

(Through speed post)

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

IN THE MATTER OF:

Approval under regulation-86 of CERC (Conduct of Business) Regulations'1999 and CERC (Terms and Conditions of Tariff) Regulations'2009 for determination of Transmission Tariff for Transmission assets(Group-3) associated with 765 kV system for Central Part of Northern Grid Part-II, for Tariff block 2009-14 period in Northern Region.

PETITIONER

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

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

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

Power Grid Corporation of India Ltd., the petitioner in the matter, is filing an application under regulation-86, for determination of Transmission Tariff for above mentioned transmission system in Northern Region for the block 2009-2014.

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

ADDRESSES OF NODAL OFFICERS

1. **Chief Engineer (System Operation)**
Himachal Pradesh State Electricity Board
Vidyut Bhawan,
Shimla – 171 004 (H.P)
2. **Chief Engineer**
(System Operation & Communication)
Punjab State Electricity Board
220 KV Sub Station, Ablowal, Patiala - 147 001
3. **Chief Engineer**
Haryana Power Purchase Centre, IInd Floor,
Shakti Bhawan, Sector-6, Panchkula – 134 109
4. **Chief Engineer (Commercial & Survey Wing)**
Power Development Deptt.
Janipura Grid Station,
Jammu (Tawi) 180 007



5. **Chief Engineer**
Power Purchase Agreement Directorate
Uttar Pradesh Power Corporation Ltd.
10th Floor, Shakti Bhawan Extn.
14, Ashok Marg, Lucknow - 226 001
6. **The Chairman**
Delhi Transco Ltd.
Shakti Sadan
Kotla Road (near ITO). New Delhi
7. **Chief Engineer**
Chandigarh Administration
Sector -9, Chandigarh
8. **The Chairman**
UTTARAKHAND POWER CORPORATION LTD.
URJA BHAWAN, KANWALI ROAD
DEHRADUN.
9. **The Chief Engineer (RPCC)**
Rajasthan Power Procurement Centre.
Vidyut Bhawan, Janpath, Jaipur
10. **The Dy. Chief Engineer (RPCC)**
Ajmer Vidyut Vitran Nigam Ltd
400 KV GSS Building
Ajmer Road, Heerapura, Jaipur
11. **The Superintending Engineer (RPCC)**
Jodhpur Vidyut Vitran Nigam Ltd
400 KV GSS Building, Ajmer Road, Heerapura, Jaipur
12. **The Superintending Engineer (RPCC)**
Jaipur Vidyut Vitran Nigam Ltd
400 KV GSS Building
Ajmer Road, Heerapura, Jaipur
13. **Chief Electrical Distribution Engineer**
Northern Central Railway
Allahabad .



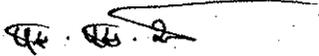
14. **Ch Manager (Power Purchase)**
BSES YAMUNA POWER LTD
Shakti Kiran Building, Karkardooma,
Delhi-110092

15. **Ch Manager (Power Purchase)**
BSES Rajdhani Power Ltd,
BSES Bhawan, Building No -20,
Nehru Place, NEW DELHI

16. **Manager Power Procurement and Commercial**
North Delhi Power Ltd,
Power Trading & Load Dispatch Group
Cennet Building,
Adjacent To 66/11 Kv Pitampura-3
Grid Building, Near PP Jewellers
PITAMPURA, NEW DELHI - 110034

17. **New Delhi Municipal Council**
Palika Kendra, Sansad Marg,
NEW DELHI-110002

PETITIONER
POWER GRID CORPORATION OF INDIA LTD.


REPRESENTED BY S.S.RAJU
DEPUTY .GENERAL MANAGER (COMMERCIAL)

GURGAON
DATED:08.08.2012



**BEFORE
THE CENTRAL ELECTRICITY REGULATORY COMMISSION**

NEW DELHI

PETITION FOR

Under Regulation 86 of CERC (Conduct of Business) Regulations'1999, and
CERC (Terms and Conditions of Tariff) Regulations'2009

Determination of Transmission Tariff from Anticipated DOCO to 31.03.2014
for

Transmission Assets (Group-3)

under

765 kV system for Central-Part of Northern Grid Part-II

for tariff block 2009-14 period in Northern Region.

PETITION NO. :

TARIFF BLOCK: 2009 - 2014

POWER GRID CORPORATION OF INDIA LTD.

REGISTERED OFFICE

**B-9, QUTAB INSTITUTIONAL AREA, KATWARIA SARAI,
NEW DELHI - 110 016**

CORPORATE CENTRE

**"SAUDAMINI", PLOT NO-2, SECTOR-29,
GURGAON-122 001 (HARYANA)
EPABX: 0124-2571 700 TO 719, FAX: 0124-2571989**

Handwritten signature and stamp

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

PETITION NO.:

IN THE MATTER OF:

Approval under regulation-86 of CERC (Conduct of Business) Regulations'1999 and CERC (Terms and Conditions of Tariff) Regulations'2009 for determination of Transmission Tariff for Transmission assets(Group-3) associated with 765 kV system for Central Part of Northern Grid Part-II, for Tariff block 2009-14 period in Northern Region.

IN THE MATTER OF:

Power Grid Corporation of India Ltd.

----- PETITIONER

Registered office: B-9, Qutab Institutional Area,

Katwaria Sarai, New Delhi 110 016 and

Corporate office: "Saudamini" ,Plot no.2,

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

HARYANA POWER PURCHASE CENTRE

--- RESPONDENTs

SHAKTI BHAWAN, SECTOR-6

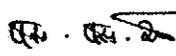
PANCHKULA (HARYANA) 134 109

REPRESENTED BY ITS S.E. / C & R-1 & others

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


**REPRESENTED BY S.S.RAJU
DY. GENERAL MANAGER (COMMERCIAL)**

GURGAON

DATED: 08.08.2012



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

PETITION NO.:

IN THE MATTER OF:

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IN THE MATTER OF:

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

----- PETITIONER

HARYANA POWER PURCHASE CENTRE
SHAKTI BHAWAN, SECTOR-6
PANCHKULA (HARYANA) 134 109
REPRESENTED BY ITS S.E. / C & R-1 & others

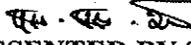
--- RESPONDENTS

To
The Secretary
Central Electricity Regulatory Commission
New Delhi. 110 001

Sir,

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

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


**REPRESENTED BY S.S.RAJU
DY. GENERAL MANAGER (COMMERCIAL)**

**GURGAON
DATED: 03.07.2012**



BEFORE
THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

FILE NO:.....
PETITION NO.:

IN THE MATTER OF:

Approval under regulation-86 of CERC (Conduct of Business) Regulations' 1999 and CERC (Terms and Conditions of Tariff) Regulations' 2009 for determination of Transmission Tariff for Transmission assets(Group-3) associated with 765 kV system for Central Part of Northern Grid Part-II, for Tariff block 2009-14 period in Northern Region.

IN THE MATTER OF:

Power Grid Corporation of India Ltd.

----- PETITIONER

Registered office: B-9, Qutab Institutional Area,

Katwaria Sarai, New Delhi 110 016 and

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

MEMO OF PARTIES

POWER GRID CORPORATION OF INDIA LTD.

--PETITIONER

VERSUS

NORTHERN REGION BENEFICIARIES

1. RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LIMITED
VIDYUT BHAWAN, VIDYUT MARG, JAIPUR - 302 005
REPRESENTED BY ITS CHAIRMAN & OTHERS
2. AJMER VIDYUT VITRAN NIGAM LTD
400 KV GSS BUILDING (GROUND FLOOR), AJMER ROAD,
HEERAPURA, JAIPUR.
REPRESENTED BY ITS MANAGING DIRECTOR & OTHERS
3. JAIPUR VIDYUT VITRAN NIGAM LTD
400 KV GSS BUILDING (GROUND FLOOR), AJMER ROAD,
HEERAPURA, JAIPUR.
REPRESENTED BY ITS MANAGING DIRECTOR & OTHERS
4. JODHPUR VIDYUT VITRAN NIGAM LTD
400 KV GSS BUILDING (GROUND FLOOR), AJMER ROAD,
HEERAPURA, JAIPUR.
REPRESENTED BY ITS MANAGING DIRECTOR & OTHERS



5. HIMACHAL PRADESH STATE ELECTRICITY BOARD
VIDYUT BHAWAN
KUMAR HOUSE COMPLEX BUILDING II
SHIMLA-171 004
REPRESENTED BY ITS CHAIRMAN
6. PUNJAB STATE ELECTRICITY BOARD
THE MALL, PATIALA - 147 001
REPRESENTED BY ITS CHAIRMAN
7. HARYANA POWER PURCHASE CENTRE
SHAKTI BHAWAN, SECTOR-6
PANCHKULA (HARYANA) 134 109
REPRESENTED BY ITS S.E. / C & R-1
8. POWER DEVELOPMENT DEPTT.
GOVT. OF JAMMU & KASHMIR
MINI SECRETARIAT, JAMMU
REPRESENTED BY ITS COMMISSIONER
9. UTTAR PRADESH POWER CORPORATION LTD.
(FORMARLY UTTAR PRADESH STATE ELECTRICITY BOARD)
SHAKTI BHAWAN, 14, ASHOK MARG
LUCKNOW - 226 001
REPRESENTED BY ITS CHAIRMAN
10. DELHI TRANSCO LTD
SHAKTI SADAN, KOTLA ROAD,
NEW DELHI-110 002
REPRESENTED BY ITS CHAIRMAN
11. BSES YAMUNA POWER Ltd,
Shakti Kiran Building, Karkardooma,
Delhi-110092
REPRESENTED BY ITS CEO
- 12 BSES RAJDHANI POWER Ltd,
BSES BHAWAN, NEHRU PLACE,
NEW DELHI
REPRESENTED BY ITS CEO
- 13 NORTH DELHI POWER Ltd,
POWER TRADING & LOAD DISPATCH GROUP
CENNET BUILDING,
ADJACENT TO 66/11 kV PITAMPURA-3
GRID BUILDING, NEAR PP JEWELLERS



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PITAMPURA, NEW DELHI - 110034
REPRESENTED BY ITS CEO

14 CHANDIGARH ADMINISTRATION
SECTOR -9, CHANDIGARH.
REPRESENTED BY ITS CHIEF ENGINEER

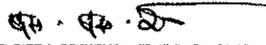
15. UTTARAKHAND POWER CORPORATION LTD.
URJA BHAWAN
KANWALI ROAD
DEHRADUN.
REPRESENTED BY ITS MANAGING DIRECTOR

16. NORTH CENTRAL RAILWAY
ALLAHABAD.
REPRESENTED BY CHIEF ELECTRICAL DISTRIBUTION ENGINEER

17. NEW DELHI MUNICIPAL COUNCIL
PALIKA KENDRA, SANSAD MARG,
NEW DELHI-110002
REPRESENTED BY CHAIRMAN

--- RESPONDENTS

PETITIONER
POWER GRID CORPORATION OF INDIA LTD.


REPRESENTED BY S.S. RAJU
DY. GENERAL MANAGER (COMMERCIAL)

GURGAON
DATED: 08.08.2012





हरियाणा HARYANA

26AA 842874

BEFORE
THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

PETITION NO.:

IN THE MATTER OF:

Approval under regulation-86 of CERC (Conduct of Business) Regulations'1999 and CERC (Terms and Conditions of Tariff) Regulations'2009 for determination of Transmission Tariff for Transmission assets(Group-3) associated with 765 kV system for Central Part of Northern Grid Part-II, for Tariff block 2009-14 period in Northern Region.

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Power Grid Corporation of India Ltd.

----- PETITIONER

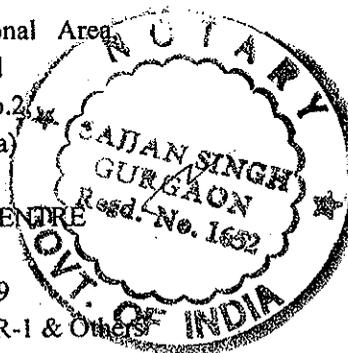
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HARYANA POWER PURCHASE CENTRE
SHAKTI BHAWAN, SECTOR-6

PANCHKULA (HARYANA) 134 109

REPRESENTED BY ITS S.E. / C & R-1 & Others



--- RESPONDENT s

Affidavit verifying the Petition

I, S.S.Raju, S/o Shri S.B. Raju, working as Deputy General Manager (Commercial) in the Powergrid Corporation of India Ltd., having its registered Office at B-9, Institutional Area,



Katwaria Sarai, New Delhi-110 016, do hereby solemnly affirm and state as under:-

1. I am the Dy. General Manager (Commercial) of Power Grid Corporation of India Ltd., the representative of the Petitioner in the above matter, and am duly authorised to make this affidavit.
2. I submit that the enclosed petition is being filed determination of Transmission Tariff from DOCO to 31.03.2014 for Transmission assets(Group-3) associated with 765 kV system for Central Part of Northern Grid Part-II, for Tariff block 2009-14 period in Northern Region.
3. I submit that no other petition except this petition has been filed directly or indirectly for approval of Transmission Tariff from DOCO to 31.03.2014 for Transmission assets(Group-3) associated with 765 kV system for Central Part of Northern Grid Part-II, for Tariff block 2009-14 period in Northern Region.
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 documents attached with the petition are legible copies and duly attested by me.

Q6 . Q2 . 2
(DEPONENT)

VERIFICATION

Solemnly affirmed at Gurgaon on this 8th day of Aug'2012 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.

Q6 . Q2 . 2
(DEPONENT)



ATTESTED
8/8/12
(SAJJAN SINGH)
ADVOCATE & NOTARY
GURGAON (HARYANA)



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

**FILE NO.....
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HARYANA POWER PURCHASE CENTRE
SHAKTI BHAWAN, SECTOR-6
PANCHKULA (HARYANA) 134 109
REPRESENTED BY ITS S.E. / C & R-1 & 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. The Petitioner herein, Power Grid Corporation of India Ltd. is a Government Company within the meaning of Companies Act, 1956. The Petitioner is also discharging the statutory functions under various applicable provisions, including in particular section 28 and 38 of the Electricity Act, 2003. In exercise of powers under sub-section (1) of section 38(1) the Electricity Act 2003, the Government of India has declared the Petitioner herein as the Central Transmission Utility.
2. That, Hon'ble Commission have notified CERC (Terms and Conditions of Tariff) Regulations, 2009, in accordance with which tariff based on capital cost of the transmission projects shall be determined. These Regulations have come in to force on 1.4.2009 and shall remain in force for a period of 5 years, unless reviewed earlier or extended by the Hon'ble Commission.
3. The administrative approval and expenditure sanction to the transmission project was accorded by the Board of Directors of POWERGRID vide C/CP/765 kV System in Northern Grid dated 30.07.2009 for Rs 1736.36 crores including an IDC of Rs



116.62 crores based on 1st Quarter, 2009 price level, a copy whereof is attached hereto as Encl.-1, page. 19...to 20.

4. The scope of work covered under the project is as follows:

The broad scope of works is given below:

Substations

- (i) New 4x1500 MVA, 765/400 kV Substation at Jhatikara
- (ii) Augmentation of 400/220 kV Meerut Substation to 2x1500 MVA, 765/400 kV Substation
- (iii) Augmentation of 400/220 kV Moga Substation to 2x1500 MVA, 765/400 kV Substation
- (iv) Extension of Agra 765/400 kV Substation

Reactive compensation

| Line Reactors | | Line Reactor- From bus | Line Reactor- To bus |
|---------------|----------------------------------|---------------------------|--------------------------|
| 1 | Agra – Jhatikara 765 kV S/C line | | 240 (Switchable) |
| 2 | Meerut - Agra 765 kV S/C line | 240 MVAR (Switchable) | |
| 3 | Bhiwani – Moga 765 kV S/C line | | 240 MVAR (Switchable) |
| Bus Reactors | | | |
| 1 | Jhatikara – 1x240 MVAR | | |
| 2 | Meerut – 1x240 MVAR | | |
| 3 | Moga – 2x240 MVAR | | |

The Schematic diagram of the Scheme is attached hereto as Encl.- 2 (page 21. to 21.).

5. That, as per the approval, the project scope was scheduled to be commissioned within 30 months from the date of Investment approval. The date of Investment approval is 30.07.2009 and accordingly the schedule of completion works out to 30.01.2012 say February'2012 against which the asset covered in the petition is scheduled to be commissioned as follows:

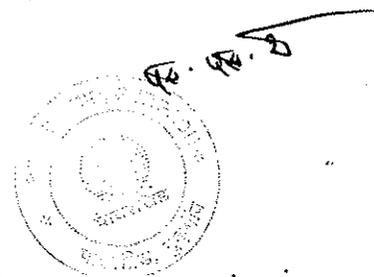
| Sl No | Name of the asset | Schedule of Commissioning as per Investment Approval | Anticipated DOCO | Delay in months | Remarks |
|----------|---|--|--------------------------|------------------|-----------------------------------|
| Asset A: | 765 kV Bays for Moga-Bhiwani T/L and 765 kV, 240 MVAR (3x80) Line Reactor at Moga S/S | 30.01.2012 say February'2012 | 01.04.2012 (anticipated) | Delay : 2 months | Covered Under Petition no 77/2012 |
| Asset B: | 765/400 kV, 1500 MVA(3x500) ICT-I at Moga S/S | | | | |



| | | | | | |
|----------|---|------------------------------|----------------------------|------------------|------------------------------------|
| Asset C: | 765 kV, 240 MVAR (3x80) Bus Reactor-I at Moga S/S | | | | |
| Asset D: | 765/400 kV, 1500 MVA(3x500) ICT-II at Moga S/S | | 01.07.2012 (anticipated) | Delay : 5 months | |
| Asset E: | 765 kV, 240 MVAR (3x80) Bus Reactor-II at Moga S/S | | | | |
| Asset F: | 765/400/33 kV, 1500 MVA ICT-I at Jhattikara S/S | 30.01.2012 say February'2012 | 01.07.2012 (anticipated) | Delay : 5 months | Covered Under Petition no 100/2012 |
| Asset G: | 765/400/33 kV, 1500 MVA ICT-II at Jhattikara S/S | | | | |
| Asset H: | 765/400/33 kV, 1500 MVA ICT-III at Jhattikara S/S | | | | |
| Asset I: | 765/400/33 kV, 1500 MVA ICT-IV at Jhattikara S/S | | | | |
| Asset J: | 765/400/33 kV, 1500 MVA ICT-I at Meerut S/S | | | | |
| Asset K: | 765/400/33 kV, 1500 MVA ICT-II at Meerut S/S | | 01.09.2012 (anticipated) | Delay: 7 months | |
| Asset-1 | Associated bays for LILO of both ckts of 400 KV D/C Bamnauli-Mundka/Bawana at Jattikalan 765/400 KV new S/S | 30.01.2012 say February'2012 | (anticipated) (01.09.2012) | Delay: 7 months | |
| Asset-2 | Associated Line bays of Agra- Jattikalan 765 KV S/C transmission line at Agra 765 KV Ext S/S and at Jattikalan 765/400 KV new S/S | 30.01.2012 say February'2012 | (anticipated) (01.01.2013) | Delay: 11 months | Covered Under Present Petition |
| Asset-3 | Associated Line bays of Agra- Meerut 765 KV S/C Transmission Line at Meerut(Aug of Meerut 400 KV S/S to 765 KV) and Agra (765 KV Ext S/S) | 30.01.2012 say February'2012 | (anticipated) (01.12.2012) | Delay: 10months | |

Tariff has been calculated as per the Auditor's certificate, however, pro-rata tariff has been considered from the revised anticipated DOCO.

Possession of land for Jattikalan S/S received on 22.09.09 .Work delayed in some part of total land , as forest clearance received on 24.06.10(the application was moved by POWERGRID in Oct'09).Work at Jattikalan also hampered due to villagers on issue of disbursement of final 20% payment by ADM which finally got cleared by Jun'11.The delay in completion is beyond the petitioner control , thus it may be condoned by Hon'ble commission.



6. Completion Cost

The details of apportioned approved FR cost, cost as on DOCO and estimated additional capitalization projected to be incurred of the asset covered in this petition is summarized below

Rs in Lakhs

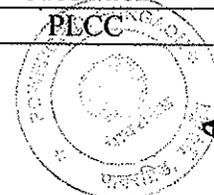
| Name of the asset | Apportioned Approved Cost | Actual Cost incurred/ projected to be incurred as on actual /anticipated DOCO) | Projected Additional Capitalization in 2012-13 | Projected Additional Capitalization in 2013-14 | TOTAL Estimated completion Cost |
|-------------------|---------------------------|--|--|--|---------------------------------|
| Asset-1 | 6618.32 | 5229.21 | 577.64 | 192.48 | 5999.33 |
| Asset-2 | 8477.17 | 7273.17 | 264.68 | 171.56 | 7709.41 |
| Asset-3 | 7762.78 | 6296.09 | 962.71 | 320.9 | 7579.7 |
| Total | 22858.27 | 18798.47 | 1805.03 | 684.94 | 21288.44 |

Copies of auditor's certificates in respect of the Asset-1 to Asset-3 dated 27.03.2012 are enclosed herewith as **Encl-3 (page 22 to 27)**.

- 7 The reasons for item wise cost variation between approved cost (FR) and actual cost as on DOCO are explained in detail in Form-5B .That details of apportioned approved cost and total estimated completion cost has been given at Form-5D.
- 8 The admissibility of additional capital expenditure (Add. Cap.) incurred after DOCO is to be dealt in accordance with the provisions of Regulation 9 (1). The details of underlying assumptions for additional capitalization are:

Rs in Lakhs

| | | | | |
|---------|---|--------|--------------|--------------|
| Asset-1 | 2012-13 (Balance/Retention Payments) | - | Land | |
| | | - | Building | |
| | | 577.64 | Substation | |
| | | - | PLCC | |
| | | | 577.64 | Total |
| | 2013-14 (Balance/Retention Payments) | - | Land | |
| | | - | Building | |
| | | 192.48 | Substation | |
| - | | PLCC | | |
| | | 192.48 | Total | |
| Asset-2 | 2012-13 (Balance/Retention Payments) | - | Land | |
| | | - | Building | |
| | | 264.68 | Substation | |
| | | - | PLCC | |
| | | | 264.68 | Total |
| | 2013-14 (Balance/Retention Payments) | - | Land | |
| | | - | Building | |
| | | 171.56 | Substation | |
| - | | PLCC | | |



| | | | |
|----------------|--|--------|--------------|
| | | 171.56 | Total |
| Asset-3 | 2012-13 (Balance/Retention Payments) | - | Land |
| | | - | Building |
| | | 962.71 | Substation |
| | | - | PLCC |
| | | 962.71 | Total |
| | 2013-14 (Balance/Retention Payments) | - | Land |
| | | - | Building |
| | | 320.90 | Substation |
| | | - | PLCC |
| | | 320.90 | Total |

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

9 TRANSMISSION TARIFF :

9.1 That as per regulation 13 (3) and regulation 14 of the CERC (Terms and Conditions of Tariff) Regulations, 2009, the tariff for transmission of electricity on ISTS shall comprise transmission charge for recovery of annual fixed cost consisting of (a) Return on Equity, (b) Interest on Loan, (c) Depreciation, (d) Interest on Working Capital and (e) Operation and maintenance expenses. The tariff for block 2009-2014 has been worked out as per Appendix-I of the tariff regulations for period 2009-14

9.2 The tariff from 01.04.2009 to 31.03.2014 is summarized below :

| (Rs in Lakhs) | | | | | | |
|---------------|---------------------------|---------|---------|---------|------------------------|---------|
| Asset | Revised Anti - DOCO | 2009-10 | 2010-11 | 2011-12 | 2012-13* (Pro-rata) | 2013-14 |
| Asset-1 | 01.09.2012 | - | - | - | 635.76 | 1155.78 |
| Asset-2 | 01.01.2013 | - | - | - | 379.27 | 1544.64 |
| Asset-3 | 01.12.2012 | - | - | - | 479.61 | 1538.74 |

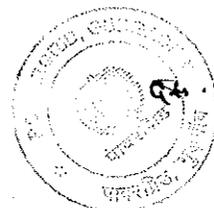
Note: Tariff has been calculated as per the Auditor's certificate, however, pro-rata tariff has been considered from the revised anticipated DOCO.

It is submitted that upon actual commissioning of the Assets, Tariff will be claimed from beneficiaries from actual DOCO, and an affidavit to this effect shall be submitted to CERC with actual DOCO letter.

The Tariff Filing Formats along with the other relevant information and supporting documentation (if any) are attached hereto as Encl. - 4, page 28 to 38 .

9.3 That, it is submitted in the Tariff indicated at 9.2 above, the ROE has been calculated @ 17.481 % based on the rate notified by the Hon'ble Commission as per illustration under regulation 15 (4) (i) of the CERC (Terms and Conditions of Tariff) Regulations, 2009. It is further submitted that the above rate of 17.481 % is based on the MAT rate of 11.33 % being applicable for the year 2008-09.

9.3.1 That further in line with the amendment dated 21.06.2011 to Regulation 15 of the Principal Tariff Regulation dated 19.01.2009, the petitioner shall be allowed to recover the shortfall or refund the excess Annual Fixed Charges, on account of Return



on Equity due to change in applicable Minimum Alternate/Corporate Income Tax rate as per the Income Tax Act, 1961 (as amended from time to time) of the respective financial year directly without making any application before the Commission. Further, Annual Fixed charges with respect to Tax rates applicable shall be trued up in accordance with Regulation 6 of the Principal Regulations.

- 9.4 **Service Tax:** Service Tax on transmission has been put on negative list w.e.f. 01.04.2012 and therefore the transmission charges indicated at Para-9.2 above, is exclusive of Service Tax and the same shall be borne and additionally paid by the respondent(s) to the petitioner and the same shall be charged, billed separately by the petitioner in case same is withdrawn from the negative list at any time as above in future.
- 9.5 That Interest on Loan has been calculated on the basis of rate prevailing as on 01.04.2009. The change in Interest rate due to floating rate of interest applicable, if any, for the project needs to be claimed / adjusted over the tariff block of 05 years directly from / with the beneficiaries as was being followed during the tariff block 2004-09.
- 9.6 The transmission charges at para-9.2 above is inclusive of O&M expenses for the project derived based on the norms for O&M expenditure as specified under regulation 19(g) of the tariff regulations for block 2009-14. It is the understanding of the petitioner that these norms for O&M expenditure been arrived by the Hon'ble Commission after considering (i) normalized actual O&M expenses of the petitioner on its various projects in various regions during the year 2003-04, 2004-05, 2005-06, 2006-07, 2007-08, (ii) the base norms so arrived is escalated at 5.72% per annum to arrive at norms for years of tariff period 2009-14, (iii) and also wage hike of 50% on account of pay revision of the employees of Public Sector Undertakings. It is submitted that the wage revision of employees has been implemented. The petitioner reserves the right to approach the Hon'ble Commission for suitable revision in the norms for O&M expenditure due to impact of wage revision.
- 9.7 Petitioner submits that the Licensee fee has been a new component of cost to the Transmission licensee under O&M stage of the project and has become incidental to the petitioner / CTU only from 2008-09. It is therefore submitted that Licence fee shall be recovered separately from the respondents after the amendment in the Regulation' 2009 as per direction of Hon'ble Commission order dated 25.10.2011 in petition no. 21/2011.
- 9.8 The Transmission Charges and other related Charges indicated at para 9.2 above, is exclusive of incentive, late payment surcharge, FERV, any statutory taxes, levies, duties, cess, filing fees, license fee or any other kind of imposition (s) and/ or other surcharges etc. whatsoever imposed / charged by any Government (Central/State) and / or any other local bodies/authorities/regulatory authorities in relation to transmission of electricity, environmental protection, and/or in respect of any of its installation associated with the Transmission System and the same shall be borne and additionally paid by the respondent(s) to the petitioner and the same shall be charged, billed separately by the petitioner on the respondents.

10 **Sharing of Transmission Charges**

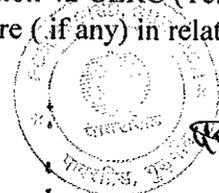


- 10.1 That all the respondents have agreed in and it was approved in 11th NRPC meeting to become part of the main BPTA. A copy of the documents is enclosed herewith as Encl -5 (page 99 to 100). Further, billing and payment of charges shall be also in accordance to the Regulation 32 as amended under para 8 of the Central Electricity Regulatory Commission (Terms and Condition of Tariff) (Second Amendment) Regulation, 2011.
- 10.2 Tariff for Transmission of Electricity (Annual Fixed Cost) as per para 9 above shall be recovered on monthly basis in accordance with Regulation 23 and shall be shared by the respondents in accordance with regulation as amended under para 8 of the Central Electricity Regulatory Commission (Terms and Condition of Tariff) (Second Amendment) Regulation, 2011.
- 10.3 Transmission Charges up to 30.06.2011 shall be shared by the Constituents of NR. With effect from 01.07.2011, the billing collection and disbursement of Transmission Charges shall be governed by provision of CERC (sharing of interstate Transmission Charges and Losses) Regulations, 2010 and the Removal of difficulties orders issued thereafter.
- 10.4 That Transmission Tariff for the subject asset is to be entirely borne by the respondents to the Petition.
- 11 In the circumstances mentioned above it will be just and proper that the transmission tariff for the assets covered under this petition be allowed to be charged from the Respondents on the basis set out in para-10 above. **The Petitioner submits that the Encl.-1 to Encl.-6 may please be treated as integral part of this petition.**

PRAYER

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

- 1) Approve the Transmission Tariff for the assets covered under this petition, as per para - 9 above.
- 2) Approve the additional capitalisation during the year 2012-13 & 2013-14.
- 3) Allow to recover the shortfall or refund the excess Annual Fixed Charges, on account of Return on Equity due to change in applicable Minimum Alternate/Corporate Income Tax rate as per the Income Tax Act, 1961 (as amended from time to time) of the respective financial year directly with the beneficiaries.
- 4) Allow the petitioner to bill and adjust impact on Interest on Loan due to change in Interest rate on account of floating rate of interest applicable during 2009-14 period, if any, from the respondent.
- 5) Approve the reimbursement of expenditure by the beneficiaries towards petition filing fee, and publishing of notices in newspapers in terms of Regulation 42 CERC (Terms and Conditions of Tariff) Regulations, 2009, and other expenditure (if any) in relation

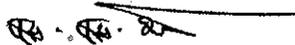


to the filing of petition.

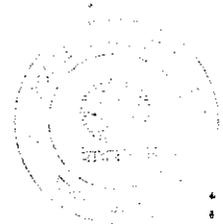
- 6) Allow the Petitioner to bill and recover Service tax on Transmission Charges separately from the respondents, if transmission of power is withdrawn from the negative list at any time in future.
- 7) Allow the petitioner to bill and recover License fee separately from the respondent after the amendment in the Regulation' 2009 in line with order dated 25.10.2011 in petition no. 21/2011.
- 8) Allow the petitioner provisional tariff in accordance with clause (3) of Regulation 5 CERC (Terms and Conditions of Tariff)(First and Second Amendment) Regulations,2011.
- 9) Allow the petitioner to raise the bills from actual DOCO.

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

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


**REPRESENTED BY S.S.RAJU
DY. GENERAL MANAGER (COMMERCIAL)**

**GURGAON
DATED: 08.08.2012**



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



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

केन्द्रीय कार्यालय / CORPORATE CENTRE

/ Ref. No.

C/CP/765 kV System in Northern Grid

July 30, 2009

MEMORANDUM

SUB: INVESTMENT APPROVAL FOR "765 KV SYSTEM FOR CENTRAL PART OF NORTHERN GRID - PART-II"

The Board of Directors of POWERGRID, in exercise of powers delegated to it by the Department of Public Enterprises (DPE), Ministry of Heavy Industries and Public Enterprises, Government of India through its Office Memorandum No. 26(3)/2005-GM-GL-92 dated 1st May, 2008 and Office Memorandum No. DPE/11(2)/97-Fin. dated 22nd July, 1997 (modified subsequently through Office Memorandum No. 18(24)/2003-GM-GL.64 dated 5th August, 2005), have accorded investment approval for "765 KV System for Central Part of Northern Grid - Part-II" in its 224th meeting held on July 29, 2009, as per the details given below:

1. Scope of project

The broad scope of works is given below:

Substations

- (i) New 4x1500 MVA, 765/400 kV Substation at Jhatikara
- (ii) Augmentation of 400/220 kV Meerut Substation to 2x1500 MVA, 765/400 kV Substation
- (iii) Augmentation of 400/220 kV Moga Substation to 2x1500 MVA, 765/400 kV Substation
- (iv) Extension of Agra 765/400 kV Substation

ATTACHED TO...

Signature
Authorized Signatory
Power Grid Corporation of India Ltd.
Sector 29, Gurgaon-122 001 (HARYANA)

1) DGM (ES)
2) CFM

RAJ
Mya (PESM) Jan. 09
my

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

स्वास्थ्य एवं राष्ट्रहित में ऊर्जा बचाए



Reactive compensation

| Line Reactors | | Line Reactor- From bus | Line Reactor- To bus |
|---------------|----------------------------------|---------------------------|--------------------------|
| 1 | Agra – Jhatikara 765 kV S/C line | | 240 (Switchable) |
| 2 | Meerut - Agra 765 kV S/C line | 240 MVAR (Switchable) | |
| 3 | Bhiwani – Moga 765 kV S/C line | | 240 MVAR (Switchable) |
| Bus Reactors | | | |
| 1 | Jhatikara – 1x240 MVAR | | |
| 2 | Meerut – 1x240 MVAR | | |
| 3 | Moga – 2x240 MVAR | | |

2. Project Cost & Funding

The estimated cost of the project based on 1st Quarter, 2009 price level is Rs. 1736.36 Crore including IDC of Rs. 116.62 Crore. The abstract cost estimate is attached as Annexure-I.

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

3. Commissioning Schedule

The transmission scheme is scheduled to be commissioned within 30 months from the date of investment approval matching with the commissioning of transmission lines of Part-I.

This is issued in pursuance of the minutes of meeting of the 224th meeting of Board of Directors held on July 29, 2009.

ATTACHED TRUE COPY

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

(A. K. Singhal) 30/7/09
Deputy General Manager (CP)

Distribution:

1. PS to Secretary (Power), MoP, Shram Shakti Bhawan, New Delhi-110 001
2. Chairman, CERC, Core-3, 6th floor, SCOPE complex, New Delhi- 110 003
3. Chairman, CEA, R.K.Puram, New Delhi -66
4. Commissioner, Power Development Deptt., Govt. of Jammu & Kashmir, Mini Secretariat, Jammu
5. Chairman, Himachal Pradesh SEB, Vidyut Bhawan, Kumar House Complex Building-II, Shimla-171004
6. Chairman, Punjab State Electricity Board, The Mall, Patiala-147001
7. CMD, Haryana Vidyut Prasaran Nigam Ltd., Shakti Bhawan, sector-6, Panchkula (Haryana) - 134109
8. CMD, Rajasthan State Electricity Board, Vidyut Bhawan, Vidyut Marg, Jaipur-302005.
9. CMD, UPPCL, Shakti Bhawan, 14, Ashok Marg, Lucknow - 226001
10. CMD, Uttarakhand Power Corporation Ltd., Kaulagarh Power House, FRI complex, Dehradun-248006.
11. CMD, Delhi Transco Limited (DTL), Shakti Sadan, Kolla Road, New Delhi-02
12. Chief Engineer, Electricity Deptt., Chandigarh Administration, Mini Secretariat, (U.T.), Sector-9, Chandigarh.
13. Advisor, PAMD, Planning Commission, Yojana Bhawan, New Delhi
14. Additional Secretary, MOP, Shram Shakti Bhawan, New Delhi
15. Member Secretary, Planning Commission, Yojana Bhawan, New Delhi
16. Member Secretary, NRPC, 18/A, Shaheed Jeet Singh Sansanwal Marg, Katwaria Sarai, New Delhi-110 016
17. Member (Power Systems), CEA, R.K.Puram, New Delhi -66
18. Secretary, CEA, Sewa Bhawan, R.K.Puram, New Delhi -66. - 03 copies
19. Joint Secretary, Ministry of Statistics & Programme Implementation, Sardar Patel Bhawan, New Delhi.
20. Joint Secretary & Financial Advisor, MOP, Shram Shakti Bhawan, New Delhi
21. Joint Secretary (Plan Finance Div.-II), Ministry of Finance
22. Director (Trans), MOP, Shram Shakti Bhawan, New Delhi
23. Director, Ministry of Finance (Plan finance Div.) North Block, New Delhi
24. Deputy Secretary, Cabinet Secretariat, Rashtrapati Bhawan, New Delhi
25. Under Secretary, Finance & Budget Section, MoP

A.K. Singh
20/7/18

(A.K. Singh)
Deputy General Manager (CP)

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[Signature]
Joint Secretary
Power & Energy, Haryana Ltd.
Sector-15, Gurgaon-122 001 (HARYANA)

Distribution:

1962
11/8/09

ED: Engg.-II / IB & ESMD / OS/ Comml. / Finance – Sh. R. T. Agarwal / SO/ CS & MM/ CMG / HR – Sh. R. P. Ojha/ HR – Sh. I. R. Kidwai/ Law / Finance – Sh. V. C. Jagannathan / NR-I / NR-II

GM I/c: Engg.-I

GM: NRLDC

Company Secretary

For kind information to:

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

CVO

A.K. Singhal
23.12.19

(A. K. Singhal)
Deputy General Manager (CP)

ARM (K)

11/8

ES - per key original.
CC DGM (PEM)
17.08.

ATTESTED TRUE COPY

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

EXTRACT COST ESTIMATE
(BASE COST)

765 KV SYSTEM FOR CENTRAL PART OF NORTHERN GRID - PART - II

(Cost updated to 1st Qtr. 2009 price level)

| Sr. No. | DESCRIPTION | AMOUNT (Rs. in Crs.) |
|---------|---|-------------------------|
| A | Preliminary Survey & Soil Investigation | 0.16 |
| B | Land acquisition for S/Stn and R&R Compensation | 85.80 |
| C | Cost of compensation for Trans. Lines | |
| | i) Compensation towards Crop & PTCC | 0.00 |
| | ii) Compensation towards forest | 0.00 |
| D | Civil Works | |
| | i) Infrastructure for substations | 6.00 |
| | ii) Non Residential Buildings | 3.08 |
| | iii) Colony for Trans. Lines and S/stn | 4.98 |
| E | Equipment (Supply & Erection) Cost | |
| | a) Trans. Lines | 0.00 |
| | b) Sub-Stations | 1223.31 |
| F | Sub Total A to E | 1325.33 |
| G | Misc Tools & Plants | |
| H | Maintenance during construction | |
| I | Engg. & Administration | @ 5% of [F - C(ii)] |
| J | Losses on Stock | |
| K | Contingencies @ 3% of [F - C(ii)] | 39.76 |
| L | Centages & Contingencies @ 8% on Compensatory Afforestation | 0.00 |
| M | Customs duty @ 18.624% & handling charges @ 2% | 188.38 |
| | Sub Total (A to M) | 1619.74 |
| N | Interest During Construction (IDC) | 116.62 |
| | GRAND TOTAL | 1736.36 |

Note: 1. Loan has been assumed to be available from Domestic sources.
2. Interest rate on Loan has been considered @ 10.5% for Domestic Loan subject to actuals.

3. Debt:Equity ratio has been considered as 70:30.

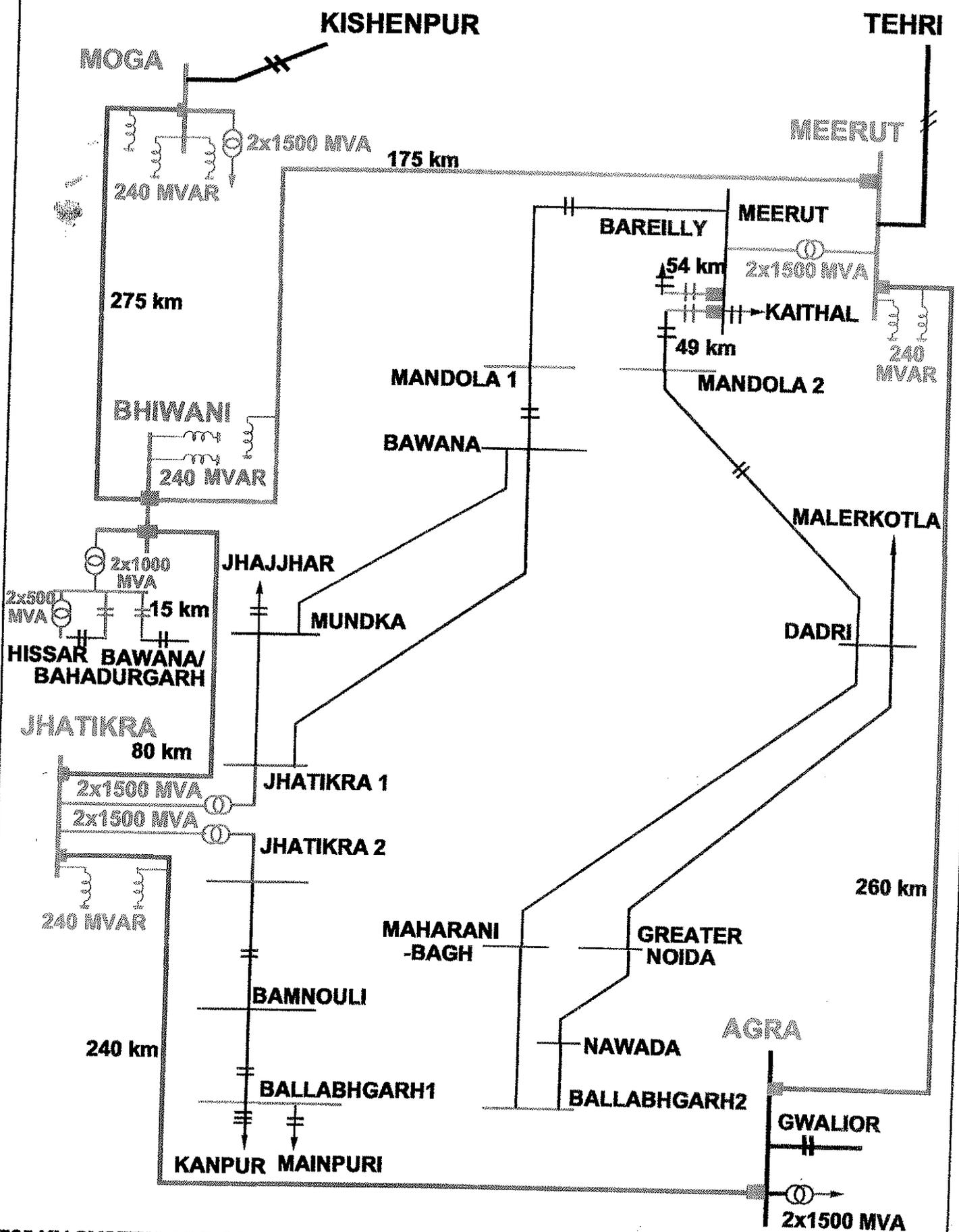
Exchange Rate considered : 1 CHF = Rs. 43.54
(as on 16.03.2009) 1 SEK = Rs. 5.99
1 USD = Rs. 51.62
1 UK POUND = Rs. 72.36
1 EURO = Rs. 64.84

Foreign Exchange component in above in equivalent Rs.Crores = 991.66

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Authorized Signatory
Power of Attorney Holder
Plaza-2, Sector-26, Gurgaon-122 001 (HARYANA)

765 KV SYSTEM FOR CENTRAL PART OF NORTHERN GRID



765 KV SYSTEM FOR CENTRAL PART OF NORTHERN GRID

- PART I
- - - PART II
- PART III

ATTESTED TRUE COPY
 765 KV LINE
 400 KV LINE

Authorized Signatory
 Cooperation of
 File No.-2, Sector-29, Gurgaon (HARYAN)

S.K.Mehta & CO.
Chartered Accountants

2682/2, Bendon Pura, Karol Bagh
New Delhi-110005
Ph. 011-28755156, 28753879

CERTIFICATE OF CAPITAL COST

Project Name :

Associated bays for LILO of both CKTS of 400 KV D/C Bannouli-Mundka/Bawna at Jatikalan 765/400 KV new S/s under 765 KV System for Central Part of Northern Grid Part - II

Date of Commercial Operation:

Anticipate: 01.07.2012

(Rs in Lacs)

| Sl No. | Particulars | Land (Freehold) | Civil & Building | Substation | T/L | PLCC | Total |
|--------|--|-----------------|------------------|-----------------|-------------|---------------|-----------------|
| 1 | Expenditure up to 31.03.2011 | 1,997.70 | 163.46 | 969.88 | 0.00 | 0.00 | 3,131.04 |
| 2 | Expenditure for the period 01.04.2011 to 31.12.2011 | 24.21 | 90.44 | 806.51 | 0.00 | 0.00 | 921.16 |
| 3 | Estimated Expenditure for the period 01.01.2012 to 31.03.2012 | 0.00 | 51.30 | 236.76 | 0.00 | 50.00 | 338.06 |
| 4 | Estimated Expenditure for the period 01.04.2012 to 30.06.2012(DOCO 01.07.2012) | 0.00 | 41.69 | 739.26 | 0.00 | 58.00 | 838.95 |
| 5 | Estimated Expenditure for the period 01.07.2012 to 31.03.2013 | 0.00 | 0.00 | 577.64 | 0.00 | 0.00 | 577.64 |
| 6 | Estimated Expenditure 2013-14 | 0.00 | 0.00 | 192.48 | 0.00 | 0.00 | 192.48 |
| | Total | 2,021.91 | 346.90 | 3,522.52 | 0.00 | 108.00 | 5,999.33 |
| | Initial Spares included in above (Substation) | | | | | | 33.27 |

The expenditure up to 31-03-2011 as referred above has been verified on the basis of the information drawn from the audited statement of Accounts of Power Grid Corporation of India Ltd., NRTS-I, New Delhi for the period ended 31-03-2011. Expenditure from 01.04.2011 to 31.12.2011 has been verified from the books of accounts of the project for the period. The estimated expenditure are on the basis of details furnished by the Management.

Date: 27/03/2012
Place : New Delhi

ATTESTED TRUE COPY

For S.K.Mehta & Co.
Chartered Accountants
FRN:000478N

For S.K.Mehta & Co.
Chartered Accountants
FRN:000478N

ROHIT MEHTA
PARTNER
M.No. 91382

S.K.Mehta & CO.
Chartered Accountants

2682/2, Beadon Pura, Karol Bagh
New Delhi-110005
Ph. 011-28755156, 28753879

CERTIFICATE OF CAPITAL COST

Project Name :

Associated bays for LILO of both CKTS of 400 KV
D/C Bannouli-Mundka/Bawna at Jatikalau
765/400 KV new S/s under 765 KV System for
Central Part of Northern Grid Part - II

Date of Commercial Operation:

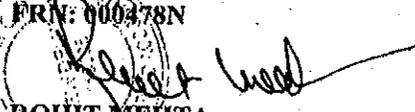
Anticipated

(Rs in Lacs)

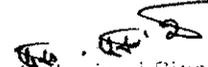
| Sl No. | Particulars | Capital Cost | IEDC | IDC | Total |
|--------|--|-----------------|--------------|---------------|-----------------|
| 1 | Expenditure up to 31.03.2011 | 3,045.93 | 17.30 | 67.81 | 3,131.04 |
| 2 | Expenditure for the period 01.04.2011 to 31.12.2011 | 859.48 | 21.59 | 40.09 | 921.16 |
| 3 | Estimated Expenditure for the period 01.01.2012 to 31.03.2012 | 317.50 | 7.20 | 13.36 | 338.06 |
| 4 | Estimated Expenditure for the period 01.04.2012 to 30.06.2012(DOCO 01.07.2012) | 818.39 | 7.20 | 13.36 | 838.95 |
| 5 | Estimated Expenditure for the period 01.07.2012 to 31.03.2013 | 577.64 | 0.00 | 0.00 | 577.64 |
| 6 | Estimated Expenditure 2013-14 | 192.48 | 0.00 | 0.00 | 192.48 |
| | Total | 5,811.42 | 53.28 | 134.63 | 5,999.33 |

The expenditure up to 31-03-2011 as referred above has been verified on the basis of the information drawn from the audited statement of Accounts of Power Grid Corporation of India Ltd., NRTS-I, New Delhi for the period ended 31-03-2011. Expenditure from 01.04.2011 to 31.12.2011 has been verified from the books of accounts of the project for the period. The estimated expenditure are on the basis of details furnished by the Management.

Place : New Delhi
Date: 27/03/2012

For S.K.Mehta & Co.
Chartered Accountants
FRN: 000378N

ROHIT MEHTA
PARTNER
M.No. 91382

ATTESTED TRUE COPY


S.K. Mehta & Co.
Chartered Accountants
2682/2, Beadon Pura, Karol Bagh, New Delhi-110005 (INDIA)

CERTIFICATE OF CAPITAL COST

Project Name : **Associated Line bays of Agra-Jatikalán 765 KV S/C Transmission Line at Agra 765KV Extn S/S and at Jatikalán 765/400 KV new S/s under 765 KV System for Central Part of Northern Grid Part-II**

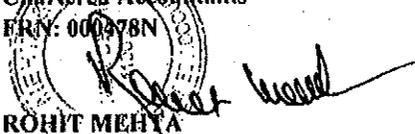
Date of Commercial Operation: **Anticipated 01.10.2012**

(Rs in Lacs)

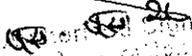
| Sl No. | Particulars | Land (Freehold) | Civil & Building | Substation | T/L | PLCC | Total |
|--------|---|-----------------|------------------|-----------------|-------------|---------------|-----------------|
| 1 | Expenditure up to 31.03.2011 | 499.42 | 40.87 | 1,447.28 | 0.00 | 33.91 | 2,021.48 |
| 2 | Expenditure for the period 01.04.2011 to 31.12.2011 | 6.05 | 22.60 | 2,108.73 | 0.00 | 0.00 | 2,137.38 |
| 3 | Estimated Expenditure for the period 01.01.2012 to 31.03.2012 | 0.00 | 24.79 | 415.38 | 0.00 | 40.00 | 480.17 |
| 4 | Estimated Expenditure for the period 01.04.2012 to 30.09.2012 (DOCO 01.10.2012) | 0.00 | 0.65 | 2,384.62 | 0.00 | 48.87 | 2,634.14 |
| 5 | Estimated Expenditure for the period 01.10.2012 to 31.03.2013 | 0.00 | 0.00 | 264.68 | 0.00 | 0.00 | 264.68 |
| 6 | Estimated Expenditure 2013-14 | 0.00 | 0.00 | 171.56 | 0.00 | 0.00 | 171.56 |
| | Total | 505.47 | 88.91 | 6,992.25 | 0.00 | 122.78 | 7,709.41 |
| | Initial Spares included in above (Substation) | | | | | | 71.47 |

The expenditure up to 31-03-2011 as referred above has been verified on the basis of the information drawn from the audited statement of Accounts of Power Grid Corporation of India Ltd., NRTS-1, New Delhi for the period ended 31-03-2011. Expenditure from 01.04.2011 to 31.12.2011 has been verified from the books of accounts of the project for the period. The estimated expenditure are on the basis of details furnished by the Management.

Place : New Delhi
Date: 27/03/2012

For S.K.Mehta & Co.
Chartered Accountants
FRN: 000978N

ROHIT MEHTA
PARTNER
M.No. 91382

ATTESTED TRUE COPY


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

CERTIFICATE OF CAPITAL COST

Project Name :

Associated Line bays of Agra-Jatikalán 765 KV S/C
Transmission Line at Agra 765KV Extn S/S and at
Jatikalán 765/400 KV new S/s under 765 KV System
for Central Part of Northern Grid Part-II

Date of Commercial Operation:

Anticipated 01.10.2012

(Rs in Lacs)

| Sl No. | Particulars | Capital Cost | IEDC | IDC | Total |
|--------|--|-----------------|---------------|---------------|-----------------|
| 1 | Expenditure up to 31.03.2011 | 1,908.13 | 19.10 | 94.25 | 2,021.48 |
| 2 | Expenditure for the period 01.04.2011 to 31.12.2011 | 1,850.27 | 54.27 | 232.84 | 2,137.38 |
| 3 | Estimated Expenditure for the period 01.01.2012 to 31.03.2012 | 384.47 | 18.09 | 77.61 | 480.17 |
| 4 | Estimated Expenditure for the period 01.04.2012 to 30.09.2012(DOCO 01.10.2012) | 2,442.73 | 36.18 | 155.23 | 2,634.14 |
| 5 | Estimated Expenditure for the period 01.10.2012 to 31.03.2013 | 264.68 | 0.00 | 0.00 | 264.68 |
| 6 | Estimated Expenditure 2013-14 | 171.56 | 0.00 | 0.00 | 171.56 |
| | Total | 7,021.84 | 127.64 | 559.93 | 7,709.41 |

The expenditure up to 31-03-2011 as referred above has been verified on the basis of the information drawn from the audited statement of Accounts of Power Grid Corporation of India Ltd., NRTS-I, New Delhi for the period ended 31-03-2011. Expenditure from 01.04.2011 to 31.12.2011 has been verified from the books of accounts of the project for the period. The estimated expenditure are on the basis of details furnished by the Management.

Place : New Delhi
Date: 27/03/2012

For S.K.Mehta & Co.
Chartered Accountants
FRN: 000478N

ROHIT MEHTA
PARTNER
M. NO. 91382

ATTESTED TRUE COPY

For S.K.Mehta & Co.
Chartered Accountants
FRN: 000478N
2682/2, Beadon Pura, Karol Bagh, New Delhi-110005

CERTIFICATE OF CAPITAL COST

Project Name : **Associated Line bays of Agra-Meerut 765 KV S/C Transmission Line at Meerut (Augmentation of Meerut 400 KV S/S to 765 KV Line and Agra(765 KV Ext S/S) under 765 KV System for Central Part of Northern Grid Part - II**

Date of Commercial Operation: **Anticipated 01.10.2012**

(Rs in Laes)

| SL | Particulars | Land (Freehold) | Civil & Building | Substation | T/L | PLCC | Total |
|----|---|-----------------|------------------|-----------------|-------------|---------------|-----------------|
| 1 | Expenditure up to 31.03.2011 | 0.00 | 0.32 | 1,033.41 | 0.00 | 33.91 | 1,067.64 |
| 2 | Expenditure for the period 01.04.2011 to 31.12.2011 | 0.00 | 0.00 | 2,505.97 | 0.00 | 10.75 | 2,516.72 |
| 3 | Estimated Expenditure for the period 01.01.2012 to 31.03.2012 | 0.00 | 0.00 | 478.04 | 0.00 | 50.22 | 528.26 |
| 4 | Estimated Expenditure for the period 01.04.2012 to 30.09.2012 (DOCO 01.10.2012) | 0.00 | 0.00 | 2,033.04 | 0.00 | 150.43 | 2,183.47 |
| 5 | Estimated Expenditure for the period 01.10.2012 to 31.03.2013 | 0.00 | 0.00 | 962.71 | 0.00 | 0.00 | 962.71 |
| 6 | Estimated Expenditure 2013-14 | 0.00 | 0.00 | 320.90 | 0.00 | 0.00 | 320.90 |
| | Total | 0.00 | 0.32 | 7,334.07 | 0.00 | 245.31 | 7,579.70 |
| | Initial Spares included in above (Substation) | | | | | | 182.96 |

The expenditure up to 31-03-2011 as referred above has been verified on the basis of the information drawn from the audited statement of Accounts of Power Grid Corporation of India Ltd., NRTS-I, New Delhi for the period ended 31-03-2011. Expenditure from 01.04.2011 to 31.12.2011 has been verified from the books of accounts of the project for the period. The estimated expenditure are on the basis of details furnished by the Management.

Place : New Delhi
Date: 27/03/2012

For S.K.Mehta & Co.
Chartered Accountants
FRN: 006478N

ROHIT MEHTA
PARTNER
M.No. 91382

ATTESTED TRUE COPY

Authorized Signatory
Power Grid Corporation of India Ltd.
Plot No.-2, Sector-26, Gurgaon-122 001 (HARYANA)

S.K.Mehta & CO.
Chartered Accountants

2682/2, Beadon Pura, Karol Bagh
New Delhi-110005
Ph. 011-28755156, 28753879

CERTIFICATE OF CAPITAL COST

Project Name :

Associated Line bays of Agra-Meerut 765 KV S/C
Transmission Line at Meerut (Augmentation of Meerut
400 KV S/S to 765 KV Line and Agra(765 KV Ext S/S)
under 765 KV System for Central Part of Northern
Grid Part - II

Date of Commercial Operation: Anticipated 01.10.2012

(Rs in Lacs)

| Sl No. | Particulars | Capital Cost | IEDC | IDC | Total |
|--------|---|-----------------|---------------|---------------|-----------------|
| 1 | Expenditure up to 31.03.2011 | 990.77 | 11.68 | 65.19 | 1,067.64 |
| 2 | Expenditure for the period 01.04.2011 to 31.12.2011 | 2,209.47 | 61.32 | 245.93 | 2,516.72 |
| 3 | Estimated Expenditure for the period 01.01.2012 to 31.03.2012 | 425.84 | 20.44 | 81.98 | 528.26 |
| 4 | Estimated Expenditure for the period 01.04.2012 to 30.09.2012 (DOCO 01.10.2012) | 1,978.64 | 40.88 | 163.95 | 2,183.47 |
| 5 | Estimated Expenditure for the period 01.10.2012 to 31.03.2013 | 962.71 | 0.00 | 0.00 | 962.71 |
| 6 | Estimated Expenditure 2013-14 | 320.90 | 0.00 | 0.00 | 320.90 |
| | Total | 6,888.33 | 134.32 | 557.05 | 7,579.70 |

The expenditure up to 31-03-2011 as referred above has been verified on the basis of the information drawn from the audited statement of Accounts of Power Grid Corporation of India Ltd., NRTS-I, New Delhi for the period ended 31-03-2011. Expenditure from 01.04.2011 to 31.12.2011 has been verified from the books of accounts of the project for the period. The estimated expenditure are on the basis of details furnished by the Management.

Place : New Delhi
Date: 27/03/2012

For S.K.Mehta & Co.
Chartered Accountants

FRN/000478N

ROHIT MEHTA
PARTNER
M.No. 91382

ATTESTED TRUE COPY

२४.३.१२

Authorised Signatory
2682/2, Beadon Pura, Karol Bagh-110005 (N.D.)

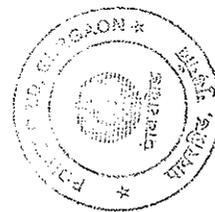
Summary Sheet

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **NORTHERN REGION**
 Name of the Project: **765 kV system for Central Part of Northern Grid Part-II**
 Name of the Transmission Element: **Associated Bays for LILO of Both Ckts of 400kV D/C Bamnoul-Mundka-Bawana at Jattikalan 765/400kV new S/S**
 (Anticipated :DOCO :01-JUL-2012)

| Sl.No. | Particulars | Form No. | Existing 2008-2009 | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013(Pro Rata) | 2013-2014 | (Rs in Lacs) |
|--------|-----------------------------|----------|--------------------|-----------|-----------|-----------|---------------------|-----------|--------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| 1 | Depreciation | FORM-12 | 0.00 | | | | 134.25 | | 199.33 |
| 2 | Interest on Loan | FORM-13A | 0.00 | | | | 256.12 | | 350.78 |
| 3 | Return on Equity | FORM-01A | 0.00 | | | | 217.04 | | 309.58 |
| 4 | Interest On Working Capital | FORM-13B | 0.00 | | | | 24.24 | | 34.25 |
| 5 | O & M Expenses | | 0.00 | | | | 185.76 | | 261.84 |
| 6 | Total | | 0.00 | | | | 817.41 | | 1,155.78 |

Note - Asset not yet commissioned. The bills shall be raised from Actual DOCO. Anticipated DOCO has been changed from 01.07.12 to 01.09.12.
 Prorata tariff considered in petition as per revised anticipated DOCO.

[Signature]
Petitioner



Calculation Of Return On Equity

Name of the Transmission Licensee:

POWERGRID CORPORATION OF INDIA LTD.

Name of Region:

NORTHERN REGION

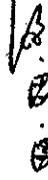
Name of the Project:

765 kV system for Central Part of Northern Grid Part-II

Name of the Transmission Element:

Associated Bays for LILO of Both Ckts of 400kV D/C Bannouli-Mundka-Bawana at Jattikalan 765/400kV new S/S
(Anticipared :DOCO :01-JUL-2012

| Particulars | (Rs in Lacs) | | | | | | |
|-----------------------------|--------------------|-----------|-----------|-----------|-----------|-----------|----------|
| | Existing 2008-2009 | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| Equity as DOCO | | | | | 1,568.76 | 1,742.05 | 1,742.05 |
| Notional Equity for Add Cap | | | | | 173.29 | 57.74 | 57.74 |
| Total Equity | | | | | 1,742.05 | 1,799.80 | 1,799.80 |
| Return on Equity @ 17.481% | | | | | 217.04 | 309.58 | 309.58 |

 Petitioner



Details of Transmission Lines And Substations

Name of the Transmission Licensee:

POWERGRID CORPORATION OF INDIA LTD.

Name of Region:

NORTHERN REGION

Name of the Project:

765 kV system for Central Part of Northern Grid Part-II

Name of the Transmission Element:

Associated Bays for LILO of Both Ckts of 400kV D/C Bannauli-Mundka-Bawana at Jattikalan 765/400kV new S/S
(Anticipated :DOCO :01-JUL-2012)

| Transmission Lines | | | | | | | | | |
|--------------------|---------------------|--|------------------|---|------------------|-------------------|------------------------------|---------------------------------|---------------------|
| Sl.No. | Name of Line | Type of Line AC/HVDC | S/C or D/C | No. of Sub-Conductors | Voltage level kV | Line Length (Km.) | Date of Commercial operation | Covered in the present petition | If No, petition No. |
| | | | | | | | | Yes/No | If No, petition No. |
| Substations | | | | | | | | | |
| Sl.No. | Name of Sub-Station | Type of Substation Conventional /GIS/ HVDC Terminal/ HVDC Back to Back | Voltage level kV | No. of Transformers / Reactors/ SVC etc (with Capacity) | No. of Bays | No. of Bays | Date of Commercial operation | Covered in the present petition | If No, petition No. |
| | | | | | 765 KV | 400 KV | 220 KV | 132 KV & below | Yes/No |
| 1 | Jattikalan S/S | Conventional | 400 | | | | | | |
| | Mundka I Bay | | 400 | | 1 | | | 01-JUL-2012 | Yes |
| | Mundka II Bay | | 400 | | 1 | | | 01-JUL-2012 | Yes |
| | Bannauli I Bay | | 400 | | 1 | | | 01-JUL-2012 | Yes |
| | Bannauli II Bay | | 400 | | 1 | | | 01-JUL-2012 | Yes |
| Total | | | | | | 4 | | | |

Signature
Petitioner



Normative Parameters considered For tariff calculations

Name of the Transmission Licensee:

POWERGRID CORPORATION OF INDIA LTD.

Name of Region:

NORTHERN REGION

Name of the Project:

765 kV system for Central Part of Northern Grid Part-II

Name of the Transmission Element:

Associated Bays for LLO of Both Ckts of 400kV D/C Bannouli-Mundka-Bawana at Jattikalan 765/400kV new S/S
(Anticipated :DOCO :01-JUL-2012)

| Particulars | Unit | Year Ending March | | | | | | | |
|---|----------|--------------------|-----------|-----------|-----------|-----------|-----------|--------|--|
| | | Existing 2008-2009 | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
| Base Rate of Return on Equity | % | | | | | 17.481 | | | |
| Tax Rate | % | | | | | 11.33 | | 17.481 | |
| Target Availability | % | | | | | 98.00 | | 11.33 | |
| Normative O&M per Km. | Rs. lacs | | | | | | | 98.00 | |
| Normative O&M per bay | Rs. lacs | | | | | | | | |
| Spares for WC as % of O&M | % | | | | | | | 15.00 | |
| Receivables in Months for WC | months | | | | | | | 2.00 | |
| Prime lending Rate of SBI as on 01-APR-2009 | % | | | | | | | 13.50 | |
| Norms for O&M expenditure for Transmission System | | | | | | | | | |
| | | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | | | |
| Norms for sub-station (Rs Lakh per bay) | | | | | | | | | |
| 765 KV | | 73.36 | 77.56 | 81.99 | 86.68 | 91.64 | | | |
| 400 KV | | 52.40 | 55.40 | 58.57 | 61.92 | 65.46 | | | |
| 220 KV | | 36.68 | 38.78 | 41.00 | 43.34 | 45.82 | | | |
| 132 KV and below | | 26.20 | 27.70 | 29.28 | 30.96 | 32.73 | | | |
| Norms for AC and HVDC Lines (Rs Lakhs per km) | | | | | | | | | |
| Single Circuit (Bundled conductor with four or more sub-conductors) | | 0.537 | 0.568 | 0.600 | 0.635 | 0.671 | | | |
| Single Circuit (Twin & Triple Conductor) | | 0.358 | 0.378 | 0.400 | 0.423 | 0.447 | | | |
| Single Circuit (Single Conductor) | | 0.179 | 0.189 | 0.200 | 0.212 | 0.224 | | | |
| Double Circuit (Bundled conductor with four or more sub-conductors) | | 0.940 | 0.994 | 1.051 | 1.111 | 1.174 | | | |
| Double Circuit (Twin & Triple Conductor) | | 0.627 | 0.663 | 0.701 | 0.741 | 0.783 | | | |
| Double Circuit (Single Conductor) | | 0.269 | 0.284 | 0.301 | 0.318 | 0.336 | | | |
| Norm for HVDC Stations | | | | | | | | | |
| HVDC Back-to-back stations (Rs lakh per 500 MW) | | 443.00 | 468.00 | 495.00 | 523.00 | 553.00 | | | |
| Rihand-Dadri HVDC bipole scheme (Rs Lakh) | | 1450.00 | 1533.00 | 1621.00 | 1713.00 | 1811.00 | | | |
| Talcher-Kolar HVDC bipole scheme (Rs Lakh) | | 1699.00 | 1796.00 | 1899.00 | 2008.00 | 2122.00 | | | |



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

Name of Transmission License:

POWERGRID CORPORATION OF INDIA LIMITED

Name of the Project:

Associated bays for LILO of Both CKTS OF 400 KV D/C Mundka-Bamnouli at Jattikalan Under CENTRAL PART OF NORTEHRN GRID-II

Name of Region:

NORTHERN REGION

| Capital Cost Estimates | | Value in Rs. Lacs | |
|---|-------------------|-------------------|--|
| Board of Director/Agency approving the Capital Cost Estimates: | | | |
| Date of approval of the Capital Cost Estimates | | | |
| | Present Day Cost | Completed Cost * | |
| Price level of approved estimates | | | |
| Foreign Exchange rate considered for the Capital Cost estimates | | | |
| Capital Cost excluding IDC, FC & IEDC | 4690.60 | 5811.42 | |
| Foreign Component, if any (In Million US \$ or the relevant currency) | | | |
| Domestic Component (Rs. Cr.) | | | |
| Capital Cost excluding IDC, FC & IEDC (Rs. Cr.) | 885.76 | 134.63 | |
| IDC & FC | | | |
| Foreign Component, if any (In Million US \$ or the relevant currency) | | | |
| Domestic Component (Rs. Cr.) | | | |
| Total IDC & FC (Rs. Cr.) | | | |
| Rates of taxes & duties considered | | | |
| IEDC | 1041.96 | 53.28 | |
| Capital Cost including IDC, FC & IEDC | 6618.32 | 5999.33 | |
| Foreign Component, if any (In Million US \$ or the relevant currency) | | | |
| Domestic Component (Rs. Cr.) | | | |
| Total Capital Cost including IDC & FC (Rs. Cr.) | 6618.32 | 5999.33 | |
| Schedule of Commissioning | 30.01.2012 | | |
| DOC elementwise(Anticipated) | 01.09.2012 | | |

Note

1. Copy of the approved letter should be enclosed.
2. Details of Capital Cost are to be furnished as per FORM-5B or 5C as applicable.
3. Details of IDC & Financing charges are to be furnished as per FORM-16.

PETITIONER

Break up of Construction/ Supply / Service Packages

Form 6B

| Name of Transmission Licence: | | POWERGRID CORPORATION OF INDIA LIMITED | | | | |
|-------------------------------|---|---|-------------------------|---------------|-----------------|------------------------|
| Name of project: | | LILO of Both CKTS OF 400 KV D/C Mundka-Bamnoul at Jatukalan Under CENTRAL PART OF NORTEHRN GRID-I | | | | |
| Name of Region: | | NORTHERN REGION | | | | values in lacs |
| Sl No | Break Down | Cost (Rs.) | | Balance | Variation | Reasons for variations |
| | | As per original estimate | As on COD (Actual Cost) | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| A | TRANSMISSION LINE: | | | | | |
| 1.0 | PRELIMINARY WORKS | | | | | |
| 1.1 | Design & Engg | | | | | |
| 1.2 | Preliminary investigation, right of way, forest clearance, PTCC, general civil works etc. | | | | | |
| | Total Preliminary Works | | | | | |
| 2.0 | TRANSMISSION LINE MATERIAL | | | | | |
| 2.1 | Tower Steel | | | | | |
| 2.2 | Conductor | | | | | |
| 2.3 | Earthwire | | | | | |
| 2.4 | Insulators | | | | | |
| 2.5 | Hardware fittings | | | | | |
| 2.6 | Conductor & Earthwire accessories | | | | | |
| | Total Trans. Line materials | | | | | |
| 2.8 | Spares | | | | | |
| 2.9 | Erection, Stringing & Civil works including foundation | | | | | |
| 3.0 | TAXES AND DUTIES | | | | | |
| 3.1 | Custom Duty | | | | | |
| 3.2 | Other taxes & duties | | | | | |
| 3.3 | Total taxes & duties | | | | | |
| | TOTAL TRANSMISSION LINES | | | | | |
| | | | | | | Form-6B |
| B | SUBSTATIONS: | | | | | |
| 4.0 | PRELIMINARY WORKS AND LAND | | | | | |
| 4.1 | Design & Engg | | | | | |
| 4.2 | Land | 2048.00 | 2021.91 | | 26.09 | As per actuals |
| 4.3 | Site preparation | | | | | |
| | Total Preliminary works & land | 2048.00 | 2021.91 | | 26.09 | |
| 5.0 | CIVIL WORKS | | | | | |
| 5.1 | Control room & Office building including HVAC | 48.00 | 247.87 | 0.00 | -199.87 | Higher awarded prices |
| 5.2 | Township & Colony | 132.80 | 99.03 | | 33.77 | Lower awarded prices |
| 5.3 | Roads & Drainage | | | | | |
| 5.4 | Foundation for structures | | | | | |
| 5.5 | Misc civil works | 222.67 | 346.9 | | -124.23 | |
| | Total Civil Works | | | | | |
| 6.0 | SUBSTATION EQUIPMENTS | | | | | |
| 6.1 | Switchgear (CT,PT, Circuit Breaker, Isolator etc) | 1631.87 | | 115.53 | -20.01 | |
| 6.2 | Transformers | | 1536.35 | | | Higher awarded prices |
| 6.3 | Compensating Equipment (Reactors) | | | | | |
| 6.4 | Control Relay & Protection Panel | 297.80 | 198.75 | 0.00 | 99.05 | Lower awarded prices |
| 6.5 | PLCC | 147.20 | 108 | 0.00 | 39.20 | Lower awarded prices |
| 6.6 | HVDC package | | | | | |
| 6.7 | BUS bars /Conductors /Insulators | 265.20 | 339.57 | 571.55 | -625.92 | Higher awarded prices |
| 6.8 | Outdoor Lighting | 22.40 | 51.63 | 0.00 | -29.23 | Higher awarded prices |
| 6.9 | Emergency DG Set | | | | | |
| 6.10 | Power & Control Cable | 52.00 | 117.39 | 61.30 | -128.69 | Higher awarded prices |
| 6.11 | Grounding System | | | | | |
| 6.12 | Structure for Switchyard | | | | | |
| 6.13 | Misc. Common Equipment (DG+FF etc.) | 206.12 | 320.8 | 21.73 | -136.41 | Higher awarded prices |
| | Total S/S Equipments | 2642.60 | 2672.49 | 770.12 | -800.01 | |
| 7.00 | Spares | | Incl. in above | | | |
| 8.00 | Taxes & Duties | | | | | |
| 8.10 | Custom Duty | | | | | |
| 8.20 | Other taxes & duties | | | | | |
| 8.30 | Total Taxes & Duties | | | | | |
| | TOTAL (SUBSTATION) | 4690.60 | 5041.30 | 770.12 | -1120.82 | |
| 9.00 | Construction & pre-commissioning expenses | | | | | |
| 9.10 | Site supervision & site admn.etc. | | | | | |
| 9.20 | Tools & Plants | | | | | |
| 9.30 | Construction Insurance | | | | | |
| | Total Construction & pre-commissioning expenses | | | | | |
| 10.00 | Overheads | | | | | |
| 10.10 | Establishment | | | | | |
| 10.20 | Audit & Accounts | | | | | |
| 10.30 | Contingency | | | | | |
| | Total Overheads (IEDC) | 1041.96 | 53.28 | | 988.68 | As per actuals |
| 11.00 | PROJECT COST WITHOUT TOTAL COST (Plant & Eqpt.) | 5732.56 | 5041.30 | 770.12 | -78.86 | |
| 12.00 | Total Cost (Plant & Equipment) | | | | | |
| 12.1 | Interest During Construction (IDC) | | | | | |
| 12.2 | Financing Charges (FC) | 885.76 | 134.63 | | 751.13 | As per actuals |
| 12.3 | Foreign Exchange Rate Variation (FERV) | | | | | |
| 12.4 | Hedging Cost | | | | | |
| | Total of IDC, FC, FERV & Hedging Cost | | | | | |
| 13.0 | Compensation cost for wild life sanctuary | | | | | |
| 13.00 | Capital cost including IDC, FC, FERV & Hedging Cost | 6618.32 | 5229.21 | 770.12 | 618.99 | |

FF. 66. 4

FORM-5C

Break up of Project cost for Transmission System

Name of Transmission Licensee

POWERGRID CORPORATION OF INDIA LTD

Name of the Project:

Associated bays for LILO of 400kV D/C Mundka(DTL) - Bamnoui T/L at Mundka associated with 765kV System for Central Part of Northern Grid-Part-(I&II)

Name of Region:

NORTHERN REGION

| Sl.No | Package List | Scope | No. of Bids | ICB/DCB | 400kV | Date of Award | Date of start of work | Date of completion of work | Rs. in LACS Value of Award in (Rs Lakh) | Firm or Escalation in Prices | Actual Expenditure till the completion of |
|-------|--|--------------------|-------------|----------|---------------------------------------|---------------|-----------------------|----------------------------|--|------------------------------|---|
| 1 | Sub/Stn. Pkg.-Off Shore Contract for 765/400 KV Jhatikara (Jatikalani) Sub/Stn. associated with 765kV System for Central Part of Northern Grid Part-II (Pkg.-S1) | Off Shore Contract | 3 | GCB/GIFB | C-14908-S019A-3/P-203/G1/NOA-I/3118 | 17.09.2009 | 17.09.2009 | 17.01.2012 | EURO -2575746 USD - 437430 | PV | 119 |
| 2 | Sub/Stn. Pkg.-Off Shore Contract for 765/400 KV Jhatikara (Jatikalani) Sub/Stn. associated with 765kV System for Central Part of Northern Grid Part-II (Pkg.-S1) | On Shore Supply | 3 | GCB/GIFB | C-14908-S019A-3/P-203/G1/NOA-II/3119 | 17.09.2009 | 17.09.2009 | 17.01.2012 | 9710 | PV | 2324 |
| 3 | Sub/Stn. Pkg.-Off Shore Contract for 765/400 KV Jhatikara (Jatikalani) Sub/Stn. associated with 765kV System for Central Part of Northern Grid Part-II (Pkg.-S1) | On Shore Service | 3 | GCB/GIFB | C-14908-S019A-3/P-203/G1/NOA-III/3120 | 17.09.2009 | 17.09.2009 | 17.01.2012 | 2477 | PV | 427 |



184-

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Details of elementwise cost

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
Name of Region: **NORTHERN REGION**
Name of the Project: **765 kV system for Central Part of Northern Grid Part-II**

(Rs in Lakhs)

| S.NO. | Name of line | Apportioned approved Cost | Completed Cost | Covered in the present petition | |
|-------|--|---------------------------|------------------|---------------------------------|---------------------|
| | | | | Yes/No | If No, petition No. |
| 1 | Bays for Bhiwani-Moga TL with Line Reactor at Moga S/S | 7787.04 | 7105.66 | NO | 77/2012 |
| 2 | 765/400 kV MVA ICT-I at Moga S/S | 14411.21 | 9824.84 | NO | 77/2012 |
| 3 | 765/400 kV 1500 MVA ICT-II at Moga S/S | 14411.21 | 9850.13 | NO | 77/2012 |
| 4 | 765 kV 240 MVAR Bus Reactor-I at Moga S/S | 6081.09 | 5286.33 | NO | 77/2012 |
| 5 | 765 kV 240 MVAR Bus Reactor-II at Moga S/S | 6081.09 | 5340.92 | NO | 77/2012 |
| 6 | 4 Nos. 765/400 kV 1500 MVA ICTs at Jhatikara S/S | 57444.28 | 28043.28 | NO | 100/2012 |
| 7 | 2 Nos. 765/400 kV 1500 MVA ICTs at Meerut S/S | 27953.50 | 16542.98 | NO | 100/2012 |
| 8 | Bays of Agra- jattikalan/765 KV S/C TL at Agra 765 KV Extn S/S and at Jattikalan 765/400 KV new S/S | 8477.17 | 7709.41 | YES | |
| 9 | Bays of Agra- Meerut 765 KV S/C TL at Meerut(Aug of Meerut 400 KV S/S to 765 KV) and Agra(765 KV Extn S/S) | 7762.78 | 7579.70 | YES | |
| 10 | Bays for LILO of both ckts of 400 KV D/C Barnnauli- Mundaka/Bawana at Jattikalan 765/400 KV new S/S | 6618.32 | 5999.33 | YES | |
| 11 | Remaining Part | 16608.31 | | | |
| | Total | 173636.00 | 103282.58 | | |
| | Grand Total | 173636.00 | 103282.58 | | |

 Petitioner



Financial package upto COD

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **NORTHERN REGION**
 Name of the Project: **765 kV system for Central Part of Northern Grid Part-II**
 Name of the Transmission Element: **Associated Bays for LILO of Both Ckts of 400kV D/C Bamnoui-Mundka-Bawana at Jattikalan 765/400kV new S/S (Anticipated :DOC0 :01-JUL-2012**
 Project Cost as on COD/31.03.2009: **5229.21 (Rs. in Lakhs)**
 Date of Commercial Operation of the Transmission element: **01-JUL-2012**

(Rs in Lacs)

| Transmission Lines | | | | | | |
|---|--|------------------|-----------------------------|----------------|--------------------|--------|
| | Financial Package as apportioned/ Approved | | Financial Package as on COD | | As Admitted on COD | |
| | Currency | Amount | Currency | Amount | Currency | Amount |
| Loans | | | | | | |
| Loans - Domestic | INR | 4632.82 | INR | 3660.45 | | |
| Loans - Foreign | | | | | | |
| Total Loans | | 4632.82 | | 3660.45 | | |
| Equity | | | | | | |
| Foreign | | | | | | |
| Domestic | INR | 1985.50 | INR | 1568.76 | | |
| Notional | | | | 0.00 | | |
| Total Equity | | 1985.50 | | 1568.76 | | |
| Debt Equity Ratio | | 70.00:30.00 | | 70.00:30.00 | | |
| Total Cost | | 6618.32 | | 5229.21 | | |
| | Debt | Equity | Total | | | |
| Add Cap For 2012-2013 | | | 577.64 | | | |
| Add Cap For 2013-2014 | | | 192.48 | | | |
| Add Cap For 2012-2013 | Actual | Normative | | | | |
| Debt | | 404.35 | | | | |
| Equity | | 173.29 | | | | |
| Total | | 577.64 | | | | |
| Add Cap For 2013-2014 | Actual | Normative | | | | |
| Debt | | 134.74 | | | | |
| Equity | | 57.74 | | | | |
| Total | | 192.48 | | | | |
| Total Capital Cost with ADDCAP upto 01.04.2014 | | | 5999.33 | | | |

[Signature]
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Statement of Additional Capitalisation after COD

Name of the Transmission Licensee:

POWERGRID CORPORATION OF INDIA LTD.

Name of Region:

NORTHERN REGION

Name of the Project:

765 kV system for Central Part of Northern Grid Part-II

Name of the Transmission Element:

Associated Bays for LLO of Both Ckts of 400kV D/C Bannouli-Mundka-Bawana at Jattikalan 765/400kV new S/S
(Anticipated :DOCO :01-JUL-2012

01-JUL-2012

COD:

| Sl.No. | Year | Work/Equipment proposed to be added after COD upto cut off date/ beyond cut off date | Amount capitalised and proposed to be capitalised | Justification as per propose | Regulation under which covered | Admitted Cost |
|--------|-----------|--|---|------------------------------|--------------------------------|---------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1. | 2012-2013 | SUB STATION | 577.64 | Balance & Retention Payment | 9(1) | |
| | Total | | 577.64 | | | |
| 2. | 2013-2014 | SUB STATION | 192.48 | Balance & Retention Payment | 9(1) | |
| | Total | | 192.48 | | | |

(Rs in Lacs)

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Statement of Capital Cost

POWERGRID CORPORATION OF INDIA LTD.

NORTHERN REGION

765 kV system for Central Part of Northern Grid Part-II

Associated Bays for LILO of Both Ckts of 400kV D/C Bamnoul--Mundka-Bawana at Jattikalan 765/400kV new S/S
(Anticipated :DOCO :01-JUL-2012

Name of the Transmission Licensee:

Name of Region:

Name of the Project:

Name of the Transmission Element:

Statement of Capital Cost

(To be given for relevant dates and year wise)

| | 01-APR-2009- 31-Mar-2010 | 01-APR-2010- 31-Mar-2011 | 01-APR-2011- 31-Mar-2012 | 01-JUL-2012- 31-Mar-2013 | 01-APR-2013- 31-Mar-2014 | (Rs. in Crores) |
|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------|
| A | | | | 52.29 | | 58.07 |
| a) Opening Gross Block Amount as per books | | | | | | |
| b) Amount of capital liabilities in A(a) above | | | | | | |
| c) Amount of IDC, FC, FERV & Hedging cost included in A(a) above | | | | 1.35 | | 1.35 |
| d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) a | | | | 0.53 | | 0.53 |
| B | | | | 5.78 | | 1.92 |
| a) Addition in Gross Block Amount during the period | | | | | | |
| b) Amount of capital liabilities in B(a) above | | | | | | |
| c) Amount of IDC, FC, FERV & Hedging cost included in B(a) above | | | | | | |
| d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) a | | | | | | |
| C | | | | 58.07 | | 59.99 |
| a) Closing Gross Block Amount as per books | | | | | | |
| b) Amount of capital liabilities in C(a) above | | | | | | |
| c) Amount of IDC, FC, FERV & Hedging cost included in C(a) above | | | | 1.35 | | 1.35 |
| d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) a | | | | 0.53 | | 0.53 |



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Financing of Additional Capitalisation

POWERGRID CORPORATION OF INDIA LTD.
NORTHERN REGION

765 kV system for Central Part of Northern Grid Part-II

Associated Bays for LILO of Both Ckts of 400kV D/C Bannouli-Mundka-Bawana at Jattikalan 765/400kV new S/S
(Anticipated : DOCO : 01-JUL-2012)

Name of the Transmission Licensee:

Name of Region:

Name of the Project:

Name of the Transmission Element:

| Financial Year (Starting from COD) | Projected/Actual | | | Admitted | | | | | (Rs in Lacs) | |
|--|-----------------------------|-------------------------|-------|----------|---------------|-------|-------|-------|--------------|-------|
| | From COD to 31- Mar-2013 | AddCap for 2013-2014 | Year3 | Year4 | Year5 & So on | Year1 | Year2 | Year3 | | Year4 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| Amount capitalised in Work/Equipmen t | 577.64 | 192.48 | | | | | | | | |
| Financing Details | | | | | | | | | | |
| Loan-1 | | | | | | | | | | |
| Loan-2 | | | | | | | | | | |
| Loan-3 and so on | | | | | | | | | | |
| Total Loan | 404.35 | 134.74 | | | | | | | | |
| Equity | 173.29 | 57.74 | | | | | | | | |
| Internal Resources | | | | | | | | | | |
| Others | | | | | | | | | | |
| Total | 577.64 | 192.48 | | | | | | | | |

Petitioner



Calculation of Depreciation Rate

Name of the Transmission Licensee:

POWERGRID CORPORATION OF INDIA LTD.

Name of Region:

NORTHERN REGION

Name of the Project:

765 kV system for Central Part of Northern Grid Part-II

Name of the Transmission Element:

Associated Bays for LILO of Both Ckts of 400kV D/C Bamnoui-Mundka-Bawana at Jattikalan 765/400kV new S/S (Anticipated :DOCO :01-JUL-2012

(Rs in Lacs)

| Sl.No. | Name of the Assets | Gross Block as on 31.03.2012 or as on COD, whichever is later | Addcap during the year | Gross Block as on 31.03.2013 or as on COD, whichever is later | Depreciation Rates as per CERC's Depreciation Rate Schedule | Depreciation Amount up to 31.03.2013 |
|--|--------------------|---|------------------------|---|---|--------------------------------------|
| | 1 | 2 | 3 | 4 | 5 | 6=Col.4 X Col.5 |
| 2012-2013 | | | | | | |
| 1 | FREEHOLD LAND | 2021.91 | 0.00 | 2021.91 | 0.00% | 0.00 |
| 2 | BUILDING | 346.89 | 0.00 | 346.89 | 3.34% | 8.69 |
| 3 | TR LINE | 0.00 | 0.00 | 0.00 | 5.28% | 0.00 |
| 4 | SUB STATION | 2752.41 | 577.64 | 3330.05 | 5.28% | 120.43 |
| 5 | PLCC | 108.00 | 0.00 | 108.00 | 6.33% | 5.13 |
| 6 | LEASEHOLD LAND | 0.00 | 0.00 | 0.00 | 3.34% | 0.00 |
| | Total | 5229.21 | 577.64 | 5806.85 | | 134.25 |
| Weighted Average Rate of Depreciation (%) | | | | | | 2.43 |
| Elapsed Life | | | | | | 0 |
| Sl.No. | Name of the Assets | Gross Block as on 31.03.2013 or as on COD, whichever is later | Addcap during the year | Gross Block as on 31.03.2014 or as on COD, whichever is later | Depreciation Rates as per CERC's Depreciation Rate Schedule | Depreciation Amount up to 31.03.2014 |
| | 1 | 2 | 3 | 4 | 5 | 6=Col.4 X Col.5 |
| 2013-2014 | | | | | | |
| 7 | FREEHOLD LAND | 2021.91 | 0.00 | 2021.91 | 0.00% | 0.00 |
| 8 | BUILDING | 346.89 | 0.00 | 346.89 | 3.34% | 11.59 |
| 9 | TR LINE | 0.00 | 0.00 | 0.00 | 5.28% | 0.00 |
| 10 | SUB STATION | 3330.05 | 192.48 | 3522.53 | 5.28% | 180.91 |
| 11 | PLCC | 108.00 | 0.00 | 108.00 | 6.33% | 6.84 |
| 12 | LEASEHOLD LAND | 0.00 | 0.00 | 0.00 | 3.34% | 0.00 |
| | Total | 5806.85 | 192.48 | 5999.33 | | 199.33 |
| Weighted Average Rate of Depreciation (%) | | | | | | 3.38 |
| Elapsed Life | | | | | | 1 |


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Statement of Depreciation.

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

POWERGRID CORPORATION OF INDIA LTD.
NORTHERN REGION
765 kV system for Central Part of Northern Grid Part-II
Associated Bays for LILO of Both Ckts of 400kV D/C Bamnoul-Mundka-Bawana at Jattikalan 765/400kV new S/S
(Anticipated : DOCO :01-JUL-2012)

| Financial Year | (Rs in Lacs) | | | | | | | | | | | | | | |
|--|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| | Upto 2000-2001 | 2001-2002 | 2002-2003 | 2003-2004 | 2004-2005 | 2005-2006 | 2006-2007 | 2007-2008 | 2008-2009 | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | |
| Depreciation on Capital Cost | | | | | | | | | | | | | 122.81 | 163.75 | |
| Depreciation on Additional Capitalisation | | | | | | | | | | | | | | | |
| Amount of Additional Capitalisation | | | | | | | | | | | | | 577.64 | 192.48 | |
| Depreciation Amount | | | | | | | | | | | | | 11.44 | 35.58 | |
| Details of FERV | | | | | | | | | | | | | | | |
| Amount of FERV on which depreciation charged | | | | | | | | | | | | | | | |
| Depreciation Amount | | | | | | | | | | | | | | | |
| Depreciation Recovered during the year | | | | | | | | | | | | | 134.25 | 199.33 | |
| Advance against Depreciation recovered during the year | | | | | | | | | | | | | | | |
| Depreciation and Advance against Depreciation recovered during the year | | | | | | | | | | | | | 134.25 | 199.33 | |
| Cumulative Depreciation And Advance against Depreciation recovered upto the year | | | | | | | | | | | | | 134.25 | 333.58 | |



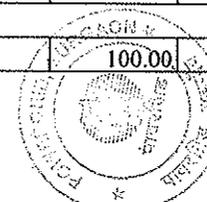
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Petitioner

Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **NORTHERN REGION**
 Name of the Project: **765 kV system for Central Part of Northern Grid Part-II**
 Name of the Transmission Element: **Associated Bays for LILO of Both Ckts of 400kV D/C Bamnoui-Mundka-Bawana at Jattikalan 765/400kV new S/S (Anticipated :DOCO :01-JUL-2012**

(Rs in Lacs)

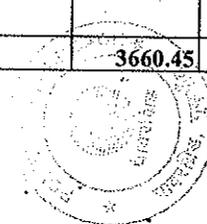
| Particulars | Existing 2008-2009 | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 |
|---|-----------------------|-----------|-----------|-----------|-----------|-----------|
| BONDS XXIX | | | | | | |
| Gross Loan Opening | | | | | 11.00 | 11.00 |
| Cumulative Repayments of Loans upto Previous Year | | | | | | 0.92 |
| Net Loans Opening | | | | | 11.00 | 10.08 |
| Add : Drawal(s) during the year | | | | | | |
| Less : Repayments(s) of Loans during the year | | | | | 0.92 | 0.92 |
| Net Loan Closing | | | | | 10.08 | 9.17 |
| Average Net Loan | | | | | 10.54 | 9.62 |
| Rate of Interest on Loan | | 0% | 0% | 0% | 9.2% | 9.2% |
| Interest on Loan | | | | | 0.97 | 0.89 |
| BOND XXXI | | | | | | |
| Gross Loan Opening | | | | | 1000.00 | 1000.00 |
| Cumulative Repayments of Loans upto Previous Year | | | | | | |
| Net Loans Opening | | | | | 1000.00 | 1000.00 |
| Add : Drawal(s) during the year | | | | | | |
| Less : Repayments(s) of Loans during the year | | | | | | 83.33 |
| Net Loan Closing | | | | | 1000.00 | 916.67 |
| Average Net Loan | | | | | 1000.00 | 958.33 |
| Rate of Interest on Loan | | 0% | 0% | 0% | 8.9% | 8.9% |
| Interest on Loan | | | | | 89.00 | 85.29 |
| BOND-XXXIV | | | | | | |
| Gross Loan Opening | | | | | 1500.00 | 1500.00 |
| Cumulative Repayments of Loans upto Previous Year | | | | | | |
| Net Loans Opening | | | | | 1500.00 | 1500.00 |
| Add : Drawal(s) during the year | | | | | | |
| Less : Repayments(s) of Loans during the year | | | | | | |
| Net Loan Closing | | | | | 1500.00 | 1500.00 |
| Average Net Loan | | | | | 1500.00 | 1500.00 |
| Rate of Interest on Loan | | 0% | 0% | 0% | 8.84% | 8.84% |
| Interest on Loan | | | | | 132.60 | 132.60 |
| BOND XXXVI | | | | | | |
| Gross Loan Opening | | | | | 262.00 | 262.00 |
| Cumulative Repayments of Loans upto Previous Year | | | | | | |
| Net Loans Opening | | | | | 262.00 | 262.00 |
| Add : Drawal(s) during the year | | | | | | |
| Less : Repayments(s) of Loans during the year | | | | | | |
| Net Loan Closing | | | | | 262.00 | 262.00 |
| Average Net Loan | | | | | 262.00 | 262.00 |
| Rate of Interest on Loan | | 0% | 0% | 0% | 9.35% | 9.35% |
| Interest on Loan | | | | | 24.50 | 24.50 |
| BOND XXXVII | | | | | | |
| Gross Loan Opening | | | | | 100.00 | 100.00 |



Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **NORTHERN REGION**
 Name of the Project: **765 kV system for Central Part of Northern Grid Part-II**
 Name of the Transmission Element: **Associated Bays for LILO of Both Ckts of 400kV D/C Bamnoui-Mundka-Bawana at Jattikalan 765/400kV new S/S (Anticipated :DOCO :01-JUL-2012**

| Particulars | (Rs in Lacs) | | | | | |
|---|-----------------------|-----------|-----------|-----------|-----------|-----------|
| | Existing 2008-2009 | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 |
| Cumulative Repayments of Loans upto Previous Year | | | | | | |
| Net Loans Opening | | | | | 100.00 | 100.00 |
| Add : Drawal(s) during the year | | | | | | |
| Less : Repayments(s) of Loans during the year | | | | | | |
| Net Loan Closing | | | | | 100.00 | 100.00 |
| Average Net Loan | | | | | 100.00 | 100.00 |
| Rate of Interest on Loan | | 0% | 0% | 0% | 9.25% | 9.25% |
| Interest on Loan | | | | | 9.25 | 9.25 |
| Proposed Loan 2012-13 | | | | | | |
| Gross Loan Opening | | | | | 587.45 | 587.45 |
| Cumulative Repayments of Loans upto Previous Year | | | | | | |
| Net Loans Opening | | | | | 587.45 | 587.45 |
| Add : Drawal(s) during the year | | | | | | |
| Less : Repayments(s) of Loans during the year | | | | | | |
| Net Loan Closing | | | | | 587.45 | 587.45 |
| Average Net Loan | | | | | 587.45 | 587.45 |
| Rate of Interest on Loan | | 0% | 0% | 0% | 9.25% | 9.25% |
| Interest on Loan | | | | | 54.34 | 54.34 |
| BOND XXXVIII | | | | | | |
| Gross Loan Opening | | | | | 100.00 | 100.00 |
| Cumulative Repayments of Loans upto Previous Year | | | | | | |
| Net Loans Opening | | | | | 100.00 | 100.00 |
| Add : Drawal(s) during the year | | | | | | |
| Less : Repayments(s) of Loans during the year | | | | | | |
| Net Loan Closing | | | | | 100.00 | 100.00 |
| Average Net Loan | | | | | 100.00 | 100.00 |
| Rate of Interest on Loan | | 0% | 0% | 0% | 9.25% | 9.25% |
| Interest on Loan | | | | | 9.25 | 9.25 |
| BOND XXXIX | | | | | | |
| Gross Loan Opening | | | | | 100.00 | 100.00 |
| Cumulative Repayments of Loans upto Previous Year | | | | | | |
| Net Loans Opening | | | | | 100.00 | 100.00 |
| Add : Drawal(s) during the year | | | | | | |
| Less : Repayments(s) of Loans during the year | | | | | | |
| Net Loan Closing | | | | | 100.00 | 100.00 |
| Average Net Loan | | | | | 100.00 | 100.00 |
| Rate of Interest on Loan | | 0% | 0% | 0% | 9.4% | 9.4% |
| Interest on Loan | | | | | 9.40 | 9.40 |
| Total | | | | | | |
| Gross Loan Opening | | | | | 3660.45 | 3660.45 |
| Cumulative Repayments of Loans upto Previous Year | | | | | | 0.92 |
| Net Loans Opening | | | | | 3660.45 | 3659.53 |



Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **NORTHERN REGION**
 Name of the Project: **765 kV system for Central Part of Northern Grid Part-II**
 Name of the Transmission Element: **Associated Bays for LILO of Both Ckts of 400kV D/C Bamnoui-Mundka-Bawana at Jattikalan 765/400kV new S/S (Anticipated :DOCO :01-JUL-2012**

(Rs in Lacs)

| Particulars | Existing 2008-2009 | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 |
|---|-----------------------|-----------|-----------|-----------|-----------|-----------|
| Add : Drawal(s) during the year | | | | | | |
| Less : Repayments(s) of Loans during the year | | | | | 0.92 | 84.25 |
| Net Loan Closing | | | | | 3659.53 | 3575.28 |
| Average Net Loan | | | | | 3659.99 | 3617.41 |
| Interest on Loan | | | | | 329.31 | 325.51 |
| Weighted Average Rate of Interest on Loans | | | | | 8.9975% | 8.9985% |

[Signature]
Petitioner



Calculation of Interest on Normative Loan

Name of the Transmission Licensee:

POWERGRID CORPORATION OF INDIA LTD.

Name of Region:

NORTHERN REGION

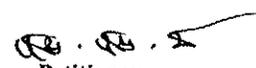
Name of the Project:

765 kV system for Central Part of Northern Grid Part-II

Name of the Transmission Element:

Associated Bays for LILO of Both Ckts of 400kV D/C Bamnoui-Mundka-Bawana at Jattikalan 765/400kV new S/S (Anticipated :DOCO :01-JUL-2012

| Particulars | (Rs in Lacs) | | | | | |
|---|--------------------|-----------|-----------|-----------|-----------|-----------|
| | Existing 2008-2009 | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Gross Normative Loan - Opening | | | | | 3,660.45 | 4,064.80 |
| Cumulative repayment of Normative Loan upto previous year | | | | | | 134.25 |
| Net Normative loan - Opening | | | | | 3,660.45 | 3,930.55 |
| Increase/Decrease due to ACE during the Year | | | | | 404.35 | 134.74 |
| Repayments of Normative Loan during the year | | | | | 134.25 | 199.33 |
| Net Normative loan - Closing | | | | | 3,930.55 | 3,865.95 |
| Average Normative Loan | | | | | 3,795.50 | 3,898.25 |
| Weighted average Rate of Interest on actual Loans | | | | | 8.9975% | 8.9985% |
| Interest on Normative loan | | | | | 256.12 | 350.78 |


Petitioner



Schedule 05 B - Unsecured Loans

| Description | (Rupees in Crore) | |
|---|---------------------------|---------------------------|
| | As at 31st March, 2009 | As at 31st March, 2008 |
| LOANS THROUGH BONDS | | |
| BONDS XXV SERIES | | |
| 10.10% Taxable, Secured, Redeemable, Non-Convertible, Non-Cumulative Bonds of Rs. 1.50 crore each consisting of 12 STRPP's of Rs. 12.50 lakh each redeemable at par in 12 (twelve) equal annual installments w.e.f 12.06.2011 | * | 1065.00 |
| To be secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti Taluka Kaparada in district Valsad Gujarat and floating charge on the assets of the company. | | |
| BONDS 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 |
| To be secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti Taluka Kaparada in district Valsad Gujarat and floating charge on the assets of the company. | | |
| BONDS 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 |
| To be secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti Taluka Kaparada in district Valsad Gujarat and floating charge on the assets of the company. | | |
| *Bonds XXV to XXVII series are included under Secured Loans in Current year | | |
| BONDS XXIX SERIES | | |
| 9.20% Taxable, Secured, Redeemable, Non-Convertible, Non-Cumulative Bonds of Rs. 1.50 crore each consisting of 12 STRPP's of Rs. 12.50 lakh each redeemable at par in 12 (twelve) equal annual installments w.e.f 12.03.2013 | 1297.50 | |
| To be secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti Taluka Kaparada in district Valsad Gujarat and floating charge on the assets of the company. | | |
| | 1297.50 | 2769.00 |

ANNUAL REPORT 2008 - 2009

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Authorized Signatory
 P. K. G. ...
 Plot No.-2, Sector-25, Gurgaon-122 001 (H)

Power Grid Corporation of India Ltd



Schedule 05A - Secured loans(Contd.)

| Description | (Rupees in Crore) | |
|-------------|------------------------|------------------------|
| | As at 31st March, 2010 | As at 31st March, 2009 |

BONDS XXIX SERIES

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

1297.50

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

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

BONDS XXX SERIES

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

2332.50

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

BONDS XXXI SERIES

8.90% Taxable, Secured, Redeemable, Non-Convertible, Non-Cumulative Bonds of Rs. 1.50 crore each consisting of 12 STRPP's of Rs. 12.50 lakh each redeemable at par in 12(twelve) equal annual instalments w.e.f 25.02.2014

2047.50

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

BONDS XXXII SERIES

8.84% Taxable, Secured, Redeemable, Non-Convertible, Non-Cumulative Bonds of Rs. 1.50 crore each consisting of 12 STRPP's of Rs. 12.50 lakh each redeemable at par in 12(twelve) equal annual instalments w.e.f 29.03.2014

1035.00

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

15112.07

21171.83





**NATIONAL STOCK EXCHANGE
OF INDIA LIMITED**

NIFTY 50

Stock of the nation

Ref.: NSE/LIST/ 151475-T

November 15, 2010

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

Kind Attn. : Mr. K.C. Pant

Dear Sir,

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

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

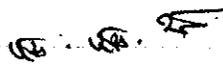
In this connection, we are pleased to inform you that the securities as specified in the application are duly listed on the WDM segment with effect from November 15, 2010 and all members have been suitably informed as per details given in Annexure I.

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

Yours truly,
For National Stock Exchange of India Limited


Johnson Joseph
Chief Manager

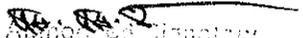
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Authorized Signatory
Power Grid Corporation of India Ltd.
Plot No.2, Sector-29, Gurgaon-122 001 (HARYANA)

Annexure I
Power Grid Corporation of India Limited
Details of Securities

| Sr. No. | Issue Description | Security Type | Security | Issue | Allotment amount (In lakhs) | Maturity date |
|---------|---|---------------|----------|-------|-----------------------------|---------------|
| 1 | POWER GRID CORP 8.84% 2014 (S-XXXIV, STRPP-A) | PT | PGC14A | 8.84% | 29062.5 | 21-Oct-2014 |
| 2 | POWER GRID CORP 8.84% 2015 (S-XXXIV, STRPP-B) | PT | PGC15A | 8.84% | 29062.5 | 21-Oct-2015 |
| 3 | POWER GRID CORP 8.84% 2016 (S-XXXIV, STRPP-C) | PT | PGC16A | 8.84% | 29062.5 | 21-Oct-2016 |
| 4 | POWER GRID CORP 8.84% 2017 (S-XXXIV, STRPP-D) | PT | PGC17A | 8.84% | 29062.5 | 21-Oct-2017 |
| 5 | POWER GRID CORP 8.84% 2018 (S-XXXIV, STRPP-E) | PT | PGC18A | 8.84% | 29062.5 | 21-Oct-2018 |
| 6 | POWER GRID CORP 8.84% 2019 (S-XXXIV, STRPP-F) | PT | PGC19A | 8.84% | 29062.5 | 21-Oct-2019 |
| 7 | POWER GRID CORP 8.84% 2020 (S-XXXIV, STRPP-G) | PT | PGC20A | 8.84% | 29062.5 | 21-Oct-2020 |
| 8 | POWER GRID CORP 8.84% 2021 (S-XXXIV, STRPP-H) | PT | PGC21A | 8.84% | 29062.5 | 21-Oct-2021 |
| 9 | POWER GRID CORP 8.84% 2022 (S-XXXIV, STRPP-I) | PT | PGC22A | 8.84% | 29062.5 | 21-Oct-2022 |
| 10 | POWER GRID CORP 8.84% 2023 (S-XXXIV, STRPP-J) | PT | PGC23A | 8.84% | 29062.5 | 21-Oct-2023 |
| 11 | POWER GRID CORP 8.84% 2024 (S-XXXIV, STRPP-K) | PT | PGC24A | 8.84% | 29062.5 | 21-Oct-2024 |
| 12 | POWER GRID CORP 8.84% 2025 (S-XXXIV, STRPP-L) | PT | PGC25A | 8.84% | 29062.5 | 21-Oct-2025 |

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 Authorized Signatory
 Power Grid Corporation of India Ltd
 Plot No.-2, Sector-28, Gurgaon-122 001 (HARYANA)



**NATIONAL STOCK EXCHANGE
OF INDIA LIMITED**

NIFTY 50
Stock of the nation

Ref.: NSE/LIST/ 144388-L

September 12, 2011

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

Kind Attn. : Mr. K.C. Pant

Dear Sir,

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

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

In this connection, we are pleased to inform you that the securities as specified in the application are duly listed on the WDM segment with effect from September 12, 2011 and all members have been suitably informed as per details given in Annexure I.

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

Yours truly,
For National Stock Exchange of India Limited

pam
WSP
Nagesh Pai
Manager

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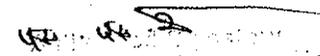
WSP
Authorized Signatory
Plot No. 2, Sector - 29, Gurgaon (Haryana) - 122 001



Annexure I
Power Grid Corporation of India Limited
Details of Securities

| Sr. No. | Issue Description | Security Type | Security | Issue | Allotment amount (In lakhs) | Maturity date |
|---------|---|---------------|----------|-------|-----------------------------|---------------|
| 1 | POWER GRID CORP 9.35% 2016 (S-XXXVI, STRPP-A) | PT | PGC16 | 9.35% | 20600 | 29-Aug-2016 |
| 2 | POWER GRID CORP 9.35% 2017 (S-XXXVI, STRPP-B) | PT | PGC17 | 9.35% | 20600 | 29-Aug-2017 |
| 3 | POWER GRID CORP 9.35% 2018 (S-XXXVI, STRPP-C) | PT | PGC18 | 9.35% | 20600 | 29-Aug-2018 |
| 4 | POWER GRID CORP 9.35% 2019 (S-XXXVI, STRPP-D) | PT | PGC19 | 9.35% | 20600 | 29-Aug-2019 |
| 5 | POWER GRID CORP 9.35% 2020 (S-XXXVI, STRPP-E) | PT | PGC20 | 9.35% | 20600 | 29-Aug-2020 |
| 6 | POWER GRID CORP 9.35% 2021 (S-XXXVI, STRPP-F) | PT | PGC21 | 9.35% | 20600 | 29-Aug-2021 |
| 7 | POWER GRID CORP 9.35% 2022 (S-XXXVI, STRPP-G) | PT | PGC22 | 9.35% | 20600 | 29-Aug-2022 |
| 8 | POWER GRID CORP 9.35% 2023 (S-XXXVI, STRPP-H) | PT | PGC23 | 9.35% | 20600 | 29-Aug-2023 |
| 9 | POWER GRID CORP 9.35% 2024 (S-XXXVI, STRPP-I) | PT | PGC24 | 9.35% | 20600 | 29-Aug-2024 |
| 10 | POWER GRID CORP 9.35% 2025 (S-XXXVI, STRPP-J) | PT | PGC25 | 9.35% | 20600 | 29-Aug-2025 |
| 11 | POWER GRID CORP 9.35% 2026 (S-XXXVI, STRPP-K) | PT | PGC26 | 9.35% | 20600 | 29-Aug-2026 |
| 12 | POWER GRID CORP 9.35% 2027 (S-XXXVI, STRPP-L) | PT | PGC27 | 9.35% | 20600 | 29-Aug-2027 |
| 13 | POWER GRID CORP 9.35% 2028 (S-XXXVI, STRPP-M) | PT | PGC28 | 9.35% | 20600 | 29-Aug-2028 |
| 14 | POWER GRID CORP 9.35% 2029 (S-XXXVI, STRPP-N) | PT | PGC29 | 9.35% | 20600 | 29-Aug-2029 |
| 15 | POWER GRID CORP 9.35% 2030 (S-XXXVI, STRPP-O) | PT | PGC30 | 9.35% | 20600 | 29-Aug-2030 |

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Ref.: NSE/LIST/163951-H

March 29, 2012

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

Kind Attn. : Mr. K.C. Pant

Dear Sir,

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

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

In this connection, we are pleased to inform you that the securities as specified in the application are duly listed on the WDM segment with effect from March 29, 2012 and all members have been suitably informed as per details given below:

| Sr. No | Security Description | Sec Type | Security | Issue | Issue Size (Rs. in lakhs) | Maturity Date |
|--------|--|----------|----------|-------|---------------------------|---------------|
| 1 | POWER GRID CORP 9.25% 2027 (S-XXXVIII) | PT | PGC27 | 9.25% | 85500 | 09-Mar-2027 |

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

Yours truly,
For National Stock Exchange of India Limited

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Johnson Joseph
Chief Manager

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[Signature]
Authorized Signatory
Power Grid Corporation of India Limited
Plot No.2, Sector - 29, Gurgaon(Haryana) - 122 001



**NATIONAL STOCK EXCHANGE
OF INDIA LIMITED**

NIFTY 50
Stock of the nation

Ref: NSE/LIST/155559-V

January 4, 2012

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

Kind Attn. : Mr. K.C. Pant

Dear Sir,

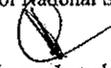
**Sub: Listing of Secured Redeemable, Non-Convertible, Non Cumulative,
Redeemable, Taxable Bonds (Series-XXXVII) Issued by Power Grid
Corporation of India Limited**

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

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

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

Yours truly,
For National Stock Exchange of India Limited


Johnson Joseph
Chief Manager



Annexure I
Power Grid Corporation of India Limited
Details of Securities

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

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Authorized Signatory
Power Grid Corporation of India Limited



Ref.: NSE/LIST/166892-S

April 26, 2012

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

Kind Attn. : Mr. K.C. Pant

Dear Sir,

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

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

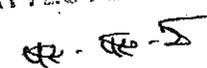
In this connection, we are pleased to inform you that the securities as specified in the application are duly listed on the WDM segment with effect from April 26, 2012 and all members have been suitably informed as per details given below:

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

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

Yours faithfully,
For National Stock Exchange of India Limited


Johnson Joseph
Chief Manager

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Calculation of Interest on Working Capital

Name of the Transmission Licensee:

POWERGRID CORPORATION OF INDIA LTD.

Name of Region:

NORTHERN REGION

Name of the Project:

765 kV system for Central Part of Northern Grid Part-II

Name of the Transmission Element:

Associated Bays for LLO of Both Ckts of 400kV D/C Bamnoui-Mundka-Bawana at Jattikalan 765/400kV new S/S (Anticipated :DOCO :01-JUL-2012

(Rs in Lacs)

| Sl.N o. | Particulars | Existing 2008-2009 | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 |
|---------|-----------------------------|--------------------|-----------|-----------|-----------|-----------|-----------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1 | O and M Expenses | | | | | 20.64 | 21.82 |
| 2 | Maintenance Spares | | | | | 37.15 | 39.28 |
| 3 | Receivables | | | | | 181.65 | 192.63 |
| 4 | Total Working Capital | | | | | 239.44 | 253.73 |
| 5 | Rate of Interest | | | | | 13.50 | 13.50 |
| 6 | Interest on Working Capital | | | | | 24.24 | 34.25 |

[Signature]
Petitioner





भारतीय स्टेट बैंक
State Bank of India

भारतीय स्टेट बैंक का मुख्यालय दिल्ली में है।
1100 1100 (01) 1100000 and 1100000 1100000
Corporate Accounts Group Director, State Bank of India
1100 1100 Floor 1, Connaught Place, New Delhi-110029

For: 21000000 21000000 (PART) 21000000 (AGM) 21000000 (C) 21000000 (R & A) 21000000 (S) 21000000 (M)
Fax: 21000000 (PART), 21000000 (C), 21000000 (M)

TO WHOM SOEVER IT MAY CONCERN

Certificate: State Bank of India Base Rate (BR)

We hereby certify that State Bank of India Base Rate (BR) was 10.00% as on
01.04.2012.

Arshvansh Kalia
Dy. General Manager
16.04.2012

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

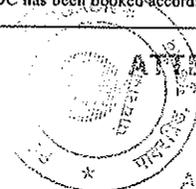
Draw Down Schedule for Calculation of IDC & Financing Charges

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **NORTHERN REGION**
 Name of the Project: **765 kV system for Central Part of Northern Grid Part-II**
 Name of the Transmission Element: **Associated Bays for LILO of Both Ckts of 400kV D/C Bamnoui-Mundka-Bawana at Jattikalan 765/400kV new S/S (Anticipated :DOCO :01-JUL-2012**

(Rs in Lacs)

| Draw Down Schedule for Calculation of IDC & Financing Charges | | | | | | | | | | |
|---|------------------------------|-----------------------------|---------------------------------|------------------------|-----------------------------|---------------------------------|------------------------|-----------------------------|---------------------------------|------------------------|
| Sl.No | Drawn Down | Quarter 1 | | | Quarter 2 | | | Quarter n(COD) | | |
| Sl.No. | Particulars | Quantum In Foreign Currency | Exchange Rate on Draw Down Date | Amount In Indian Rupee | Quantum In Foreign Currency | Exchange Rate on Draw Down Date | Amount In Indian Rupee | Quantum In Foreign Currency | Exchange Rate on Draw Down Date | Amount In Indian Rupee |
| 1. | Loans | | | | | | | | | |
| 1.1 | Foreign Loans | | | | | | | | | |
| 1.2 | Indian Loans | | | | | | | | | |
| 1.2.1 | BONDS XXIX | | | | | | | | | |
| | Draw Down Amount | | | | | | | | | |
| | IDC | | | | | | | | | 11.00 |
| | Financing Charges | | | | | | | | | |
| 1.2.2 | BOND XXXI | | | | | | | | | |
| | Draw Down Amount | | | | | | | | | 1000.00 |
| | IDC | | | | | | | | | |
| | Financing Charges | | | | | | | | | |
| 1.2.3 | BOND-XXXIV | | | | | | | | | |
| | Draw Down Amount | | | | | | | | | 1500.00 |
| | IDC | | | | | | | | | |
| | Financing Charges | | | | | | | | | |
| 1.2.4 | BOND XXXVI | | | | | | | | | |
| | Draw Down Amount | | | | | | | | | 262.00 |
| | IDC | | | | | | | | | |
| | Financing Charges | | | | | | | | | |
| 1.2.5 | BOND XXXVII | | | | | | | | | |
| | Draw Down Amount | | | | | | | | | 100.00 |
| | IDC | | | | | | | | | |
| | Financing Charges | | | | | | | | | |
| 1.2.6 | Proposed Loan 2012-13 | | | | | | | | | |
| | Draw Down Amount | | | | | | | | | 587.45 |
| | IDC | | | | | | | | | |
| | Financing Charges | | | | | | | | | |
| 1.2.7 | BOND XXXVIII | | | | | | | | | |
| | Draw Down Amount | | | | | | | | | 100.00 |
| | IDC | | | | | | | | | |
| | Financing Charges | | | | | | | | | |
| 1.2.8 | BOND XXXIX | | | | | | | | | |
| | Draw Down Amount | | | | | | | | | 100.00 |
| | IDC | | | | | | | | | |
| | Financing Charges | | | | | | | | | |
| | Total Indian Loans | | | | | | | | | |
| | Draw Down Amount | | | | | | | | | 3660.45 |
| | IDC | | | | | | | | | 0.00 |
| | Financing Charges | | | | | | | | | 0.00 |
| | Total of Loans Drawn | | | | | | | | | |
| | Draw Down Amount | | | | | | | | | 3660.45 |
| | IDC | | | | | | | | | 134.63 |
| | Financing Charges | | | | | | | | | 0.00 |
| 2 | Equity | | | | | | | | | |
| 2.1 | Foreign Equity Drawn | | | | | | | | | |
| 2.2 | Indian Equity Drawn | | | | | | | | | |
| | Total Equity Deployed | | | | | | | | | 1568.76 |

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.



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Authorized Signatory
 Power Grid Corporation of India
 Plot No.-2, Sector-26, Gurgaon-122 001 (HARYANA)

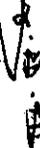
- 58 -

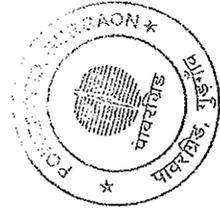
Summary Sheet

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **NORTHERN REGION**
 Name of the Project: **765 kV system for Central Part of Northern Grid Part-II**
 Name of the Transmission Element: **Associated line bays of Agra- jattikalan 765 KV S/C TL at Agra 765 KV Extn S/S and at Jattikalan 765/400 KV new S/S(Anticipated :DOCO :01-OCT-2012**

| Sl.No. | Particulars | Form No. | Existing 2008-2009 | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013(Pro Rata) | 2013-2014 |
|--------|-----------------------------|----------|--------------------|-----------|-----------|-----------|---------------------|-----------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1 | Depreciation | FORM-12 | 0.00 | | | | 181.94 | 375.40 |
| 2 | Interest on Loan | FORM-13A | 0.00 | | | | 231.24 | 451.10 |
| 3 | Return on Equity | FORM-01A | 0.00 | | | | 194.18 | 399.81 |
| 4 | Interest On Working Capital | FORM-13B | 0.00 | | | | 21.16 | 43.41 |
| 5 | O & M Expenses | | 0.00 | | | | 130.02 | 274.92 |
| 6 | Total | | 0.00 | | | | 758.54 | 1,544.64 |

Note - Asset not yet commissioned. The bills shall be raised from Actual DOCO. Anticipated DOCO has been changed from 01.10.12 to 01.01.13.
 Prorata tariff considered in petition as per revised anticipated DOCO.


Petitioner



Calculation Of Return On Equity

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

POWERGRID CORPORATION OF INDIA LTD.
NORTHERN REGION
765 kV system for Central Part of Northern Grid Part-II
Associated line bays of Agra- jattikalan 765 KV S/C TL at Agra 765 KV Extn S/S and at Jattikalan 765/400 KV new
S/S(Anticipated :DOCO :01-OCT-2012

| Particulars | Existing 2008-2009 | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | (Rs in Lacs) | |
|-----------------------------|--------------------|-----------|-----------|-----------|-----------|--------------|-----------|
| | | | | | | 2012-2013 | 2013-2014 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 7 |
| Equity as DOCO | | | | | 2,181.95 | 2,261.35 | |
| Notional Equity for Add Cap | | | | | 79.40 | 51.47 | |
| Total Equity | | | | | 2,261.35 | 2,312.82 | |
| Return on Equity @ 17.481% | | | | | 194.18 | 399.81 | |

 Petitioner



Details of Transmission Lines And Substations

Name of the Transmission Licensee:

Name of Region:

Name of the Project:

Name of the Transmission Element:

POWERGRID CORPORATION OF INDIA LTD.

NORTHERN REGION

765 kV system for Central Part of Northern Grid Part-II

Associated line bays of Agra- jattikalan 765 KV S/C TL at Agra 765 KV Extn S/S and at Jattikalan 765/400 KV new S/S(Anticipated :DOCO :01-OCT-2012

| Transmission Lines | | | | | | | | | | |
|--------------------|----------------------------------|--|------------------|---|------------------|-------------------|------------------------------|---------------------------------|---------------------|---------------------|
| SL.No. | Name of Line | Type of Line AC/HVDC | S/C or D/C | No. of Sub-Conductors | Voltage level kV | Line Length (Km.) | Date of Commercial operation | Covered in the present petition | | If No, petition No. |
| | | | | | | | | Yes/No | If No, petition No. | |
| Substations | | | | | | | | | | |
| SL.No. | Name of Sub-Station | Type of Substation Conventional /GIS/ HVDC Terminal/ HVDC Back to Back | Voltage level kV | No. of Transformers / Reactors/ SVC etc (with Capacity) | No. of Bays | No. of Bays | Date of Commercial operation | Covered in the present petition | | If No, petition No. |
| 1 | Agra S/S | Conventional | 765/400 | | 765 KV | 400 KV | 220 KV | 132 KV & below | Yes/No | If No, petition No. |
| | Jattikalan Bay | | 765 | | 1 | | 01-OCT-2012 | Yes | | |
| 2 | Jattikalan S/S | Conventional | 765/400 | 1 X 240 MVAR Switchable L/R | | | | | Yes | |
| | Agra Bay | | 765 | | 1 | | 01-OCT-2012 | Yes | | |
| | 240 MVAR switchable L/R for Agra | | 765 | | 1 | | 01-OCT-2012 | Yes | | |
| Total | | | | | | | | 3 | | |



[Signature]
Petitioner

Normative Parameters considered For tariff calculations

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

POWERGRID CORPORATION OF INDIA LTD.
NORTHERN REGION
765 KV system for Central Part of Northern Grid Part-II
Associated line bays of Agra- jattikalan 765 KV S/C TL at Agra 765 KV Extn S/S and at Jattikalan 765/400 KV new
S/S(Anticipated :DOCO :01-OCT-2012

| Particulars | Unit | Year Ending March | | | | | | | |
|---|----------|--------------------|-----------|-----------|-----------|-----------|-----------|-------|--|
| | | Existing 2008-2009 | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
| Base Rate of Return on Equity | % | | | | | 17.481 | | | |
| Tax Rate | % | | | | | 11.33 | | | |
| Target Availability | % | | | | | 98.00 | | | |
| Normative O&M per Km. | Rs. lacs | Given Below | | | | | | | |
| Normative O&M per bay | Rs. lacs | Given Below | | | | | | | |
| Spares for WC as % of O&M | % | | | | | 15.00 | | 15.00 | |
| Receivables in Months for WC | months | | | | | 2.00 | | 2.00 | |
| Prime lending Rate of SBI as on 01-APR-2009 | % | | | | | 13.50 | | 13.50 | |
| Norms for O&M expenditure for Transmission System | | | | | | | | | |
| | | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | | | |
| Norms for sub-station (Rs Lakh per bay) | | | | | | | | | |
| 765 KV | | 73.36 | 77.56 | 81.99 | 86.68 | 91.64 | | | |
| 400 KV | | 52.40 | 55.40 | 58.57 | 61.92 | 65.46 | | | |
| 220 KV | | 36.68 | 38.78 | 41.00 | 43.34 | 45.82 | | | |
| 132 KV and below | | 26.20 | 27.70 | 29.28 | 30.96 | 32.73 | | | |
| Norms for AC and HVDC Lines (Rs Lakhs per km) | | | | | | | | | |
| Single Circuit (Bundled conductor with four or more sub-conductors) | | 0.537 | 0.568 | 0.600 | 0.635 | 0.671 | | | |
| Single Circuit (Twin & Triple Conductor) | | 0.358 | 0.378 | 0.400 | 0.423 | 0.447 | | | |
| Double Circuit (Single Conductor) | | 0.179 | 0.189 | 0.200 | 0.212 | 0.224 | | | |
| Double Circuit (Bundled conductor with four or more sub-conductors) | | 0.940 | 0.994 | 1.051 | 1.111 | 1.174 | | | |
| Double Circuit (Twin & Triple Conductor) | | 0.627 | 0.663 | 0.701 | 0.741 | 0.783 | | | |
| Double Circuit (Single Conductor) | | 0.269 | 0.284 | 0.301 | 0.318 | 0.336 | | | |
| Norm for HVDC Stations | | | | | | | | | |
| HVDC Back-to-back stations (Rs lakh per 500 MW) | | 443.00 | 468.00 | 495.00 | 523.00 | 553.00 | | | |
| Rihand-Dadri HVDC bipole scheme (Rs Lakh) | | 1450.00 | 1533.00 | 1621.00 | 1713.00 | 1811.00 | | | |
| Talcher-Kolar HVDC bipole scheme (Rs Lakh) | | 1699.00 | 1796.00 | 1899.00 | 2008.00 | 2122.00 | | | |



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

Name of Transmission License:

POWERGRID CORPORATION OF INDIA LIMITED

Name of the Project:

Associated bays AGRA-JATIKALAN 765KV S/C LINE at Agra and Jatikalán UNDER 765 KV SYSTEM FOR CENTRAL PART OF NORTHERN GRID-II

Name of Region:

NORTHERN REGION

| Capital Cost Estimates | | Value in Rs. Lacs |
|---|-------------------|-------------------|
| Board of Director/Agency approving the Capital Cost Estimates: | | |
| Date of approval of the Capital Cost Estimates | | |
| Price level of approved estimates | | |
| Foreign Exchange rate considered for the Capital Cost estimates | | |
| Capital Cost excluding IDC, FC & IEDC | 6470.47 | 7021.84 |
| Foreign Component, if any (In Million US \$ or the relevant currency) | | |
| Domestic Component (Rs. Cr.) | | |
| Capital Cost excluding IDC, FC & IEDC (Rs. Cr.) | 569.36 | 559.93 |
| IDC & FC | | |
| Foreign Component, if any (In Million US \$ or the relevant currency) | | |
| Domestic Component (Rs. Cr.) | | |
| Total IDC & FC (Rs. Cr.) | | |
| Rates of taxes & duties considered | | |
| IEDC | | |
| Capital Cost including IDC, FC & IEDC | 1437.34 | 127.64 |
| Foreign Component, if any (In Million US \$ or the relevant currency) | 8477.17 | 7709.41 |
| Domestic Component (Rs. Cr.) | | |
| Total Capital Cost including IDC & FC (Rs. Cr.) | 8477.17 | 7709.41 |
| Schedule of Commissioning | 30.01.2012 | |
| DOC elementwise(Anticipated) | 01.01.2013 | |

Note:

1. Copy of the approved letter should be enclosed.
2. Details of Capital Cost are to be furnished as per FORM-5B or 5C as applicable.
3. Details of IDC & Financing charges are to be furnished as per FORM-16.



[Signature]
PETITIONER

Break up of Construction/ Supply / Service Packages

Form 6B

Name of Transmission Licence: **POWERGRID CORPORATION OF INDIA LIMITED**

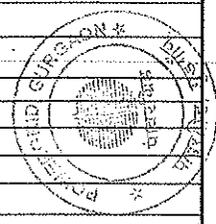
Name of project: **Associated bays AGRA-JATIKALAN 765KV S/C LINE at Agra and Jatikalana UNDER 765 KV SYSTEM FOR CENTRAL PART OF NORTHERN GRID-II**

Name of Region: **NORTHERN REGION** values in lacs

| Sl No | Break Down | cost (Rs.) | | | Variation | Reasons for variations |
|----------|---|--------------------------|-------------------------|---------|-----------|------------------------|
| | | As per original estimate | As on COD (Actual Cost) | Balance | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| A | TRANSMISSION LINE: | | | | | |
| 1.0 | PRELIMINARY WORKS | | | | | |
| 1.1 | Design & Engg | | | | | |
| 1.2 | Preliminary investigation, right of way, forest clearance, PTCC, general civil works etc. | | | | | |
| | Total Preliminary Works | | | | | |
| 2.0 | TRANSMISSION LINE MATERIAL | | | | | |
| 2.1 | Tower Steel | | | | | |
| 2.2 | Conductor | | | | | |
| 2.3 | Earthwire | | | | | |
| 2.4 | Insulators | | | | | |
| 2.5 | Hardware fittings | | | | | |
| 2.6 | Conductor & Earthwire accessories | | | | | |
| | Total Trans. Line materials | | | | | |
| 2.8 | Spares | | | | | |
| 2.9 | Erection, Stringing & Civil works including foundation | | | | | |
| 3.0 | TAXES AND DUTIES | | | | | |
| 3.1 | Custom Duty | | | | | |
| 3.2 | Other taxes & duties | | | | | |
| 3.3 | Total taxes & duties | | | | | |
| | TOTAL TRANSMISSION LINES | | | | | |

Form-5B

| | | | | | | |
|----------|---|----------------|----------------|---------------|----------------|-----------------------|
| B | SUBSTATIONS: | | | | | |
| 4.0 | PRELIMINARY WORKS AND LAND | | | | | |
| 4.1 | Design & Engg | | | | | |
| 4.2 | Land | 512.00 | 505.47 | 0.00 | 6.53 | As per actuals |
| 4.3 | Site preparation | | | | | |
| | Total Preliminary works & land | 512.00 | 505.47 | | 6.53 | |
| 5.0 | CIVIL WORKS | | | | | |
| 5.1 | Control room & Office building including HVAC | 12.00 | 24.47 | 0.00 | -12.47 | Higher awarded prices |
| 5.2 | Township & Colony | 33.20 | | | 33.20 | Lower awarded prices |
| 5.3 | Roads & Drainage | | | | | |
| 5.4 | Foundation for structures | | | | | |
| 5.5 | Misc civil works | 65.67 | 60.1 | | 5.57 | Lower awarded prices |
| | Total Civil Works | 110.87 | 84.57 | | 26.30 | |
| 6.0 | SUBSTATION EQUIPMENTS | | | | | |
| 6.1 | Switchgear (CT,PT, Circuit Breaker, Isolator etc) | 2414.71 | 3051.27 | 23.28 | -659.65 | Higher awarded prices |
| 6.2 | Transformers | | | | | |
| 6.3 | Compensating Equipment (Reactors) | 2779.86 | 2350 | 402.95 | 26.93 | Lower awarded prices |
| 6.4 | Control Relay & Protection Panel | 153.07 | 221.96 | 10.00 | -78.90 | Higher awarded prices |
| 6.5 | PLCC | 96.77 | 120.05 | 0.00 | -23.28 | Higher awarded prices |
| 6.6 | HVDC package | | | | | |
| 6.7 | BUS bars /Conductors /Insulators | 153.05 | 149.65 | | 3.40 | Lower awarded prices |
| 6.8 | Outdoor Lighting | 20.60 | 23.33 | | -2.73 | Higher awarded prices |
| 6.9 | Emergency DG Set | | | | | |
| 6.10 | Power & Control Cable | 78.00 | 37.34 | 0.00 | 40.66 | Lower awarded prices |
| 6.11 | Grounding System | | | | | |
| 6.12 | Structure for Switchyard | | | | | |
| 6.13 | Misc. Common Equipment (DG+FF etc.) | 151.53 | 41.96 | | 109.57 | Lower awarded prices |
| | Total S/S Equipments | 5847.60 | 5995.56 | 436.24 | -584.20 | |
| 7.00 | Spares | incl. in above | | | | |
| 8.00 | Taxes & Duties | | | | | |
| 8.10 | Custom Duty | | | | | |
| 8.20 | Other taxes & duties | | | | | |
| 8.30 | Total Taxes & Duties | | | | | |
| | TOTAL (SUBSTATION) | 6470.47 | 6585.60 | 436.24 | -551.37 | |



AAV

| Sl No | Break Down | cost (Rs.) | | | Variation | Reasons for variations |
|-------|--|--------------------------|-------------------------|---------------|----------------|------------------------|
| | | As per original estimate | As on COD (Actual Cost) | Balance | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 00 | Construction & pre-commissioning expenses | | | | | |
| 10 | Site supervision & site admn.etc | | | | | |
| 20 | Tools & Plants | | | | | |
| 30 | Construction Insurance | | | | | |
| | Total Construction & pre-commissioning expenses | | | | | |
| 01.00 | Overheads | | | | | |
| 0.10 | Establishment | | | | | |
| 0.20 | Audit & Accounts | | | | | |
| 0.30 | Contingency | | | | | |
| | Total Overheads (IEDC) | 1437.34 | 127.64 | | 1309.70 | As per actuals |
| 1.00 | PROJECT COST WITHOUT TOTAL COST (Plant & Eqt.) | 6470.47 | 6586.60 | 436.24 | -551.37 | |
| 2.00 | Total Cost (Plant & Equipment) | | | | | |
| 2.1 | Interest During Construction (IDC) | 569.36 | 559.93 | | 9.43 | As per actuals |
| 2.2 | Financing Charges (FC) | | | | | |
| 2.3 | Foreign Exchange Rate Variation (FERV) | | | | | |
| 2.4 | Hedging Cost | | | | | |
| | Total of IDC, FC, FERV & Hedging Cost | | | | | |
| 3.0 | Compensation cost for wild life sanctuary | | | | | |
| 3.00 | Capital cost including IDC, FC, FERV & Hedging Cost | 8477.17 | 7273.17 | 436.24 | 767.76 | |

98.98.2



FORM-5C

Break up of Project cost for Transmission System

POWERGRID CORPORATION OF INDIA LTD

Associated bays for 765KV S/C Agra - Jatikalain T/L (Part-I) at Jhatikara(Jatkalain) & Agra Sub/Stn.associated with 765 KV System for Central Part of Northern Grid Part-II

NORTHERN REGION

| Sl.No | Package List | Scope | No. of Bids | ICB/DCB | LOA NO. | Date of Award | Date of start of work | Date of completion of work | Rs. in LACS Value of Award in (Rs Lakh) | Firm or with Escalation in Prices | Actual Expenditure till the completion of |
|-------|---|--------------------|-------------|----------|---------------------------------------|---------------|-----------------------|----------------------------|---|--|--|
| 1 | Sub/Stn. Pkg.-Off Shore Contract for 765/400 KV Jhatikara (Jatikalain) Sub/Stn. associated with 765KV System for Central Part of Northern Grid Part-II (Pkg.-S1) | Off Shore Contract | 3 | GCB/GIFB | C-14908-S019A-3/P-203/G1/NOA-III/3118 | 17.09.2009 | 17.09.2009 | 17.01.2012 | EURO -2575746 USD - 437430 | PV | 244 |
| 2 | Sub/Stn. Pkg.-Off Shore Contract for 765/400 KV Jhatikara (Jatikalain) Sub/Stn. associated with 765KV System for Central Part of Northern Grid Part-II (Pkg.-S1) | On Shore Supply | 3 | GCB/GIFB | C-14908-S019A-3/P-203/G1/NOA-III/3119 | 17.09.2009 | 17.09.2009 | 17.01.2012 | 9710 | PV | 4527 |
| 3 | Sub/Stn. Pkg.-Off Shore Contract for 765/400 KV Jhatikara (Jatikalain) Sub/Stn. associated with 765KV System for Central Part of Northern Grid Part-II (Pkg.-S1) | On Shore Service | 3 | GCB/GIFB | C-14908-S019A-3/P-203/G1/NOA-III/3120 | 17.09.2009 | 17.09.2009 | 17.01.2012 | 2477 | PV | 877 |
| 4 | Sub/Stn. Pkg.S9 for 765/400 KV Agra Sub/Station and Extn. of 400KV Agra Sub/Station associated with Common Scheme for 765KV Pooling Station and Network for NR and WR | Supply | 3 | GCB/GIFB | C-14808-S019A-3/LOA-I/3022/Amtd No.1 | 23.11.2009 | 23.11.2009 | 23.07.2011 | INR-9921 SEK- 74988016 EURO- 2607690 | PV | 166 |
| 5 | Sub/Stn. Pkg.S9 for 765/400 KV Agra Sub/Station and Extn. of 400KV Agra Sub/Station associated with Common Scheme for 765KV Pooling Station and Network for NR and WR | Erection | 3 | GCB/GIFB | C-14808-S019A-3/LOA-II/3023/ | 23.11.2009 | 23.11.2009 | 23.07.2011 | 2800 | PV | 51 |



Financial package upto COD

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **NORTHERN REGION**
 Name of the Project: **765 kV system for Central Part of Northern Grid Part-II**
 Name of the Transmission Element: **Associated line bays of Agra- Jattikalan 765 KV S/C TL at Agra 765 KV Extn S/S and at Jattikalan 765/400 KV new S/S(Anticipated :DOCO :01-OCT-2012**
 Project Cost as on COD/31.03.2009: **7273.17 (Rs. in Lakhs)**
 Date of Commercial Operation of the Transmission element: **01-OCT-2012**

(Rs in Lacs)

| Transmission Lines | | | | | | |
|--|--|------------------|-----------------------------|----------------|---------------------|--|
| | Financial Package as apportioned/ Approved | | Financial Package as on COD | | As Admitted on COD | |
| | Currency and Amount | | Currency and Amount | | Currency and Amount | |
| Loans | | | | | | |
| Loans - Domestic | INR | 5934.02 | INR | 5091.22 | | |
| Loans - Foreign | | | | | | |
| Total Loans | | 5934.02 | | 5091.22 | | |
| Equity | | | | | | |
| Foreign | | | | | | |
| Domestic | INR | 2543.15 | INR | 2181.95 | | |
| Notional | | | | 0.00 | | |
| Total Equity | | 2543.15 | | 2181.95 | | |
| Debt Equity Ratio | | 70.00:30.00 | | 70.00:30.00 | | |
| Total Cost | | 8477.17 | | 7273.17 | | |
| | Debt | Equity | Total | | | |
| Add Cap For 2012-2013 | | | 264.68 | | | |
| Add Cap For 2013-2014 | | | 171.56 | | | |
| Add Cap For 2012-2013 | Actual | Normative | | | | |
| Debt | | 185.28 | | | | |
| Equity | | 79.40 | | | | |
| Total | | 264.68 | | | | |
| Add Cap For 2013-2014 | Actual | Normative | | | | |
| Debt | | 120.09 | | | | |
| Equity | | 51.47 | | | | |
| Total | | 171.56 | | | | |
| Total Capital Cost with ADDCAP upto 01.04.2014 | | | 7709.41 | | | |



Statement of Additional Capitalisation after COD

Name of the Transmission Licensee:

Name of Region:

Name of the Project:

Name of the Transmission Element:

POWERGRID CORPORATION OF INDIA LTD.

NORTHERN REGION

765 kV system for Central Part of Northern Grid Part-II

Associated line bays of Agra-jattikalan 765 KV S/C TL at Agra 765 KV Extn S/S and at Jattikalan 765/400 KV new S/S(Anticipated :DOCO :01-OCT-2012

01-OCT-2012

COD:

| Sl.No. | Year | Work/Equipment proposed to be added after COD upto cut off date/ beyond cut off date | Amount capitalised and proposed to be capitalised | Justification as per propose | Regulation under which covered | Admitted Cost |
|--------|-----------|--|---|-------------------------------|--------------------------------|---------------|
| 1 | 2012-2013 | SUB STATION | 264.68 | Balance and Retention Payment | 9(1) | |
| | | | 171.56 | Balance and Retention Payment | 9(1) | |
| | | | 264.68 | | | |
| | | | 171.56 | | | |
| | | | 171.56 | | | |



[Signature]
Petitioner

Statement of Capital Cost

Name of the Transmission Licensee:

Name of Region:

Name of the Project:

Name of the Transmission Element:

POWERGRID CORPORATION OF INDIA LTD.

NORTHERN REGION

765 kV system for Central Part of Northern Grid Part-II

Associated line bays of Agra-jattikalan 765 KV S/C TL at Agra 765 KV Extn S/S and at Jattikalan 765/400 KV new S/S(Anticipated :DOCO :01-OCT-2012

Statement of Capital Cost

(To be given for relevant dates and year wise)

| | | (Rs. in Crores) | | | | |
|---|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | | 01-APR-2009- 31-Mar-2010 | 01-APR-2010- 31-Mar-2011 | 01-APR-2011- 31-Mar-2012 | 01-OCT-2012- 31-Mar-2013 | 01-APR-2013- 31-Mar-2014 |
| A | a) Opening Gross Block Amount as per books | | | | 72.73 | 75.38 |
| | b) Amount of capital liabilities in A(a) above | | | | | |
| | c) Amount of IDC, FC, FERV & Hedging cost included in A(a) above | | | | 5.6 | 5.6 |
| | d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) a | | | | 1.28 | 1.28 |
| B | a) Addition in Gross Block Amount during the period | | | | 2.65 | 1.72 |
| | b) Amount of capital liabilities in B(a) above | | | | | |
| | c) Amount of IDC, FC, FERV & Hedging cost included in B(a) above | | | | | |
| | d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) a | | | | | |
| C | a) Closing Gross Block Amount as per books | | | | 75.38 | 77.1 |
| | b) Amount of capital liabilities in C(a) above | | | | | |
| | c) Amount of IDC, FC, FERV & Hedging cost included in C(a) above | | | | 5.6 | 5.6 |
| | d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) a | | | | 1.28 | 1.28 |



[Signature]
Petitioner

Financing of Additional Capitalisation

Name of the Transmission Licensee:

POWERGRID CORPORATION OF INDIA LTD.

Name of the Region:

NORTHERN REGION

Name of the Project:

765 KV system for Central Part of Northern Grid Part-II

Name of the Transmission Element:

Associated line bays of Agra- jattikalan 765 KV S/C TL at Agra 765 KV Extn S/S and at Jattikalan 765/400 KV new S/S(Anticipated :DOCO :01-OCT-2012

| Financial Year (Starting from COD) | Projected/Actual | | | Admitted | | | | | | |
|---------------------------------------|------------------------|----------------------|-------|----------|--------------|-------|-------|-------|-------|---------------|
| | From COD to31-Mar-2013 | AddCap for 2013-2014 | Year3 | Year4 | Year5& So on | Year1 | Year2 | Year3 | Year4 | Year5 & so on |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| Amount capitalised in Work/Equipmen t | 264.68 | 171.56 | | | | | | | | |
| Financing Details | | | | | | | | | | |
| Loan-1 | | | | | | | | | | |
| Loan-2 | | | | | | | | | | |
| Loan-3 and so on | | | | | | | | | | |
| Total Loan | 185.28 | 120.09 | | | | | | | | |
| Equity | 79.40 | 51.47 | | | | | | | | |
| Internal Resources | | | | | | | | | | |
| Others | | | | | | | | | | |
| Total | 264.68 | 171.56 | | | | | | | | |



[Signature]
Petitioner

Calculation of Depreciation Rate

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **NORTHERN REGION**
 Name of the Project: **765 kV system for Central Part of Northern Grid Part-II**
 Name of the Transmission Element: **Associated line bays of Agra- Jattikalan 765 KV S/C TL at Agra 765 KV Extn S/S and at Jattikalan 765/400 KV new S/S(Anticipated :DOCO :01-OCT-2012**

(Rs in Lacs)

| Sl.No. | Name of the Assets | Gross Block as on 31.03.2012 or as on COD, whichever is later | Addcap during the year | Gross Block as on 31.03.2013 or as on COD, whichever is later | Depreciation Rates as per CERC's Depreciation Rate Schedule | Depreciation Amount up to 31.03.2013 |
|--|--------------------|---|------------------------|---|---|--------------------------------------|
| | 1 | 2 | 3 | 4 | 5 | 6=Col.4 X Col.5 |
| 2012-2013 | | | | | | |
| 1 | FREEHOLD LAND | 505.47 | 0.00 | 505.47 | 0.00% | 0.00 |
| 2 | BUILDING | 88.91 | 0.00 | 88.91 | 3.34% | 1.48 |
| 3 | TR LINE | 0.00 | 0.00 | 0.00 | 5.28% | 0.00 |
| 4 | SUB STATION | 6556.01 | 264.68 | 6820.69 | 5.28% | 176.57 |
| 5 | PLCC | 122.78 | 0.00 | 122.78 | 6.33% | 3.89 |
| 6 | LEASEHOLD LAND | 0.00 | 0.00 | 0.00 | 3.34% | 0.00 |
| | Total | 7273.17 | 264.68 | 7537.85 | | 181.94 |
| Weighted Average Rate of Depreciation (%) | | | | | | 2.46 |
| Elapsed Life | | | | | | 0 |
| Sl.No. | Name of the Assets | Gross Block as on 31.03.2013 or as on COD, whichever is later | Addcap during the year | Gross Block as on 31.03.2014 or as on COD, whichever is later | Depreciation Rates as per CERC's Depreciation Rate Schedule | Depreciation Amount up to 31.03.2014 |
| | 1 | 2 | 3 | 4 | 5 | 6=Col.4 X Col.5 |
| 2013-2014 | | | | | | |
| 7 | FREEHOLD LAND | 505.47 | 0.00 | 505.47 | 0.00% | 0.00 |
| 8 | BUILDING | 88.91 | 0.00 | 88.91 | 3.34% | 2.97 |
| 9 | TR LINE | 0.00 | 0.00 | 0.00 | 5.28% | 0.00 |
| 10 | SUB STATION | 6820.69 | 171.56 | 6992.25 | 5.28% | 364.66 |
| 11 | PLCC | 122.78 | 0.00 | 122.78 | 6.33% | 7.77 |
| 12 | LEASEHOLD LAND | 0.00 | 0.00 | 0.00 | 3.34% | 0.00 |
| | Total | 7537.85 | 171.56 | 7709.41 | | 375.40 |
| Weighted Average Rate of Depreciation (%) | | | | | | 4.92 |
| Elapsed Life | | | | | | 1 |


Petitioner



Statement of Depreciation

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

POWERGRID CORPORATION OF INDIA LTD.
NORTHERN REGION
765 kV system for Central Part of Northern Grid Part-II
Associated line bays of Agra- Jattikalan 765 KV S/C TL at Agra 765 KV Extn S/S and at Jattikalan 765/400 KV new
S/S(Anticipated :DOCO :01-OCT-2012

| Financial Year | (Rs in Lacs) | | | | | | | | | | | | | |
|--|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | Upto 2000-2001 | 2001-2002 | 2002-2003 | 2003-2004 | 2004-2005 | 2005-2006 | 2006-2007 | 2007-2008 | 2008-2009 | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| Depreciation on Capital Cost | | | | | | | | | | | | | 178.45 | 356.90 |
| Depreciation on Additional Capitalisation | | | | | | | | | | | | | | |
| Amount of Additional Capitalisation | | | | | | | | | | | | | 264.68 | 171.56 |
| Depreciation Amount | | | | | | | | | | | | | 3.49 | 18.50 |
| Details of FERV | | | | | | | | | | | | | | |
| Amount of FERV on which depreciation charged | | | | | | | | | | | | | | |
| Depreciation Amount | | | | | | | | | | | | | | |
| Depreciation Recovered during the year | | | | | | | | | | | | | 181.94 | 375.40 |
| Advance against Depreciation recovered during the year | | | | | | | | | | | | | | |
| Depreciation and Advance against Depreciation recovered during the year | | | | | | | | | | | | | 181.94 | 375.40 |
| Cumulative Depreciation And Advance against Depreciation recovered upto the year | | | | | | | | | | | | | 181.94 | 557.35 |



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Petitioner

Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **NORTHERN REGION**
 Name of the Project: **765 kV system for Central Part of Northern Grid Part-II**
 Name of the Transmission Element: **Associated line bays of Agra- jattikalan 765 KV S/C TL at Agra 765 KV Extn S/S and at Jattikalan 765/400 KV new S/S(Anticipated :DOCO :01-OCT-2012**

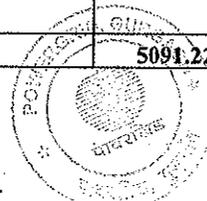
| Particulars | (Rs in Lacs) | | | | | |
|---|-----------------------|-----------|-----------|-----------|-----------|-----------|
| | Existing 2008-2009 | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 |
| BOND-XXXIV | | | | | | |
| Gross Loan Opening | | | | | 1500.00 | 1500.00 |
| Cumulative Repayments of Loans upto Previous Year | | | | | | |
| Net Loans Opening | | | | | 1500.00 | 1500.00 |
| Add : Drawal(s) during the year | | | | | | |
| Less : Repayments(s) of Loans during the year | | | | | | |
| Net Loan Closing | | | | | 1500.00 | 1500.00 |
| Average Net Loan | | | | | 1500.00 | 1500.00 |
| Rate of Interest on Loan | | 0% | 0% | 0% | 8.84% | 8.84% |
| Interest on Loan | | | | | 132.60 | 132.60 |
| BOND XXXVII | | | | | | |
| Gross Loan Opening | | | | | 100.00 | 100.00 |
| Cumulative Repayments of Loans upto Previous Year | | | | | | |
| Net Loans Opening | | | | | 100.00 | 100.00 |
| Add : Drawal(s) during the year | | | | | | |
| Less : Repayments(s) of Loans during the year | | | | | | |
| Net Loan Closing | | | | | 100.00 | 100.00 |
| Average Net Loan | | | | | 100.00 | 100.00 |
| Rate of Interest on Loan | | 0% | 0% | 0% | 9.25% | 9.25% |
| Interest on Loan | | | | | 9.25 | 9.25 |
| Proposed Loan 2012-13 | | | | | | |
| Gross Loan Opening | | | | | 1841.22 | 1841.22 |
| Cumulative Repayments of Loans upto Previous Year | | | | | | |
| Net Loans Opening | | | | | 1841.22 | 1841.22 |
| Add : Drawal(s) during the year | | | | | | |
| Less : Repayments(s) of Loans during the year | | | | | | |
| Net Loan Closing | | | | | 1841.22 | 1841.22 |
| Average Net Loan | | | | | 1841.22 | 1841.22 |
| Rate of Interest on Loan | | 0% | 0% | 0% | 9.25% | 9.25% |
| Interest on Loan | | | | | 170.31 | 170.31 |
| BOND XXXVIII | | | | | | |
| Gross Loan Opening | | | | | 100.00 | 100.00 |
| Cumulative Repayments of Loans upto Previous Year | | | | | | |
| Net Loans Opening | | | | | 100.00 | 100.00 |
| Add : Drawal(s) during the year | | | | | | |
| Less : Repayments(s) of Loans during the year | | | | | | |
| Net Loan Closing | | | | | 100.00 | 100.00 |
| Average Net Loan | | | | | 100.00 | 100.00 |
| Rate of Interest on Loan | | 0% | 0% | 0% | 9.25% | 9.25% |
| Interest on Loan | | | | | 9.25 | 9.25 |
| BOND XXXIX | | | | | | |
| Gross Loan Opening | | | | | 100.00 | 100.00 |

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Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **NORTHERN REGION**
 Name of the Project: **765 kV system for Central Part of Northern Grid Part-II**
 Name of the Transmission Element: **Associated line bays of Agra- Jattikalan 765 KV S/C TL at Agra 765 KV Extn S/S and at Jattikalan 765/400 KV new S/S(Anticipated :DOCO :01-OCT-2012**

| Particulars | (Rs in Lacs) | | | | | |
|---|-----------------------|-----------|-----------|-----------|-----------|-----------|
| | Existing 2008-2009 | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 |
| Cumulative Repayments of Loans upto Previous Year | | | | | | |
| Net Loans Opening | | | | | 100.00 | 100.00 |
| Add : Drawal(s) during the year | | | | | | |
| Less : Repayments(s) of Loans during the year | | | | | | |
| Net Loan Closing | | | | | 100.00 | 100.00 |
| Average Net Loan | | | | | 100.00 | 100.00 |
| Rate of Interest on Loan | | 0% | 0% | 0% | 9.4% | 9.4% |
| Interest on Loan | | | | | 9.40 | 9.40 |
| BONDS XXIX | | | | | | |
| Gross Loan Opening | | | | | 10.00 | 10.00 |
| Cumulative Repayments of Loans upto Previous Year | | | | | | 0.83 |
| Net Loans Opening | | | | | 10.00 | 9.17 |
| Add : Drawal(s) during the year | | | | | | |
| Less : Repayments(s) of Loans during the year | | | | | 0.83 | 0.83 |
| Net Loan Closing | | | | | 9.17 | 8.33 |
| Average Net Loan | | | | | 9.58 | 8.75 |
| Rate of Interest on Loan | | 0% | 0% | 0% | 9.2% | 9.2% |
| Interest on Loan | | | | | 0.88 | 0.80 |
| BOND XXXI | | | | | | |
| Gross Loan Opening | | | | | 900.00 | 900.00 |
| Cumulative Repayments of Loans upto Previous Year | | | | | | |
| Net Loans Opening | | | | | 900.00 | 900.00 |
| Add : Drawal(s) during the year | | | | | | |
| Less : Repayments(s) of Loans during the year | | | | | | 75.00 |
| Net Loan Closing | | | | | 900.00 | 825.00 |
| Average Net Loan | | | | | 900.00 | 862.50 |
| Rate of Interest on Loan | | 0% | 0% | 0% | 8.9% | 8.9% |
| Interest on Loan | | | | | 80.10 | 76.76 |
| BOND XXXVI | | | | | | |
| Gross Loan Opening | | | | | 540.00 | 540.00 |
| Cumulative Repayments of Loans upto Previous Year | | | | | | |
| Net Loans Opening | | | | | 540.00 | 540.00 |
| Add : Drawal(s) during the year | | | | | | |
| Less : Repayments(s) of Loans during the year | | | | | | |
| Net Loan Closing | | | | | 540.00 | 540.00 |
| Average Net Loan | | | | | 540.00 | 540.00 |
| Rate of Interest on Loan | | 0% | 0% | 0% | 9.35% | 9.35% |
| Interest on Loan | | | | | 50.49 | 50.49 |
| Total | | | | | | |
| Gross Loan Opening | | | | | 5091.22 | 5091.22 |
| Cumulative Repayments of Loans upto Previous Year | | | | | | 0.83 |
| Net Loans Opening | | | | | 5091.22 | 5090.39 |



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Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **NORTHERN REGION**
 Name of the Project: **765 kV system for Central Part of Northern Grid Part-II**
 Name of the Transmission Element: **Associated line bays of Agra- Jattikalan 765 KV S/C TL at Agra 765 KV Extn S/S and at Jattikalan 765/400 KV new S/S(Anticipated :DOCO :01-OCT-2012**

| Particulars | (Rs in Lacs) | | | | | |
|---|-----------------------|-----------|-----------|-----------|-----------|-----------|
| | Existing 2008-2009 | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 |
| Add : Drawal(s) during the year | | | | | | |
| Less : Repayments(s) of Loans during the year | | | | | 0.83 | 75.83 |
| Net Loan Closing | | | | | 5090.39 | 5014.55 |
| Average Net Loan | | | | | 5090.80 | 5052.47 |
| Interest on Loan | | | | | 462.28 | 458.87 |
| Weighted Average Rate of Interest on Loans | | | | | 9.0808% | 9.0821% |

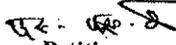
A. B. D.
Petitioner



Calculation of Interest on Normative Loan

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **NORTHERN REGION**
 Name of the Project: **765 kV system for Central Part of Northern Grid Part-II**
 Name of the Transmission Element: **Associated line bays of Agra- Jattikalan 765 KV S/C TL at Agra 765 KV Extn S/S and at Jattikalan 765/400 KV new S/S(Anticipated :DOCO :01-OCT-2012**

| Particulars | (Rs in Lacs) | | | | | |
|---|--------------------|-----------|-----------|-----------|-----------|-----------|
| | Existing 2008-2009 | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Gross Normative Loan - Opening | | | | | 5,091.22 | 5,276.50 |
| Cumulative repayment of Normative Loan upto previous year | | | | | | 181.94 |
| Net Normative loan - Opening | | | | | 5,091.22 | 5,094.56 |
| Increase/Decrease due to ACE during the Year | | | | | 185.28 | 120.09 |
| Repayments of Normative Loan during the year | | | | | 181.94 | 375.40 |
| Net Normative loan - Closing | | | | | 5,094.56 | 4,839.25 |
| Average Normative Loan | | | | | 5,092.89 | 4,966.90 |
| Weighted average Rate of Interest on actual Loans | | | | | 9.0808% | 9.0821% |
| Interest on Normative loan | | | | | 231.24 | 451.10 |


Petitioner



Calculation of Interest on Working Capital

Name of the Transmission Licensee:

POWERGRID CORPORATION OF INDIA LTD.

Name of Region:

NORTHERN REGION

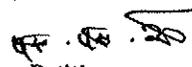
Name of the Project:

765 kV system for Central Part of Northern Grid Part-II

Name of the Transmission Element:

Associated line bays of Agra- Jattikalan 765 KV S/C TL at Agra 765 KV Extn S/S and at Jattikalan 765/400 KV new S/S(Anticipated :DOCO :01-OCT-2012

| (Rs in Lacs) | | | | | | | |
|--------------|-----------------------------|--------------------|-----------|-----------|-----------|-----------|-----------|
| Sl.N o. | Particulars | Existing 2008-2009 | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1 | O and M Expenses | | | | | 21.67 | 22.91 |
| 2 | Maintenance Spares | | | | | 39.01 | 41.24 |
| 3 | Recievables | | | | | 252.85 | 257.44 |
| 4 | Total Working Capital | | | | | 313.53 | 321.59 |
| 5 | Rate of Interest | | | | | 13.50 | 13.50 |
| 6 | Interest on Working Capital | | | | | 21.16 | 43.41 |


Petitioner



Draw Down Schedule for Calculation of IDC & Financing Charges

Name of the Transmission Licensee:

POWERGRID CORPORATION OF INDIA LTD.

Name of Region:

NORTHERN REGION

Name of the Project:

765 kV system for Central Part of Northern Grid Part-II

Name of the Transmission Element:

Associated line bays of Agra- Jattikalan 765 KV S/C TL at Agra 765 KV Extn S/S and at Jattikalan 765/400 KV new S/S(Anticipated :DOCO :01-OCT-2012

(Rs in Lacs)

| Draw Down Schedule for Calculation of IDC & Financing Charges | | | | | | | | | | |
|---|------------------------------|-----------------------------|---------------------------------|------------------------|-----------------------------|---------------------------------|------------------------|-----------------------------|---------------------------------|------------------------|
| Sl.No | Drawn Down | Quarter 1 | | | Quarter 2 | | | Quarter n(COD) | | |
| Sl.No. | Particulars | Quantum In Foreign Currency | Exchange Rate on Draw Down Date | Amount In Indian Rupee | Quantum In Foreign Currency | Exchange Rate on Draw Down Date | Amount In Indian Rupee | Quantum In Foreign Currency | Exchange Rate on Draw Down Date | Amount In Indian Rupee |
| 1. | Loans | | | | | | | | | |
| 1.1 | Foreign Loans | | | | | | | | | |
| 1.2 | Indian Loans | | | | | | | | | |
| 1.2.1 | BONDS XXIX | | | | | | | | | |
| | Draw Down Amount | | | | | | | | | |
| | IDC | | | | | | | | | 10.00 |
| | Financing Charges | | | | | | | | | |
| 1.2.2 | BOND XXXI | | | | | | | | | |
| | Draw Down Amount | | | | | | | | | |
| | IDC | | | | | | | | | 900.00 |
| | Financing Charges | | | | | | | | | |
| 1.2.3 | BOND-XXXIV | | | | | | | | | |
| | Draw Down Amount | | | | | | | | | |
| | IDC | | | | | | | | | 1500.00 |
| | Financing Charges | | | | | | | | | |
| 1.2.4 | BOND XXXVI | | | | | | | | | |
| | Draw Down Amount | | | | | | | | | |
| | IDC | | | | | | | | | 540.00 |
| | Financing Charges | | | | | | | | | |
| 1.2.5 | BOND XXXVII | | | | | | | | | |
| | Draw Down Amount | | | | | | | | | |
| | IDC | | | | | | | | | 100.00 |
| | Financing Charges | | | | | | | | | |
| 1.2.6 | Proposed Loan 2012-13 | | | | | | | | | |
| | Draw Down Amount | | | | | | | | | |
| | IDC | | | | | | | | | 1841.22 |
| | Financing Charges | | | | | | | | | |
| 1.2.7 | BOND XXXVIII | | | | | | | | | |
| | Draw Down Amount | | | | | | | | | |
| | IDC | | | | | | | | | 100.00 |
| | Financing Charges | | | | | | | | | |
| 1.2.8 | BOND XXXIX | | | | | | | | | |
| | Draw Down Amount | | | | | | | | | |
| | IDC | | | | | | | | | 100.00 |
| | Financing Charges | | | | | | | | | |
| | Total Indian Loans | | | | | | | | | |
| | Draw Down Amount | | | | | | | | | |
| | IDC | | | | | | | | | 5091.22 |
| | Financing Charges | | | | | | | | | 0.00 |
| | Total of Loans Drawn | | | | | | | | | |
| | Draw Down Amount | | | | | | | | | |
| | IDC | | | | | | | | | 5091.22 |
| | Financing Charges | | | | | | | | | 559.93 |
| | | | | | | | | | | 0.00 |
| 2 | Equity | | | | | | | | | |
| 2.1 | Foreign Equity Drawn | | | | | | | | | |
| 2.2 | Indian Equity Drawn | | | | | | | | | |
| | Total Equity Deployed | | | | | | | | | 2181.95 |

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.

Summary Sheet

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **NORTHERN REGION**
 Name of the Project: **765 kV system for Central Part of Northern Grid Part-II**
 Name of the Transmission Element: **Associated Line bays of Agra Meerut 765 kV S/C TL at Meerut(Aug. of meerut 400 kV S/S to 765 kV) and Agra(765 kV Ext S/S) (Anticipated :DOCO :01-OCT-2012**

| Sl.No. | Particulars | Form No. | Existing 2008-2009 | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013(Pro Rata) | 2013-2014 |
|--------|-----------------------------|----------|--------------------|-----------|-----------|-----------|---------------------|-----------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1 | Depreciation | FORM-12 | 0.00 | | | | 180.21 | 394.31 |
| 2 | Interest on Loan | FORM-13A | 0.00 | | | | 211.19 | 437.14 |
| 3 | Return on Equity | FORM-01A | 0.00 | | | | 177.72 | 389.09 |
| 4 | Interest On Working Capital | FORM-13B | 0.00 | | | | 20.28 | 43.28 |
| 5 | O & M Expenses | | 0.00 | | | | 130.02 | 274.92 |
| 6 | Total | | 0.00 | | | | 719.42 | 1,538.74 |

Note - Asset not yet commissioned. The bills shall be raised from Actual DOCO. Anticipated DOCO has been changed from 01.10.12 to 01.12.12.
 Prorata tariff considered in petition as per revised anticipated DOCO.

[Signature]
Petitioner



Calculation Of Return On Equity

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

POWERGRID CORPORATION OF INDIA LTD.
NORTHERN REGION

765 kV system for Central Part of Northern Grid Part-II

Associated Line bays of Agra Meerut 765 kV S/C TL at Meerut(Aug. of meerut 400 kV S/S to 765 kV) and Agra(765 kV Ext S/S) (Anticipated :DOCO :01-OCT-2012

| Particulars | (Rs in Lacs) | | | | | | |
|-----------------------------|--------------------|-----------|-----------|-----------|-----------|-----------|--|
| | Existing 2008-2009 | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| Equity as DOCO | | | | | 1,888.83 | 2,177.64 | |
| Notional Equity for Add Cap | | | | | 288.81 | 96.27 | |
| Total Equity | | | | | 2,177.64 | 2,273.91 | |
| Return on Equity @ 17.481% | | | | | 177.72 | 389.09 | |

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Petitioner



Details of Transmission Lines And Substations

Name of the Transmission Licensee:

POWERGRID CORPORATION OF INDIA LTD.

Name of Region:

NORTHERN REGION

Name of the Project:

765 kV system for Central Part of Northern Grid Part-II

Name of the Transmission Element:

Associated Line bays of Agra Meerut 765 kV S/C TL at Meerut(Aug. of meerut 400 kV S/S to 765 kV) and Agra(765 kV Ext S/S) (Anticipated :DOCO :01-OCT-2012

| Transmission Lines | | | | | | | | | | |
|--------------------|---------------------------------------|--|------------------|---|------------------|-------------------|------------------------------|---------------------------------|---------------------------------|---------------------|
| Sl.No. | Name of Line | Type of Line AC/HVDC | S/C or D/C | No. of Sub-Conductors | Voltage level kV | Line Length (Km.) | Date of Commercial operation | Covered in the present petition | Yes/No | If No, petition No. |
| Substations | | | | | | | | | | |
| Sl.No. | Name of Sub-Station | Type of Substation Conventional /GIS/ HVDC Terminal/ HVDC Back to Back | Voltage level kV | No. of Transformers / Reactors/ SVC etc (with Capacity) | No. of Bays | No. of Bays | | Date of Commercial operation | Covered in the present petition | If No, petition No. |
| 1 | Agra S/S | Conventional | 765/400 | | 765 KV | 400 KV | 220 KV | 132 KV & below | Yes/No | If No, petition No. |
| | Meerut bay | | 765 | | 1 | | | | 01-OCT-2012 | Yes |
| 2 | Meerut S/S | Conventional | 765/400 | 1 X 240 MVAR Line Reactor(switchable) | | | | | | |
| | Agra Bay | | 765 | | 1 | | | | 01-OCT-2012 | Yes |
| | Line Reactor Bay for Agra(Switchable) | | 765 | | 1 | | | | 01-OCT-2012 | Yes |
| Total | | | | | 3 | | | | | |

[Signature]
Petitioner



Normative Parameters considered For tariff calculations

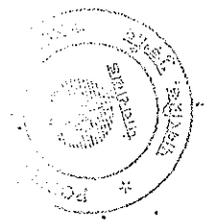
Name of the Transmission Licensee:
Name of the Region:
Name of the Project:
Name of the Transmission Element:

POWERGRID CORPORATION OF INDIA LTD.
NORTHERN REGION

765 KV system for Central Part of Northern Grid Part-II
Associated Line bays of Agra Meerut 765 KV S/C TL at Meerut(Aug. of meerut 400 KV S/S to 765 kV) and Agra(765 KV Ext S/S) (Anticipated :DOCO :01-OCT-2012

| Particulars | Unit | Year Ending March | | | | | | | | | |
|---|----------|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | Existing 2008-2009 | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 5 | 6 | 7 | 8 |
| Base Rate of Return on Equity | % | | | | | 17.481 | 17.481 | | | | |
| Tax Rate | % | | | | | 11.33 | 11.33 | | | | |
| Target Availability | % | | | | | 98.00 | 98.00 | | | | |
| Normative O&M per Km. | Rs. lacs | Given Below | | | | | | | | | |
| Normative O&M per bay | Rs. lacs | Given Below | | | | | | | | | |
| Spares for WC as % of O&M | % | | | | | 15.00 | 15.00 | | | | |
| Receivables in Months for WC | months | | | | | 2.00 | 2.00 | | | | |
| Prime lending Rate of SBI as on 01-APR-2009 | % | | | | | 13.50 | 13.50 | | | | |
| Norms for O&M expenditure for Transmission System | | | | | | | | | | | |
| | | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | | | | | |
| Norms for sub-station (Rs Lakh per bay) | | | | | | | | | | | |
| 765 KV | | 73.36 | 77.56 | 81.99 | 86.68 | 91.64 | | | | | |
| 400 KV | | 52.40 | 55.40 | 58.57 | 61.92 | 65.46 | | | | | |
| 220 KV | | 36.68 | 38.78 | 41.00 | 43.34 | 45.82 | | | | | |
| 132 KV and below | | 26.20 | 27.70 | 29.28 | 30.96 | 32.73 | | | | | |
| Norms for AC and HVDC Lines (Rs Lakhs per km) | | | | | | | | | | | |
| Single Circuit (Bundled conductor with four or more sub-conductors) | | 0.537 | 0.568 | 0.600 | 0.635 | 0.671 | | | | | |
| Single Circuit (Twin & Triple Conductor) | | 0.358 | 0.378 | 0.400 | 0.423 | 0.447 | | | | | |
| Single Circuit (Single Conductor) | | 0.179 | 0.189 | 0.200 | 0.212 | 0.224 | | | | | |
| Double Circuit (Bundled conductor with four or more sub-conductors) | | 0.940 | 0.994 | 1.051 | 1.111 | 1.174 | | | | | |
| Double Circuit (Twin & Triple Conductor) | | 0.627 | 0.663 | 0.701 | 0.741 | 0.783 | | | | | |
| Double Circuit (Single Conductor) | | 0.269 | 0.284 | 0.301 | 0.318 | 0.336 | | | | | |
| Norm for HVDC Stations | | | | | | | | | | | |
| HVDC Back-to-back stations (Rs lakh per 500 MW) | | 443.00 | 468.00 | 495.00 | 523.00 | 553.00 | | | | | |
| Rihand-Daadi HVDC bipole scheme (Rs Lakh) | | 1450.00 | 1533.00 | 1621.00 | 1713.00 | 1811.00 | | | | | |
| Talcher-Kolar HVDC bipole scheme (Rs Lakh) | | 1699.00 | 1796.00 | 1899.00 | 2008.00 | 2122.00 | | | | | |

94-02-2



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

Name of Transmission License:

POWERGRID CORPORATION OF INDIA LIMITED

Name of the Project:

Associated bays of AGRA -MERRUT 765 KV S/C line at Merrut and Agra UNDER
CENTRAL PART OF NORTHERN GRID-II

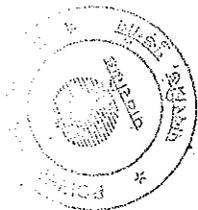
Name of Region:

NORTHERN REGION

| Capital Cost Estimates | Value in Rs. Lacs | |
|---|-------------------|------------------|
| | Present Day Cost | Completed Cost * |
| Board of Director/Agency approving the Capital Cost Estimates. | | |
| Date of approval of the Capital Cost Estimates | | |
| Price level of approved estimates | | |
| Foreign Exchange rate considered for the Capital Cost estimates | | |
| Capital Cost excluding IDC, FC & IEDC | 5925.19 | 6888.33 |
| Foreign Component, if any (In Million US \$ or the relevant currency) | | |
| Domestic Component (Rs. Cr.) | | |
| Capital Cost excluding IDC, FC & IEDC (Rs. Cr.) | 521.38 | 557.05 |
| IDC & FC | | |
| Foreign Component, if any (In Million US \$ or the relevant currency) | | |
| Domestic Component (Rs. Cr.) | | |
| Total IDC & FC (Rs. Cr.) | 1316.21 | 134.32 |
| Rates of taxes & duties considered | | |
| IEDC | 7762.78 | 7579.70 |
| Capital Cost including IDC, FC & IEDC | | |
| Foreign Component, if any (In Million US \$ or the relevant currency) | | |
| Domestic Component (Rs. Cr.) | | |
| Total Capital Cost including IDC & FC (Rs. Cr.) | 7762.78 | 7579.70 |
| Schedule of Commissioning | 30.01.2012 | |
| DOCO elementwise(Anticipated) | 01.12.2012 | |

Note:

1. Copy of the approved letter should be enclosed.
2. Details of Capital Cost are to be furnished as per FORM-5B or 5C as applicable.
3. Details of IDC & Financing charges are to be furnished as per FORM-16.



PETITIONER

Break up of Construction/ Supply / Service Packages

Form 5B

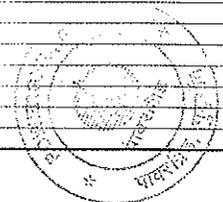
Name of Transmission Licence: POWERGRID CORPORATION OF INDIA LIMITED

Name of project: Associated bays of AGRA -MERRUT 765 KV S/C line at Merrut and Agra UNDER CENTRAL PART OF NORTHERN GRID-II

Name of Region: -- NORTHERN REGION values in lacs

| SI No | Break Down | cost (Rs.) | | | Variation | Reasons for variations |
|----------|--|--------------------------|-------------------------|---------|-----------|------------------------|
| | | As per original estimate | As on COD (Actual Cost) | Balance | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| A | TRANSMISSION LINE: | | | | | |
| 1.0 | PRELIMINARY WORKS | | | | | |
| 1.1 | Design & Engg | | | | | |
| 1.2 | Preliminary investigation, right of way, forest clearance, PTCC, general civil works etc | | | | | |
| | Total Preliminary Works | | | | | |
| 2.0 | TRANSMISSION LINE MATERIAL | | | | | |
| 2.1 | Tower Steel | | | | | |
| 2.2 | Conductor | | | | | |
| 2.3 | Earthwire | | | | | |
| 2.4 | Insulators | | | | | |
| 2.5 | Hardware fittings | | | | | |
| 2.6 | Conductor & Earthwire accessories | | | | | |
| | Total Trans. Line materials | | | | | |
| 2.8 | Spares | | | | | |
| 2.9 | Erection, Stringing & Civil works including foundation | | | | | |
| 3.0 | TAXES AND DUTIES | | | | | |
| 3.1 | Custom Duty | | | | | |
| 3.2 | Other taxes & duties | | | | | |
| 3.3 | Total taxes & duties | | | | | |
| | TOTAL TRANSMISSION LINES | | | | | |
| B | SUBSTATIONS: | | | | | |
| 4.0 | PRELIMINARY WORKS AND LAND | | | | | |
| 4.1 | Design & Engg | | | | | |
| 4.2 | Land | | | | | |
| 4.3 | Site preparation | | | | | |
| | Total Preliminary works & land | | | | | |
| 5.0 | CIVIL WORKS | | | | | |
| 5.1 | Control room & Office building including HVAC | 12.50 | | | 12.50 | |
| 5.2 | Township & Colony | | | | | |
| 5.3 | Roads & Drainage | | | | | |
| 5.4 | Foundation for structures | | | | | |
| 5.5 | Misc civil works | 3.83 | 0.31 | | 3.52 | Lower awarded prices |
| | Total Civil Works | 16.33 | 0.31 | | 16.02 | |
| 6.0 | SUBSTATION EQUIPMENTS | | | | | |
| 6.1 | Switchgear (CT,PT, Circuit Breaker, Isolator etc) | 1705.16 | | 890.29 | -1855.00 | Higher awarded prices |
| 6.2 | Transformers | | 2669.87 | | | |
| 6.3 | Compensating Equipment (Reactors) | 3845.85 | 2180.95 | 152.75 | 1512.15 | Lower awarded prices |
| 6.4 | Control Relay & Protection Panel | 97.16 | 200 | 37.56 | -140.40 | Higher awarded prices |
| 6.5 | PLCC | 68.96 | 200 | 0.00 | -131.04 | Higher awarded prices |
| 6.6 | HVDC package | | | | | |
| 6.7 | BUS bars /Conductors /Insulators | 82.00 | 151.15 | 75.00 | -144.15 | Higher awarded prices |
| 6.8 | Outdoor Lighting | 5.50 | 5.84 | 25.00 | -25.34 | Higher awarded prices |
| 6.9 | Emergency DG Set | | | | | |
| 6.10 | Power & Control Cable | 17.50 | 37.89 | 50.00 | -70.39 | Higher awarded prices |
| 6.11 | Grounding System | | | | | |
| 6.12 | Structure for Switchyard | | | | | |
| 6.13 | Misc. Common Equipment (DG+FF etc.) | 86.73 | 158.71 | 53.01 | -124.98 | Higher awarded prices |
| | Total S/S Equipments | 5908.86 | 5604.41 | 1283.61 | -979.15 | |
| 7.00 | Spares | | incl. in above | | | |
| 8.00 | Taxes & Duties | | | | | |
| 8.10 | Custom Duty | | | | | |
| 8.20 | Other taxes & duties | | | | | |
| 8.30 | Total Taxes & Duties | | | | | |
| | TOTAL (SUBSTATION) | 5925.19 | 5604.72 | 1283.61 | -963.13 | |
| 9.00 | Construction & pre-commissioning expenses | | | | | |
| 9.10 | Site supervision & site admn etc | | | | | |
| 9.20 | Tools & Plants | | | | | |
| 9.30 | Construction Insurance | | | | | |
| | Total Construction & pre-commissioning expenses | | | | | |

Form-5B

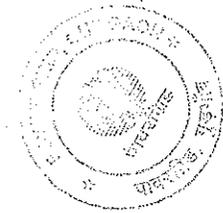


-84-

18/12/20

| Sl No | Break Down | cost (Rs.) | | | Variation | Reasons for variations |
|-------|--|--------------------------|-------------------------|----------------|----------------|------------------------|
| | | As per original estimate | As on COD (Actual Cost) | Balance | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 0.00 | Overheads | | | | | |
| 0.10 | Establishment | | | | | |
| 0.20 | Audit & Accounts | | | | | |
| 0.30 | Contingency | | | | | |
| | Total Overheads (IEDC) | 1316.21 | 134.32 | | 1181.89 | As per actuals |
| 1.00 | PROJECT COST WITHOUT TOTAL COST (Plant & Eqpt.) | 5925.19 | 5604.72 | 1283.61 | -963.13 | |
| 2.00 | Total Cost (Plant & Equipment) | | | | | |
| 2.1 | Interest During Construction (IDC) | 521.38 | 557.05 | | -35.07 | As per actuals |
| 2.2 | Financing Charges (FC) | | | | | |
| 2.3 | Foreign Exchange Rate Variation (PERV) | | | | | |
| 2.4 | Hedging Cost | | | | | |
| | Total of IDC, FC, FERV & Hedging Cost | | | | | |
| 3.0 | Compensation cost for wild life sanctuary | | | | | |
| 3.00 | Capital cost including IDC, FC, FERV & Hedging Cost | 7762.78 | 6296.09 | 1283.61 | 183.09 | |

R. A. P.



Break up of Project cost for Transmission System

Name of Transmission Licensee

POWERGRID CORPORATION OF INDIA LTD

Name of the Project:

Associated bays for 765kV S/C Meerut - Agra T/L (Part-I&II) at Meerut & Agra S/S associated with 765kV System for Central Part of Northern Grid-II

Name of Region:

NORTHERN REGION

| Sl.No | Package List | Scope | No.Of Bids | ICB/DCB | LOA NO. | Date of Award | Date of start of work | Date of completion of work | Rs. in LACS Value of Award in (Rs Lakh) | Firm or with Escalation in Prices | Actual Expenditure till the completion of |
|-------|--|----------|------------|----------|---|---------------|-----------------------|----------------------------|---|-----------------------------------|---|
| 1 | Sub/Str. Pkg.-S3 (765/400kV Meerut S/S & Extn. of Mandola & B.Garh S/S) associated with 765kV System for Central Part of Northern Grid-Part-II & Part-III | Supply | 3 | GCB/GIFB | C-14912-S019A-3/P-203&205/G1/NOA-I/3163 | 04.12.2009 | 04.12.2009 | 04.08.2011 | EURO-7151593+ INR 4392 | PV | 3326 |
| 2 | Sub/Str. Pkg.-S3 (765/400kV Meerut S/S & Extn. of Mandola & B.Garh S/S) associated with 765kV System for Central Part of Northern Grid-Part-II & Part-III | Erection | 3 | GCB/GIFB | C-14912-S019A-3/P-203&205/G1/NOA-III/3164 | 04.12.2009 | 04.12.2009 | 04.08.2011 | 2265 | PV | 991 |
| 3 | Sub/Str. Pkg.-S9 for 765/400kV Agra S/S & Extn. of 400 kV Agra Sub/Station associated with Common Scheme for 765kV Pooling Station and Network for NR and WR | Supply | 3 | GCB/GIFB | C-14808-S019A-3/LOA-I/3022/G2/AMDT NO.1 | 23.11.2009 | 23.11.2009 | 23.02.2012 | INR- 9921 SEK-74988016 EURO - 2607690 | PV | 1164 |
| 4 | Sub/Str. Pkg.-S9 for 765/400kV Agra S/S & Extn. of 400 kV Agra Sub/Station associated with Common Scheme for 765kV Pooling Station and Network for NR and WR | Erection | 3 | GCB/GIFB | C-14808-S019A-3/LOA-II/3023 | 23.11.2009 | 23.11.2009 | 23.02.2012 | 2800 | PV | 51 |



Financial package upto COD

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **NORTHERN REGION**
 Name of the Project: **765 kV system for Central Part of Northern Grid Part-II**
 Name of the Transmission Element: **Associated Line bays of Agra Meerut 765 kV S/C TL at Meerut(Aug. of meerut 400 kV S/S to 765 kV) and Agra(765 kV Ext S/S) (Anticipated :DOCO :01-OCT-2012**
 Project Cost as on COD/31.03.2009: **6296.09 (Rs. in Lakhs)**
 Date of Commercial Operation of the Transmission element: **01-OCT-2012**

(Rs in Lacs)

| Transmission Lines | | | | | |
|--|--|------------------|-----------------------------|----------------|---------------------|
| | Financial Package as apportioned/ Approved | | Financial Package as on COD | | As Admitted on COD |
| | Currency | Amount | Currency | Amount | Currency and Amount |
| Loans | | | | | |
| Loans - Domestic | INR | 5433.95 | INR | 4407.26 | |
| Loans - Foreign | | | | | |
| Total Loans | | 5433.95 | | 4407.26 | |
| Equity | | | | | |
| Foreign | | | | | |
| Domestic | INR | 2328.83 | INR | 1888.83 | |
| Notional | | | | 0.00 | |
| Total Equity | | 2328.83 | | 1888.83 | |
| Debt Equity Ratio | | 70.00:30.00 | | 70.00:30.00 | |
| Total Cost | | 7762.78 | | 6296.09 | |
| | Debt | Equity | Total | | |
| Add Cap For 2012-2013 | | | 962.71 | | |
| Add Cap For 2013-2014 | | | 320.90 | | |
| Add Cap For 2012-2013 | Actual | Normative | | | |
| Debt | | 673.90 | | | |
| Equity | | 288.81 | | | |
| Total | | 962.71 | | | |
| Add Cap For 2013-2014 | Actual | Normative | | | |
| Debt | | 224.63 | | | |
| Equity | | 96.27 | | | |
| Total | | 320.90 | | | |
| Total Capital Cost with ADDCAP upto 01.04.2014 | | | 7579.7 | | |

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Statement of Additional Capitalisation after COD

Name of the Transmission Licensee:

Name of Region:

Name of the Project:

Name of the Transmission Element:

POWERGRID CORPORATION OF INDIA LTD.

NORTHERN REGION

765 kV system for Central Part of Northern Grid Part-II

Associated Line bays of Agra Meerut 765 kV S/C TL at Meerut(Aug. of meerut 400 kV S/S to 765 kV) and Agra(765 kV Ext S/S) (Anticipated :DOCO :01-OCT-2012

01-OCT-2012

COD:

| Sl.No. | Year | Work/Equipment proposed to be added after COD upto cut off date/ beyond cut off date | Amount capitalised and proposed to be capitalised | Justification as per propose | Regulation under which covered | Admitted Cost |
|--------|-----------|--|---|-------------------------------|--------------------------------|---------------|
| 1 | 2012-2013 | SUB STATION | 962.71 | Balance and retention payment | 9(1) | 962.71 |
| | Total | | 962.71 | | | 962.71 |
| 2 | 2013-2014 | SUB STATION | 320.90 | Balance and retention payment | 9(1) | 320.90 |
| | Total | | 320.90 | | | 320.90 |

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Petitioner



Statement of Capital Cost

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

POWERGRID CORPORATION OF INDIA LTD.
NORTHERN REGION
765 kV system for Central Part of Northern Grid Part-II
Associated Line bays of Agra Meerut 765 kV S/C TL at Meerut(Aug. of meerut 400 kV S/S to 765 kV) and Agra(765 kV Ext
S/S) (Anticipated :DOCO :01-OCT-2012

Statement of Capital Cost

(To be given for relevant dates and year wise)

| | 01-APR-2009- 31-Mar-2010 | 01-APR-2010- 31-Mar-2011 | 01-APR-2011- 31-Mar-2012 | 01-OCT-2012- 31-Mar-2013 | 01-APR-2013- 31-Mar-2014 |
|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| A | | | | 62.96 | 72.59 |
| a) Opening Gross Block Amount as per books | | | | | |
| b) Amount of capital liabilities in A(a) above | | | | | |
| c) Amount of IDC, FC, FERV & Hedging cost included in A(a) above | | | | 5.57 | 5.57 |
| d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) a | | | | 1.34 | 1.34 |
| B | | | | 9.63 | 3.21 |
| a) Addition in Gross Block Amount during the period | | | | | |
| b) Amount of capital liabilities in B(a) above | | | | | |
| c) Amount of IDC, FC, FERV & Hedging cost included in B(a) above | | | | | |
| d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) a | | | | | |
| C | | | | 72.59 | 75.8 |
| a) Closing Gross Block Amount as per books | | | | | |
| b) Amount of capital liabilities in C(a) above | | | | | |
| c) Amount of IDC, FC, FERV & Hedging cost included in C(a) above | | | | 5.57 | 5.57 |
| d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) a | | | | 1.34 | 1.34 |

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Petitioner



Financing of Additional Capitalisation

Name of the Transmission Licensee:

POWERGRID CORPORATION OF INDIA LTD.

Name of the Region:

NORTHERN REGION

Name of the Project:

765 kV system for Central Part of Northern Grid Part-II

Name of the Transmission Element:

Associated Line bays of Agra Meerut 765 kV S/C TL at Meerut(Aug. of meerut 400 kV S/S to 765 kV) and Agra(765 kV Ext S/S) (Anticipated :DOCO :01-OCT-2012

(Rs in Lacs)

| Financial Year (Starting from COD) | From COD to31-Mar-2013 | | Add Cap for 2013-2014 | | Projected/Actual | | | | | Admitted | | | | |
|---------------------------------------|------------------------|--------|-----------------------|---|------------------|-------|--------------|-------|-------|----------|-------|---------------|--|--|
| | 1 | 2 | 3 | 4 | Year3 | Year4 | Year5& So on | Year1 | Year2 | Year3 | Year4 | Year5 & so on | | |
| Amount capitalised in Work/Equipmen t | 962.71 | 320.90 | 3 | 4 | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | |
| Financing Details | | | | | | | | | | | | | | |
| Loan-1 | | | | | | | | | | | | | | |
| Loan-2 | | | | | | | | | | | | | | |
| Loan-3 and so on | | | | | | | | | | | | | | |
| Total Loan | 673.90 | 224.63 | | | | | | | | | | | | |
| Equity | 288.81 | 96.27 | | | | | | | | | | | | |
| Internal Resources | | | | | | | | | | | | | | |
| Others | | | | | | | | | | | | | | |
| Total | 962.71 | 320.90 | | | | | | | | | | | | |



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Calculation of Depreciation Rate

Name of the Transmission Licensee:

POWERGRID CORPORATION OF INDIA LTD.

Name of Region:

NORTHERN REGION

Name of the Project:

765 kV system for Central Part of Northern Grid Part-II

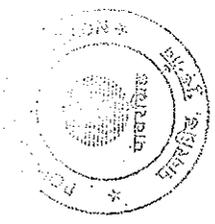
Name of the Transmission Element:

Associated Line bays of Agra Meerut 765 kV S/C TL at Meerut (Aug. of meerut 400 kV S/S to 765 kV) and Agra(765 kV Ext S/S) (Anticipated :DOCO :01-OCT-2012

(Rs in Lacs)

| Sl.No. | Name of the Assets | Gross Block as on 31.03.2012 or as on COD, whichever is later | Addcap during the year | Gross Block as on 31.03.2013 or as on COD, whichever is later | Depreciation Rates as per CERC's Depreciation Rate Schedule | Depreciation Amount up to 31.03.2013 |
|--|--------------------|---|------------------------|---|---|--------------------------------------|
| | 1 | 2 | 3 | 4 | 5 | 6=Col.4 X Col.5 |
| 2012-2013 | | | | | | |
| 1 | FREEHOLD LAND | 0.00 | 0.00 | 0.00 | 0.00% | 0.00 |
| 2 | BUILDING | 0.32 | 0.00 | 0.32 | 3.34% | 0.01 |
| 3 | TR LINE | 0.00 | 0.00 | 0.00 | 5.28% | 0.00 |
| 4 | SUB STATION | 6050.46 | 962.71 | 7013.17 | 5.28% | 172.44 |
| 5 | PLCC | 245.31 | 0.00 | 245.31 | 6.33% | 7.76 |
| 6 | LEASEHOLD LAND | 0.00 | 0.00 | 0.00 | 3.34% | 0.00 |
| | Total | 6296.09 | 962.71 | 7258.80 | | 180.21 |
| Weighted Average Rate of Depreciation (%) | | | | | | 2.66 |
| Elapsed Life | | | | | | |
| | | | | | | 0 |
| Sl.No. | Name of the Assets | Gross Block as on 31.03.2013 or as on COD, whichever is later | Addcap during the year | Gross Block as on 31.03.2014 or as on COD, whichever is later | Depreciation Rates as per CERC's Depreciation Rate Schedule | Depreciation Amount up to 31.03.2014 |
| | 1 | 2 | 3 | 4 | 5 | 6=Col.4 X Col.5 |
| 2013-2014 | | | | | | |
| 7 | FREEHOLD LAND | 0.00 | 0.00 | 0.00 | 0.00% | 0.00 |
| 8 | BUILDING | 0.32 | 0.00 | 0.32 | 3.34% | 0.01 |
| 9 | TR LINE | 0.00 | 0.00 | 0.00 | 5.28% | 0.00 |
| 10 | SUB STATION | 7013.17 | 320.90 | 7334.07 | 5.28% | 378.77 |
| 11 | PLCC | 245.31 | 0.00 | 245.31 | 6.33% | 15.53 |
| 12 | LEASEHOLD LAND | 0.00 | 0.00 | 0.00 | 3.34% | 0.00 |
| | Total | 7258.80 | 320.90 | 7579.70 | | 394.31 |
| Weighted Average Rate of Depreciation (%) | | | | | | 5.31 |
| Elapsed Life | | | | | | |
| | | | | | | 1 |

[Signature]
Petitioner



Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **NORTHERN REGION**
 Name of the Project: **765 kV system for Central Part of Northern Grid Part-II**
 Name of the Transmission Element: **Associated Line bays of Agra Meerut 765 kV S/C TL at Meerut(Aug. of meerut 400 kV S/S to 765 kV) and Agra(765 kV Ext S/S) (Anticipated :DOCO :01-OCT-2012**

(Rs in Lacs)

| Particulars | Existing 2008-2009 | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 |
|---|-----------------------|-----------|-----------|-----------|-----------|-----------|
| BONDS XXIX | | | | | | |
| Gross Loan Opening | | | | | 10.00 | 10.00 |
| Cumulative Repayments of Loans upto Previous Year | | | | | | 0.83 |
| Net Loans Opening | | | | | 10.00 | 9.17 |
| Add : Drawal(s) during the year | | | | | | |
| Less : Repayments(s) of Loans during the year | | | | | 0.83 | 0.83 |
| Net Loan Closing | | | | | 9.17 | 8.33 |
| Average Net Loan | | | | | 9.58 | 8.75 |
| Rate of Interest on Loan | | 0% | 0% | 0% | 9.2% | 9.2% |
| Interest on Loan | | | | | 0.88 | 0.80 |
| BOND XXXI | | | | | | |
| Gross Loan Opening | | | | | 661.00 | 661.00 |
| Cumulative Repayments of Loans upto Previous Year | | | | | | |
| Net Loans Opening | | | | | 661.00 | 661.00 |
| Add : Drawal(s) during the year | | | | | | |
| Less : Repayments(s) of Loans during the year | | | | | | 55.08 |
| Net Loan Closing | | | | | 661.00 | 605.92 |
| Average Net Loan | | | | | 661.00 | 633.46 |
| Rate of Interest on Loan | | 0% | 0% | 0% | 8.9% | 8.9% |
| Interest on Loan | | | | | 58.83 | 56.38 |
| BOND-XXXIV | | | | | | |
| Gross Loan Opening | | | | | 1457.00 | 1457.00 |
| Cumulative Repayments of Loans upto Previous Year | | | | | | |
| Net Loans Opening | | | | | 1457.00 | 1457.00 |
| Add : Drawal(s) during the year | | | | | | |
| Less : Repayments(s) of Loans during the year | | | | | | |
| Net Loan Closing | | | | | 1457.00 | 1457.00 |
| Average Net Loan | | | | | 1457.00 | 1457.00 |
| Rate of Interest on Loan | | 0% | 0% | 0% | 8.84% | 8.84% |
| Interest on Loan | | | | | 128.80 | 128.80 |
| BOND XXXVI | | | | | | |
| Gross Loan Opening | | | | | 454.00 | 454.00 |
| Cumulative Repayments of Loans upto Previous Year | | | | | | |
| Net Loans Opening | | | | | 454.00 | 454.00 |
| Add : Drawal(s) during the year | | | | | | |
| Less : Repayments(s) of Loans during the year | | | | | | |
| Net Loan Closing | | | | | 454.00 | 454.00 |
| Average Net Loan | | | | | 454.00 | 454.00 |
| Rate of Interest on Loan | | 0% | 0% | 0% | 9.35% | 9.35% |
| Interest on Loan | | | | | 42.45 | 42.45 |
| BOND XXXVII | | | | | | |
| Gross Loan Opening | | | | | 100.00 | 100.00 |

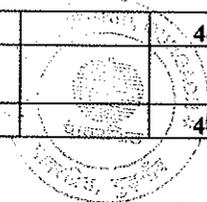


Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **NORTHERN REGION**
 Name of the Project: **765 kV system for Central Part of Northern Grid Part-II**
 Name of the Transmission Element: **Associated Line bays of Agra Meerut 765 kV S/C TL at Meerut(Aug. of meerut 400 kV S/S to 765 kV) and Agra(765 kV Ext S/S) (Anticipated :DOCO :01-OCT-2012**

(Rs in Lacs)

| Particulars | Existing 2008-2009 | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 |
|---|-----------------------|-----------|-----------|-----------|-----------|-----------|
| Cumulative Repayments of Loans upto Previous Year | | | | | | |
| Net Loans Opening | | | | | 100.00 | 100.00 |
| Add : Drawal(s) during the year | | | | | | |
| Less : Repayments(s) of Loans during the year | | | | | | |
| Net Loan Closing | | | | | 100.00 | 100.00 |
| Average Net Loan | | | | | 100.00 | 100.00 |
| Rate of Interest on Loan | | 0% | 0% | 0% | 9.25% | 9.25% |
| Interest on Loan | | | | | 9.25 | 9.25 |
| Proposed Domestic Loan-(12-13) | | | | | | |
| Gross Loan Opening | | | | | 1525.26 | 1525.26 |
| Cumulative Repayments of Loans upto Previous Year | | | | | | |
| Net Loans Opening | | | | | 1525.26 | 1525.26 |
| Add : Drawal(s) during the year | | | | | | |
| Less : Repayments(s) of Loans during the year | | | | | | |
| Net Loan Closing | | | | | 1525.26 | 1525.26 |
| Average Net Loan | | | | | 1525.26 | 1525.26 |
| Rate of Interest on Loan | | 0% | 0% | 0% | 9.25% | 9.25% |
| Interest on Loan | | | | | 141.09 | 141.09 |
| BOND XXXVIII | | | | | | |
| Gross Loan Opening | | | | | 100.00 | 100.00 |
| Cumulative Repayments of Loans upto Previous Year | | | | | | |
| Net Loans Opening | | | | | 100.00 | 100.00 |
| Add : Drawal(s) during the year | | | | | | |
| Less : Repayments(s) of Loans during the year | | | | | | |
| Net Loan Closing | | | | | 100.00 | 100.00 |
| Average Net Loan | | | | | 100.00 | 100.00 |
| Rate of Interest on Loan | | 0% | 0% | 0% | 9.25% | 9.25% |
| Interest on Loan | | | | | 9.25 | 9.25 |
| BOND XXXIX | | | | | | |
| Gross Loan Opening | | | | | 100.00 | 100.00 |
| Cumulative Repayments of Loans upto Previous Year | | | | | | |
| Net Loans Opening | | | | | 100.00 | 100.00 |
| Add : Drawal(s) during the year | | | | | | |
| Less : Repayments(s) of Loans during the year | | | | | | |
| Net Loan Closing | | | | | 100.00 | 100.00 |
| Average Net Loan | | | | | 100.00 | 100.00 |
| Rate of Interest on Loan | | 0% | 0% | 0% | 9.4% | 9.4% |
| Interest on Loan | | | | | 9.40 | 9.40 |
| Total | | | | | | |
| Gross Loan Opening | | | | | 4407.26 | 4407.26 |
| Cumulative Repayments of Loans upto Previous Year | | | | | | 0.83 |
| Net Loans Opening | | | | | 4407.26 | 4406.43 |



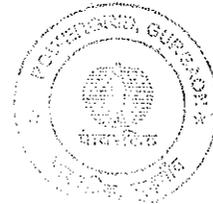
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Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **NORTHERN REGION**
 Name of the Project: **765 kV system for Central Part of Northern Grid Part-II**
 Name of the Transmission Element: **Associated Line bays of Agra Meerut 765 kV S/C TL at Meerut(Aug. of meerut 400 kV S/S to 765 kV) and Agra(765 kV Ext S/S) (Anticipated :DOCO :01-OCT-2012**

| Particulars | (Rs in Lacs) | | | | | |
|---|-----------------------|-----------|-----------|-----------|-----------|-----------|
| | Existing 2008-2009 | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 |
| Add : Drawal(s) during the year | | | | | | |
| Less : Repayments(s) of Loans during the year | | | | | 0.83 | 55.92 |
| Net Loan Closing | | | | | 4406.43 | 4350.51 |
| Average Net Loan | | | | | 4406.84 | 4378.47 |
| Interest on Loan | | | | | 399.95 | 397.42 |
| Weighted Average Rate of Interest on Loans | | | | | 9.0755% | 9.0766% |

[Signature]
Petitioner



Calculation of Interest on Normative Loan

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **NORTHERN REGION**
 Name of the Project: **765 kV system for Central Part of Northern Grid Part-II**
 Name of the Transmission Element: **Associated Line bays of Agra Meerut 765 kV S/C TL at Meerut(Aug. of meerut 400 kV S/S to 765 kV) and Agra(765 kV Ext S/S) (Anticipated :DOCO :01-OCT-2012**

(Rs in Lacs)

| Particulars | Existing 2008-2009 | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 |
|---|-----------------------|-----------|-----------|-----------|-----------|-----------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Gross Normative Loan - Opening | | | | | 4,407.26 | 5,081.16 |
| Cumulative repayment of Normative Loan upto previous year | | | | | | 180.21 |
| Net Normative loan - Opening | | | | | 4,407.26 | 4,900.95 |
| Increase/Decrease due to ACE during the Year | | | | | 673.90 | 224.63 |
| Repayments of Normative Loan during the year | | | | | 180.21 | 394.31 |
| Net Normative loan - Closing | | | | | 4,900.95 | 4,731.27 |
| Average Normative Loan | | | | | 4,654.10 | 4,816.11 |
| Weighted average Rate of Interest on actual Loans | | | | | 9.0755% | 9.0766% |
| Interest on Normative loan | | | | | 211.19 | 437.14 |


Petitioner



Calculation of Interest on Working Capital

Name of the Transmission Licensee:

POWERGRID CORPORATION OF INDIA LTD.

Name of Region:

NORTHERN REGION

Name of the Project:

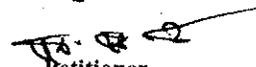
765 kV system for Central Part of Northern Grid Part-II

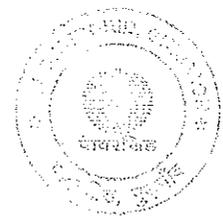
Name of the Transmission Element:

Associated Line bays of Agra Meerut 765 kV S/C TL at Meerut(Aug. of meerut 400 kV S/S to 765 kV) and Agra(765 kV Ext S/S) (Anticipated :DOCO :01-OCT-2012

(Rs in Lacs)

| Sl.No. | Particulars | Existing 2008-2009 | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 |
|--------|-----------------------------|--------------------|-----------|-----------|-----------|-----------|-----------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1 | O and M Expenses | | | | | 21.67 | 22.91 |
| 2 | Maintenance Spares | | | | | 39.01 | 41.24 |
| 3 | Recievables | | | | | 239.81 | 256.46 |
| 4 | Total Working Capital | | | | | 300.49 | 320.61 |
| 5 | Rate of Interest | | | | | 13.50 | 13.50 |
| 6 | Interest on Working Capital | | | | | 20.28 | 43.28 |


Petitioner



Draw Down Schedule for Calculation of IDC & Financing Charges

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**
 Name of Region: **NORTHERN REGION**
 Name of the Project: **765 kV system for Central Part of Northern Grid Part-II**
 Name of the Transmission Element: **Associated Line bays of Agra Meerut 765 kV S/C TL at Meerut(Aug. of meerut 400 kV S/S to 765 kV) and Agra(765 kV Ext S/S) (Anticipated :DOCO :01-OCT-2012**

(Rs in Lacs)

| Draw Down Schedule for Calculation of IDC & Financing Charges | | | | | | | | | | |
|---|---------------------------------------|-----------------------------|---------------------------------|------------------------|-----------------------------|---------------------------------|------------------------|-----------------------------|---------------------------------|------------------------|
| Sl.No | Drawn Down | Quarter 1 | | | Quarter 2 | | | Quarter n(COD) | | |
| Sl.No | Particulars | Quantum In Foreign Currency | Exchange Rate on Draw Down Date | Amount In Indian Rupee | Quantum In Foreign Currency | Exchange Rate on Draw Down Date | Amount In Indian Rupee | Quantum In Foreign Currency | Exchange Rate on Draw Down Date | Amount In Indian Rupee |
| 1. | Loans | | | | | | | | | |
| 1.1 | Foreign Loans | | | | | | | | | |
| 1.2 | Indian Loans | | | | | | | | | |
| 1.2.1 | BONDS XXIX | | | | | | | | | |
| | Draw Down Amount | | | | | | | | | 10.00 |
| | IDC | | | | | | | | | |
| | Financing Charges | | | | | | | | | |
| 1.2.2 | BOND XXXI | | | | | | | | | |
| | Draw Down Amount | | | | | | | | | 661.00 |
| | IDC | | | | | | | | | |
| | Financing Charges | | | | | | | | | |
| 1.2.3 | BOND-XXXIV | | | | | | | | | |
| | Draw Down Amount | | | | | | | | | 1457.00 |
| | IDC | | | | | | | | | |
| | Financing Charges | | | | | | | | | |
| 1.2.4 | BOND XXXVI | | | | | | | | | |
| | Draw Down Amount | | | | | | | | | 454.00 |
| | IDC | | | | | | | | | |
| | Financing Charges | | | | | | | | | |
| 1.2.5 | BOND XXXVII | | | | | | | | | |
| | Draw Down Amount | | | | | | | | | 100.00 |
| | IDC | | | | | | | | | |
| | Financing Charges | | | | | | | | | |
| 1.2.6 | Proposed Domestic Loan-(12-13) | | | | | | | | | |
| | Draw Down Amount | | | | | | | | | 1525.26 |
| | IDC | | | | | | | | | |
| | Financing Charges | | | | | | | | | |
| 1.2.7 | BOND XXXVIII | | | | | | | | | |
| | Draw Down Amount | | | | | | | | | 100.00 |
| | IDC | | | | | | | | | |
| | Financing Charges | | | | | | | | | |
| 1.2.8 | BOND XXXIX | | | | | | | | | |
| | Draw Down Amount | | | | | | | | | 100.00 |
| | IDC | | | | | | | | | |
| | Financing Charges | | | | | | | | | |
| | Total Indian Loans | | | | | | | | | |
| | Draw Down Amount | | | | | | | | | 4407.26 |
| | IDC | | | | | | | | | 0.00 |
| | Financing Charges | | | | | | | | | 0.00 |
| | Total of Loans Drawn | | | | | | | | | |
| | Draw Down Amount | | | | | | | | | 4407.26 |
| | IDC | | | | | | | | | 557.05 |
| | Financing Charges | | | | | | | | | 0.00 |
| 2 | Equity | | | | | | | | | |
| 2.1 | Foreign Equity Drawn | | | | | | | | | |
| 2.2 | Indian Equity Drawn | | | | | | | | | |
| | Total Equity Deployed | | | | | | | | | 1888.83 |

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.

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पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड
(भारत सरकार का उद्यम)

POWER GRID CORPORATION OF INDIA LIMITED

(A Government of India Enterprise)



पावरग्रिड

उत्तरी क्षेत्र-1, मुख्यालय, बी-9, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली-110016 दूरभाष : 26560112, 26560115, फैक्स: 011-26601081 तार 'नेटग्रिड'
Northern Region-1 Headquarters, B-9, Qutab Institutional Area Katwaria Sarai, New Delhi-110016 Tel.: 26560112, 26560115, Fax: 011-26601081 Gram: "NETGRID"

संदर्भ संख्या/Ref. No.:

REF: NR-1/

2140

दिनांक / Dated:

Date: 02.06.2010

To,

Chairman,
Himachal Pradesh State Electricity Board,
Vidyut Bhawan, Shimla- 171 004

Sub: Main BPTA- Updated transmission assets

Sir;

The main BPTA was signed with Himachal Pradesh State Electricity Board(HPSEB) on dated 09.09.2003. During the last seven years approval has been accorded by NREB / NRPC for various assets created / under implementation by POWERGRID.

The consolidated and updated list is enclosed herewith. It is requested that the existing list may be replaced with the enclosed list. The new list will become part of Main BPTA already signed as agreed by NREB / NRPC.

Thanking you,

Yours Sincerely,

(P.C.PANKAJ)

EXECUTIVE DIRECTOR

ATTESTED TRUE COPY

Encl: As above

N.O.D

cc: ED (Fin), cc

ED (SEAF/Eng)

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

पंजीकृत कार्यालय : बी-9, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली - 110 016
Regd. Office : B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi - 110 016

आप हमसे हिन्दी में पत्र व्यवहार कर सकते हैं।

E Immediate transmission system for North Karanpura - sharing of transmission charges would be in proportion to their power allocation:

1. NKPTPS – Gaya 400kV quad D/C
2. NKPTPS – Ranchi 400kV quad D/C

F Transmission scheme for enabling import of NER/ER surplus power by NR (transmission Scheme being steered through SPV of PFC)

1. Bongaigaon-Siliguri 400kV quad D/C
2. Purnea-Biharsharif 400kV quad D/C

Sharing of transmission charges for this scheme would be amongst those utilities of NR which would have firm allocated shares in generation projects located in NER and Sikkim. **Line bays and reactors at PGCIL substations for the above ITP scheme would be constructed by PGCIL as a part of Regional System Strengthening Scheme and transmission charge sharing would be in the same way as that for the above IPT scheme.**

Approved in 11th NRPC meeting dt 06.01.09

A 765kV System for the Central part of Northern Grid

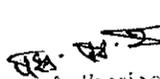
a) System Strengthening Scheme

1. Establishment of 765kV, 2x1500MVA 765/400kV substation at Meerut
2. Agra-Meerut 765kV S/C (also proposed to be LILOed at G.Noida of UPPCL)
3. Agra-Jatikalán mor(Delhi) 765kV S/C
4. Establishment of New 765kV 2x1000MVA 765/400kV and 2x500 MVA 400/220kV substation at Bhiwani and New 765kV S/S at Jatikalán mor with 4x1500MVA 765/400kV ICT
5. Jatikalán mor-Bhiwani 765kV S/C
6. Meerut-Bhiwani 765kV S/C
7. Bhiwani-Moga 765kV S/C
8. Upgrading Moga S/S to 765kV /400kV 2x1500 MVA, 765/400 kV ICT
9. Augmentation of Agra 765kV s/s for bays
10. Necessary Reactive Compensation – bus and line reactors

b) Reconfiguration of Delhi ring to address the issue of short circuit level

1. LILO of both circuits of Bawana/Bahaduragh-Hissar 400kV D/C at Bhiwani
2. LILO of both circuits of Mundka-Bamnouli 400kV D/C at Jatikalán Mor
3. LILO of both circuits of Bareilly-Mandola 400kV D/C line at Meerut so as get four number of 400kV circuits between Mandola and Meerut.
4. 400kV bus at Jhatikra to be split in two parts with 2x1500 MVA 765/400kV ICT on the Bamnouli side and 2x1500 MVA 765/400kV ICT on Mundka side.
5. Mandola 400kV bus also to be split with two circuits to Meerut and two circuits to Bawana and other two circuits to Meerut and Dadri circuits on other side.
6. Arrangement at Samaypur so that Dadri –G. Noida/Maharanj bagh – Nawada – Samaypur 400 kV could be kept open from Delhi ring at Samaypur.

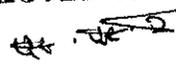
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Authorized Signatory
Power Grid Corporation of India Ltd.
Plot No.-2, Sector-29, Gurgaon-122 001 (HARYANA)

INDEX

| | | |
|--|---|--|
| Name of the Company | | POWRGRID CORPORATION OF INDIA LTD. |
| Name of the Project : | | 765 kV system for Central Part of Northern Grid Part-II |
| Name of Region: | | NR |
| 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 | - Not Applicable and hence not enclosed - |
| FORM-9 | Statement of Additional Capitalisation after COD | Yes |
| FORM-9A | Statement of Capital Cost | Yes |
| FORM-9B | Statement of CWIP | - Not Applicable and hence not enclosed - |
| FORM-10 | Financing of Additional Capitalisation | Yes |
| FORM-11 | Calculation of Depreciation Rate | Yes |
| FORM-12 | Statement of Depreciation | Yes |
| FORM-13 | Calculation of Weighted Average Rate of Interest on Actual Loans | Yes |
| FORM-13A | Calculation of Interest on Normative Loans | Yes |
| FORM-13I | Loan In Foreign Currency | - Not Applicable and hence not enclosed - |
| FORM-13B | Calculation of Interest on Working Capital | Yes |
| FORM-14 | Draw Down Schedule for Calculation of IDC & Financing Charges | Yes |
| FORM-14A | Actual Cash Expenditure | - Not Applicable and hence not enclosed - |
| Other Information/ Documents | | |
| Sl. No. | Information/Document | Tick |
| 1 | Certificate of Incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association (For New Station setup by a company making tariff application for the first time to CERC) | - Not Applicable - |
| 2 | Regionwise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the new Transmission System & for the relevant years. | Consolidated Balancesheet of POWERGRID & Regional Balance sheet of NR for FY 2010-11 has been submitted. |
| 3 | Copies of relevant loan Agreements | |
| 4 | Copies of the approval of Competent Authority for the Capital Cost and Financial package. | |
| 5 | Copies of the Equity participation agreements and necessary approval for the foreign equity. | Equity contribution by GOI (69%) & OTHERS (31%) |
| 6 | Copies of the BPTA/TSA with the beneficiaries, if any | Relevant RPC and Standing Committee minutes extracts enclosed |
| 7 | Detailed note giving reasons of time and cost over run, if applicable. | -Not Applicable - |
| 8 | Any other relevant Information, (Please specify) | -Not Applicable - |

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