

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



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

संदर्भ संख्या/Ref. Number

Ref : C/CP/N68-00

Dated: February 25, 2004

MEMORANDUM

SUB: INVESTMENT APPROVAL FOR NORTHERN REGION SYSTEM STRENGTHENING SCHEME -I

The Board of Directors of POWERGRID, in exercise of powers delegated to it by the Government of India through its O.M. No. 11/36/97-FIN dated 9.10.1997, have accorded investment approval for establishment of the "Northern Region System Strengthening Scheme -I", in its 151<sup>st</sup> meeting held on 30<sup>th</sup> January, 2004, as per the details, given below :

1. Scope of project

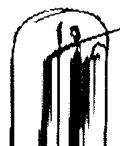
Following work is included in the scope of the present scheme:

Transmission Lines

- > Kanpur – Auraiya 400 kV D/C - 67 Km
- > LILO of Kanpur – Agra 400 kV S/C at Auraiya - 12 Km
- > LILO of Lucknow – Moradabad 400 kV S/C at Bareilly (POWERGRID) - 18 Km
- > LILO of Bareilly – Mandaula 400 kV D/C at Bareilly (POWERGRID) - 18 Km
- > LILO of Sultanpur – Lucknow 400 kV S/C at Lucknow (POWERGRID) - 39 Km
- > Bareilly (POWERGRID) – Moradabad 400 kV S/C - 90 Km

Substations

- > Bareilly 400kV (New Switching Station by POWERGRID)
- > Lucknow 400/220 kV (POWERGRID) Substation (Extension)
- > Auraiya 400 kV Generation Switchyard of NTPC (Extension)
- > Kanpur 400/220 kV (POWERGRID) Substation (Extension)
- > Moradabad 400/220 kV (UPPCL) Substation (Extension)
- > Mandaula 400/220 kV (POWERGRID) Substation (Extension)



Copy for kind information please:

PS to Secretary (Power)

Chairman, CERC, Core-3, 6<sup>th</sup> floor, SCOPE complex, New Delhi- 110 003

Chairman, CEA, R.K.Puram, New Delhi -66

Commissioner, Power Development Deptt., Govt. of Jammu & Kashmir, Mini Secretariat, Jammu

Chairman, Himachal Pradesh SEB, Vidyut Bhawan, Kumar House Complex Building-II, Shimla-171004

Chairman, Punjab State Electricity Board, The Mall, Patiala-147001

CMD, Haryana Vidyut Prasaran Nigam Ltd., Shakti Bhawan, sector-6, Panchkula (Haryana) - 134109

CMD, Rajasthan State Electricity Board, Vidyut Bhawan, Vidyut Marg, Jaipur- 302005.

CMD, UPPCL, Shakti Bhawan, 14, Ashok Marg, Lucknow - 226001

CMD, Uttaranchal Power Corporation Ltd., Kaulagarh Power House, FRI complex, Dehradun-248006.

CMD, Delhi Power Supply Corp. Ltd., Shakti Sadan Building, I.T.O. Kotla Road New Delhi-110 001

Chief Engineer, Electricity Deptt., Chandigarh Administration, Mini Secretariat (P.E.), Sector-9, Chandigarh.

Advisor, PAMD, Planning Commission, Yojana Bhawan, New Delhi

Additional Secretary, MOP

Member Secretary, Planning Commission, Yojana Bhawan, New Delhi

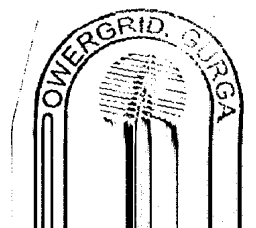
Member Secretary, NREB, 18/A, Shaheed Jeet Singh Sansanwal Marg, Katwaria Sarai, New Delhi-110 016

Member (Power Systems), CEA, R.K.Puram, New Delhi -66

Secretary, CEA, Sewa Bhawan, R.K.Puram, New Delhi -66 - 03 copies

Joint Secretary, Ministry of Statistics & Programme Implementation, Sardar Patel Bhawan, New Delhi

(10)



Joint Secretary & Financial Advisor, MOP

Joint Secretary (Trans & IPC), MOP

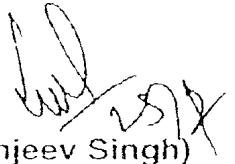
Joint Secretary (Plan Finance Div.-II), Ministry of Finance

21 Director, Ministry of Finance (Plan finance Div.) North Block, New Delhi-1

22 Deputy Secretary, Cabinet Secretariat, Rashtrapati Bhawan, New Delhi

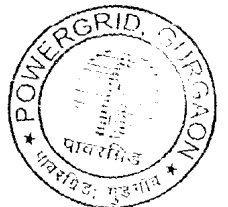
23 Under Secretary (T&D), Ministry of Power.

24 Under Secretary, Finance & Budget Section, MoP



(Sanjeev Singh)

Addl. General Manager (CP)



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# ABSTRACT COST ESTIMATE

(BASE COST)

## NORTHERN REGION SYSTEM STRENGTHENING-I

(Cost updated to 4TH Qtr. 2003 price level)

| Sr. No. | DESCRIPTION               | AMOUNT<br>(Rs. in Crs.) |
|---------|---------------------------|-------------------------|
| A       | Preliminary & Civil Works |                         |
| B       | Land & Compensation       | 0.29                    |
| C       | Civil Works               | 4.25                    |
|         | (i) Infrastructure        |                         |
|         | (ii) Buildings            | 2.23                    |
|         | (iii) Colony              | 1.89                    |
|         |                           | 2.76                    |
| D       | Equipment Cost            |                         |
|         | a. Trans Lines            |                         |
|         | b. Sub Stations           | 141.64                  |
|         |                           | 74.77                   |

**Sub Total (A to D)**

**216.49**

|   |       |
|---|-------|
| Tools & Plants (@ 1% of D)                  | 2.16  |
| Maintenance during construction (@ 1% of D) | 2.16  |
| Engg. & Administration (@ 3.5% of D)        | 18.40 |
| Losses on Stock (@ 0.25% of D)              | 0.54  |
| Contingencies (@ 3% of D)                   | 6.49  |

**Sub Total (A to I)**

**257.59**

Interest During Construction (IDC)

14.21

**GRAND TOTAL**

**271.80**

1. Loan has been assumed to be available from domestic sources
2. Interest rate on Domestic Loan has been considered @ 8.5% subject to actuals
3. Debt Equity ratio has been considered as 70:30

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