

BEFORE
THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

PETITION

Under Regulation 86 of CERC (Conduct of Business) Regulations'1999, and CERC
(Terms and Conditions of Tariff) Regulations'2004

For

Determination of final transmission tariff upto DOCO and additional capitalization
from DOCO to 31.03.2009 for

(i) 400 /220 kV Damoh S/S with ICT –I along with associated Bays
(DOCO: 01.09.2008), (ii) 400 /220 kV 315 MVA ICT II along with
associated 400 kV & 220 kV bays at Damoh S/S(DOCO: 01.12.2008) &
(iii) 400 kV 63 MVAR Reactor along with associated 400 kV Bay at
Damoh S/S (DOCO: 01.01.2009) under WRSS – IV Transmission
System in Western Region from DOCO to 31.3.2009.

PETITION NO. :

TARIFF BLOCK : 2004 - 2009

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

FILE NO.:.....

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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'2004 for determination of final transmission tariff upto DOCO and additional capitalization from DOCO to 31.03.2009 for (i) 400 /220 kV Damoh S/S with ICT -I along with associated Bays (DOCO: 01.09.2008), (ii) 400 /220 kV 315 MVA ICT II along with associated 400 kV & 220 kV bays at Damoh S/S(DOCO: 01.12.2008) & (iii) 400 kV 63 MVAR Reactor along with associated 400 kV Bay at Damoh S/S (DOCO: 01.01.2009) under WRSS -- IV Transmission System in Western Region from DOCO to 31.3.2009.

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)
Madhya Pradesh Power Trading Company Ltd.
Shati Bhawan, Rampur
Jabalpur - 482 008
Represented By Its MD
And Others

---PETITIONER

--- RESPONDENTS

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FILED BY

POWER GRID CORPORATION OF INDIA LTD.

REPRESENTED BY

PRASHANT SHARMA

Addl. GENERAL MANAGER (COMMERCIAL)

GURGAON DATED: 31.07.2009

①



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

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Jabalpur - 482 008
Represented By Its MD
And Others

---PETITIONER

--- RESPONDENTS

and Others
To
The Secretary
Central Electricity Regulatory Commission
New Delhi, 110 013

Sir,
The application filed under Regulation 86 of CERC (Conduct of Business) Regulation, 1999 and CERC (Terms and Conditions of Tariff) Regulations'2004 for determination of final tariff and additional capitalization from DOCO to 31.03.2009 may please be registered.

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


PRASHANT SHARMA

Addl. GENERAL MANAGER (COMMERCIAL)

**GURGAON
DATED: 31.07.2009**

(2)



BEFORE THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

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Madhya Pradesh Power Trading Company Ltd. --- RESPONDENTS
Shati Bhawan, Rampur
Jabalpur - 482 008
Represented By Its MD
Represented By Its Chairman

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



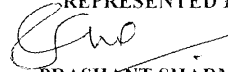
3

VADODARA - 390 007
REPRESENTED BY ITS CHAIRMAN

4. ELECTRICITY DEPARTMENT
GOVT. OF GOA
VIDYUT BHAWAN, PANAJI.
NER 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

PETITIONER
POWER GRID CORPORATION OF INDIA LTD.
REPRESENTED BY



PRASHANT SHARMA
Addl. GENERAL MANAGER (COMMERCIAL)

GURGAON
DATED: 31.07.2009



(4)



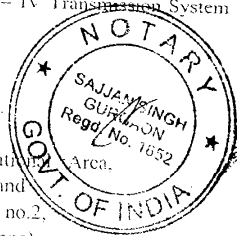


हिसार हिमाचल PTE HARYANA

PETITION NO.: 144A 967220

Approval under regulation-86 of CERC (Conduct of Business) Regulations 1999, and CERC (Terms and Conditions of Tariff) Regulations 2004 for determination of final transmission tariff upto DOCO and additional capitalization from DOCO to 31.03.2009 for (i) 400 /220 kV Damoh S-S with CT -I along with associated Bays (DOC0: 01.09.2008). (ii) 400 /220 kV 315 MVA ICT along with associated 400 kV & 220 kV bays at Damoh S-S(DOC0: 01.12.2008) & (iii) 400 kV 63 MVAR Reactor along with associated 400 kV Bay at Damoh S-S (DOC0: 01.01.2009) under WRSS - IV Transmission System in Western Region from DOCO to 31.3.2009.

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 (Govt. of India undertaking)
 Registered office: B-9, Qutab Institutional Area,
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 Corporate office: "Saudamini", Plot no.2,
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 Skati Bhawan, Rampur
 Jabalpur - 482 008
 Represented By Its MD
 Represented by its Chairman
 and Others



---PETITIONER

--- RESPONDENTS

Affidavit verifying the Petition

Prashant Sharma, S/o Shri P. S. Sahrma, working as Addl. General Manager (Commercial) in the Power Grid Corporation of India Ltd., having its registered office at B-9, Institutional Area, Katwaria Sarai, New Delhi-110 016, do solemnly affirm and say as follows: -



(5)

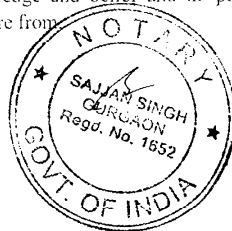
1. I am the Addl. General Manager (Commercial) of Power Grid Corporation of India Ltd., the representative of the Petitioner in the above matter, and am duly authorised to make this affidavit.
2. I submit that the enclosed petition is being filed for determination of tariff for determination of final transmission tariff upto DOCO and additional capitalization from DOCO to 31.03.2009 for (i) 400 /220 kV Damoh S/S with ICT -I along with associated Bays (DOCO: 01.09.2008), (ii) 400 /220 kV 315 MVA ICT II along with associated 400 kV & 220 kV bays at Damoh S/S(DOCO: 01.12.2008) & (iii) 400 kV 63 MVAR Reactor along with associated 400 kV Bay at Damoh S/S (DOCO: 01.01.2009) under WRSS IV transmission System in Western Region from DOCO to 31.3.2009. in accordance with CERC (Terms & Conditions of Tariff), Regulations, 2004.
3. I submit that no other petition except this petition has been filed directly or indirectly for approval of tariff for determination of final transmission tariff upto DOCO and additional capitalization from DOCO to 31.03.2009 for (i) 400 /220 kV Damoh S/S with ICT -I along with associated Bays (DOCO: 01.09.2008), (ii) 400 /220 kV 315 MVA ICT II along with associated 400 kV & 220 kV bays at Damoh S/S(DOCO: 01.12.2008) & (iii) 400 kV 63 MVAR Reactor along with associated 400 kV Bay at Damoh S/S (DOCO: 01.01.2009) under WRSS IV transmission System in Western Region from DOCO to 31.3.2009.
4. The statements made in the 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 document attached with this affidavit are legible copies and are duly attested by me.

[Signature]
(DEPONENT)

VERIFICATION

Solemnly affirmed at Gurgaon on this st day of July 2009 that the contents of the above affidavit are true to my knowledge and belief and no part of it is false and nothing material has been concealed there from.

ATTESTED
[Signature]
(SAJJAN SINGH)
ADVOCATE & NOTARY
GURGAON (HARYANA)



[Signature]
(DEPONENT)



4

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

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---PETITIONER

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

--- RESPONDENTS

To

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

MOST RESPECTFULLY SHOWETH

- 1.0 The Petitioner herein, Power Grid Corporation of India Ltd. is a Government Company within the meaning of Companies Act,1956. 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.
- 2.0 That, Hon'ble Commission have notified CERC (Terms and Conditions of Tariff) Regulations. 2004, in accordance with which tariff based on capital cost of the transmission projects shall be determined. These Regulations have come in to force on 1.4.2004 and shall remain in force for a period of 5 years unless reviewed earlier or extended by the Hon'ble Commission.

(7)



- 3.0 That the Investment approval for the scheme was accorded by POWERGRID Board vide Memorandum No. C/CP/WRSS-IV dated 19.04.2006 for an estimated cost of Rs 97.22 crores, including an IDC of Rs 4.41 crores (at 4th quarter, 2005 price level), a copy whereof is attached hereto as Encl.-1, page..13..to..16.. The Schematic diagram of the transmission scheme is attached hereto as Encl. - 2. (page 17..to...19..).

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

Substation

- i) 400-220 kV Substation at Damoh

As per the investment approval accorded by POWERGRID Board vide their letter dated 19.04.2006, the project was scheduled to be commissioned within 28 months from the date of issue of letter of award for sub-station package (which is 20.04.2006) i.e. by August 2008.

- 4.0 That the proposal for the above system indicated at clause 3.0 above in Western Region was approved by WR constituents during 3rd WRPC meeting held on 28.02.2007 for inclusion in the existing BPTA dated 31.03.1999 of WR under WRSS IV scheme which was taken out from the earlier proposed scheme under WRSS II, a copy whereof is attached hereto as Encl.- 3, Page 20..to...22.
- 5.0 That the present petition covers determination of final transmission tariff for the following three assets upto DOCO and additional capitalization from DOCO to 31.03.2009. The details of the CERC orders for the provisional tariff is also given for these assets:

S.No	Asset	Schedule completion as per FR	DOCO	Remarks	Status of filing of Petition for provisional tariff
1.	400-220 kV Damoh S/S with ICT -I along with associated Bays	Aug. 2008	01.09.2008	No delay	Order dated 20.05.2009 in Pet. No. 82-2009
2.	400-220 kV 315 MVA ICT II along with associated 400 kV & 220 kV bays at Damoh S.S	Aug. 2008	01.12.2008	03 months delay	
3	400 kV 63 MVAR Reactor along with associated 400 kV Bay at Damoh S/S	Aug. 2008	01.01.2009	04 months delay	

Copy of letters of commercial operation of these assets (Sl. No 01 to 03 above) is enclosed herewith as Encl- 4 (page 23..to..26).

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- 5.1 Hon'ble commission vide order dated 20.05.2009 in petition no : 82/2009 allowed annual transmission charges on provisional basis for all the asset mentioned from SI No. (1) to (3) above and also directed the petitioner to file fresh petition for approval of final tariff in accordance with the commission's regulations by 31.07.2009. Hon'ble commissions order dated 20.05.2009 in petition no 82/2009 are attached hereto as **Encl.-5, page.27..to...29**. Hon'ble commission directed to file a Certificate, duly signed by the Auditor's certifying the loan details duly reconciled with audited accounts for the year 2008-09 at the time of filing of petition for approval of final tariff.

Auditor's certificate is attached with form 13 of tariff calculations.

5.2 **Reasons for Delay**

Main reason for delay in project was considerable holdup by Madhya Pradesh (M.P.) Govt. Authorities in handing over physical possession of land for Damoh Sub-station, which could finally be acquired in the month of July 2006. Further, due to commencement of rainy season subsequent to possession of land in July'06, site leveling activities were delayed and the same was completed by Dec. 2006. The initial delay over 4 months on account of Land Acquisition and the monsoon thereafter may be construed as 'Force-Majeure', POWERGRID's all out effort and efficient Project Management led to commissioning of ICT-I at Damoh Sub-station on 26/08/2008, in spite of the problems of oil filling activity during the monsoon period. This ICT is declared in Commercial Operation w.e.f. 01.09.2008 in line with the investment approval schedule.

ICT-II and Bus Reactor were commissioned thereafter and declared in Commercial Operation w.e.f. 01.12.2008 and 01.01.2009. Considering the initial delay of 4 months beyond the control of POWERGRID, this delay in commissioning of part of the S.s may be treated as "Force-Majeure".

- 6.0 The details of the Commissioning of the assets mentioned at Para 5 above are as under:
- 6.1 400/220 kV Damoh S/S with ICT -I along with associated Bays (DOCO: 01.09.2008)
- 6.1.1 This element was declared under commercial operation w.e.f. 01.09.2008 which is within schedule as per investment approval of Aug.'2008. The DOCO of 01.04.08 of Sipat I system was intimated to all the members of WR in 8th WRPC meeting held on 12.09.2008.
- 6.1.2 That for the elements commissioned w.e.f. 01.09.2008 of WRSS IV transmission System, as against the apportioned approved cost as per investment approval of Rs 4926.24 lakhs, the actual expenditure up to DOCO is Rs 4145.25 Lakhs, exp. from DOCO to 31.3.2009 is Rs. 11.11 and the balance estimated expenditure is Rs 349.64 Lakhs, thus making the total estimated completion cost as Rs 4506.00 Lakhs. Hence, the actual estimated expenditure is within apportioned approved cost. The reasons for item wise cost variation between apportioned approved cost as per FR and actual cost are explained in detail in Form 5B. A copy of auditor's certificate in respect of the asset covered in this petition is enclosed herewith as **Encl-6 (page³⁰ to 35)**.

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6.2 **400 /220 kV 315 MVA ICT II along with associated 400 kV & 220 kV bays at Damoh S/S (DOCO: 01.12.2008)**

6.2.1 This element was declared under commercial operation w.e.f. 01.12.2008 which is delayed by 03 months against the schedule commissioning as per investment approval of Aug.'08. The reasons for delay is as given in para 5.2 above. The DOCO of 01.04.08 of system was intimated to all the members of WR in 9th WRPC meeting held on 16.01.2009.

6.2.2 For the elements commissioned w.e.f. 01.12.2008, as against the apportioned approved cost as per investment approval of Rs 2529.96 lakhs, the actual expenditure up to DOCO is Rs 1256.12 Lakhs, exp. from DOCO to 31.03.2009 is Rs. 10.56 lakhs and the balance estimated expenditure is Rs 647.67 Lakhs, thus making the total estimated completion cost as Rs 1914.35 Lakhs. Hence, the actual estimated expenditure is within the apportioned approved cost. The reasons for item wise cost variation between apportioned approved cost as per FR and actual cost are explained in detail in Form 5B. A copy of auditor's certificate in respect of the asset covered in this petition is enclosed herewith as Encl-6 (page 30 to 35).

6.3 **400 kV 63 MYAR Reactor along with associated 400 kV Bay at Damoh S/S (DOCO: 01.01.2009)**

6.3.1 This element was declared under commercial operation w.e.f. 01.01.2009 which is delayed by 04 months against the schedule commissioning as per investment approval of Aug.'08. The reasons for delay is as given in para 5.2 above, however, it is well within the approved schedule as per RCE of March'2008. The DOCO of 01.01.09 of WRSS IV system was intimated to all the members of WR in 9th WRPC meeting held on 16.01.2009.

6.3.2 For the elements commissioned w.e.f. 01.01.2009, as against the apportioned approved cost as per investment approval of Rs 2265.50 lakhs, the actual expenditure up to DOCO is Rs 1831.01 Lakhs, exp. from DOCO to 31.3.2009 is Rs. 0.91 lakhs and the balance estimated expenditure is Rs 370.27 Lakhs, thus making the total estimated completion cost as Rs 2202.19 Lakhs. Hence, the actual estimated expenditure is within the apportioned approved. The reasons for item wise cost variation between apportioned approved cost as per FR and actual cost are explained in detail in Form 5B. A copy of auditor's certificate in respect of the asset covered in this petition is enclosed herewith as Encl-6 (page 30 to 35).

7.0 **TRANSMISSION TARIFF**

7.1 The tariff for block 2004-2009 has been worked out as per CERC (Terms and Conditions of Tariff) Regulations, 2004, issued vide notification dated. 26.03.2004. In the present petition the transmission tariff for the elements has been calculated taking actual expenditure upto DOCO and additional capitalization from DOCO to 31.03.2009. The relevant information and the calculations for working out the tariff along with supporting documentation (Form No.:1 to 16) are attached hereto as Encl. - 07, page 36 to 39 .

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- 7.2 The annual transmission tariff for the tariff period from DOCO to 31.03.2009 is summarized as below:

(Rs in Lacs)

Trans. Elements of WRSS-IV	Annual Transmission Charges
	2008-09 (pro rata)
400/220 kV Damoh S/S with ICT -I along with associated Bays (DOCO: 01.09.08)	436.24
400 /220 kV 315 MVA ICT II along with associated 400 kV & 220 kV bays at Damoh S/S (DOCO: 01.12.2008)	107.50
400 kV 63 MVAR Reactor along with associated 400 kV Bay at Damoh S/S(DOCO: 01.01.09)	75.27

- 7.3 The Tariff indicated at para 7.2 above, is exclusive of Income Tax, Incentive, late payment surcharge, 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 charges for 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. The Petitioner will also be entitled to recover the filing fees as per directions of CERC.
- 7.4 The tariff at para 7.2 above is inclusive of Return on Equity, Interest on Loan, Depreciation, O&M expenses, Interest on Working Capital and Advance Against Depreciation. O&M expenses have been derived based on the norms for O&M expenses per Ckt. Km. and per Bay as specified under regulation 56(iv). These unit rates have been arrived by the Hon'ble Commission based on the actual O&M expenses during the year 1998-99, 1999-2000, 2000-2001, 2001-2002 & 2002-2003. The employee cost as included in the actual O&M expenses is based on the wage revision implemented w.e.f. 1.1.97 and the normal escalation by way of DA. It is submitted that the wage revision of the employees of the petitioner company is due w.e.f. 1.1.2007. The O&M expenses claimed in the transmission charges at 7.2 above are subject to adjustment on account of the additional employee cost which becomes payable after wage revision, which is due w.e.f. 1.1.2007. Alternatively, the increase in the employee cost due to wage revision w.e.f. 1.1.2007 may be allowed as per actuals, based on the auditor's certificate for such extra employee cost.
- 7.5 **Sharing of Transmission Charges**
- That the transmission tariff for block 2004-2009 shall be borne by all the constituents of Western Region in terms of CERC regulation 2004 dated 26.3.2004 issued by Hon'ble Commission.
- 8.0 In the circumstances mentioned above it will be just and proper that the transmission tariff and charges for the assets covered under this petition be allowed to be charged from the Respondents on the basis set out in para-7.5 above. The petitioner submits that the Encl.-1 to Encl.-8 may please be treated as integral part of this petition.

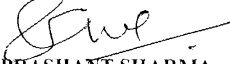
(11)



PRAYER

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

- a) approve Additional capitalization for the assets covered in the petition from DOCO to 31.03.2009.
- b) approve the final transmission tariff for the assets upto DOCO including additional capital expenditure from DOCO to 31.03.2009 covered under this petition. as per para -7 above.
- c) approve the reimbursement of expenditure by the beneficiaries towards petition filing fee, License fee publishing of notices in newspapers and other expenditure (if any) in relation to the filing of petition.
- d) Pass such other relief as Hon'ble 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

PRASHANT SHARMA
Addl. GENERAL MANAGER (COMMERCIAL)

GURGAON
DATED: 31.07.2009



पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड

(भारत सरकार का उद्यम)

POWER GRID CORPORATION OF INDIA LIMITED

(A Government of India Enterprise)



पावरग्रिड

केंद्रीय कार्यालय "सौदामिनी" प्लॉट नं. 2, सेक्टर-29, गुरुगाँव-122 001, हरियाणा

फोन: 2571700-719, फैक्स: 2571760, 2571761 ग्राम: कर्मपुर

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-IV

Date: April 19, 2006

MEMORANDUM

SUB: INVESTMENT APPROVAL FOR WESTERN REGION STRENGTHENING SCHEME- IV (WRSS-IV).

The Board of Directors of POWERGRID, in exercise of powers delegated to it by the Government of India through its O.M. No. 11/36/97-FIN dated 9.10.1997 (modified subsequently through Office Memorandum No. 18 (24)/2003-GM-GL.65 dated August 05, 2005 from Department of Public Enterprises, Ministry of Heavy Industries and Public Enterprises), have accorded investment approval for **Western Region Strengthening Scheme-IV**, in its 178th meeting held on 27th March, 2006, as per the details, given below :

Project Scope

Substation: 400/220 kV Substation at Damoh

Project Cost & Funding

Estimated cost of the project is Rs. **97.22 Crore** including an IDC of Rs. 4.41 Crore (at 4th quarter 2005 price level). Abstract cost estimate is enclosed at Annexure-I.

The project is proposed to be implemented through domestic borrowings / bonds and POWERGRID's Internal Resources (IR) with Debt: Equity ratio of 70:30.

Implementation Schedule

The project is scheduled to be commissioned within 28 months from the date of issue of letter of award for substation package.

This is issued in pursuance of the minutes of meeting of the 178th meeting of Board of Directors held on 27th March, 2006.

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(Sathish Kumar J.)

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

Manager (CP)

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

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Distribution:

ED : OS / MM / BDD / CMG / Telecom & R&D / Comml / LD&C & IT / Engg. &
QA&I / PI & IA / DMS / HR / SO/ CS / NR-I / NR-II / NER / WR /SR-I /
SR-II / NRLDC

GM (I/C) : ER-I/ ER-II

GM : Law / Engg.-TL/ Engg.-SS / CMG / OS / Comml./ Fin./ ERLDC./
NERLDC./WRLDC./SRLDC.

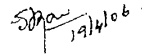
AGM : ESMD / QA & I / SEF

DGM : Cost Engg / CC

Copy for kind information please:

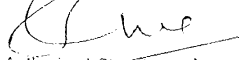
Director : Personnel / Operations / Projects / Finance

CVO



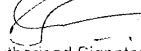
(Sathish Kumar J.)
Manager (CP)

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

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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. Chairman, CEA, R.K.Puram, New Delhi –66
4. Chairman, Maharashtra State Electricity Board, Hongkong Bank Bldg 4th Floor MG Road, Fort, Mumbai –400051.
5. Chairman, Madhya Pradesh State Electricity Board, Shakti Bhawan, PB No.34, Rampur, JABALPUR-482008.
6. Chairman, Gujarat Electricity Board, Vidyut Bhawan, Race course, BARODA, Gujarat.
7. Secretary (Power), Vidyut Bhawan, Near Mandvi Hotel, Panaji, Goa-403001.
8. Chairman, Chhattisgarh State Electricity Board, PO – Sundarnagar, Dangania, Raipur, Chhatisgarh – 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, WREB, MIDC Area, Marol, Andheri East, Mumbai –400 094
12. Advisor, PAMD, Planning Commission, Yojana Bhawan, New Delhi.
13. Member Secretary, Planning Commission, Yojana Bhawan, New Delhi
14. Member (Power Systems), CEA, R.K.Puram, New Delhi –66
15. Secretary, CEA, Sewa Bhawan, R.K.Puram, New Delhi-66 (3 Copies)
16. Addl. Secretary, MoP, Shram Shakti Bhawan, New Delhi-110 001
17. Joint Secretary & Financial Advisor, MOP, Shram Shakti Bhawan, New Delhi
18. Joint Secretary (Trans.), MOP, Shram Shakti Bhawan, New Delhi
19. Director (Trans.), MOP, Shram Shakti Bhawan, New Delhi-110 001
20. Joint Secretary (Plan Finance Div.-II), Ministry of Finance, New Delhi
21. Director, Ministry of Finance (Plan Finance-II Div.), North Block, New Delhi
22. Joint Secretary, Ministry of Statistics & Programme Implementation, Sardar Patel Bhawan, New Delhi.
23. Deputy Secretary, Cabinet Secretariat, Rashtrapati Bhawan, New Delhi
24. Under Secretary, Finance & Budget Section, MoP, New Delhi

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Power Grid Corporation of India Ltd.
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(13)

(Sathish Kumar J.)
Manager (CP)

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ANNEXURE - I

ABSTRACT COST ESTIMATE
(BASE COST)
WESTERN REGION STRENGTHENING SCHEME - IV

(Cost updated to 4th Qtr. 2005 price level)

Sr. No.	DESCRIPTION	AMOUNT (Rs. in Crs.)
A	Preliminary & Civil Works	0.06
B	Land & Compensation	1.28
C	<u>Civil Works</u>	
	i) Infrastructure	6.24
	ii) Buildings	2.70
	iii) Colony	9.49
D	<u>Equipment Cost</u>	
	a) Trans.Lines	0.00
	b) Sub-Stations	64.21
Sub Total (D)		64.21
E	Misc. Tools & Plants (@ 1% of D)	0.64
F	Maintenance during construction (@ 1% of D)	0.64
G	Engg. & Administration (@ 8.5% of D)	5.46
H	Losses on Stock (@ 0.25% of D)	0.16
I	Contingencies (@ 3% of D)	1.93
Sub Total (A to I)		92.81
J	Interest During Construction(IDC)	4.41
GRAND TOTAL		97.22

Note: 1. Loan has been assumed to be available from Domestic Sources
2. Interest rate on Loan has been considered @ 8.0%
3. Debt Equity ratio has been considered as 70:30

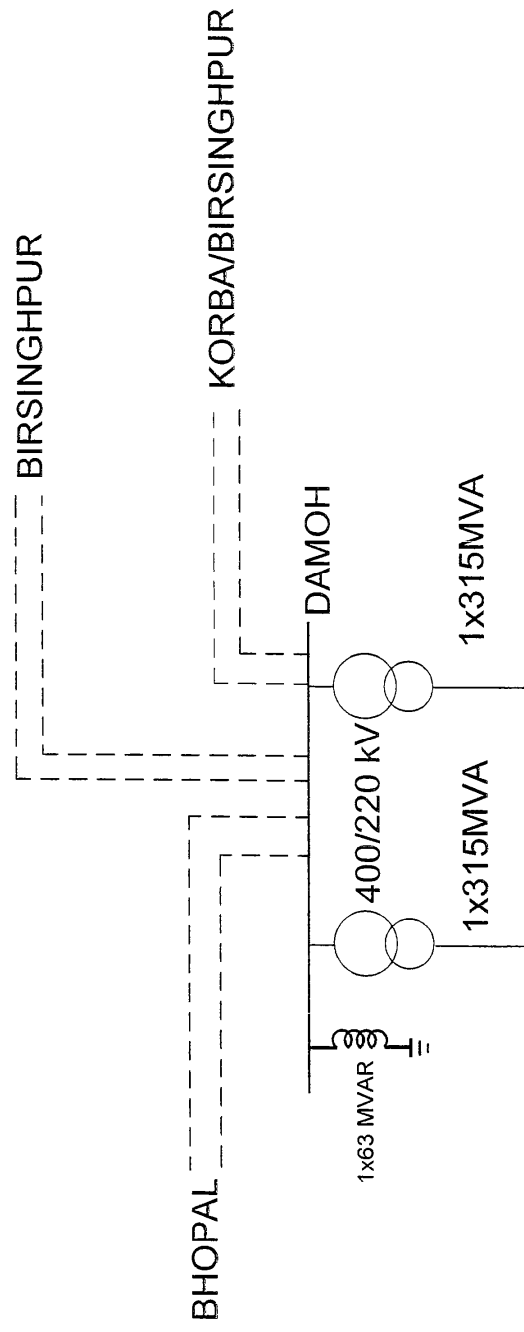
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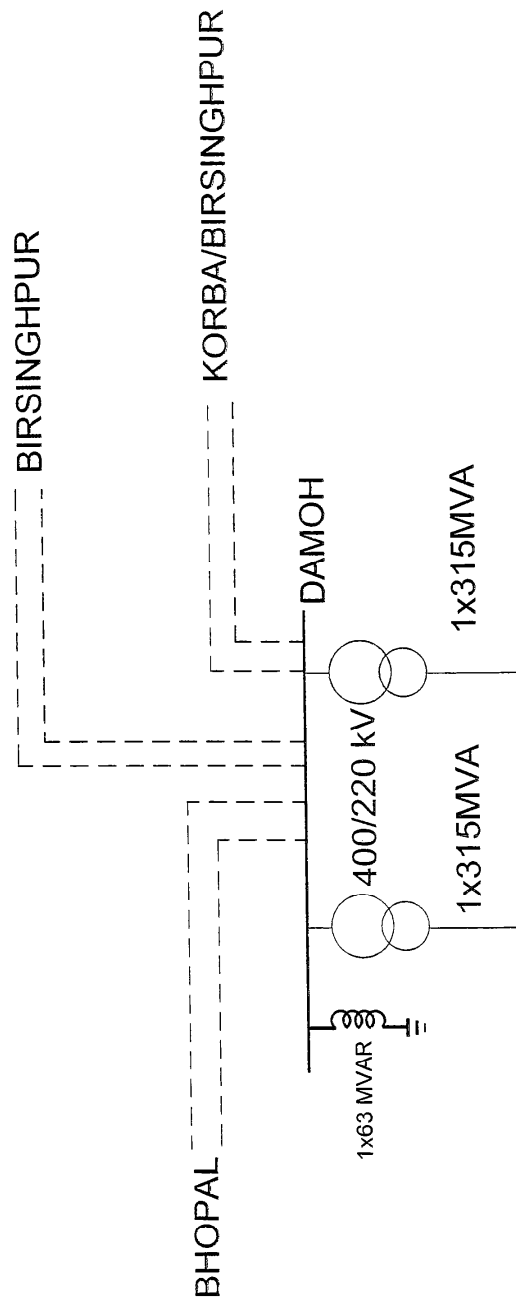
400/220kV Damoh S/S WITH ICT-1 OF WRSS-IV TRANSMISSION SYSTEM



———— THE PROJECT

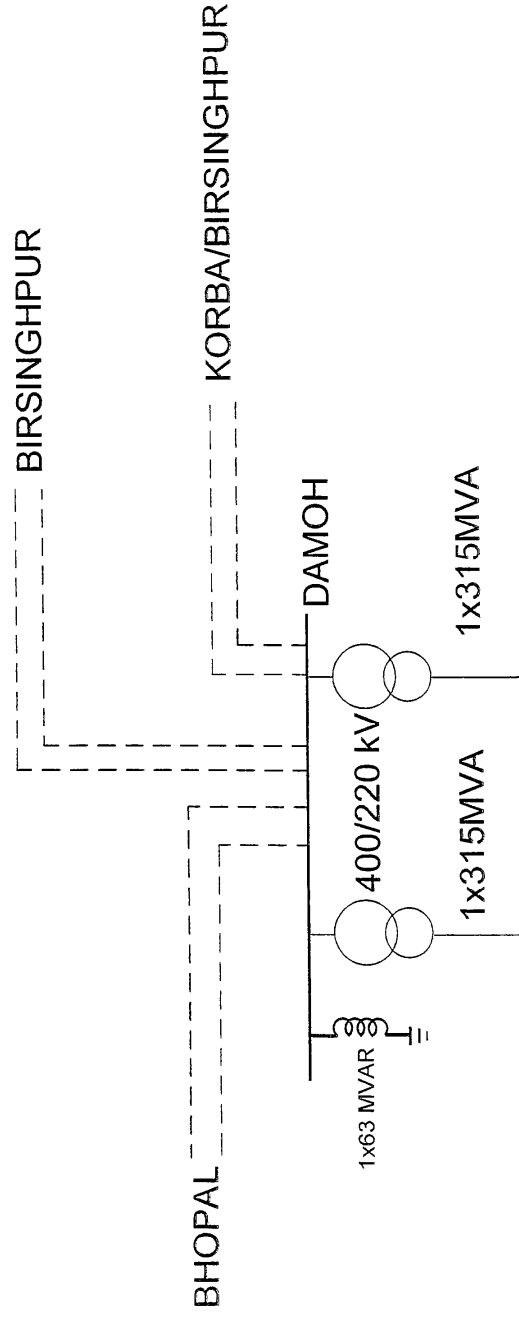
ICT-II ALONG WITH ASSOCIATED BAYS AT DAMOH SIS UNDER

WRSS-IV TRANSMISSION SYSTEM



———— THE PROJECT

63 MVAR BUS REACTOR ALONG WITH BAYS AT DAMOH S/S
UNDER WRSS-IV TRANSMISSION SYSTEM



THE PROJECT



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

Western Regional Power Committee

प्लॉट नं. 2, सेक्टर-25, गुडगाँव (पूर्व), मुंबई - 400 093

1-3, MIDC Area, Andheri (East), Mumbai - 400 093

दूरभाष Phone: 022- 28221636; 28200194; 28200195; फ़ैक्स Fax : 022 - 28370193

Website : www.wrpc.nic.in E-mail : ms-wrpc@nic.in



आई एस ओ : 9001-2000

ISO : 9001-2000

सं. : राहा.सचि./कार्य./पक्षेविस/2006-07/ 2741
No : A.S./Min/WRPC/2006-07/

दिनांक: 27.03.2007
Date:

सेवा में / To

(संलग्न सूची के अनुसार)
(As per enclosed list)

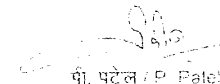
विषय: 28 फरवरी 2007 को मुंबई में आयोजित पश्चिम क्षेत्रीय विद्युत समिति की तृतीय बैठक का कार्यवृत्त ।
Sub: Minutes of the 3rd meeting of Western Regional Power Committee held on 28th February 2007 at Mumbai

महोदय / Sir

इस पत्र के साथ दिनांक 28 फरवरी 2007 को मुंबई में आयोजित की गई पश्चिम क्षेत्रीय विद्युत समिति की तृतीय बैठक का कार्यवृत्त संलग्न है ।

Please find enclosed herewith the minutes of 3rd meeting of Western Regional Power Committee held at Mumbai on 28th February 2007.


भारतीय / Yours faithfully,


पी. पटेल / P. Patel

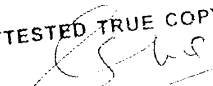
सदस्य सचिव / Member Secretary

आवक नं. / आगमन संख्या / Receipt No. : 2741/2007

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Plot No. 2, Sector-25, Gurgaon-122001 (HARYANA)

(20)

connecting cable at an estimated cost of Rs.26 lakhs. WRLDC had proposed to book the same under SC&C project WR.

This was discussed during the TCC meeting held on 27th Feb. 2007 and the TCC recommended for its approval. WRPC Committee accorded their approval for the same.

16.2 Special Protection scheme:

Member Secretary I/c, WRPC stated that in the 2nd meeting of WRPC held on 12th October 2006 a Special Protection Scheme i.e. run back of ER generating stations in the context of synchronous interconnection of NR grid with Central (WR-ER-NER) grid was discussed. The Committee had observed that tripping of ER-NR A.C. link might cause serious overloading of EHV lines in WR Grid and consequent insecurity. It was suggested that the issue may suitably be addressed to ERPC for doing the needful. Accordingly, the WRPC Secretariat took up the matter with ERPC.

GM, WRLDC expressed urgency in finalization of the Special Protection Scheme as the same is essentially required for the secured grid operation.

Member Secretary I/c, WRPC informed the Committee that the ERPC had deliberated the above proposal in their forum. While intimating C.E.A. vide letter dated 26.2.2007, ERPC has expressed apprehensions that if proposition suggested by WRPC is acted upon, there would be backing down at some stations in ER on tripping of ER-NR A.C. link which may result overloading of existing 400 kV Jamshedpur-Rourkela D/C line in ER and may require load shedding to the consumers in ER and has requested C.E.A. that Special Protection Scheme may be prepared by C.E.A. considering the overall aspect of grid security and future planning of the entire (NER-ER-WR-NR) grid.

WRP Committee discussed the matter and the desired that the finalisation of Special Protection Scheme by C.E.A. requires to be expedited at the earliest as implementation of this scheme would greatly reduce the risk of major grid disturbances in the combined grid. The Committee requested Member (GO & D), CEA to kindly intervene in the matter and arrange to get the needful done.

(Action: CEA/WRPC)

16.3 Pooling of transmission charges of DAMOH substation in the transmission system of WR

Chief Engineer, MP Power Trading Company stated that WRSSS-V transmission scheme have been carved out of the works of transmission system associated with Kawas-II so as to cater the requirement in Mumbai and nearby areas and the constituents of WR have agreed to pool the cost. In the view above, MPPTCL suggested that the decision regarding sharing of transmission charges of Damoh substation, which has been preponed, may be reviewed by the beneficiaries of WR on the similar lines. MPPTCL also intimated that they raised the matter during recent Standing Committee of

State of Maharashtra

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

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Power system planning of WR held on 23rd Feb. 2007. In the meeting, it was suggested that MPPTCL may take up this matter in WRPC meeting for pooling of transmission charges of Damoh substation.

TCC in the meeting held on 27th Feb. 2007 had deliberated the matter and recommended for pooling of transmission charges of Damoh substation in the transmission system of WR in the same manner the transmission charges of WRSSS-V (carved out of transmission scheme associated with Kawas-II) has been agreed to be shared by all the beneficiaries of WR.

Chairman, WRPC/MPPTCL stated that the Standing Committee on Power System Planning in WR early decided for establishment of 400/220 kV sub-station at Damoh to be taken up on a priority basis as an independent system strengthening scheme WRSS-IV which has been taken out from the earlier proposed WRSS-II scheme.

The WRP Committee discussed the matter and agreed to pool the transmission charges of establishment of 400/220 kV sub-station at Damoh (WRSSS-IV).

16.4 Grant of long term open access for transfer of 400 MW DVC power through ER-WR existing corridor

16.4.1 Member Secretary I/c. WRPC, stated that Chief Engineer (Comml.), MP Power Trading Company Ltd. during the TCC meeting held on 27th February 2007 intimated that they had made application for grant of long term open access of 400 MW power to Madhya Pradesh from proposed generation project of DVC at Mejia (2 x 250 MW) in West Bengal and Chandrapura (2x250 Mw) in Jharkhand. MPPTCL said that during the discussions in 26th standing committee of power system planning of WR held on 23rd Feb. 2007 PGCIL (CTU) was not agreeable to grant long-term open access for transfer of 400 MW through the existing ER-WR corridor stating that adequate reliability and operational margins are to be kept. MP added that 400 kV Rourkela-Raipur D/C line was constructed for evacuation of the surplus power available in the Eastern region to WR and the beneficiaries of WR are sharing the cost of this link including cost of series compensation scheme. The matter was discussed during the TCC meeting held on 27th Feb. 2007 and the Committee had opined that in case adequate availability margin is existing, the grant of open access by CTU to MP as desired could be considered, as long term customers have priority over short term customers.

16.4.2 Chief Engineer (Comml.), MP Power Trading Company Ltd. stated that DVC project in ER are coming up in June 2007 and considering the present level of allocation i.e. 230 MW made WR constituents from NTPC stations in ER, there is sufficient balance capacity available in 400 kV Rourkela-Raipur D/C line to import 400 MW of power. This import in turn will help WR to mitigate shortages and improve grid stability in the region as well.

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

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Plot No. 2, Sector-29, Gurgaon-122001 (HARYANA)

22

→ Sh. B. Niranjan, Ch. Mgr (Coml.)
पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड

POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)



पावर ग्रिड
जय.प्र.सं.अं. 9001 : 2000 प्रमाणित कंपनी - I.S.C. 9001 : 2000 Certified Company
पांचवां व छठां तल, वुडा भवन, करेलबाग, वडोदरा - 390018 (गुजरात)
5th & 6th Floor, VUDA Bhavan, Karelbaug, Vadodara - 390018 (Gujarat)
दूरभाष/Phone: (0) 0265-2488594, फैक्स/Fax: 0265-2488564
पश्चिम क्षेत्र पररेषण प्रणाली-II, क्षेत्रीय मुख्यालय
Western Region Transmission System - II, Regional Headquarters

NO. WR-II/COMML/3001

Date : 01.09.2008

Enclosed distribution list

Commercial Declaration of various Lines / Bays / Equipments under WR-II

Dear Sir,

We are pleased to inform that the 400 / 220 KV Damoh Sub-station with ICT-I only, alongwith associated 400 KV bays, 220 KV Bays, Line Reactors, Line Bays, Bus coupler and Bus Transfer bays have been commissioned and put into commercial operation with effect from 1st Sept. 2008.

Accordingly, the monthly transmission charges for these elements / systems shall be payable by concerned WR constituents from 01.09.2008

Thanking You

Yours faithfully,

(A.K.Datta)
Executive Director, WR-II

Distribution :

- Member Secretary, WRPC, Mumbai
- Chairman, MPSEB, Jabalpur
- Managing Director, MPSEDL, Mumbai
- Chairperson, GUVNL, Baroda
- Chairman, CSEB, Raipur
- Chief Engineer, COA Electricity Department, Panjir
- Executive Engineer, Electricity Department, Dty & Damar, Mohi Daman, Daman
- Chief Engineer, Electricity Department, Dadra & Nagar Haveli, Silvassa.

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Power Grid Corporation of India Ltd.
Plot No. 2, Sector-29, Gurgaon-122 001 (HARYANA)

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

Date: 01/09/2008

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93

POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

पावर ग्रीड

अप.एस.अं. 9001 : 2000 प्रमाणित कंपनी - I.S.O. 9001 : 2000 Certified Company

पांचवां व छठा तल, वुडा भवन, करेलीबाग, वडोदरा - 390018 (Gujar)
5th & 6th Floor, VUDA Bhavan, Karelibaug, Vadodara - 390018 (Gujar)
दूरभाष/Phone: (O) 0265-2487594, फैक्स/Fax: 0265-24881

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

Ref : WR-II/VDR/COMML/

Date : 04.11.2008

To,
As per distribution list below and enclosed

Sub: Commercial declaration of Substation / Bays / Equipment under WR -II -
Corrigendum

Your kind attention is invited to our letter Ref. No. WR-II / COMML / 3001 Dtd. 01.09.2008 pertaining to the subject. While declaring the commercial operation of 400 / 220 kV Damoh Substation with ICT - I only, along with associated Bays and Reactors, with effect from 1st September 2008, the Project under which the above were commissioned was not mentioned inadvertently. However, it is to mention that the above elements are under Western Region Strengthening Scheme - IV Project (WRSS -IV Project). The same may kindly be noted.

Thanking You.

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[Signature]

(A K Datta)
Executive Director, WR-II

Distribution :

1. Member Secretary, WRPC, Mumbai
2. Chairman, MPSEB, Jabalpur
3. Managing Director, MSEDCL, Mumbai
4. Chairperson, GUVNL, Vadodara
5. Chairman, CSEB, Raipur
6. Chief Engineer, GOA Electricity Department, Panjim
7. Executive Engineer, Electricity Department, Diu & Damoh, Gujarat
8. Executive Engineer, Electricity Department, Dadar, Gujarat

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[Signature]
Authorized Signatory
Power Grid Corporation of India Ltd.
Plot No. 2, Sector 24, Gurgaon, Haryana

[Handwritten marks]
24

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POWER GRID CORPORATION OF INDIA LIMITED

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5वीं एवं 6वीं मंजिल, वुडा भवन, एल. एंड टी. सर्कल, वी.आई.पी. रोड, करेलीबाग, वडोदरा - ३९००१८. (गुजरात)
5th & 6th Floor, VUDA Bhavan, L & T Circle, V.I.P. Road, Karelibaag, Vadodara - 390 018. (Gujarat)
फैक्स/Fax : 0265-2480952

पश्चिम क्षेत्र पारिषण प्रणाली-II, क्षेत्रीय मुख्यालय
Western Resigion Transmission System - II, Reional Headquarters

CMJ-SC
D(17)
ES (C.M.M.)
11/12
संदर्भ संख्या / Ref. Number

Ref : WR-II/COMML/ 5765

Date : 01.12.2008

To,

As per enclosed distribution list

Sub : Commercial Declaration of various Lines / Bays / Equipments under WR-II

Dear Sir,

We are pleased to inform that ICT - II alongwith its associated Bays at 400 / 220 kV Damoh Sub-station under Western Region Strengthening Scheme - IV have been charged / put into regular operation in Western Region - II and the same will be under commercial operation w.e.f. 01st December 2008.

Accordingly, the monthly transmission charges for these elements / systems shall be payable by all concerned WR constituents from 01st December 2008.

Thanking You.

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Yours faithfully,

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

(A.K.Datta)
Executive Director, WR-II

Distribution :

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

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पंजीकृत कार्यालय : वी-9, कुतब इन्स्टीट्यूशनल एरिया कटवाणे सारा, नई दिल्ली - 110 016. दूरभाष : 26560121, 26560122, 26560123, 26560124, 26560125, 26560126, 26560127, 26560128, 26560129, 26560130, 26560131, 26560132, 26560133, 26560134, 26560135, 26560136, 26560137, 26560138, 26560139, 26560140, 26560141, 26560142, 26560143, 26560144, 26560145, 26560146, 26560147, 26560148, 26560149, 26560150, 26560151, 26560152, 26560153, 26560154, 26560155, 26560156, 26560157, 26560158, 26560159, 26560160, 26560161, 26560162, 26560163, 26560164, 26560165, 26560166, 26560167, 26560168, 26560169, 26560170, 26560171, 26560172, 26560173, 26560174, 26560175, 26560176, 26560177, 26560178, 26560179, 26560180, 26560181, 26560182, 26560183, 26560184, 26560185, 26560186, 26560187, 26560188, 26560189, 26560190, 26560191, 26560192, 26560193, 26560194, 26560195, 26560196, 26560197, 26560198, 26560199, 26560200.
Registered Office : B-9, Outlot Institutional Area, Katwaha Sarai, New Delhi-110016. Tel. 26560121, 26560122, 26560123, 26560124, 26560125, 26560126, 26560127, 26560128, 26560129, 26560130, 26560131, 26560132, 26560133, 26560134, 26560135, 26560136, 26560137, 26560138, 26560139, 26560140, 26560141, 26560142, 26560143, 26560144, 26560145, 26560146, 26560147, 26560148, 26560149, 26560150, 26560151, 26560152, 26560153, 26560154, 26560155, 26560156, 26560157, 26560158, 26560159, 26560160, 26560161, 26560162, 26560163, 26560164, 26560165, 26560166, 26560167, 26560168, 26560169, 26560170, 26560171, 26560172, 26560173, 26560174, 26560175, 26560176, 26560177, 26560178, 26560179, 26560180, 26560181, 26560182, 26560183, 26560184, 26560185, 26560186, 26560187, 26560188, 26560189, 26560190, 26560191, 26560192, 26560193, 26560194, 26560195, 26560196, 26560197, 26560198, 26560199, 26560200.

Power Grid Corporation of India Ltd.
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(A Govt. of India Enterprise) पावरग्रिड



आय. एस्. ओ. 9001 : 2000 प्रमाणित कंपनी I.S.O. 9001 : 2000 Certified Company
4वीं एवं 5वीं मंजिल, वुडा भवन, एल. एंड टी. सर्कल, वी.आई.पी. रोड, करेलीबाग, वडोदरा - 390 018. (गुजरात)
5th & 6th Floor, VUDA Bhavan, L & T Circle, V.I.P. Road, Karelibaug, Vadodera - 390 018. (Gujarat)
फैक्स/फैक्स : 0265-2480952

पश्चिम क्षेत्र पारेषण प्रणाली- II, क्षेत्रीय मुख्यालय
Western Resigion Transmission System - II, Reional Headquarters

संदर्भ संख्या / Ref. Number

Ref : WR-II/COMML/ 6384

Date : 01.01.2009

To,

As per enclosed distribution list

Sub : Commercial Declaration of various Lines / Bays / Equipments under WR-II

Dear Sir,

We are pleased to inform that 400 kV 63 MVAR Bus Reactor along with associated Bay at 400/220 kV Damoh Sub-station under Western Region Strengthening Scheme - IV have been charged / put into regular operation in Western Region - II and the same will be under commercial operation w.e.f. 01st January 2009. Accordingly, the monthly transmission charges for these elements / systems shall be payable by all concerned WR constituents from 01st January 2009.

Thanking You.

ATTESTED TRUE COPY

Authorised Signatory
Power Grid Corporation of India Ltd.
Plot No.-2, Sector-12A, Gurgaon-122001 (HARYANA)

Yours faithfully,

(A.K.Datta) 11/1/2009

Executive Director, WR-II

Distribution :

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

ATTESTED TRUE COPY

Authorised Signatory
Power Grid Corporation of India Ltd.
Sector-29, Gurgaon-122001 (HARYANA)

पंजीकृत कार्यालय : बी-9, कृत्तव इंस्टीट्यूशनल एरियाइ कटदारिया सराय, नई दिल्ली - 110 016. टेल. 26560039
Registered Office : B-9, Outat Institutional Area, Katwaria Sara, New Delhi - 110016. Tel. 26560039 Fax : 011-26560039 Group : NATGRID

26

**CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI**

Coram:

1. **Shri R.Krishnamoorthy, Member**
2. **Shri V.S.Verma, Member**

Petition No. 82/2009

In the matter of

Determination of provisional transmission tariff for (i) 400/220 kV Damoh sub-station with ICT-I along with associated bays (ii) 400/220 kV 315 MVA ICT-II along with associated 400 kV and 220 kV bays at Damoh sub-station and (iii) 400 kV 63 MVAR factor along with associated 400 kV bay at Damoh sub-station under WRSS-IV transmission system in Western Region from the date of commercial operation to 31.3.2009.

And in the matter of

Power Grid Corporation of India Limited, Gurgaon

..Petitioner

Vs

1. Madhya Pradesh Power Transmission Company Ltd., Jabalpur
2. Maharashtra State Electricity Distribution Co. Ltd., Mumbai
3. Gujarat Urja Vikas Nigam Ltd., Vadodara
4. Electricity Deptt., Govt. of Goa, Panaji
5. Electricity Department, Administration of Daman and Diu, Daman
6. Electricity Department, Administration of Dadra Nagar Haveli, Silvassa
7. Chhattisgarh State Electricity Board, Raipur
8. Madhya Pradesh Audyogik Kandra, Indore

.....Respondents

The following were present:

1. Shri U.K.Tyagi, PGCIL
2. Shri M.M.Mondal, PGCIL
3. Shri S.K.Niranjan, PGCIL
4. Shri D.Khandelwal, MPPTCL

ORDER

(DATE OF HEARING: 19.5.2009)

The application has been made for approval of provisional transmission charges for 400/220 kV Damoh sub-station with ICT-I along with associated bays (Asset-I), 400/220 kV 315 MVA ICT-II along with associated 400 kV and 220 kV bays at Damoh sub-station (Asset-II), and 400 kV 63 MVAR factor along with associated 400 kV bay at Damoh sub-station (Asset-III) under WRSS-IV transmission system (the transmission scheme) in Western Region from the date of commercial operation of the respective asset to 31.3.2009, based on the Central Electricity Regulatory

Commission (Terms and Conditions of Tariff) Regulations, 2004 (the 2004 regulations).

2. The investment approval for the transmission scheme was accorded by Board of Directors of petitioner company vide its Memorandum dated 19.4.2006 at an estimated cost of Rs. 9722.00 lakh, including IDC of Rs.441.00 lakh.

3. The date of commissioning of the respective transmission asset, its apportioned approved cost and the actual cost as on the date of commercial operation, etc., as given by the petitioner are extracted hereunder:

S.No.	Name of Asset	Date of commercial operation	Apportioned approved cost (Rs. in lakh)	Capital cost as on date of commercial operation (Rs. in lakh)	Balance estimated cost (Rs. in lakh)	Estimated completion cost (Rs. in lakh)
1.	Asset-I	1.9.2008	5178.77	4203.67	455.47	4659.14
2.	Asset-II	1.12.2008	1550.36	1249.79	141.79	1391.58
3.	Asset-III	1.1.2009	2992.87	1777.28	887.30	2664.58

4. The expenditure up to 31.3.2008 has been verified from the audited statement of accounts for the year 2007-08. For the period from 1.4.2008 to the date of commercial operation, the expenditure indicated is based on books of accounts yet to be audited.

5. The petition has been heard after notice to the respondents. M. P. Power Trading Company Limited in its reply has raised certain issues which are relevant for consideration while determining final tariff. Since the present petition is for provisional tariff only, the issues raised are not being gone into at this stage. The respondents are at liberty to bring up these issues, if so advised, when the petition for final tariff is filed and the issues will be examined then.

6. The petitioner has claimed the following provisional transmission charges based on the capital cost as on the date of commercial operation of the respective transmission asset:

Period	(Rs. in lakh)		
	Asset-I	Asset-II	Asset-III
2008-09 (Pro rata)	439.49	106.77	73.52

7. In respect of the transmission assets, the capital expenditure on the date of commercial operation is less than the apportioned approved cost. Therefore, for the purpose of provisional tariff, we have considered the capital expenditure as on date of commercial operation as per para 3 above.

8. Based on the above, the provisional transmission charges are determined as follows:

(Rs. in lakh)			
	Asset-I	Asset-II	Asset-III
	2008-09 (Pro rata)	2008-09 (Pro rata)	2008-09 (Pro rata)
Depreciation	85.32	14.45	15.54
	@ 3.48%	@ 3.47%	@ 3.50%
Interest on loan	161.63	27.83	28.96
Return on equity	102.99	17.49	18.66
Advance Against Depreciation	0.00	0.00	0.00
Interest on working capital	12.76	3.14	2.13
O & M expenses	76.77	43.87	8.23
Total	439.47	106.77	73.52

9. We allow the transmission charges tabulated above for the transmission assets, on provisional basis from the date of commercial operation subject to adjustment after determination of final tariff.

10. The petitioner shall file a fresh petition for approval of final tariff in accordance with the Commission's regulations on the subject, latest by 31.7.2009.

11. While making the application for approval of final tariff, the petitioner shall file a certificate, duly signed by the auditors, certifying the loan details, duly reconciled with audited accounts of 2008-09.

12. Accordingly, the petition stands disposed of.

Sd/-
(V.S.VERMA)
MEMBER
New Delhi dated the 20th May 2009

sd/-
(R.KRISHNAMOORTHY)
MEMBER

Encl- 6

UMAMAHESWARA RAO & CO.
CHARTERED ACCOUNTANTS

PARTNERS

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A.SIVA PRASAD, B.Com., F.C.A., DISA., C.W.A.

CERTIFICATE OF CAPITAL COST

Project Name: 400/220kv Damoh Sub-station with ICT-I along with Bays associated with Western Region System Strengthening IV Transmission System.

Date of Commercial Operation: 01.09.2008

PARTICULARS	CAPITAL COST	IDC	IEDC	TOTAL (RS./ LAKHS)
Expenditure Upto 31.08.2008 (i.e., DOCO)	3854.05	81.13	210.07	4145.25
Expenditure from 01.09.2008 to 31.03.2009	11.11	0.00	0.00	11.11
Balance Estimated Expenditure	349.64	0.00	0.00	349.64
	4214.80	81.13	210.07	4506.00

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 up to the year ended 31-03-2009. The Balance Estimated expenditure is based on the details furnished by the management.

Place : VADODARA
Date : 17-Jul-2009

For UMAMAHESWARA RAO & CO.,
Chartered Accountants

(Signature)
(CA. A.SIVA PRASAD)
Partner



HEAD OFFICE:
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CERTIFICATE OF CAPITAL COST

Project Name: 400/220kv Damoh Sub-station with ICT-I along with Bays associated with Western Region System Strengthening IV Transmission System.

Date of Commercial Operation: 01.09.2008

(RS./ LAKHS)

PARTICULARS	Expenditure upto DOCO (i.e.,	Expenditure from 01.09.2008 to 31.03.2009	Balance Estimated Expenditure	Total Expenditure
LAND	15.65	0.00	0.00	15.65
BUILDING, CIVIL WORKS & COLONY	125.44	11.05	0.02	136.51
TRANSMISSION LINE	0.00	0.00	0.00	0.00
SUB-STATION	3987.69	0.05	348.18	4335.92
PLCC	16.47	0.01	1.44	17.92
	4145.25	11.11	349.64	4506.00

Initial Spares included in the above

63.06

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 up to the year ended 31-03-2009. The Balance Estimated expenditure is based on the details furnished by the management.

Place : VADODARA
Date : 17-Jul-2009

For UMAMAHESWARA RAO & CO.,
Chartered Accountants

(CA. A.SIVA PRASAD)
Partner



HEAD OFFICE:

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N.MUKTESWARA RAO, B.Com., F.C.A., DISA
A.SIVA PRASAD, B.Com., F.C.A., DISA, C.W.A.

CERTIFICATE OF CAPITAL COST

Project Name: 400/220kv/315MVA 2nd ICT along with associated 400KV & 220kv Bays at DamohSub-station associated with Western Region System Strengthening IV Transmission System.

Date of Commercial Operation: 01.12.2008

PARTICULARS	(RS./ LAKHS)			
	CAPITAL COST	IDC	IEDC	TOTAL
Expenditure Upto DOCO (i.e., 30.11.2008)	1156.02	36.50	63.60	1256.12
Expenditure from 01.12.2008 to 31.03.2009	10.56	0.00	0.00	10.56
Balance Estimated Expenditure	647.67	0.00	0.00	647.67
	1814.25	36.50	63.60	1914.35

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 up to the year ended 31-03-2009. The Balance Estimated expenditure is based on the details furnished by the management.

Place : VADODARA
Date : 17-Jul-2009

For UMAMAHESWARA RAO & CO.,
Chartered Accountants

(CA. A.SIVA PRASAD)
Partner



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CERTIFICATE OF CAPITAL COST

Project Name: 400/220kv/315MVA 2nd ICT along with associated 400KV & 220kv Bays at DamohSub-station associated with Western Region System Strengthening IV Transmission System.

Date of Commercial Operation: 01.12.2008

PARTICULARS	Expenditure upto DOCO (i.e.,	Expenditure from 01.12-2008 to	(RS./ LAKHS)	
			Balance Estimated Expenditur	Total Expenditure
LAND	0.00	0.00	0.00	0.00
BUILDING ,CIVIL WORKS & COLONY	67.34	0.19	544.01	611.54
TRANSMISSION LINE	0.00	0.00	0.00	0.00
SUB-STATION	1188.78	10.37	103.66	1302.81
PLCC	0.00	0.00	0.00	0.00
	1256.12	10.56	647.67	1914.35

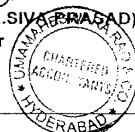
Initial Spares included in the above 0.00

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 up to the year ended 31-03-2009. The Balance Estimated expenditure is based on the details furnished by the management.

Place : VADODARA
Date : 17-Jul-2009

For UMAMAHESWARA RAO & CO.,
Chartered Accountants

(CA. A.SIVA PRASAD)
Partner



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CERTIFICATE OF CAPITAL COST

Project Name: 400kv 63 MVAR Bus Reactor along with associated 400KV Bay at Damoh Sub-station associated with Western Region System Strengthening IV Transmission System.

Date of Commercial Operation: 01.01.2009

(RS./ LAKHS)

PARTICULARS	CAPITAL COST	IDC	IEDC	TOTAL
Expenditure Upto DOCO (i.e., 31.12.2008)	1669.86	62.34	98.81	1831.01
Expenditure from 01.01.2009 to 31.03.2009	0.91	0.00	0.00	0.91
Balance Estimated Expenditure	370.27	0.00	0.00	370.27
	2041.04	62.34	98.81	2202.19

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 up to the year ended 31-03-2009. The Balance Estimated expenditure is based on the details furnished by the management.

Place : VADODARA
 Date : 17-Jul-2009

For UMAMAHESWARA RAO & CO.,
 Chartered Accountants

(CA. A.SIVA PRASAD)
 Partner



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CERTIFICATE OF CAPITAL COST

Project Name: 400kv 63 MVAR Bus Reactor along with associated 400KV Bay at Damoh Sub-station associated with Western Region System Strengthening IV Transmission System.

Date of Commercial Operation: 01.01.2009

(RS./LAKHS)

PARTICULARS	Expenditure upto DOCO (i.e., 31.12.2008)	Expenditure from 01.01.2009	Balance Estimated Expenditure	Total Expenditure
LAND	0.00	0.00	0.00	0.00
BUILDING, CIVIL WORKS & COLONY	211.35	0.91	0.00	212.26
TRANSMISSION LINE	0.00	0.00	0.00	0.00
SUB-STATION	1578.56	0.00	369.26	1947.82
PLCC	41.10	0.00	1.01	42.11
	1831.01	0.91	370.27	2202.19

Initial Spares included in the above 0.00

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 up to the year ended 31-03-2009. The Balance Estimated expenditure is based on the details furnished by the management.

Place : VADODARA
 Date : 17-Jul-2009

For UMAMAHESWARA RAO & CO.,
 Chartered Accountants

(Signature)
 (CA. A. SIVA PRASAD)
 Partner



HEAD OFFICE:
 HYDERABAD : Flat No. 5-H, 'D' Block, 8-3-324, Krishna Apartments, Yellareddyguda Lane, Amecpet x Roads, Hyderabad - 500 073.
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Encl - 07

PART - III
Form I

SUMMARY SHEET

POWERGRID CORPORATION OF INDIA LTD.
WRSS-IV
Bamohk SSS with 400/220 kV ICT-I along with associated lines,
WESTERN REGION
01-SEP-2008

Name of the Transmission Licensee:
Name of the Project:
Name of the Transmission Element:
Name of Region:
D.O.C.O.:

Sl.No.	Particulars	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009 (Pro Rata)
1	Depreciation	FORM-11				85.69
2	Interest on Loan	FORM-13A				159.38
3	Return on Equity	FORM-01A				101.78
4	Advance Against Depreciation	FORM-14				0.00
5	Interest On Working Capital	FORM-15				12.65
6	O And M Expenses					76.77
7	Total					436.24

[Signature]
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Calculation of Return on Equity

POWERGRID CORPORATION OF INDIA LTD.

WRSS-IV

Damoh SIS with 400/220 KV ICT-I along with associated bays.

WESTERN REGION

01-SEP-2008

Name of the Transmission Licensee:

Name of the Project:

Name of the Transmission Element:

Name of Region:

D.O.C.O.:

Sl.No.	Particulars	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009 (Pro Rata)
1	Equity as DCCO					1,244.25
2	Notional Equity for Add Cap					3.33
3	Total Equity					1,247.58
4	Return on Equity @ 14%					101.75


Petitioner



DETAILS OF TRANSMISSION LINES AND SUB STATIONS

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
 Name of the Project: WRSS-IV
 Name of the Transmission Element: Damoh S/S with 400/220 KV ICT-1 along with associated bays.
 Name of Region: WESTERN REGION
 D.O.C.O: 01-SEP-2008

Transmission Lines		Name of Line	Type of Line AC/HVDC	S/C or D/C	Voltage level KV	Line length (Ckt.Km.)	Date of Commercial operation	Covered in this petition (Yes/No)
Total						0		
Substations		Name of Sub-Station	Type of Substation Conventional/ HV AC	Voltage level KV	No. of Transformers/ Reactors/ SVC etc (with Capacity)	No. of Bays.	Date of Commercial operation	Covered in this petition (Yes/No)
DAMOHS/S			Conventional					
1	ICT-1 BAY			400	315 MVA ICT-1 BAY	1	01-SEP-2008	Yes
2	ICT-1 BAY			220		1	01-SEP-2008	Yes
3	BINA BAY			220		1	01-SEP-2008	Yes
4	DAMOHE#2 BAY			220		1	01-SEP-2008	Yes
Total						4		

[Signature]
Authoriser



NORMATIVE PARAMETERS CONSIDERED FOR TARIFF CALCULATIONS

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
 Name of the Project: WRSS-IV
 Name of the Transmission Element: Damoh S/S with 400/220 KV ICTT along with associated bays.
 Name of Region: WESTERN REGION
 D.O.C.O: 01-SEP-2008

Particulars	Unit	Year						
		2004-2005	2005-2006	2006-2007	2007-2008	2008-2009		
Target Availability	%	98.00	98.00	98.00	98.00	98.00	98.00	
Normative O&M Per CKT KM	Rs Lacs	0.227	0.236	0.246	0.255	0.266	0.266	
Normative O&M Per Bay	Rs Lacs	28.12	29.25	30.42	31.63	32.90	32.90	
Spares as % of O&M	%						31.50	
Receivable in Months for WC	months	2.00	2.00	2.00	2.00	2.00	2.00	
Rate of Return on Equity (%)	%	14.00	14.00	14.00	14.00	14.00	14.00	

[Signature]
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ABSTRACT OF PROJECT COST ESTIMATES AND SCHEDULE OF COMMISSIONING FOR THE NEW PROJECTS

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
 Name of the Project: WRSS-IV
 Name of the Transmission Element: Damoh S/S with 400/220 kV ICT-1 along with associated bays.
 Name of Region: WESTERN REGION
 D.O.C.O: 01-SEP-2008

(Rs. in Crores)

Capital Cost Estimate		
Board of Directors/ Agency approving the Capital Cost Estimate:	Board of Directors	
Date of approval of the Capital cost estimates:	No.C/CP/WRSS-IV dated 19-04-2006	
	Present Day Cost	Completed Cost
Price Level of approved estimates	At the end of 4 th Quarter Quarter of the year 2005	As on Scheduled COD
Foreign Exchange rate considered for the Capital cost estimates		
Capital cost EXCLUDING IDC and FC		
Foreign Component, if any (In Million US \$ or the relevant Currency)		
Domestic component	46.96	50.25
Capital Cost excluding IDC and FC	46.96	50.25
IDC and FC		
Foreign Component, if any (in million US \$ or the relevant currency)		
Domestic component	2.3	2.41
Total IDC and FC	2.3	2.41
Rates of Taxes and duties considered		
Capital cost including IDC and FC		
Foreign component, if any (in million US \$ or the relevant currency)		
Domestic component	49.26	52.66
Total Capital Cost including IDC and FC	49.26	52.66
Schedule of Commissioning	August 2008	August 2008


Petitioner



Break-up of Project Cost for Transmission System

Name of the Transmission Licensee : POWER GRID CORPORATION OF INDIA LIMITED

Name of the Project : 400/220 KV COMMON FACILITY (ICT I) ALONG WITH 400 KV BAYS AT DAMOH SUBSTATION UNDER WRSS IV (DOCO: 01.09.08)

Name of Region: WESTERN REGION

Sl.No.	Break Down	Cost in Rs.		Variation	Reasons for Variation	Admitted Cost
		As per original Estimates	As on COD (01.09.08)			
1	2	3	4	5=4-3	6	7
A	TRANSMISSION LINE					
1.0	Preliminary works					
1.1	Design & Engineering	0.00	0.00	0.00		
1.2	Preliminary investigation, Right of way, forest clearance, PTCC, general civil works etc.	0.00	0.00	0.00		
1.3	Total Preliminary works	0.00	0.00	0.00		
2.0	Transmission Lines material					
2.1	Towers Steel	0.00	0.00	0.00		
2.2	Conductor	0.00	0.00	0.00		
2.3	Earth Wire	0.00	0.00	0.00		
2.4	Insulators	0.00	0.00	0.00		
2.5	Hardware Fittings	0.00	0.00	0.00		
2.6	Conductor & Earthwire accessories	0.00	0.00	0.00		
2.8	Total Transmission Lines material	0.00	0.00	0.00		
2.8	Spares	0.00	0.00	0.00		
2.9	Erection, Stringing & Civil works including foundation	0.00	0.00	0.00		
3.0	Taxes and Duties					
3.1	Custom Duty	0.00	0.00	0.00		
3.2	Other Taxes & Duties	0.00	0.00	0.00		
3.2	Total Taxes & Duties	0.00	0.00	0.00		
Total -Transmission lines		0.00	0.00	0.00		

a. SUBSTATIONS						
Sl.No.	Break Down	As per original Estimates	As on COD (01.09.08)	Variation	Reasons for Variation	Admitted Cost
4.0	Preliminary works & land					
4.1	Design & Engineering	0.00	0.00	0.00		
4.2	Land	127.50	15.65	-111.85	As per site requirement	
4.3	Site preparation	0.00	0.00	0.00		
4.3	Total Preliminary works & land	127.50	15.65	-111.85		
5.0	Civil Works					
5.1	Control Room & Office Building including HVAC	9.00	0.00	0.00		
5.2	Township & Colony	0.00	0.00	0.00		
5.3	Roads and Drainage	148.77	125.32	-23.45	As per site requirement. Expenditure from DOCC Rs 11.05 Lakhs. Balance anticipated Rs 0.02 Lakhs	
5.4	Foundation for structures	0.00	0.00	0.00		
5.5	Misc. civil works	0.00	0.00	0.00		
5.5	Total Civil Works	148.77	125.32	-23.45	Expenditure from DOCC Rs 11.05 Lakhs. Balance anticipated Rs 0.02 Lakhs	



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6.0	Substation Equipments				
		786.72	656.73	-129.99	Expenditure from DOCO Rs 0 Lakhs. Balance anticipated Rs 61.83 Lakhs
6.1	Switchgear (C.T, PT, Circuit Breaker, Isolator etc)				
6.2	Transformers	1022.37	788.46	-233.91	Expenditure from DOCO Rs 0 Lakhs. Balance anticipated Rs 144.03 Lakhs
6.3	Compensating Equipment, Reactor, SVCs etc)	0.00	0.00	0.00	
6.4	Control, Relay & Protection Panel	774.30	675.55	-98.95	Expenditure from DOCO Rs 0 Lakhs. Balance anticipated Rs 63.58 Lakhs
6.5	PLCC	28.96	15.50	-13.66	As per actual. Expenditure from DOCO Rs 0.01 Lakhs. Balance anticipated Rs 1.44 Lakhs
6.6	HVDC package	0.00	0.00	0.00	
6.7	Bus Bars/ conductors/insulators	326.17	384.00	57.83	Due to price escalation in basic raw materials as per awarded rates & as applicable taxes and duties as on date
6.8	Outdoor lighting	78.01	60.79	-12.78	Due to price escalation in basic raw materials as per awarded rates & as applicable taxes and duties as on date. Expenditure from DOCO Rs 0 Lakhs. Balance anticipated Rs 8.55 Lakhs
6.9	Emergency D.G. Set, fire fight, System	90.81	98.50	7.69	Due to price escalation in basic raw materials as per awarded rates & as applicable taxes and duties as on date. Expenditure from DOCO Rs 0 Lakhs. Balance anticipated Rs 9.28 Lakhs
6.10	Grounding System	0.00	0.00	0.00	
6.11	Structure for switchyard	343.29	367.00	13.71	Due to price escalation in basic raw materials as per awarded rates & as applicable taxes and duties as on date
6.12	S/W Erection	313.81	439.48	125.67	Due to price escalation in basic raw materials as per awarded rates & as applicable taxes and duties as on date. Expenditure from DOCO Rs 0.05 Lakhs. Balance anticipated Rs 41.37 Lakhs
6.13	Auxiliary System	193.96	207.47	13.51	Due to price escalation in basic raw materials as per awarded rates & as applicable taxes and duties as on date. Expenditure from DOCO Rs 0 Lakhs. Balance anticipated Rs 19.54 Lakhs
	Total Substation Equipments	3958.40	3713.68	-245.32	Expenditure from DOCO Rs 0.65 Lakhs. Balance anticipated Rs 349.62 Lakhs
7.03	Spares			0.00	
8.0	Taxes and Duties				
8.1	Custom Duty	0.00	0.00	0.00	
8.2	Other Taxes & Duties	0.00	0.00	0.00	
8.3	Total Taxes & Duties	0.00	0.00	0.00	
	Total (Sub-station)	4234.67	3854.05	-380.62	Expenditure from DOCO Rs 11.11 Lakhs. Balance anticipated Rs 349.64 Lakhs
9.0	Construction and pre-commissioning				
9.1	Site supervision & site admin etc.	0.00	0.00	0.00	
9.2	Tools and Plants	0.00	0.00	0.00	
9.3	Construction insurance	0.00	0.00	0.00	
	Total Construction and pre commissioning expenses	0.00	0.00	0.00	
10.0	Overheads				
10.1	Establishment	461.12	210.07	-251.05	As per actual
10.2	Audit & Accounts	0.00	0.00	0.00	
10.3	Contingency	0.00	0.00	0.00	
	Total Overheads	461.12	210.07	-251.05	
11.0	Project cost without IDC & FC	4695.79	4064.12	-631.67	Expenditure from DOCO Rs 11.11 Lakhs. Balance anticipated Rs 349.64 Lakhs
12.0	IDC & FC	230.45	81.13	-149.32	As per actual
13.0	Project cost including IDC & FC	4926.24	4145.25	-780.99	Expenditure from DOCO Rs 11.11 Lakhs. Balance anticipated Rs 349.64 Lakhs



Petitioner

Break-up of Construction/Supply/Service packages

Break-up of Construction/Supply/Service packages

PA For

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

POWER GRID CORPORATION OF INDIA LIMITED
 400/220 KV COMMON FACILITY (CT) ALONG
 WITH 400 KV BAYS AT DAMOH SUBSTATION
 WESTERN REGION SYSTEM STRENGTHENING SCHEME -IV

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 received.	Date of Award	Date of start of work	Date of completion of work	Value of Award in (Rs.)	Firm or with Escalation in prices.	Actual expenditure till the completion or up to COD whichever is earlier. (Rs. Lakhs)
1. 400/220 KV S/S at Damoh S/S. MS, ABE C-96204-S9-9A-3/ LOA-1/2025 dt 20.04.2006	Supply & Erection of Damoh S/S	DCB	5	20.04.2006	20.04.2006	20.10.2007	Supply (Rs.) 301,363,531 Erection (Rs.) 97,169,478	Escalation	2591.08
C-66204-S0-9A-3/ LOA-1/2026 dt 20.04.2006									
2. Transformer Package-MS BHEL C-33101-S9-16-3/ LOA-1/2103 dt 14.07.2008 C-33101-S9-16-3/ LOA-1/2104 dt 14.07.2008	Supply & Erection of Damoh S/S	DCB	3	14.07.2008	14.07.2008	14.10.2007	Supply (Rs.) 143,932,000 Erection (Rs.) 5,065,600	Escalation	756.82
3. Construction of residential quarters-MS TIARA 1/R/C&M/SS/ROT/CC/ Damoh/ file 2002/2007 /LOA-109-1350 dated 5.9.07		DCB	1	05.09.2007	05.09.2007	04.09.2008	39,728,610		125.44

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PA For

DETAILS OF ELEMENTWISE COST

POWERGRID CORPORATION OF INDIA LTD.
WRSSTV
WESTERN REGION

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

(Rs in Lakhs)

Sub-Station Sl.No.	Name of Substation	Appartioned/ Approved Cost	Estimated Completion Cost
1	New 400/220 KV Substation at Damoh including MIS MVA ICT-I	4926.34	4506.00
2	400/220 KV 31.5 MVA ICT-II at Damoh	2829.96	1914.35
3	63 MVAR Bus Reactor at DAMDH	2265.50	2202.19
Total		9721.70	8622.54
Grand Total		9721.70	8622.54

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FINANCIAL PACKAGE UPTO COD

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
 Name of the Project: WRSS-IV
 Name of the Transmission Element: Damoh S/S with 400/220 KV ICT-I along with associated bays.
 Name of Region: WESTERN REGION
 Project Cost as on COD: 4145.25 (Rs. in Lakhs)
 D.O.C: 01-SEP-2008

(Rs in Lakhs)

Transmission Lines	Financial Package as apporitioned/		Financial Package as on Approved COD		As Admitted on COD
	Currency and Amount		Currency and Amount		Currency and Amount
Loans					
Loans - Domestic	INR	3625.14	INR	2901.00	
Loans - Foreign					
Total Loans		3625.14		2901.00	
Equity					
Foreign					
Domestic	INR	1553.63	INR	1244.25	
Notional				0.00	
Total Equity		1553.63		1244.25	
Debt Equity Ratio		70.00:30.00		69.98:30.02	
Total Cost		5178.77		4145.25	
		Debt	Equity	Total	
Add Cap For 2008-2009				11.11	
Add Cap For 2008-2009		Actual	Normative		
Debt		0.00	7.78		
Equity		11.11	3.33		
Total		11.11	11.11		
Total Capital Cost with ADDCAP upto 01.04.2009				4156.36	


Petitioner



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DETAILS OF ALLOCATION OF CORPORATE LOANS TO VARIOUS TRANSMISSION ELEMENTS

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
 Name of the Project: WRSS-IV
 Name of the Transmission Element: Damoh S/S with 400/220 kV ICT-1 along with associated bays.
 Name of Region: WESTERN REGION
 D.O.C.O: 01-SEP-2008

Particulars	Package1	Package2	Package3	Package4	Package5	Remarks
1	2	3	4	5	6	7
Source of Loan						
Currency						
Amount of Loan sanctioned						
Amount of Gross Loan drawn upto 31.05.2004 COD						
Interest Type						
Fixed Interest Rate, if applicable						
Base Rate, if Floating Interest						
Margin, if Floating Interest						
Are there any Caps/Floor						
If above is yes, specify caps/floor						
Moratorium Period						
Moratorium effective from						Loan allocation for all the Loans audited upto 31.3.2009 shall be submitted shortly.
Repayment Period						
Repayment effective from						
Repayment Frequency						
Repayment Instalment						
Base Exchange Rate						
Distribution of loan packages to various transmission elements						
Eastern Region						
Transmission element 1						
Transmission element 2 and so on						
Total						
Western Region						
Transmission element 1						
Transmission element 2 and so on						
Total						
Northern Region						
Transmission element 1						
Transmission element 2 and so on						
Total						
Southern Region						
Transmission element 1						
Transmission element 2 and so on						
Total						
North-Eastern Region						
Transmission element 1						
Transmission element 2 and so on						
Total						
RLDC						
Total						

 Petitioner



STATEMENT OF ADDITIONAL CAPITALIZATION AFTER COD

POWERGRID CORPORATION OF INDIA LTD.
WRSS-IV
Dambod S/S with 400/220 KV K.T-1 along with associated buys.
WESTERN REGION
01-SEP-2008

Name of the Transmission License:
Name of the Project:
Name of the Transmission Element:
Name of Region:
D.O.C.O:

Sl.No.	Year	Work/Equipment added after COD upto cut off date/ beyond cut off date	Amount proposed to be capitalised	Justification	Admitted Cost
1.	2008-2009	BUILDING	11.05	Final/Retention Payment	
		SUB STATION	0.05	Final/Retention Payment	
		PLCC	0.01	Final/Retention Payment	
Total			11.11		
2.	Balance Est. Expenditure.	BUILDING	0.02	Final/Retention Payment	
		SUB STATION	348.18	Final/Retention Payment	
		PLCC	1.44	Final/Retention Payment	
Total			349.64		

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[Signature]
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FINANCING OF ADDITIONAL CAPITALIZATION

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
 Name of the Project: WRSS-IV
 Name of the Transmission Element: Damoh SIS with 400/230 KV ICT-1 along with associated bays.
 Name of Region: WESTERN REGION
 D.O.C.O: 01-SEP-2008

(Rs in Lakhs)

Financial Year (Starting from COD)	From COD to 31-Mar-2009	Balance Estimated Expenditure	Actual		Admitted		From COD to 31-Mar-2009	Balance Estimated Expenditure	Year 4	Year 5
			Year 3	Year 5	Year 3	Year 4				
Amount capitalised in Work/Equipmen	11.11	349.64								
Financing Details										
Loan-1										
Loan-2										
Loan-3 and so on										
Total Loan	6.00									
Equity	11.11									
Internal Resources										
Others										
Total	11.11	349.64								

[Signature]
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STATEMENT OF DEPRECIATION

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
 Name of the Project: WRSS-IV
 Name of the Transmission Element: Damoh S/S with 400/220 kV ICT-1 along with associated bays.
 Name of Region: WESTERN REGION
 D.O.C.O: 01-SEP-2008

(Rs in Lakhs)

Sl. No.	Particulars	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009 (Pro Rata)
1	Depreciation on Capital Cost as on DOCO					85.64
2	Depreciation on Additional Capitalisation					
3	Amount of Additional Capitalisation					11.11
4	Depreciation Amount					0.06
5	Details of FERV					0.00
6	Amount of FERV on which depreciation charged					0.00
7	Depreciation Amount					0.00
8	Depreciation Recieved during the year					85.69
9	Advance against Depreciation recovered during the year					0.00
10	Depreciatrion and Advance against Depreciation recovered during the year					85.69
11	Cumulative Depreciation And Advance against Depreciation recovered upto the year	0.00	0.00	0.00	0.00	85.69


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CALCULATION OF DEPRECIATION RATE

POWERGRID CORPORATION OF INDIA LTD.
WRSN-IV
 Damoh S/S with 400/220KV ICT-1 along with associated bays.
 WESTERN REGION
 01-SEP-2008

Name of the Transmission Licensee:
 Name of the Project:
 Name of the Transmission Element:
 Name of Region:
 D.O.C.O.:

Sl.No.	Name of the Assets	Gross Block as on 31-Mar-2004 or as on COD, whichever is later	Add Cap 2008-2009	Total Cost (As on 31-Mar-2009)	Balance Estimated Expenditure	Estimated Completion Cost	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount	
1	LAND	15.65	0.00	15.65	0.00	15.65	0.00%	0.00	
2	BUILDING	125.44	11.05	136.49	0.02	136.51	1.80%	2.46	
3	TR LINE	0.00	0.00	0.00	0.00	0.00	2.57%	0.00	
4	SUB STATION	3987.69	0.05	3987.74	348.18	4335.92	3.60%	143.56	
5	PLCC	16.27	0.01	16.48	1.44	17.92	6.00%	0.99	
6	Total	4145.25	11.11	4156.36	349.64	4506.00		147.00	
7	Weighted Average Depreciation Rate							3.54%	

[Signature]
 Authorizer



CALCULATION OF WEIGHTED AVERAGE RATE OF INTEREST ON ACTUAL LOANS

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
 Name of the Project: WRSS-IV
 Name of the Transmission Element: Damoh S/S with 400/220 kV ICT-1 along with associated bays.
 Name of Region: WESTERN REGION
 D.O.C.O: 01-SEP-2008

(Rs in Lakhs)

Particulars	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009
BOND XXVII					
Gross Loan Opening					2550.00
Cumulative Repayments of Loans upto Previous Year					
Net Loans Opening					2550.00
Add : Drawal(s) during the year					
Less : Repayments(s) of Loans during the year					
Net Loan Closing					2550.00
Average Net Loan					2550.00
Rate of Interest on Loan					9.47%
Interest on Loan					241.48
SHORT TERM BRIDGE LOAN FROM BOB 29-SEP-2008 To 14-DEC-2008 @ 12.5% Replaced By BOND XXVIII @ 9.33% from 15-DEC-2008					
Gross Loan Opening					
Cumulative Repayments of Loans upto Previous Year					
Net Loans Opening					
Add : Drawal(s) during the year					351.00
Less : Repayments(s) of Loans during the year					
Net Loan Closing					351.00
Average Net Loan					175.50
Rate of Interest on Loan					10.66%
Interest on Loan					18.70
Total					
Gross Loan Opening					2550.00
Cumulative Repayments of Loans upto Previous Year					
Net Loans Opening					2550.00
Add : Drawal(s) during the year					351.00
Less : Repayments(s) of Loans during the year					
Net Loan Closing					2901.00
Average Net Loan					2725.50
Interest on Loan					260.19
Weighted Average Rate of Interest on Loans					9.5464%
Computation of Weighted Average Interest Rate on Bridge Loan					
Loan Description	From	To	Days	Interest Rate	Weighted Factor
SHORT TERM BRIDGE LOAN FROM BOB	29-SEP-2008	14-DEC-2008	77	12.5	962.5
BOND XXVIII	15-DEC-2008	31-MAR-2009	107	9.33	998.31
Weighted Interest Rate			184		10.66%


Petitioner



Power Grid Corporation of India Ltd

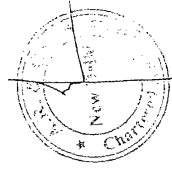


Schedule 05A - Secured loans(Contd.)

Description	(Rupees in Crore)	
	As at 31st March, 2009	As at 31st March, 2008
BONDS XXVI SERIES		
9.30% 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. 07.03.2012	999.00	
Secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambhethi Taluka Kaporada in district Valad Gujarat and floating charge on the assets of the company.		
BONDS XXVII SERIES		
9.47% 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. 31.03.2012	705.00	
Secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambhethi Taluka Kaporada in district Valad Gujarat and floating charge on the assets of the company.		
* Bonds XXV to XXVII series are included under Unsecured Loans in previous year		
BONDS XXVIII SERIES		
9.33% 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. 15.12.2012	2400.00	
Secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambhethi Taluka Kaporada in district Valad Gujarat and floating charge on the assets of the company.		

ATTESTED TRUE COPY

Authorised Signatory
 Power Grid Corporation of India Ltd,
 2, Sector 29, Gurgaon-122001 (HARYANA)





Regional Office, Regional Office

BR.NEHRUP:ADV:32-497

Date: 20.10.2008

The Adm. General Manager (P)
POWER GRID CORPN OF INDIA LTD.
Saudamini, Plot No. 2
Sector 29
GURGAON

FAX: 0124-2571876

Dear Sir,


Ref: Your PTL for P.2008 dated 11.10.08 for the month of October
2008 (From Rs 40,000 to Rs 1,00,000/-) (Annexure)


We refer to your letter and to advise you that the amount due for the month
of October, 2008 will be approx. Rs 4,24,85,753.00 (Rupees Four Crore
forty four lakh sixty five thousand seven hundred and fifty three only)

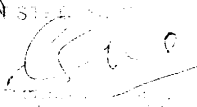
Please arrange to make payment of the amount due date i.e. 01.11.2008.

Yours faithfully,


(J. P. Saini)
Project Director

ATTESTED TRUE COPY

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

ATTESTED TRUE COPY

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


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

KRISHAN SINGH BERK.
Cost Accountant

365 Sector 15
Faridabad 121007
Ph: 0129 4106422
M: 9810053546
Email: ksberk@gp.com

CERTIFICATE

We have verified the relevant records and information drawn from audited statement of accounts of M/s Powergrid Corporation of India Ltd. having its Corporate Office at Plot No. -2, Sector 29, Gurgaon for the year ended 31.03.2009. On basis of verification, we certify that the details of various loans allocated to (i) **400/220 KV Damoh Sub Station with ICT-I alongwith Bays (DOCO: 01.09.2008)**, (ii) **400/220 KV/315 MVA 2nd ICT alongwith 400 & 220 KV Bays at Damoh Sub Station (DOCO: 01.12.2008)** and (iii) **400 KV 63 MVAR Bus Reactor alongwith associated 400KV bay at Damoh Sub-Station (DOCO: 01.01.2009)** under Western Region System Strengthening Scheme-IV in Western Region for fixation of tariff are as follows:

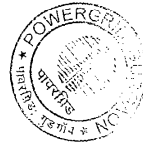
(Rs. In lacs)

Sl. No.	Loan	DOCO : 01.09.2008	DOCO : 01.12.2008	DOCO : 01.01.2009
1.	BOND-XXVII	2550.00	300.00	350.00
2.	12.50% Bridge loan from BOB w.e.f. 29.09.2008 replaced by bond XXVIII on 15.12.2008	351.00	579.00	931.00
	Total	2901.00	879.00	1281.00

Place: Faridabad
Date: 28th July'2009




Krishan Singh Berk
Prop.
Cost Accountant
M 2724



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CALCULATION OF INTEREST ON LOANS

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
 Name of the Project: WRSS-IV
 Name of the Transmission Element: Damoh S/S with 400/220 kV ICT-1 along with associated bays.
 Name of Region: WESTERN REGION
 D.O.C.O: 01-SEP-2008

(Rs in Lakhs)

Sl.No.	Particulars	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009(Pro Rata)
1	Gross Loan Opening					2,901.00
2	Cumulative Repayments of Loans upto Previous Year					0.00
3	Net Loans Opening					2,901.00
4	Add : Drawal(s) during the year					7.78
5	Less : Repayments(s) of Loans during the year					85.69
6	Net Loan Closing					2,823.08
7	Average Net Loan					2,862.04
8	Weighted Average Rate of Interest on Loans					9.5464%
9	Interest on Loan					159.38


Petitioner



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CALCULATION OF ADVANCE AGAINST DEPRECIATION(AAD)

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
Name of the Project: WRSS-IV
Name of the Transmission Element: Damoh S/S with 400/220 KV ICT-I along with associated bays.
Name of Region: WESTERN REGION
D.O.C.O: 01-SEP-2008

(Rs in Lakhs)

Sl.N o.	Particulars	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009
1	1/10th of Loan					290.10
2	Repayment of the Loan(s) as considered for working out interest on Loan					85.69
3	Minimum of the above					85.69
4	Less : Depreciation during the year					85.69
5	(A)					0.00
6	Cumulative Repayment of the Loan(s) as considered for working out interest on Loan					85.69
7	Less : Cumulative Depreciation					85.69
8	(B)					0.00
9	Advance Against Depreciation (Minimum of A and B)					0.00


Petitioner



CALCULATION OF INTEREST ON WORKING CAPITAL

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
 Name of the Project: WRSS-IV
 Name of the Transmission Element: Dumbh S/S with 400/220 KV 10 T-1 along with associated bays.
 Name of Region: WESTERN REGION
 D.O.C.O: 01-SEP-2008

SLNO	Particulars	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009
1	O & M Expenses					10.97
2	Maintenance Spares	0.00	0.00	0.00	0.00	41.45
3	Receivables					124.64
4	Total Working Capital					177.06
5	Rate of Interest					12.25%
6	Interest on Working Capital					12.65
	Maintenance Spares Calculation					
	D.O.C.O					41.45
	Total					41.45

(57)

[Signature]
Petitioner





भारतीय स्टेट बैंक
State Bank of India

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

Tel. : 23353115, 23353181, 23353022, 23356817 | Fax : 23353101, 23352793

Date :

Ref. No. :

TO WHOMSOEVER IT MAY CONCERN

30th July 2008

CERTIFICATE : STATE BANK OF INDIA ADVANCE RATE (PLR)

We hereby certify that the State Bank of India Advance Rate (SBAR), which is the Bank's Prime Lending Rate for cash credit accounts, was 12.25% p.a. as on 01.04.2008.

[Signature]
Asstt. General Manager &
Relationship Manager

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

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

ATTESTED TRUE COPY

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

ATTESTED TRUE COPY

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

(58)

DRAW DOWN SCHEDULE FOR CALCULATION OF IDC AND FINANCING CHARGES

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of the Project: **WRSS-IV**
 Name of the Transmission Element: **Damoh S/S with 400/220 kV ICT-1 along with associated bays.**
 Name of Region: **WESTERN REGION**
 D.O.C.O: **01-SEP-2008**

(Rs in Lakhs)

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	BOND XXVII									
	Draw Down Amount									2530.00
	IDC									
	Financing Charges									
1.2.2	BOND XXVIII									
	Draw Down Amount									351.00
	IDC									
	Financing Charges									
	Total Indian Loans									
	Draw Down Amount									2901.00
	IDC									0.00
	Financing Charges									0.00
	Total of Loans Drawn									
	Draw Down Amount									2901.00
	IDC									81.13
	Financing Charges									0.00
2	Equity									
2.1	Foreign Equity Drawn									
2.2	Indian Equity Drawn									1244.25
	Total Equity Deployed									1244.25

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.


Petitioner



SUMMARY SHEET

POWERGRID CORPORATION OF INDIA LTD.
WRSS-IV
DAMOH S/S with ICT-H alongwith Bays
WESTERN REGION
01/DEC/2008

Name of the Transmission Licensee:
Name of the Project:
Name of the Transmission Element:
Name of Region:
D.O.C.O.:

Sl.No.	Particulars	(Rs in Lakhs)					2008-2009(Pro Rata)
		2004-2005	2005-2006	2006-2007	2007-2008	2008-2009(Pro Rata)	
1	Depreciation						14.73
2	Interest on Loan						28.07
3	Return on Equity						17.67
4	Advance Against Depreciation						0.00
5	Interest On Working Capital						3.16
6	O And M Expenses						43.87
7	Total						107.50

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[Signature]
Petitioner



Calculation of Return on Equity

POWERGRID CORPORATION OF INDIA LTD.

WRSS-IV

DAMOH/S/S with ICT-II alongwith Bays

WESTERN REGION

01-DEC-2008

Name of the Transmission Licensee:

Name of the Project:


Name of the Transmission Element:

Name of Region:

D.O.C.O.:

Sl.No.	Particulars	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009(Pro- Rata)
1	Equity as DOCO					377.12
2	Notional Equity for Add Cap					3.17
3	Total Equity					380.29
4	Return on Equity @ 14%					17.67

(6)


Petitioner



DETAILS OF TRANSMISSION LINES AND SUB STATIONS

POWERGRID CORPORATION OF INDIA LTD.

WRSS-IV

DAMOHI S/S with ICT-II alongwith Bays

WESTERN REGION

01-DEC-2008

Name of the Transmission Licensee:

Name of the Project:

Name of the Transmission Element:

Name of Region:

D.O.C.O.:

Transmission Lines

SL.No.	Name of Line	Type of Line AC/HVDC	S/C or D/C	Voltage level KV	Line length (Ckt.Km.)	Date of Commercial operation	Covered in this petition (Yes/No)
Total					0		

Substations

SL.No.	Name of Sub-Station	Type of Substation Conventional/ HVAC	Voltage level KV	No. of Transformers / Reactors/ SVC etc (with Capacity)	No. of Bays.	Date of Commercial operation	Covered in this petition (Yes/No)
1	DAMOHI S/S	Conventional	400	315 MVA ICT-II BAY	1	01-DEC-2008	Yes
2	ICT-II BAY		220		1	01-DEC-2008	Yes
3	TIKAMGARH BAY		220		1	01-DEC-2008	Yes
4	DAMOHI BAY		220		1	01-DEC-2008	Yes
Total					4		

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 Petitioner



NORMATIVE PARAMETERS CONSIDERED FOR TARIFF CALCULATIONS

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
 Name of the Project: WRSS-IV
 Name of the Transmission Element: DAMOH LSS with ICT-II alongwith Bays
 Name of Region: WESTERN REGION
 D.O.C.O: 01-DEC-2008

Particulars	Unit	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009
1	2	3	4	5	6	7
Target Availability	%	98.00	98.00	98.00	98.00	98.00
Normative O&M Per C.KT. KM	Rs Lacs	0.227	0.236	0.246	0.255	0.266
Normative O&M Per Bay	Rs Lacs	28.12	29.25	30.42	31.63	32.90
Spares as % of O&M	%					9.54
Receivable in Months for WC	months	2.00	2.00	2.00	2.00	2.00
Rate of Return on Equity (%)	%	14.00	14.00	14.00	14.00	14.00


Petitioner



ABSTRACT OF PROJECT COST ESTIMATES AND SCHEDULE OF COMMISSIONING FOR THE NEW PROJECTS

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
 Name of the Project: WRSS-IV
 Name of the Transmission Element: DAMOH S/S with ICT-II alongwith Bays
 Name of Region: WESTERN REGION
 D.O.C.O: 01-DEC-2008

(Rs. in Crores)

Capital Cost Estimate		
Board of Directors/ Agency approving the Capital Cost Estimate:	Board of Directors	
Date of approval of the Capital cost estimates:	No.C/CP/WRSS-IV dated 19-04-2006	
	Present Day Cost	Completed Cost
Price Level of approved estimates	At the end of 4 th Quarter	As on Scheduled COD
	Quarter of the year 2005	
Foreign Exchange rate considered for the Capital cost estimates		
Capital cost EXCLUDING IDC and FC		
Foreign Component, if any (In Million US \$ or the relevant Currency)		
Domestic component	24.31	26.01
Capital Cost excluding IDC and FC	24.31	26.01
IDC and FC		
Foreign Component, if any (in million US \$ or the relevant currency)		
Domestic component	0.99	1.04
Total IDC and FC	0.99	1.04
Rates of Taxes and duties considered		
Capital cost including IDC and FC		
Foreign component, if any (in million US \$ or the relevant currency)		
Domestic component	25.3	27.05
Total Capital Cost including IDC and FC	25.3	27.05
Schedule of Commissioning	August 2008	August 2008


Petitioner



Break-up of Project Cost for Transmission System

Name of the Transmission Licensee : POWER GRID CORPORATION OF INDIA LIMITED
 Name of the Project : 400/220 KV 1X315 MVA ICT#2 ALONG WITH 400 & 220 KV BAYS AT DAMOH SUBSTATION UNDER WRSS IV (DOCO: 01.12.08)
 Name of Region: WESTERN REGION

Sl.No.	Break Down	Cost in Rs. Lakhs		Variation	Reasons for Variation	Admitted Cost
		As per original Estimates	As on COD			
1	2	3	4	5=4-3	6	7
A	TRANSMISSION LINE					
1.0	Preliminary works					
1.1	Design & Engineering	0.00	0.00	0.00		
1.2	Preliminary investigation, Right of way, forest clearance, PTCC, general civil works etc.	0.00	0.00	0.00		
1.3	Total Preliminary works	0.00	0.00	0.00		
2.0	Transmission Lines material					
2.1	Towers Steel	0.00	0.00	0.00		
2.2	Conductor	0.00	0.00	0.00		
2.3	Earth Wire	0.00	0.00	0.00		
2.4	Insulators	0.00	0.00	0.00		
2.5	Hardware Fittings	0.00	0.00	0.00		
2.6	Conductor & Earthwire accessories	0.00	0.00	0.00		
	Total Transmission Lines material	0.00	0.00	0.00		
2.8	Spares	0.00	0.00	0.00		
2.9	Erection, Stringing & Civil works including foundation	0.00	0.00	0.00		
3.0	Taxes and Duties					
3.1	Custom Duty	0.00	0.00	0.00		
3.2	Other Taxes & Duties	0.00	0.00	0.00		
	Total Taxes & Duties	0.00	0.00	0.00		
	Total Transmission lines	0.00	0.00	0.00		

2

Sl.No.	Break Down	Cost in Rs. Lakhs		Variation	Reasons for Variation	Admitted Cost
		As per original Estimates	As on COD			
1	2	3	4	5=4-3	6	7
B.	SUBSTATIONS					
4.0	Preliminary works & land					
4.1	Design & Engineering	0.00	0.00	0.00		
4.2	Land	0.00	0.00	0.00		
4.3	Site preparation	35.00	11.69	-23.31	As per site requirement Expenditure from DOCO Rs. 0 Lakhs. Balance indicated Rs. 0 Lakhs	
	Total Preliminary works & land	35.00	11.69	-23.31		
5.0	Civil Works					
5.1	Control Room & Office Building including HVAC	0.00	0.00	0.00		
5.2	Township & Colony	963.73	38.19	-925.54	Expenditure From DOCO Rs. 0.19 lakhs, balance exp. is Rs. 544 lakhs	
5.3	Roads and Drainage	0.00	0.00	0.00		
5.4	Foundations for structures	0.00	0.00	0.00		
5.5	Misc civil works	0.00	0.00	0.00		
	Total Civil Works	963.73	38.19	-925.54	Expenditure From DOCO Rs. 0.19 lakhs, balance exp. is Rs. 544 lakhs	



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6.0	Substation Equipments				
6.1	Switchgear (CT,PT, Circuit Breaker, Isolator etc)	92.04	76.86	-15.18	As per actual Expenditure from DOCO Rs 0 Lakhs. Balance anticipated Rs 7.7 Lakhs
6.2	Transformers	945.47	788.45	-157.02	As per actual Expenditure from DOCO Rs 0 Lakhs. Balance anticipated Rs 73.89 Lakhs
6.3	Compensating Equipment(Reactor, SVCs etc)	0.00	0.00	0.00	
6.4	Control, Relay & Protection Panel	31.75	27.70	-4.05	As per actual Expenditure from DOCO Rs 0 Lakhs. Balance anticipated Rs 2.8 Lakhs
6.5	PLCC	0.00	0.00	0.00	
6.6	HVDC package	0.00	0.00	0.00	
6.7	Bus Bars/ conductors/Insulators	0.00	0.00	0.00	
6.8	Outdoor lighting	0.00	0.00	0.00	
6.9	Emergency D.G. Set, fire fight System	12.54	13.61	1.07	Due to price escalation in basic raw materials as per awarded rates & as applicable taxes and duties as on date Expenditure from DOCO Rs 0 Lakhs. Balance anticipated Rs 1.26 Lakhs
6.10	Grounding System	0.00	0.00	0.00	
6.11	Structure for switchyard	0.00	0.00	0.00	
6.12	S/W Erection	141.58	188.65	47.07	Exp. from DOCO is Rs. 10.37 lakhs, Balance Rs. 17.55 lakhs
6.13	Auxiliary System	10.16	10.67	0.71	Due to price escalation in basic raw materials as per awarded rates & as applicable taxes and duties as on date Expenditure from DOCO Rs 0 Lakhs. Balance anticipated Rs. 1.02 Lakhs
	Total Substation Equipments	1233.54	1106.14	-127.40	Exp. From DOCO is Rs. 10.37 lakhs, Balance Rs. 103.67 lakhs
7.00	Spares			0.00	
8.0	Taxes and Duties				
8.1	Custom Duty	0.00	0.00	0.00	
8.2	Other Taxes & Duties	0.00	0.00	0.00	
8.3	Total Taxes & Duties	0.00	0.00	0.00	
	Total (Sub-station)	2232.27	1156.02	-1076.25	Expenditure from DOCO Rs 10.56 Lakhs. Balance anticipated Rs 647.67 Lakhs
9.0	Construction and pre-commissioning expenses				
9.1	Site supervision & site admn etc.	0.00	0.00	0.00	
9.2	Tools and Plants	0.00	0.00	0.00	
9.3	Construction Insurance	0.00	0.00	0.00	
	Total Construction and pre commissioning expenses	0.00	0.00	0.00	
10.0	Overheads				
10.1	Establishment	198.49	63.60	-134.89	
10.2	Audit & Accounts	0.00	0.00	0.00	
10.3	Contingency	0.00	0.00	0.00	
	Total Overheads	198.49	63.60	-134.89	
11.0	Project cost without IDC & FC	2430.76	1219.62	-1211.14	Expenditure from DOCO Rs 10.56 Lakhs. Balance anticipated Rs 647.67 Lakhs
12.0	IDC & FC	99.20	36.50	-62.70	As per actual
13.0	Project cost including IDC & FC	2529.96	1256.12	-1273.84	Expenditure from DOCO Rs 10.56 Lakhs. Balance anticipated Rs 647.67 Lakhs

0.00

Petitioner



(66)

Break-up of Construction/Supply/Service packages

P/ Po

POWER GRID CORPORATION OF INDIA LIMITED
 400/220 KV TX315 MVA ICT#2 ALONG WITH 400 & 220 KV BAYS AT DAMOH
 SUBSTATION UNDER WRSS IV (DOCO: 01.12.08)
 WESTERN REGION
 WESTERN REGION SYSTEM STRENGTHENING SCHEME - IV

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

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 bids received.	Date of Award	Date of start of work	Date of completion of work	Value of Award in (Rs.)	Firm or with Escalation in prices.	Actual expenditure till the completion up to COD which is earlier. (RS. Lakhs)
1	400/220 KV S/S at Damoh, S/S -M/S ABB C-33204-S919A-3/ LOA-11/2103 dt. 20.04.2006 C-33204-S919A-3/ LOA-11/2103 dt. 20.04.2006	DCB	5	20.04.2006	20.04.2006	10.10.2007	Supply (Rs.) 300,363,631 Erection (Rs.) 97,169,478	Escalation	
2	Transformer Package-M/S BHEL C-33101-S915-3/ LOA-11/2103 dt. 14.07.2006 C-33101-S915-3/ LOA-11/2104 dt. 14.07.2006	DCB	3	14.07.2006	14.07.2006	14.10.2007	Supply (Rs.) 143,932,000 Erection (Rs.) 5,065,600	Escalation	
3	Water Supply system WRTS/ C&M/VKI Water supply Damoh / 2008/ 32/ 2628 dated/ 16.06.08	DCB	3	16.06.2008	16.08.2008	17.12.2008	3,881,107		
4	Survey and soil investigation-M/S Designers consortium New Delhi WRTS/C&M/0598 dttd 17/20-05-2007	DCB	2	20.05.2007	20.05.2007		123,924		
5	Site leveling-M/S KSN construction company WRTS/C&M/DAMOH/LSL/2008/19356/ DATED 04/10/06	DCB	3	04.10.2006	04.10.2006		962,280		
6	Supply erection and commissioning of 11 kv line with transformer-M/S K S Singh WRTS/BBP/C&M/DAMOH/LSL/2006/271126 dttd 18/01/2007	DCB	3	18.01.2007	18.01.2007		776,768		

(Signature)
 P/ Po



DETAILS OF ELEMENTWISE COST

Name of the Transmission Licensee:
POWERGRID CORPORATION OF INDIA LTD.
Name of the Project:
WRS-IV
Name of Region:
WESTERN REGION

(Rs. in Lakhs)

Sub-Station Sl.No.	Name of Substation	Approximate/ Approved Cost	Estimated Completion Cost
1	New 400/220 KV Substation at Damoh including 315 MVA ICTL	4926.24	4506.00
2	400/220 KV 315 MVA ICT-II at Damoh	2529.96	1914.35
3	63 MVAR Bus Reactor at DAMOH	2265.50	2202.19
	Total	9721.70	8622.54
	Grand Total	9721.70	8622.54


Petitioner



FINANCIAL PACKAGE UPTO COD

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
 Name of the Project: WRSS-IV
 Name of the Transmission Element: DAMOH S/S with ICT-II alongwith Bays
 Name of Region: WESTERN REGION
 Project Cost as on COD: 1256.12 (Rs. in Lakhs)
 D.O.C.O: 01-DEC-2008

(Rs in Lakhs)

Transmission Lines	Financial Package as apporioned/		Financial Package as on Approved COD		As Admitted on COD
	Currency and Amount		Currency and Amount		Currency and Amount
Loans					
Loans - Domestic	INR	1085.25	INR		879.00
Loans - Foreign					
Total Loans		1085.25			879.00
Equity					
Foreign					
Domestic	INR	465.11	INR		377.12
Notional					0.00
Total Equity		465.11			377.12
Debt Equity Ratio		70.00:30.00			69.98:30.02
Total Cost		1550.36			1256.12
		Debt	Equity	Total	
Add Cap For 2008-2009				10.56	
Add Cap For 2008-2009	Actual	Normative			
Debt	0.00	7.39			
Equity	10.56	3.17			
Total	10.56	10.56			
Total Capital Cost with ADDCAP upto 01.04.2009				1266.68	

 Petitioner



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DETAILS OF ALLOCATION OF CORPORATE LOANS TO VARIOUS TRANSMISSION ELEMENTS

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
 Name of the Project: WRSS-IV
 Name of the Transmission Element: DAMOH S/S with ICT-II alongwith Bays
 Name of Region: WESTERN REGION
 D.O.C.O: 01-DEC-2008

Particulars	Package1	Package2	Package3	Package4	Package5	Remarks
1	2	3	4	5	6	7
Source of Loan						
Currency						
Amount of Loan sanctioned						
Amount of Gross Loan drawn upto 31.03.2004:COD						
Interest Type						
Fixed Interest Rate, if applicable						
Base Rate, if Floating Interest						
Margin, if Floating Interest						
Are there any Caps/Floor						
If above is yes, specify caps/floor						
Moratorium Period						
Moratorium effective from						Loan allocation for all the Loans audited upto 31.3.2009 shall be submitted shortly.
Repayment Period						
Repayment effective from						
Repayment Frequency						
Repayment Instalment						
Base Exchange Rate						
Distribution of loan packages to various transmission elements						
Eastern Region						
Transmission element 1						
Transmission element 2 and so on						
Total						
Western Region						
Transmission element 1						
Transmission element 2 and so on						
Total						
Northern Region						
Transmission element 1						
Transmission element 2 and so on						
Total						
Southern Region						
Transmission element 1						
Transmission element 2 and so on						
Total						
North-Eastern Region						
Transmission element 1						
Transmission element 2 and so on						
Total						
RI,DC						
Total						


Petitioner



STATEMENT OF ADDITIONAL CAPITALIZATION AFTER COD
PGOVERGRID CORPORATION OF INDIA LTD.

Name of the Transmission Licensee:
WRS5-IV
Name of the Project:
BAMOHLES with ICT-II alongwith Bays
Name of the Transmission Element:
WESTERN REGION
Name of Region:
01-WR-C-2008
D.O.C.O.:

SL.No.	Year	Work/Equipment added after COD upto cut off date/ beyond cut off date	Amount proposed to be capitalised	Justification	Admitted Cost
1.	2008-2009	BUILDING	0.19	Final/Retention Payment	
		SUB STATION	10.37	Final/Retention Payment	
	Total		10.56		
2.	Balance Est. Expenditure	BUILDING	544.01	Final Retention Payment	
		SUB STATION	103.66	Final/Retention Payment	
3.	Total		647.67		


Petitioner



FINANCING OF ADDITIONAL CAPITALIZATION

POWERGRID CORPORATION OF INDIA LTD.

WRSS-IV

DAMOLLS with CTE-II alongwith Bays

WESTERN REGION

01-DEC-2008

Name of the Transmission Licensee:

Name of the Project:


Name of the Transmission Element:

Name of Region:

D.O.C.O.:

(Rs in Lakhs)

Financial Year (Starting from COD)	From COD to 31-Mar-2009	Balance Estimated Expenditure	Actual		Admitted		Year5
			Year3	Year4	Year3	Year4	
Amount capitalised in Work/Equipmen	10.56	647.67					
Financing Details							
Loan-1							
Loan-2							
Loan-3 and so on							
Total Loan	0.00						
Equity	10.56						
Internal Resources							
Others							
Total	10.56	647.67					

 Petitioner



STATEMENT OF DEPRECIATION

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
Name of the Project: WRSS-IV
Name of the Transmission Element: DAMOH S/S with ICT-II alongwith Bays
Name of Region: WESTERN REGION
D.O.C.O: 01-DEC-2008

(Rs in Lakhs)

Sl.No.	Particulars	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009(Pro Rata)
1	Depreciation on Capital Cost as on DOCO					14.67
2	Depreciation on Additional Capitalisation					
3	Amount of Additional Capitalisation					10.56
4	Depreciation Amount					0.06
5	Details of FERV					0.00
6	Amount of FERV on which depreciation charged					0.00
7	Depreciation Amount					0.00
8	Depreciation Recieved during the year					14.73
9	Advance against Depreciation recovered during the year					0.00
10	Depreciatrion and Advance against Depreciation recovered during the year					14.73
11	Cumulative Depreciation And Advance against Depreciation recovered upto the year	0.00	0.00	0.00	0.00	14.73


Petitioner



CALCULATION OF DEPRECIATION RATE

POWERGRID CORPORATION OF INDIA LTD.

Name of the Transmission Licensee:

WRSS-IV

Name of the Project:

DAMOHLES with ICT-II alongwith Bays

Name of the Transmission Element:

WESTERN REGION

Name of Region:

01-DEC-2008

D.G.C.O.:

Sl.No.	Name of the Assets	Gross Block as on 31- Mar-2009 or as on COD, whichever is later.	Add Cap 2008-2009	Total Cost (As on 31- Mar-2009)	Balance Estimated Expenditure	Estimated Completion Cost	Depreciation Rates as per CERCs Depreciation Rate Schedule	Depreciation Amount	
1	LAND	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	
2	BUILDING	67.34	0.19	67.53	544.01	611.54	1.80%	1.22	
3	TR LINE	0.00	0.00	0.00	0.00	0.00	2.57%	0.00	
4	SUB STATION	1188.78	10.37	1199.15	103.66	1302.81	3.60%	43.17	
5	P.L.C.C	0.00	0.00	0.00	0.00	0.00	6.00%	0.00	
6	Total	1256.12	10.56	1266.68	647.67	1914.35		44.38	
7	Weighted Average Depreciation Rate							3.50%	

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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 the Project: WRSS-IV
 Name of the Transmission Element: DAMOH S/S with ICT-II alongwith Bays
 Name of Region: WESTERN REGION
 D.O.C.O: 01-DEC-2008

(Rs in Lakhs)

Particulars	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009
BOND XXVII					
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					9.47%
Interest on Loan					28.41
SHORT TERM BRIDGE LOAN FROM BOB 01-DEC-2008 To 14-DEC-2008 @ 12.5% Replaced By BOND XXVIII @ 9.33% from 15-DEC-2008					
Gross Loan Opening					579.00
Cumulative Repayments of Loans upto Previous Year					
Net Loans Opening					579.00
Add : Drawal(s) during the year					
Less : Repayments(s) of Loans during the year					
Net Loan Closing					579.00
Average Net Loan					579.00
Rate of Interest on Loan					9.70%
Interest on Loan					56.14
Total					
Gross Loan Opening					879.00
Cumulative Repayments of Loans upto Previous Year					
Net Loans Opening					879.00
Add : Drawal(s) during the year					
Less : Repayments(s) of Loans during the year					
Net Loan Closing					879.00
Average Net Loan					879.00
Interest on Loan					84.55
Weighted Average Rate of Interest on Loans					9.6194%
Computation of Weighted Average Interest Rate on Bridge Loan					
Loan Description	From	To	Days	Interest Rate	Weighted Factor
SHORT TERM BRIDGE LOAN FROM BOB	01-DEC-2008	14-DEC-2008	14	12.5	175
BOND XXVIII	15-DEC-2008	31-MAR-2009	107	9.33	998.31
Weighted Interest Rate			121		9.70%



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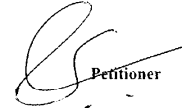
75

CALCULATION OF INTEREST ON LOANS

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
 Name of the Project: WRSS-IV
 Name of the Transmission Element: DAMOH S/S with ICT-II alongwith Bays
 Name of Region: WESTERN REGION
 D.O.C.O: 01-DEC-2008

(Rs in Lakhs)

Sl.No.	Particulars	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009(Pro Rata)
1	Gross Loan Opening					879.00
2	Cumulative Repayments of Loans upto Previous Year					0.00
3	Net Loans Opening					879.00
4	Add : Drawal(s) during the year					7.39
5	Less : Repayments(s) of Loans during the year					14.73
6	Net Loan Closing					871.66
7	Average Net Loan					875.33
8	Weighted Average Rate of Interest on Loans					9.6194%
9	Interest on Loan					28.07


Petitioner



CALCULATION OF ADVANCE AGAINST DEPRECIATION(AAD)

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
Name of the Project: WRSS-IV
Name of the Transmission Element: DAMOH S/S with ICT-II alongwith Bays
Name of Region: WESTERN REGION
D.O.C.O: 01-DEC-2008

(Rs in Lakhs)

S/LN	Particulars	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009
0.						
1	1:10th of Loan					87.90
2	Repayment of the Loan(s) as considered for working out interest on Loan					14.73
3	Minimum of the above					14.73
4	Less : Depreciation during the year					14.73
5	(A)					0.00
6	Cumulative Repayment of the Loan(s) as considered for working out interest on Loan					14.73
7	Less : Cumulative Depreciation					14.73
8	(B)					0.00
9	Advance Against Depreciation (Minimum of A and B)					0.00


Petitioner



CALCULATION OF INTEREST ON WORKING CAPITAL

POWERGRID CORPORATION OF INDIA LTD.

WRSS-IV

DAMOH/S/S with ICT-II alongwith Bays

WESTERN REGION

01-DEC-2008

Name of the Transmission Licensee:

Name of the Project:

Name of the Transmission Element:

Name of Region:

D.O.C.O.:

Sl.NO	Particulars	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009
1	O & M Expenses					10.97
2	Maintenance Spares	0.00	0.00	0.00	0.00	12.56
3	Receivables					53.75
4	Total Working Capital					77.28
5	Rate of Interest					12.25%
6	Interest on Working Capital					3.16
	Maintenance Spares Calculation					
	DOCO	Cost	2005-2006	2006-2007	2007-2008	2008-2009
		1256.12				12.56
	Total	1256.12				12.56

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Petitioner



DRAW DOWN SCHEDULE FOR CALCULATION OF IDC AND FINANCING CHARGES

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of the Project: **WRSS-IV**
 Name of the Transmission Element: **DAMOH S/S with ICT-II alongwith Bays**
 Name of Region: **WESTERN REGION**
 D.O.C.O: **01-DEC-2008**

(Rs in Lakhs)

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	BOND XXVII									
	Draw Down Amount									300.00
	IDC									
	Financing Charges									
1.2.2	BOND XXVIII									
	Draw Down Amount									579.00
	IDC									
	Financing Charges									
	Total Indian Loans									
	Draw Down Amount									879.00
	IDC									0.00
	Financing Charges									0.00
	Total of Loans Drawn									
	Draw Down Amount									879.00
	IDC									36.50
	Financing Charges									0.00
2	Equity									
2.1	Foreign Equity Drawn									
2.2	Indian Equity Drawn									377.12
	Total Equity Deployed									377.12

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.


Petitioner



SUMMARY SHEET

POWERGRID CORPORATION OF INDIA LTD.

WRSS-IV

Box, Reactor at Damoh

WESTERN REGION

01-JAN-2009

Name of the Transmission Licensee:

Name of the Project:

Name of the Transmission Element:

Name of Region:

D.O.C.O.:

Sl.No.	Particulars	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009(Pro- Ratd)
1	Depreciation	FORM-11				15.78
2	Interest on Loan	FORM-13A				29.82
3	Return on Equity	FORM-01A				19.26
4	Advance Against Depreciation	FORM-14				0.00
5	Interest On Working Capital	FORM-15				2.18
6	O And M Expenses					8.23
7	Total					75.27

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Petitioner



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Calculation of Return on Equity

POWERGRID CORPORATION OF INDIA LTD.

WRSS-IV
Bus Reactor at Dhanoh
WESTERN REGION
01-JAN-2009

Name of the Transmission Licensee:
Name of the Project:
Name of the Transmission Element:
Name of Region:
D.O.C.O.:

Sl.No.	Particulars	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009 (Proposed)
1	Equity as DOCO					550.01
2	Notional Equity for Add Cap					0.27
3	Total Equity					550.28
4	Return on Equity @ 14%					19.26

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DETAILS OF TRANSMISSION LINES AND SUB STATIONS

POWERGRID CORPORATION OF INDIA LTD.

WRS-IV

Bus Reactor at Damoh

WESTERN REGION

01-JAN-2009

Name of the Transmission Licensee:

Name of the Project:

Name of the Transmission Element:

Name of Region:

D.O.C.O.:

Transmission Lines

Sl.No.	Name of Line	Type of Line AC/HVDC	S/C or D/C	Voltage level KV	Line length (Ckt.Km.)	Date of Commercial operation	Covered in this petition (Yes/No)
Total							
Substations							
Sl.No.	Name of Sub-Station	Type of Substation/ Conventional/ HV-AC	Voltage level KV	No. of Transformers/ Reactors/SVC etc (with Capacitors)	No. of Bays.	Date of Commercial operation	Covered in this petition (Yes/No)
1	DAMOH SIS Bus Reactor Bay	Conventional	400	63 MVAR BUS REACTOR	1	01-JAN-2009	Yes
Total							


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Petitioner



NORMATIVE PARAMETERS CONSIDERED FOR TARIFF CALCULATIONS

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
 Name of the Project: WRSS-IV
 Name of the Transmission Element: Bus Reactor at Dhanoh
 Name of Region: WESTERN REGION
 D.O.C.O.: 01-JAN-2009

Particulars	Unit	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009
1	2	3	4	5	6	7
Target Availability	%	98.00	98.00	98.00	98.00	98.00
Normative O&M Per C.I./KM	Rs Lacs	0.227	0.236	0.246	0.255	0.266
Normative O&M Per Bay	Rs Lacs	28.12	29.25	30.42	31.63	32.90
Spares as % of O&M	%					55.62
Receivable in Months for WC	months	2.00	2.00	2.00	2.00	2.00
Rate of Return on Equity (%)	%	14.00	14.00	14.00	14.00	14.00


Petitioner



ABSTRACT OF PROJECT COST ESTIMATES AND SCHEDULE OF COMMISSIONING FOR THE NEW PROJECTS

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
 Name of the Project: WRSS-IV
 Name of the Transmission Element: Bus Reactor at Damoh
 Name of Region: WESTERN REGION
 D.O.C.O: 01-JAN-2009

(Rs. in Crores)

Capital Cost Estimate		
Board of Directors/ Agency approving the Capital Cost Estimate:	Board of Directors	
Date of approval of the Capital cost estimates:	No: C/CP/WRSS-IV dated 19-04-2006	
Price Level of approved estimates	Present Day Cost	Completed Cost
	At the end of 4 th Quarter Quarter of the year 2005	As on Scheduled COD
Foreign Exchange rate considered for the Capital cost estimates		
Capital cost EXCLUDING IDC and FC		
Foreign Component, if any (In Million US \$ or the relevant Currency)		
Domestic component	21.54	21.54
Capital Cost excluding IDC and FC	21.54	21.54
IDC and FC		
Foreign Component, if any (in million US \$ or the relevant currency)		
Domestic component	1.12	1.12
Total IDC and FC	1.12	1.12
Rates of Taxes and duties considered		
Capital cost including IDC and FC		
Foreign component, if any (in million US \$ or the relevant currency)		
Domestic component	22.66	22.66
Total Capital Cost including IDC and FC	22.66	22.66
Schedule of Commissioning	August 2008	August 2008

 Petitioner



Break-up of Project Cost for Transmission System

Name of the Transmission Licensee : POWER GRID CORPORATION OF INDIA LIMITED
 Name of the Project : 400/220 KV 63 MVAR BUS REACTOR & COMMON FACILITIES ALONG WITH 400 KV BAYS AT DAMOH SUBSTATION UNDER WRSS IV (DOCO: 01.01.09)
 Name of Region: WESTERN REGION

Sl.No.	Break Down	Cost in Rs. Crores		Variation	Reasons for Variation	Admitted Cost
		As per original Estimates	As on COD			
1	2	3	4	5=4-3	6	7
A	TRANSMISSION LINE					
1.0	Preliminary works					
1.1	Design & Engineering	0.00	0.00	0.00	Not Applicable	
1.2	Preliminary investigation, Right of way, forest clearance, PTCC, general civil works etc.	0.00	0.00	0.00	Not Applicable	
1.3	Total Preliminary works	0.00	0.00	0.00		
2.0	Transmission Lines material				Not Applicable	
2.1	Towers Steel	0.00	0.00	0.00	Not Applicable	
2.2	Conductor	0.00	0.00	0.00	Not Applicable	
2.3	Earth Wire	0.00	0.00	0.00	Not Applicable	
2.4	Insulators	0.00	0.00	0.00	Not Applicable	
2.5	Hardware Fittings	0.00	0.00	0.00	Not Applicable	
2.6	Conductor & Earthwire accessories	0.00	0.00	0.00	Not Applicable	
	Total Transmission Lines material	0.00	0.00	0.00		
2.8	Spares	0.00	0.00	0.00	Not Applicable	
2.9	Erection, Stringing & Civil works including foundation	0.00	0.00	0.00	Not Applicable	
3.0	Taxes and Duties				Not Applicable	
3.1	Custom Duty	0.00	0.00	0.00	Not Applicable	
3.2	Other Taxes & Duties	0.00	0.00	0.00	Not Applicable	
	Total Taxes & Duties	0.00	0.00	0.00		
	Total -Transmission lines	0.00	0.00	0.00		

B. SUBSTATIONS						
Sl.No.	Break Down	As per original Estimates	As on COD	Variation	Reasons for Variation	Admitted Cost
4.0	Preliminary works & land					
4.1	Design & Engineering	0.00	0.00	0.00		
4.2	Land	0.00	0.00	0.00		
4.3	Site preparation	0.00	0.00	0.00		
	Total Preliminary works & land	0.00	0.00	0.00		
5.0	Civil Works					
5.1	Control Room & Office Building including HVAC	0.00	40.22	40.22		
5.2	Township & Colony	333.27	132.98	-200.29	Expenditure from DOCO Rs 0.91 Lakhs. Balance anticipated Rs 0 Lakhs	
5.3	Roads and Drainage	0.00	0.00	0.00		
5.4	Foundation for structures	0.00	0.00	0.00		
5.5	Misc. civil works	0.00	0.00	0.00		
	Total Civil Works	333.27	173.20	-160.07	Expenditure from DOCO Rs 0.91 Lakhs. Balance anticipated Rs 0 Lakhs	



6.0	Substation Equipments				
6.1	Switchgear (CT,PT, Circuit Breaker, Isolator etc)	291.20	227.34	-63.86	Expenditure from DOCC Rs 0 Lakhs Balance anticipated Rs 38.64 Lakhs
6.2	Transformers	0.00	0.00	0.00	
6.3	Compensating Equipment(Reactor, SVCs etc)	464.13	341.26	-122.87	Expenditure from DOCC Rs 0 Lakhs Balance anticipated Rs 134.33 Lakhs
6.4	Control , Relay & Protection Panel	107.77	80.23	-27.54	Expenditure from DOCC Rs 0 Lakhs Balance anticipated Rs 22.62 Lakhs
6.5	PLCC	67.03	37.74	-29.29	Expenditure from DOCC Rs 0 Lakhs Balance anticipated Rs 1.01 Lakhs
6.6	HVDC package	0.00	0.00	0.00	
6.7	Bus Bars' conductors/Insulators	71.13	74.10	2.97	Expenditure from DOCC Rs 0 Lakhs Balance anticipated Rs 9.64 Lakhs
6.8	Outdoor lighting	0.77	0.80	0.03	Expenditure from DOCC Rs 0 Lakhs. Balance anticipated Rs 0.18 Lakhs
6.9	Emergency D.G. Set, fire fight, System	6.72	6.59	-0.13	Expenditure from DOCC Rs 0 Lakhs Balance anticipated Rs 1.38 Lakhs
6.10	Grounding System	0.00	0.00	0.00	
6.11	Structure for switchyard	80.63	79.50	-1.13	Expenditure from DOCC Rs 0 Lakhs. Balance anticipated Rs 4.15 Lakhs
6.12	S/W Erection	401.75	534.38	132.63	Balance Rs. 148.52 lakhs. Due to price escalation in basic raw materials as per awarded rates & as applicable taxes and duties as on date
6.13	Auxiliary System	106.22	114.71	8.49	Expenditure from DOCC Rs 0 Lakhs. Balance anticipated Rs 9.6 Lakhs
	Total Substation Equipments	1597.35	1496.66	-100.69	Expenditure from DOCC Rs 0 Lakhs. Balance anticipated Rs 370.27 Lakhs
7.00	Spares			0.00	
8.0	Taxes and Duties				
8.1	Custom Duty	0.00	0.00	0.00	
8.2	Other Taxes & Duties	0.00	0.00	0.00	
8.3	Total Taxes & Duties	0.00	0.00	0.00	
	Total (Sub-station)	1930.62	1669.86	-260.76	Expenditure from DOCC Rs 0.91 Lakhs. Balance anticipated Rs 370.27 Lakhs
9.0	Construction and pre-commissioning expenses				
9.1	Site supervision & site admn.etc.	0.00	0.00	0.00	
9.2	Tools and Plants	0.00	0.00	0.00	
9.3	construction Insurance	0.00	0.00	0.00	
	Total Construction and pre commissioning expenses	0.00	0.00	0.00	
10.0	Overheads				
10.1	Establishment	223.29	98.81	-124.48	As per actual
10.2	Audit & Accounts	0.00	0.00	0.00	
10.3	Contingency	0.00	0.00	0.00	
	Total Overheads	223.29	98.81	-124.48	
11.0	Project cost without IDC & FC	2153.91	1768.67	-385.24	Expenditure from DOCC Rs 0.91 Lakhs. Balance anticipated Rs 370.27 Lakhs
12.0	IDC & FC	111.59	62.34	-49.25	As per actual
13.0	Project cost including IDC & FC	2265.50	1831.01	-434.49	Expenditure from DOCC Rs 0.91 Lakhs. Balance anticipated Rs 370.27 Lakhs

Petitioner



Break-up of Construction/Supply/Service packages

Break-up of Construction/Supply/Service packages

PART-BII
Form 5C

Name of the Transmission Licensee : POWER GRID CORPORATION OF INDIA LIMITED
 Name of the Element/ Project : 400/220 KV 63 MVAR BUS REACTOR & COMMON FACILITIES ALONG WITH 400 KV BAYS AT DAMOH SUBSTATION UNDER WRSS IV (DOCO: 01.01.09)

Name of Region: WESTERN REGION

Name/No. of Construction/Supply/Service package	Season of works (in line with head of civil works/typical applications)	Whether awarded through (CB/DCB/ 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.)	Firm or Estimation in price.	Actual expenditure till the completion or up to COD whichever is earlier. (Rs. Crore)
1. 400/220 KV S/S at Damoh, S.S. JMS RRR, C-56204, S/11A/W/3, LOA/17007, dt. 20.04.2006	Supply & Erection of Damoh, S/S	DCB	5	20.04.2006	20.04.2006	20.10.2007	301,303.531	Escalation	729.00
2. Reactor Padangah M/BHEL, C-31101, S/07/3, LOA-02124 dt. 11.09.2006	Supply & Erection of Damoh, S/S	DCB	3	11.09.2006	11.09.2006	11.11.07	26,204.056	Escalation	354.71
3. Construction of boundary wall M/S VARSMA, NRIK, AM/AB/RW/DAMOH, LOA/07071 dt. 15.08.07		DCB	4	09.08.2007	09.08.2007	09.07.2008	7,874.641		67.44
4. Construction of residential quarters M/S YARA, WRI/MS/51/PTCC/ Damoh, dt. 20.07.2007, LOA- 109/1350, dt. 15.07.07		DCB	1	05.09.2007	05.09.2007	04.09.2008	30,226.10		39.14
5. Construction of bays, bays and substation M/S G&I Construction, WRI/MS, G&W/46/D Damoh, dt. 08.10.07, dt. 21.07.2008		DCB	2	21.07.2008	21.07.2008	20.02.2009	10,763.196		45.51
6. Construction of 33 KV line M/S shree Jee, WRI/SC/XXX/33A/DAMOH/20/20/03/07, dt. 18.09		DCB	3	07.09.2008	07.09.2008	06.11.2008	9,470.571		88.54
7. Construction of 33 KV line at MPPTCL and 6. suspension charges for line MPPTCL, Damoh.		DCB	1	Completed			37.58		37.58
8. Supply of Digital meter and digital earth terminal M/S Sanyo, WRI/MS/MS/MS/33/2008/01/10, dt. 08.10.2008		DCB	2	08.10.2008	20.05.2009		203.846		5.02
Sub total for Damoh Substation (other and other LOA work of Value)							80,911.98		272.77
WRI/MS/51/PTCC/ Damoh, dt. 20.07.2007, LOA- 109/1350, dt. 15.07.07							31,410.00		31.41

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DETAILS OF ELEMENTWISE COST

POWERGRID CORPORATION OF INDIA LTD.
WRSS-IV
WESTERN REGION

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

Sub-Stations Sl.No.	Name of Substation	Appointed/ Approved Cost	Estimated Completion Cost
1	New 400/220 KV Substation at Damoh including 315 MVA ICT I	4926.24	4506.00
2	400/220 KV 315 MVA ICT-II at Damoh	2529.96	1914.35
3	63 MVAR Bus Reactor at DAMOH	2365.80	2202.19
Total		9721.70	8622.54
Grand Total		9721.70	8622.54

(Rs. in Lakhs)


Petitioner



FINANCIAL PACKAGE UPTO COD

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
 Name of the Project: WRSS-IV
 Name of the Transmission Element: Bus Reactor at Damoh
 Name of Region: WESTERN REGION
 Project Cost as on COD: 1831.01 (Rs. in Lakhs)
 D.O.C.O: 01-JAN-2009

(Rs in Lakhs)

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	2095.01	INR	1281.00	
Loans - Foreign					
Total Loans		2095.01		1281.00	
Equity					
Foreign					
Domestic	INR	897.86	INR	550.01	
Notional				0.00	
Total Equity		897.86		550.01	
Debt Equity Ratio		70.00:30.00		69.96:30.04	
Total Cost		2992.87		1831.01	
		Debt	Equity	Total	
Add Cap For 2008-2009				0.91	
Add Cap For 2008-2009		Actual	Normative		
Debt		0.00	0.64		
Equity		0.91	0.27		
Total		0.91	0.91		
Total Capital Cost with ADDCAP upto 01.04.2009				1831.92	


Petitioner



DETAILS OF ALLOCATION OF CORPORATE LOANS TO VARIOUS TRANSMISSION ELEMENTS

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
 Name of the Project: WRSS-IV
 Name of the Transmission Element: Bus Reactor at Damoh
 Name of the Region: WESTERN REGION
 D.O.C.O: 01-JAN-2009

Particulars	Package1	Package2	Package3	Package4	Package5	Remarks
1	2	3	4	5	6	7
Source of Loan						
Currency						
Amount of Loan sanctioned						
Amount of Gross Loan drawn upto 31.03.2009.CGD						
Interest Type						
Fixed Interest Rate, if applicable						
Base Rate, if Floating Interest						
Margin, if Floating Interest						
Are there any Caps/Floor						
If above is yes, specify caps/floor						
Moratorium Period						
Moratorium effective from						Loan allocation for all the Loans audited upto 31.3.2009 shall be submitted shortly.
Repayment Period						
Repayment effective from						
Repayment Frequency						
Repayment Instalment						
Base Exchange Rate						
Distribution of loan packages to various transmission elements						
Eastern Region						
Transmission element 1						
Transmission element 2 and so on						
Total						
Western Region						
Transmission element 1						
Transmission element 2 and so on						
Total						
Northern Region						
Transmission element 1						
Transmission element 2 and so on						
Total						
Southern Region						
Transmission element 1						
Transmission element 2 and so on						
Total						
North-Eastern Region						
Transmission element 1						
Transmission element 2 and so on						
Total						
RLDC						
Total						


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STATEMENT OF ADDITIONAL CAPITALIZATION AFTER COD
POWERGRID CORPORATION OF INDIA LTD.

Name of the Transmission Licensee:
WRSS-IV
Name of the Project:
Bus Reactor at Dannah
Name of the Transmission Element:
WESTERN REGION
Name of Region:
01-JAN-2009
D.O.C.O.:

Sl.No.	Year	Work/Equipment added after COD upto cut off date/ beyond cut off date	Amount proposed to be capitalised	Justification	Admitted Cost
1.	2008-2009	BUILDING	0.91	Final/Retention Payment	
	Total		0.91		
2.	Balance Est. Expenditure.	SUBSTATION PLCC	369.26	Final/Retention Payment	
3	Total		370.27	Final/Retention Payment	


Petitioner



FINANCING OF ADDITIONAL CAPITALIZATION
POWERGRID CORPORATION OF INDIA LTD.

Name of the Transmission Licensee:
WRSS-IV
Name of the Project:
Bus Reactor at Danoh
Name of the Transmission Element:
WESTERN REGION
Name of Region:
01-JAN-2009
D.O.C.O.:

(Rs. in Lakhs)

Financial Year (Starting from COD)	From COD to 31- Mar-2009	Balance Estimated Expenditure	Actual					Admitted									
			Year 3	Year 4	Year 5	From COD to 31- Mar-2009	Balance Estimated Expenditure	Year 3	Year 4	Year 5							
Amount capitalised in Work/Equipmen t	0.91	370.27															
Financing Details																	
Loan-1																	
Loan-2																	
Loan-3 and so on																	
Total Loan	0.00																
Equity	0.91																
Internal Resources																	
Others																	
Total	0.91	370.27															

[Signature]
Petitioner



STATEMENT OF DEPRECIATION

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
 Name of the Project: WRSS-IV
 Name of the Transmission Element: Bus Reactor at Damoh
 Name of Region: WESTERN REGION
 D.O.C.O: 01-JAN-2009

(Rs in Lakhs)

Sl.No.	Particulars	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009(Pro Rata)
1	Depreciation on Capital Cost as on DOCO					15.77
2	Depreciation on Additional Capitalisation					
3	Amount of Additional Capitalisation					0.91
4	Depreciation Amount					0.00
5	Details of FERV					0.00
6	Amount of FERV on which depreciation charged					0.00
7	Depreciation Amount					0.00
8	Depreciation Recieved during the year					15.78
9	Advance against Depreciation recovered during the year					0.00
10	Depreciation and Advance against Depreciation recovered during the year					15.78
11	Cumulative Depreciation And Advance against Depreciation recovered upto the year	0.00	0.00	0.00	0.00	15.78


Petitioner



CALCULATION OF DEPRECIATION RATE

POWERGRID CORPORATION OF INDIA LTD.
WRSS-IV
Bus Reactor at Dambh
WESTERN REGION
01-JAN-2009

Name of the Transmission Licensee:
Name of the Project:
Name of the Transmission Element:
Name of Region:
D.O.C.O.:

S/No.	Name of the Assets	Gross Block as on 31-Mar-2004 (As per COD, whichever is later)	Mid Cap 2008-2009	Total Cost (As on 31-Mar-2009)	Balance Estimated Expenditure	Estimated Completion Cost	Depreciation Rates as per CERC's Depreciation Schedule	Depreciation Amount	
1	LAND	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	
2	BUILDING	21.35	0.91	212.26	0.00	212.26	1.80%	3.82	
3	TR LINE	0.00	0.00	0.00	0.00	0.00	2.57%	0.00	
4	SUB STATION	1578.56	0.00	1578.56	369.26	1947.82	3.60%	56.83	
5	PLCC	41.10	0.00	41.10	1.01	42.11	6.00%	2.47	
6	Total	1831.01	0.91	1831.92	370.27	2202.19		63.11	
7	Weighted Average Depreciation Rate							3.45%	

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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 the Project: WRSS-IV
 Name of the Transmission Element: Bus Reactor at Damoh
 Name of Region: WESTERN REGION
 D.O.C.O: 01-JAN-2009

(Rs in Lakhs)

Particulars	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009
BOND XXVII					
Gross Loan Opening					350.00
Cumulative Repayments of Loans upto Previous Year					
Net Loans Opening					350.00
Add : Drawal(s) during the year					
Less : Repayments(s) of Loans during the year					
Net Loan Closing					350.00
Average Net Loan					350.00
Rate of Interest on Loan					9.47%
Interest on Loan					33.15
BOND XXVIII					
Gross Loan Opening					931.00
Cumulative Repayments of Loans upto Previous Year					
Net Loans Opening					931.00
Add : Drawal(s) during the year					
Less : Repayments(s) of Loans during the year					
Net Loan Closing					931.00
Average Net Loan					931.00
Rate of Interest on Loan					9.33%
Interest on Loan					86.86
Total					
Gross Loan Opening					1281.00
Cumulative Repayments of Loans upto Previous Year					
Net Loans Opening					1281.00
Add : Drawal(s) during the year					
Less : Repayments(s) of Loans during the year					
Net Loan Closing					1281.00
Average Net Loan					1281.00
Interest on Loan					120.01
Weighted Average Rate of Interest on Loans					9.3683%


Petitioner



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CALCULATION OF INTEREST ON LOANS

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
 Name of the Project: WRSS-IV
 Name of the Transmission Element: Bus Reactor at Damoh
 Name of Region: WESTERN REGION
 D.O.C.O: 01-JAN-2009

		(Rs in Lakhs)				
Sl No.	Particulars	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009(Pro Rata)
1	Gross Loan Opening					1,281.00
2	Cumulative Repayments of Loans upto Previous Year					0.00
3	Net Loans Opening					1,281.00
4	Add : Drawal(s) during the year					0.64
5	Less : Repayments(s) of Loans during the year					15.78
6	Net Loan Closing					1,265.86
7	Average Net Loan					1,273.43
8	Weighted Average Rate of Interest on Loans					9.3683%
9	Interest on Loan					29.82


Petitioner



CALCULATION OF ADVANCE AGAINST DEPRECIATION(AAD)

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.
Name of the Project: WRSS-IV
Name of the Transmission Element: Bus Reactor at Damoh
Name of Region: WESTERN REGION
D.O.C.O: 01-JAN-2009

(Rs in Lakhs)

Sl.N	Particulars	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009
0.						
1	1/10th of Loan					128.10
2	Repayment of the Loan(s) as considered for working out interest on Loan					15.78
3	Minimum of the above					15.78
4	Less : Depreciation during the year					15.78
5	(A)					0.00
6	Cumulative Repayment of the Loan(s) as considered for working out interest on Loan					15.78
7	Less : Cumulative Depreciation					15.78
8	(B)					0.00
9	Advance Against Depreciation (Minimum of A and B)					0.00


Petitioner



CALCULATION OF INTEREST ON WORKING CAPITAL

POWERGRID CORPORATION OF INDIA LTD.
WRSS-IV
Bus Reactor at Damoh
WESTERN REGION
01-JAN-2009

Name of the Transmission Licensee:
Name of the Project:
Name of the Transmission Element:
Name of Region:
D.O.C.O.:

Sl.No	Particulars	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009
1	O & M Expenses					2.74
2	Maintenance Spares	0.00	0.00	0.00	0.00	18.31
3	Receivables					50.18
4	Total Working Capital					71.23
5	Rate of Interest					12.25%
6	Interest on Working Capital					2.18
	Maintenance Spares Calculation					18.31
	D.O.C.O.	1831.01				18.31
	Total	1831.01				18.31

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[Signature]
Petitioner



DRAW DOWN SCHEDULE FOR CALCULATION OF IDC AND FINANCING CHARGES

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of the Project: **WRSS-IV**
 Name of the Transmission Element: **Bus Reactor at Damoh**
 Name of Region: **WESTERN REGION**
 D.O.C.O: **01-JAN-2009**

(Rs in Lakhs)

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	BOND XXVII									
	Draw Down Amount									350.00
	IDC									
	Financing Charges									
1.2.2	BOND XXVIII									
	Draw Down Amount									931.00
	IDC									
	Financing Charges									
	Total Indian Loans									
	Draw Down Amount									1281.00
	IDC									0.00
	Financing Charges									0.00
	Total of Loans Drawn									
	Draw Down Amount									1281.00
	IDC									62.34
	Financing Charges									0.00
2	Equity									
2.1	Foreign Equity Drawn									
2.2	Indian Equity Drawn									550.01
	Total Equity Deployed									550.01

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.


Petitioner



INDEX		
Name of the Company	POWRGRID CORPORATION OF INDIA LTD.	
Name of the Project :	WRSS IV transmission system	
Name of the Transmission Element :	EHV-220 KV Damoh S.S with ICT-1 along with associated I Bars (DOCO: 01.09.2008)	
Name of Region:	Western	
PART-III		
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-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	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	Loan allocation for all the loans audited upto 31.3.2009 shall be submitted shortly
FORM-9	Statement of Additional Capitalisation after COD	Yes
FORM-10	Financing of Additional Capitalisation	Yes
FORM-11	Statement of Depreciation	Yes
FORM-12	Calculation of Depreciation Rate	Yes
FORM-13	Calculation of Weighted Average Rate of Interest on Actual Loans	Yes
FORM-13A	Calculation of Interest on Loans	Yes
FORM-14	Calculation of Advance Against Depreciation (AAD)	Yes
FORM-15	Calculation of Interest on Working Capital	Yes
FORM-16	Draw Down Schedule for Calculation of IDC & Financing Charges	Yes
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.	Cop. of Balance sheet and Profit & Loss account for corporate and WR for FY 2008-9 will be furnished soon.
3	Copies of relevant loan Agreements	
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	Cop. of Relevant documents are enclosed
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	Equity contribution by GOI (86.36%) & others (13.64%)
6	Copies of the BPTA/TSA with the beneficiaries, if any	BPTA already enclosed
7	Detailed note giving reasons of time and cost over run, if applicable.	
8	Any other relevant information. (Please specify)	-Not Applicable -

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INDEX		
Name of the Company	POWRGRID CORPORATION OF INDIA LTD.	
Name of the Project :	WRSS IV transmission system	
Name of the Transmission Element :	400 /220 kV 315 MVA ICT II along with associated 400 kV & 220 kV bays at Damoh S/S(DOCO 01 12 2008)	
Name of Region:	Western	
PART-III		
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
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Sl. No.	Information/Document	Tick
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6	Copies of the BPTA/TSA with the beneficiaries, if any	BPTA already enclosed
7	Detailed note giving reasons of time and cost over run, if applicable.	
8	Any other relevant information, (Please specify)	-Not Applicable -




INDEX		
Name of the Company		POWRGRID CORPORATION OF INDIA LTD.
Name of the Project :		WRSS IV transmission system
Name of the Transmission Element :		400 kV 63 MVAR Reactor along with associated 400 kV Bay at Damoh S/S (DOCO 01 01 2009)
Name of Region:		Western
PART-III		
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
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Other Information/ Documents		
Sl. No.	Information/Document	Tick
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6	Copies of the BPTA TSA with the beneficiaries, if any	BPTA already enclosed
7	Detailed note giving reasons of time and cost over run, if applicable.	
8	Any other relevant information, (Please specify)	- Not Applicable -

