Transformer #3 under WRSS-XI

Capital Cost Estimates

Board of Director/ Agency approving the Capital cost estimates:	Board of Directors	
Date of approval of the Capital cost estimates:	16th Feb 2009	
	Present Day Cost	Completed Cost
Price level of approved estimates	As of End of 4th Qtr. Of the year 2008	As on Scheduled COD of the System
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)		
Domestic Component (Rs. Cr.)		
Capital cost excluding IDC & FC (Rs. Cr)	378.25	448.57
IDC & FC		
Foreign Component, if any (In Million US \$ or the relevant Currency)		
Domestic Component (Rs. Cr.)		
Total IDC & FC (Rs.Cr.)	31.25	35.02
Rate of taxes & duties considered		
Capital cost Including IDC & FC		
Foreign Component, if any (In Million US \$ or the relevant Currency)		
Domestic Component (Rs. Cr.)		
Total Capital cost Including IDC & FC (Rs. Cr)	409.50	483.58
Schedule of Commissioning		
(Scheduled DOCO elementwise)		
COD of Unit-1/Block-1	1-Mar-12	1-Mar-12
COD of Unit-1/Block-2		
COD of Unit-1/Block-3		
COD of Unit-1/Block-4		

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.



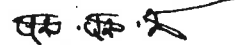
Element wise Break-up of Project Cost for Transmission System

Name of the Transmission Licensee : POWER GRID CORPORATION OF INDIA LTD.
 Name of Region: WESTERN REGION I
 Name of the Project : WRSS-XI
 Name of the Element: Extension of 765/400KV BILASPUR Pooling Station alongwith LILO of Sipat-Seoni Ckt 2
 ANTICIPATED DOCO: 01.03.2012

Sl.No.	Break Down	As per Original Estimate	As on COD Anticipated (01.03.12)	Liabilities / Provision	Variation	Reasons for Variation	Admitted Cost
1	2	3	4	5	6=3-4-5	7	8
A	TRANSMISSION LINE					Major negative variations in the proposed quantities w.r.t. the FR quantities are due to shifting of location of Bilaspur Pooling Station due to stiff resistance from villagers resulting in Reduction in the line length from 60 kms. to 7.886 kms. & accordingly, tower quantity from 170 nos. to 25 nos. for LILO of 765kV S/C Sipat-Seoni Ckt.-II .	
1.0	Preliminary works						
1.1	Design & Engineering						
1.2	Preliminary investigation, Right of way, forest clearance, PTCC , general civil works, compensation etc.	383.50	17.00	0.00	366.50	Forest involvement Nil. Hence cost towards NPV & CA has been reduced. Crop/Tree Compensation also reduced drastically as per actual.	
1.3	Total Preliminary works	383.50	17.00	0.00	366.50		
2.0	Transmission Lines material						
2.1	Towers Steel	4463.93	366.03	58.82	4039.07	Significant negative variation in the quantity. LOA Rates are comparatively less w.r.t. FR.	
2.2	Conductor	2398.67	252.41	0.00	2146.26	Significant negative variation in the quantity. LOA Rates are comparatively less w.r.t. FR.	
2.3	Earth Wire	60.18	6.38	1.03	52.78	Significant negative variation in the quantity.	
2.4	Insulators	784.00	150.90	0.00	633.10	-Do-	
2.5	Hardware Fittings	525.64	64.89	10.43	450.31	-Do-	
2.6	Conductor & Earthwire accessories	115.07	13.94	2.24	98.89	-Do-	
2.7	Spares	0.00	0.00	0.00	0.00		
2.8	Erection, Stringing & Civil works including foundation	1679.21	139.03	54.91	1485.27	Significant negative variation in the actual executed quantity w.r.t. FR.	
2.9	Total Transmission Lines material	10026.69	993.58	127.43	8905.68		
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	10410.19	1010.58	127.43	9272.18		
:: 2 ::							
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	0.00		
4.3	Site preparation	20.00	0.00	0.00	20.00		
	Total Preliminary works & land	20.00	0.00	0.00	20.00		
5.0	Civil Works						
5.1	Control Room & Office Building including HV	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	296.00	818.26	253.81	-776.07	Due to qty variation in structures, as per site requirement and actual Layout as mentioned at para 6 of Petition	
5.5	Misc. civil works	0.00	0.00	0.00	0.00		
	Total Civil Works	296.00	818.26	253.81	-776.07		
6.0	Substation Equipments						
6.1	Switchgear (CT,PT, Circuit Breaker, Isolator etc)	4278.08	2122.86	1054.14	1101.09	variation due decrease in award cost and change in quantity	
6.2	Transformers	12423.71	3821.53	1123.91	7478.27	Variation due to decrease in awarded cost.	
6.3	Compensating Equipment(Reactor, SVCs etc)	6005.99	2335.56	775.27	2895.08	Variation due to decrease in awarded cost.	
6.4	Control , Relay & Protection Panel	432.33	174.18	86.49	171.66	Variation due to decrease in awarded cost.	
6.5	PLCC	172.73	98.26	20.57	53.89	Variation due to decrease in awarded cost.	



6.6	HVDC package	0.00	0.00	0.00	0.00	
6.7	Bus Bars/ conductors/Insulators	369.16	390.57	193.94	-215.36	Major Variation due to Increase in awarded cost.
6.8	outdoor lighting	24.24	11.88	5.90	6.45	
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	711.83	1340.63	665.71	-1294.51	Major Variation due to Increase in qty as per site layout and actual requirement as mentioned at para 6 of Petition
6.12	Auxiliary System	169.33	62.88	31.22	75.23	
	Total Substation Equipments	24587.31	10358.35	3957.16	10271.80	
7.0	Spares (incl.in eqpt. cost)	0.00				
8.0	Taxes and Duties	0.00	0.00	0.00	0.00	
8.1	Custom Duty	0.00	0.00	0.00	0.00	
8.2	Other Taxes & Duties	0.00	0.00	0.00	0.00	
8.3	Total Taxes & Duties	0.00	0.00	0.00	0.00	
	Total (Sub-station)	24903.31	11176.61	4210.97	9515.73	
9.0	Construction and pre-commissioning expenses					
9.1	Site supervision & site admn.etc.	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	2511.00	39.32	0.00	2471.68	As per actual
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	2511.00	39.32	0.00	2471.68	
11.0	Project cost without IDC, FC, FERV & Hedging cost	37824.50	12226.51	4338.40	21259.59	
12.0	Total Cost (Plant & Equipment)					
12.1	Interest During Construction (IDC)	3125.00	578.68	0.00	2546.32	As per actual
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	40949.50	12805.19	4338.40	23805.91	


 Petitioner



Break-up of Construction / Supply / Service packages.

Name of the Transmission Licensee : Power Grid Corporation of India Ltd.
 Name of the Region : Western Region-I
 Name of the project : Western Region System Strengthening Scheme - XI
 Name of the Transmission Element : Extension of 765/400KV Bilaspur Pooling Station alongwith LILO of Sipat-Seoni Ckt 2 with 3*80 MVAR switchable Line reactor and 765/400KV, 1500MVA Auto Transformer# 3 under WRSS-XI
 Anticipated DOCO: 01.03.2012

SL	Scope of works	LOA NO /Package	Date of Award	Start date of work	No of bids received	Whether awarded through Limited / single/ Deposit work	Duration / completion date	Awarded value INR (Cr)		Expenditure excluding Taxes & Duties as on COD	Taxes & duties and IEDC	IDC, FC, FERV & Hedging cost	Sub-total
								US \$ -9	INR -10				
1	2	4		5	6	7	8			18	19	20	21
3	LILO of 765KV Sipat-Seoni 2nd S/C at WR pooling pt - S	C-33902-L068-3/G6/CA-I/3533	25.01.2011	25.01.2011		Open	28.02.2012		8.92	7.94			
4	LILO of 765KV Sipat-Seoni 2nd S/C at WR pooling pt - E	C-33902-L068-3/G6/CA-II/3534	25.01.2011	25.01.2011	13	Open	28.02.2012		1.73	1.66			
5	Extension of 765/400KV substation at Bilaspur - Supply	C-33901-S019A-3/LOA-I/2983	13.03.2009	13.03.2009	3	Open	28.02.2012	SEK=29271371 EURO=1021258		39.14			
6	Extension of 765/400KV substation at Bilaspur - Erection	C-33901-S019A-3/LOA-II/2984	13.03.2009	13.03.2009		Open	28.02.2012		5.45	7.15			
7	Transformer package A - Supply	C-33901-S016-3/CA-I/3175 dated 27.01.10	27.01.10	27.01.10		Open	28.02.2012	EURO=3824458		20.50			
8	Transformer package A -	C-33901-S016-3/CA-II/3176 dated 27.01.10	27.01.10	27.01.10	3	Open	28.02.2012		15.18	7.63			
10	Transformer package A -	C-33901-S016-3/CA-III/3177 dated 27.01.10	27.01.10	27.01.10		Open	28.02.2012		4.67	4.30			
11	Reactor package B - Supply	C-33901R-S017-3/G6/CA-I/3256 dated 15.03.2010	15.03.10	15.03.10		Open	28.02.2012	3,588,122		15.87			
12	Reactor package B - Erection	C-33901R-S017-3/G6/CA-II/3257 dated 15.03.2010	15.03.10	15.03.10	3	Open	28.02.2012	117,953		2.83			
													Petitioner



DETAILS OF ELEMENTWISE COST

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

Name of Region: WESTERN

Name of the Project : WRSS-X

Transmission lines

S.NO.	Name of line	Apportioned approved Cost (Rs. Lacs)	Completed Cost (Rs. Lacs)	Covered in the present petition	
				yes/no	if no, petition no.
1	LILO of 765kV Sipat-Seoni#2 at Bilaspur Pooling Station (Near Sipat)	12071.65	1180.50	Yes	
Total Transmission line cost		12071.65	1180.5		

Substations

S.NO.	Name of Substation	Apportioned approved Cost (Rs. Lacs)	Completed Cost (Rs. Lacs)	Covered in the present petition	
				yes/no	if no, petition no.
1	Extension of 765/400kV Bilaspur Pooling Station(Near Sipat) with 1*1500MVA ICT-3 and 3*80MVAR switchable line Reactors	28,877.85	15,963.09	Yes	
Total Bay cost		28877.85	15963.09		
Total Project cost		40949.50	17143.59		

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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: **WRSS XI**
 Name of the Transmission Element: **Extension of 765/400 kV Bilaspur S/S along with LILO of Sipat-Seoni ckt-2 with 80 MVAR line reactor and 765/400 kV, 1500 MVA Autotransformer 3 Ant. :DOCO :01-MAR-2012**
 Project Cost as on COD/31.03.2009: **12805.19 (Rs. in Lakhs)**
 Date of Commercial Operation of the Transmission element: **01-MAR-2012**

(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	28664.65	INR	8963.00	
Loans - Foreign					
Total Loans		28664.65		8963.00	
Equity					
Foreign					
Domestic	INR	12284.85	INR	3842.19	
Notional				0.00	
Total Equity		12284.85		3842.19	
Debt Equity Ratio		70.00:30.00		70.00:30.00	
Total Cost		40949.50		12805.19	
	Debt	Equity	Total		
Add Cap For 2011-2012			2805.43		
Add Cap For 2012-2013			836.42		
Add Cap For 2013-2014			696.55		
Add Cap For 2011-2012	Actual	Normative			
Debt		1963.80			
Equity		841.63			
Total		2805.43			
Add Cap For 2012-2013	Actual	Normative			
Debt		585.49			
Equity		250.93			
Total		836.42			
Add Cap For 2013-2014	Actual	Normative			
Debt		487.58			
Equity		208.96			
Total		696.55			
Total Capital Cost with ADDCAP upto 01.04.2014			17143.59		

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Statement of Additional Capitalisation after COD

Name of the Transmission Licensee:

Name of Region:

Name of the Project:

Name of the Transmission Element:

COD:

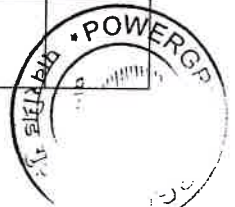
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WESTERN REGION

WRSS XI

Extension of 765/400 kV Bilaspur S/S along with LILLO of Sipat-Seoni ckt-2 with 80 MVAR line reactor and 765/400 kV, 1500 MVA Autotransformer 3 Ant. :DOCO :01-MAR-2012
01-MAR-2012

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 (Rs in Lacs)
		3	4	5	6	7
1.	2011-2012	BUILDING	111.29	Works completed but to be billed after DOCO, balance works, F/R payment, PV, spares, T&D, etc.	9(1)	
		TR LINE	62.92	Works completed but to be billed after DOCO, balance works, F/R payment, PV, spares, T&D, etc.	9(1)	
		SUB STATION	2628.47	Works completed but to be billed after DOCO, balance works, F/R payment, PV, spares, T&D, etc.	9(1)	
		PLCC	2.75	Works completed but to be billed after DOCO, balance works, F/R payment, PV, spares, T&D, etc.	9(1)	
		Total	2805.43			
2.	2012-2013	BUILDING	71.89	Works completed but to be billed after DOCO, balance works, F/R payment, PV, spares, etc.	9(1)	
		TR LINE	64.51	Works completed but to be billed after DOCO, balance works, F/R payment, PV, spares, etc.	9(1)	
		SUB STATION	694.08	Works completed but to be billed after DOCO, balance works, F/R payment, PV, spares, etc.	9(1)	



Statement of Additional Capitalisation after COD

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

POWERGRID CORPORATION OF INDIA LTD.
WESTERN REGION
WRSS XI

Extension of 765/400 kV Bilaspur S/S along with LILO of Sipat-Seoni ckt-2 with 80 MVAR line reactor and 765/400 kV, 1500 MVA Autotransformer 3 Ant. :DOCO :01-MAR-2012
01-MAR-2012

COD:

		(Rs in Lacs)	
	PLCC	5.94	Works completed but to be billed after DOCO, balance works, F/R payment, PV, spares, etc.
		836.42	
3.	BUILDING	70.63	Works completed but to be billed after DOCO, balance works, F/R payment, PV, etc.
	SUB STATION	614.04	Works completed but to be billed after DOCO, balance works, F/R payment, PV, etc.
	PLCC	11.88	Works completed but to be billed after DOCO, balance works, F/R payment, PV, etc.
	Total	696.55	

R. R. S.
Petitioner



Statement of Capital Cost

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

POWERGRID CORPORATION OF INDIA LTD.
WESTERN REGION
WRSS XI

Extension of 765/400 kV Bilaspur S/S along with LIL.O of Sipat-Seoni ckt-2 with 80 MVAR line reactor and 765/400 kV, 1500 MVA Autotransformer 3 Ant. :DOCO :01-MAR-2012

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-MAR-2012- 31-Mar-2012	01-APR-2012- 31-Mar-2013	01-APR-2013- 31-Mar-2014	(Rs. in Crores)
A	a) Opening Gross Block Amount as per books			128.05	156.1	164.46	
	b) Amount of capital liabilities in A(a) above						
	c) Amount of IDC, FC, FERV & Hedging cost included in A(a) above			5.79	5.79	5.79	
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) a			0.39	0.39	0.39	
B	a) Addition in Gross Block Amount during the period			28.05	8.36	6.97	
	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			156.1	164.46	171.43	
	b) Amount of capital liabilities in C(a) above						
	c) Amount of IDC, FC, FERV & Hedging cost included in C(a) above			5.79	5.79	5.79	
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) a			0.39	0.39	0.39	

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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
WRSS XI

Extension of 765/400 kV Bilaspur S/S along with L.I.L.O of Sipat-Seoni ckt-2 with 80 MVAR line reactor and 765/400 kV, 1500 MVA Autotransformer 3 Ant. :DOCO :01-MAR-2012

Financial Year (Starting from COD)	From COD to 31-Mar-2012			Projected/Actual					(Rs in Lacs)				
	2	3	AddCap for 2012-2013	AddCap for 2013-2014	Year4	Year5& So on	Year1	Year2	Year3	Year4	Year5 & so on		
1	2805.43	836.42		4	5	6	7	8	9	10	11		
Amount capitalised in Work/Equipmen t			696.55										
Financing Details													
Loan-1													
Loan-2													
Loan-3 and so on													
Total Loan	1963.80	585.49		487.58									
Equity	841.63	250.93		208.96									
Internal Resources													
Others													
Total	2805.43	836.42		696.55									



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Calculation of Depreciation Rate

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

POWERGRID CORPORATION OF INDIA LTD.
WESTERN REGION
WRSS XI
Extension of 765/400 kV Bilaspur S/S along with LILO of Sipat-Seoni ckt-2 with 80 MVAR line reactor and 765/400 kV, 1500 MVA Autotransformer 3 Ant. :DOCO :01-MAR-2012

(Rs in Lacs)

Sl.No.	Name of the Assets	Gross Block as on 31.03.2011 or as on COD, whichever is later	Addcap during the year	Gross Block as on 31.03.2012 or as on COD, whichever is later	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount up to 31.03.2012
	1	2	3	4	5	6=Col.4 X Col.5
2011-2012						
1	FREEHOLD LAND	0.00	0.00	0.00	0.00%	0.00
2	BUILDING	853.16	111.29	964.45	3.34%	2.53
3	TR LINE	1053.07	62.92	1115.99	5.28%	4.77
4	SUB STATION	10793.47	2628.47	13421.94	5.28%	53.27
5	PLCC	105.49	2.75	108.24	6.33%	0.56
6	LEASEHOLD LAND	0.00	0.00	0.00	3.34%	0.00
	Total	12805.19	2805.43	15610.62		61.14
Weighted Average Rate of Depreciation (%)						0.43
Elapsed Life						0
Sl.No.	Name of the Assets	Gross Block as on 31.03.2012 or as on COD, whichever is later	Addcap during the year	Gross Block as on 31.03.2013 or as on COD, whichever is later	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount up to 31.03.2013
	1	2	3	4	5	6=Col.4 X Col.5
2012-2013						
7	FREEHOLD LAND	0.00	0.00	0.00	0.00%	0.00
8	BUILDING	964.45	71.89	1036.34	3.34%	33.41
9	TR LINE	1115.99	64.51	1180.50	5.28%	60.63
10	SUB STATION	13421.94	694.08	14116.02	5.28%	727.00
11	PLCC	108.24	5.94	114.18	6.33%	7.04
12	LEASEHOLD LAND	0.00	0.00	0.00	3.34%	0.00
	Total	15610.62	836.42	16447.04		828.08
Weighted Average Rate of Depreciation (%)						5.17
Elapsed Life						1
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						
13	FREEHOLD LAND	0.00	0.00	0.00	0.00%	0.00
14	BUILDING	1036.34	70.63	1106.97	3.34%	35.79
15	TR LINE	1180.50	0.00	1180.50	5.28%	62.33
16	SUB STATION	14116.02	614.04	14730.06	5.28%	761.54
17	PLCC	114.18	11.88	126.06	6.33%	7.60
18	LEASEHOLD LAND	0.00	0.00	0.00	3.34%	0.00
	Total	16447.04	696.55	17143.59		867.26
Weighted Average Rate of Depreciation (%)						5.16
Elapsed Life						2

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Statement of Depreciation

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

POWERGRID CORPORATION OF INDIA LTD.
WESTERN REGION
WRSS XI

Extension of 765/400 kV Bilaspur S/S along with L.L.O of Sipat-Seoni ckt-2 with 80 MVAR line reactor and 765/400 kV, 1500 MVA Autotransformer 3 Ant. :DOCO :01-MAR-2012

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												55.06	660.67	660.67	
Depreciation on Additional Capitalisation															
Amount of Additional Capitalisation												2,805.43	836.42	696.55	
Depreciation Amount												6.08	167.41	206.59	
Details of FERV															
Amount of FERV on which depreciation charged															
Depreciation Amount															
Depreciation Recovered during the year												61.14	828.08	867.26	
Advance against Depreciation recovered during the year															
Depreciation and Advance against Depreciation recovered during the year												61.14	828.08	867.26	
Cumulative Depreciation And Advance against Depreciation recovered upto the year												61.14	889.22	1,756.48	



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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: **WRSS XI**
 Name of the Transmission Element: **Extension of 765/400 kV Bilaspur S/S along with LILO of Sipat-Seoni ckt-2 with 80 MVAR line reactor and 765/400 kV, 1500 MVA Autotransformer 3 Ant. :DOCO :01-MAR-2012**

Particulars	(Rs in Lacs)					
	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
BONDS XXXIII						
Gross Loan Opening				800.00	800.00	800.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening				800.00	800.00	800.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing				800.00	800.00	800.00
Average Net Loan				800.00	800.00	800.00
Rate of Interest on Loan		0%	0%	8.64%	8.64%	8.64%
Interest on Loan				69.12	69.12	69.12
BOND-XXXIV						
Gross Loan Opening				972.00	972.00	972.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening				972.00	972.00	972.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing				972.00	972.00	972.00
Average Net Loan				972.00	972.00	972.00
Rate of Interest on Loan		0%	0%	8.84%	8.84%	8.84%
Interest on Loan				85.92	85.92	85.92
BONDS XXXII						
Gross Loan Opening				400.00	400.00	400.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening				400.00	400.00	400.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						33.33
Net Loan Closing				400.00	400.00	366.67
Average Net Loan				400.00	400.00	383.33
Rate of Interest on Loan		0%	0%	8.84%	8.84%	8.84%
Interest on Loan				35.36	35.36	33.89
Bond-XXXV						
Gross Loan Opening				6791.00	6791.00	6791.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening				6791.00	6791.00	6791.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing				6791.00	6791.00	6791.00
Average Net Loan				6791.00	6791.00	6791.00
Rate of Interest on Loan		0%	0%	9.64%	9.64%	9.64%
Interest on Loan				654.65	654.65	654.65
Total						
Gross Loan Opening				8963.00	8963.00	8963.00



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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: **WRSS XI**
 Name of the Transmission Element: **Extension of 765/400 kV Bilaspur S/S along with LILO of Sipat-Seoni ckt-2 with 80 MVAR line reactor and 765/400 kV, 1500 MVA Autotransformer 3 Ant. :DOCO :01-MAR-2012**

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				8963.00	8963.00	8963.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						33.33
Net Loan Closing				8963.00	8963.00	8929.67
Average Net Loan				8963.00	8963.00	8946.33
Interest on Loan				845.06	845.06	843.58
Weighted Average Rate of Interest on Loans				9.4283%	9.4283%	9.4294%


Petitioner



Power Grid Corporation of India Ltd.



Schedule 05A - Secured loans(Contd.)

(Rupees in Crore)
As at 31st March, 2010

Description

BONDS XXIX SERIES

9.20% Taxable, Secured, Redeemable, Non-Convertible, Non-Cumulative Bonds of Rs. 1.50 crore each consisting of 12 STRPP's of Rs. 12.50 lakh each redeemable at par in 12(twelve) equal annual installments w.e.f 12.03.2013

1297.50

Secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti Taluka Kaparada in district Valsad Gujarat and floating charge on the assets of the company.

* Included under Unsecured Loans in previous year due to non completion of legal formalities

BONDS XXX SERIES

8.80% Taxable, Secured, Redeemable, Non-Convertible, Non-Cumulative Bonds of Rs. 1.50 crore each consisting of 12 STRPP's of Rs. 12.50 lakh each redeemable at par in 12(twelve) equal annual installments w.e.f 29.09.2013

2332.50

Secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti Taluka Kaparada in district Valsad Gujarat and floating charge on the assets of the company.

BONDS XXXI SERIES

8.90% Taxable, Secured, Redeemable, Non-Convertible, Non-Cumulative Bonds of Rs. 1.50 crore each consisting of 12 STRPP's of Rs. 12.50 lakh each redeemable at par in 12(twelve) equal annual installments w.e.f 25.02.2014
Secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti Taluka Kaparada in district Valsad Gujarat and floating charge on the assets of the company.

2047.50

BONDS XXXII SERIES

8.84% Taxable, Secured, Redeemable, Non-Convertible, Non-Cumulative Bonds of Rs. 1.50 crore each consisting of 12 STRPP's of Rs. 12.50 lakh each redeemable at par in 12(twelve) equal annual installments w.e.f 29.03.2014
Secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti Taluka Kaparada in district Valsad Gujarat and floating charge on the assets of the company.

1035.00

21171.83

15112.07

ATTESTED TRUE COPY

[Signature]
Authorised Signatory

Power Grid Corporation of India Ltd.
Plot No. 2, Sector 5, Gandhinagar, Gandhinagar, Gandhinagar, Gandhinagar





**NATIONAL STOCK EXCHANGE
OF INDIA LIMITED**

NIFTY 50

Stock of the nation

Ref.: NSE/LIST/ 142567-Y

July 19, 2010

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 - XXXIII) 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-XXXIII), 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 July 19, 2010 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

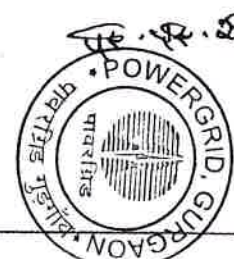
Hari K
Vice President





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 8.64% 2014 (S-XXXIII, STRPP-A)	PT	PGC14	8.64%	24000	8-Jul-2014
2	POWER GRID CORP 8.64% 2015 (S-XXXIII, STRPP-B)	PT	PGC15	8.64%	24000	8-Jul-2015
3	POWER GRID CORP 8.64% 2016 (S-XXXIII, STRPP-C)	PT	PGC16	8.64%	24000	8-Jul-2016
4	POWER GRID CORP 8.64% 2017 (S-XXXIII, STRPP-D)	PT	PGC17	8.64%	24000	8-Jul-2017
5	POWER GRID CORP 8.64% 2018 (S-XXXIII, STRPP-E)	PT	PGC18	8.64%	24000	8-Jul-2018
6	POWER GRID CORP 8.64% 2019 (S-XXXIII, STRPP-F)	PT	PGC19	8.64%	24000	8-Jul-2019
7	POWER GRID CORP 8.64% 2020 (S-XXXIII, STRPP-G)	PT	PGC20	8.64%	24000	8-Jul-2020
8	POWER GRID CORP 8.64% 2021 (S-XXXIII, STRPP-H)	PT	PGC21	8.64%	24000	8-Jul-2021
9	POWER GRID CORP 8.64% 2022 (S-XXXIII, STRPP-I)	PT	PGC22	8.64%	24000	8-Jul-2022
10	POWER GRID CORP 8.64% 2023 (S-XXXIII, STRPP-J)	PT	PGC23	8.64%	24000	8-Jul-2023
11	POWER GRID CORP 8.64% 2024 (S-XXXIII, STRPP-K)	PT	PGC24	8.64%	24000	8-Jul-2024
12	POWER GRID CORP 8.64% 2025 (S-XXXIII, STRPP-L)	PT	PGC25	8.64%	24000	8-Jul-2025





**NATIONAL STOCK EXCHANGE
OF INDIA LIMITED**

NIFTY 50
Stock of the nation

Ref.: NSE/LIST/ 151475-T

November 15, 2010

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 - XXXIV) 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-XXXIV), 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 November 15, 2010 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





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 8.84% 2014 (S-XXXIV, STRPP-A)	PT	PGC14A	8.84%	29062.5	21-Oct-2014
2	POWER GRID CORP 8.84% 2015 (S-XXXIV, STRPP-B)	PT	PGC15A	8.84%	29062.5	21-Oct-2015
3	POWER GRID CORP 8.84% 2016 (S-XXXIV, STRPP-C)	PT	PGC16A	8.84%	29062.5	21-Oct-2016
4	POWER GRID CORP 8.84% 2017 (S-XXXIV, STRPP-D)	PT	PGC17A	8.84%	29062.5	21-Oct-2017
5	POWER GRID CORP 8.84% 2018 (S-XXXIV, STRPP-E)	PT	PGC18A	8.84%	29062.5	21-Oct-2018
6	POWER GRID CORP 8.84% 2019 (S-XXXIV, STRPP-F)	PT	PGC19A	8.84%	29062.5	21-Oct-2019
7	POWER GRID CORP 8.84% 2020 (S-XXXIV, STRPP-G)	PT	PGC20A	8.84%	29062.5	21-Oct-2020
8	POWER GRID CORP 8.84% 2021 (S-XXXIV, STRPP-H)	PT	PGC21A	8.84%	29062.5	21-Oct-2021
9	POWER GRID CORP 8.84% 2022 (S-XXXIV, STRPP-I)	PT	PGC22A	8.84%	29062.5	21-Oct-2022
10	POWER GRID CORP 8.84% 2023 (S-XXXIV, STRPP-J)	PT	PGC23A	8.84%	29062.5	21-Oct-2023
11	POWER GRID CORP 8.84% 2024 (S-XXXIV, STRPP-K)	PT	PGC24A	8.84%	29062.5	21-Oct-2024
12	POWER GRID CORP 8.84% 2025 (S-XXXIV, STRPP-L)	PT	PGC25A	8.84%	29062.5	21-Oct-2025





Ref.: NSE/LIST/ 167336-E

June 8, 2011

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 - XXXV) 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-XXXV), 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 June 8, 2011 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

pm

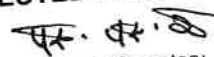




Annexure I
Power Grid Corporation of India Limited
Details of Securities

Sr. No.	Issue Description	Security Type	Security	Issue	Allotment amount (In lakhs)	Maturity date
1	POWER GRID CORP 9.64% 2015 (S-XXXV, STRPP-A)	PT	PGC15	9.64%	16312.5	31-May-2015
2	POWER GRID CORP 9.64% 2016 (S-XXXV, STRPP-B)	PT	PGC16	9.64%	16312.5	31-May-2016
3	POWER GRID CORP 9.64% 2017 (S-XXXV, STRPP-C)	PT	PGC17	9.64%	16312.5	31-May-2017
4	POWER GRID CORP 9.64% 2018 (S-XXXV, STRPP-D)	PT	PGC18	9.64%	16312.5	31-May-2018
5	POWER GRID CORP 9.64% 2019 (S-XXXV, STRPP-E)	PT	PGC19	9.64%	16312.5	31-May-2019
6	POWER GRID CORP 9.64% 2020 (S-XXXV, STRPP-F)	PT	PGC20	9.64%	16312.5	31-May-2020
7	POWER GRID CORP 9.64% 2021 (S-XXXV, STRPP-G)	PT	PGC21	9.64%	16312.5	31-May-2021
8	POWER GRID CORP 9.64% 2022 (S-XXXV, STRPP-H)	PT	PGC22	9.64%	16312.5	31-May-2022
9	POWER GRID CORP 9.64% 2023 (S-XXXV, STRPP-I)	PT	PGC23	9.64%	16312.5	31-May-2023
10	POWER GRID CORP 9.64% 2024 (S-XXXV, STRPP-J)	PT	PGC24	9.64%	16312.5	31-May-2024
11	POWER GRID CORP 9.64% 2025 (S-XXXV, STRPP-K)	PT	PGC25	9.64%	16312.5	31-May-2025
12	POWER GRID CORP 9.64% 2026 (S-XXXV, STRPP-L)	PT	PGC26	9.64%	16312.5	31-May-2026

ATTESTED TRUE COPY


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

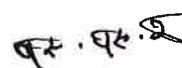


Calculation of Interest on Normative Loan

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **WESTERN REGION**
 Name of the Project: **WRSS XI**
 Name of the Transmission Element: **Extension of 765/400 kV Bilaspur S/S along with LILO of Sipat-Seoni ckt-2 with 80 MVAR line reactor and 765/400 kV, 1500 MVA Autotransformer 3 Ant. :DOCO :01-MAR-2012**

(Rs in Laacs)

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				8,963.64	10,927.44	11,512.94
Cumulative repayment of Normative Loan upto previous year					61.14	889.22
Net Normative loan - Opening				8,963.64	10,866.30	10,623.72
Increase/Decrease due to ACE during the Year				1,963.80	585.49	487.58
Repayments of Normative Loan during the year				61.14	828.08	867.26
Net Normative loan - Closing				10,866.30	10,623.72	10,244.04
Average Normative Loan				9,914.97	10,745.01	10,433.88
Weighted average Rate of Interest on actual Loans				9.4283%	9.4283%	9.4294%
Interest on Normative loan				77.90	1,013.07	983.85


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:

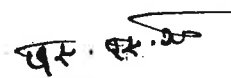
WRSS XI

Name of the Transmission Element:

Extension of 765/400 kV Bilaspur S/S along with LILO of Sipat-Seoni ckt-2 with 80 MVAR line reactor and 765/400 kV, 1500 MVA Autotransformer 3 Ant. :DOCO :01-MAR-2012

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				32.61	34.47	36.44
2	Maintenance Spares				58.70	62.05	65.60
3	Recievables				478.64	528.13	540.79
4	Total Working Capital				569.95	624.65	642.83
5	Rate of Interest				11.75	11.75	11.75
6	Interest on Working Capital				5.58	73.40	75.53

(Rs in Lacs)



Petitioner





भारतीय स्टेट बैंक
State Bank of India

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

Tel.: 23353022 (AGM & COO), 23359506 (A & A), 23352995 (CS), 23352968 (IB)
Fax : 011-23353101 (Sectt.), 23352793 (CS), 23353029 (IB)

Ref. No. :

Date :

TO WHOM IT MAY CONCERN

CERTIFICATE : BASE RATE (BR)

We confirm that the BASE RATE of State Bank of India on the following dates was as under:

Date	Base Rate (% p.a.)
01.07.2010	7.50
01.04.2011	8.25


Assistant General Manager &
Relationship Manager

24.06.2011

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ATTESTED TRUE COPY


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

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: **WRSS XI**
 Name of the Transmission Element: **Extension of 765/400 kV Bilaspur S/S along with LILO of Sipat-Seoni ckt-2 with 80 MVAR line reactor and 765/400 kV, 1500 MVA Autotransformer 3 Ant. :DOCO :01-MAR-2012**

(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	BONDS XXXIII									
	Draw Down Amount									
	IDC									800.00
	Financing Charges									
1.2.2	BONDS XXXII									
	Draw Down Amount									
	IDC									400.00
	Financing Charges									
1.2.3	BOND-XXXIV									
	Draw Down Amount									
	IDC									972.00
	Financing Charges									
1.2.4	Bond-XXXV									
	Draw Down Amount									
	IDC									6791.00
	Financing Charges									
	Total Indian Loans									
	Draw Down Amount									
	IDC									8963.00
	Financing Charges									0.00
	Total of Loans Drawn									0.00
	Draw Down Amount									
	IDC									8963.00
	Financing Charges									578.68
	Total of Loans Drawn									0.00
2	Equity									
2.1	Foreign Equity Drawn									
2.2	Indian Equity Drawn									
	Total Equity Deployed									3842.19
										3842.19

The project has been funded through domestic 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



INDEX

CHECK LIST
PART-III

Name of the Company
Name of the Project :

Power Grid Corporation of India Ltd.
WRSS XI
Extension of 765/400KV Bilaspur Pooling Station (Near Sipat) alongwith LILO of Sipat-Seoni Ckt 1 with 3*80 MVAR switchable Line Reactors & 1500MVA Auto Transformer #3 under WRSS-XI

Name of the Transmission Element:

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

Other Information/ Documents

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 2010-11 shall be submitted shortly
3	Copies of relevant loan Agreements	
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	Equity contribution by GOI (69.42%) and others(30.58%)
6	Copies of the BPTA/TSA with the beneficiaries, if any	Enclosed
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 -

