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No.12/10/99-PG  
Government of India  
Ministry of Power  
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New Delhi, the 2<sup>nd</sup> July, 2002

To

CMD,  
POWERGRID,  
New Delhi.

**Sub: Feasibility Report of Dulhasti Combined Transmission System.**

Sir,

I am directed to say that originally, transmission system associated with Dulhasti Hydro Electric project was approved to be implemented by NHPC at an estimated cost of Rs.166.57 crores matching with that of generation project i.e. by July, 1994 vide this Ministry's letter No.18/7/84-Trans(Vol.II) dated 27.10.1987. Pursuant to formation of POWERGRID, the transmission project was transferred to POWERGRID in 1992. It was realised that it would be difficult to complete the full transmission system matching with the commissioning of Dulhasti generation project.

Accordingly, to meet the urgent need for evacuation of power from Dulhasti HEP, a contingency scheme was evolved and approved at an estimated cost of Rs.137.69 crore, based on January, 1992 price level vide Ministry of Power's letter No. 18/7/92-Trans. Dated 28.12.1992. POWERGRID started implementing the contingency scheme so as to match its commissioning with that of the 1<sup>st</sup> unit of Dulhasti HEP to be commissioned in July, 1994. However, commissioning of generation project got delayed considerably (5 years) requiring a fresh review of transmission system in order to have overall optimum as well as reliable system.

After consultation with CEA, the contingency scheme was dispensed with and the originally approved scheme was revised by POWERGRID with minor modifications. Since the work on 220 kV D/C line had already commenced, POWERGRID gainfully utilised the same corridor and expenditure while upgrading the 220 KV D/C line to 400 S/C line. Accordingly, POWERGRID prepared the combined feasibility Report including modified contingency scheme and additional 400 KV lines i.e. 400 S/C Dulhasti-Kishenpur & 400 KV D/C Kishenpur-Wagoora line. In order to reduce the project cost, it has been decided that the 2<sup>nd</sup> ckt of 400 KV S/C Dulhasti-Kishenpur line proposed to be taken up for execution under the project, be deleted for the time being and be reviewed sometime later in 2002

depending upon the progress made by various generating projects in this area.

Accordingly, I am to convey the administrative approval and expenditure sanction of the President to the feasibility report of Dulhasti Combined Transmission System at a cost of Rs.567.05 crores including an IDC of Rs. 142.04 crores based on 3<sup>rd</sup> quarter, 2000 price level. The detailed break up of the cost is given in the Annexure.

### **Scope of the Project**

#### **1. Transmission Lines**

- (a) 400 kV S/C Dulhasti-Kishenpur Transmission line (Through upgradation of 220 kV D/C line of Contingency Scheme, which has been completed)-(122.34 Kms.)
- (b) 400 kV D/C Kishenpur- Wagoora Transmission Line-(84.80 Kms)

#### **2. Sub-stations**

- (a) Extension of 400/220 kV sub-station at Kishenpur with 7x105 MVA Transformer.
- (b) Extension of 400/220 kV Sub-station at Wagoora.

#### **3. Shunt Capacitors: 247.5 MVAR.**

### **Project Implementation Schedule**

The 400 KV S/C Dulhasti-Kishenpur Transmission line (through upgradation of 220 kV D/C line of Contingency Scheme) has already been completed and test charged in March 2000. The new line i.e. 400 KV D/C Kishenpur-Wagoora alongwith extension of associated substations will be completed within 48 months from the date of investment approval.

### **Funding of Project**

The project would be funded through domestic borrowings and POWERGRID's internal resources.

### **Progress Report**

POWERGRID will submit the Monthly Progress Report indicating the financial and physical progress of the implementation of scheme.

This sanction issues with the concurrence of the Internal Finance of this Ministry vide their Dy.No.1751/Fin./02 dated 1.7.2002.

  
(Harjit Singh)

Under Secretary to the Govt. of India.

Ph.3718589

Copy to:

1. Cabinet Secretariat (Shri P. Gopalakrishnan, Director), New Delhi, w.r.t their letter No.CCEA/7/2002 (i) dated 17<sup>th</sup> June., 2002.
2. Ministry of Finance, Plan Finance Div./Department of Economic Affairs, New Delhi.
3. Finance Commissikon Div. DEA, CGO Complex, New Delhi.
4. Planning Commission, Yojana Bhawan, New Delhi.
5. Department of Programme Implementation, Sardar Patel Bhawan, New Delhi.
6. Chairman, CEA, New Delhi.
7. Member (PS), CEA, New Delhi.
8. Member Secretary, NREB, New Delhi.
9. Controller of Accounts, Ministry of Power, New Delhi.
10. The Principal director of Commercial Audit and Economic Ministries, New Delhi.
11. Finance/Budget Section, Ministry of Power, New Delhi.
12. Planning Section, Ministry of Power, New Delhi.

Copy to:

PS to MOP/PS to MOS(P)/PPS to Secretary (Power)/PS to JS(Trans.)/JS&FA, Ministry of Power.

**ABSTRACT COST ESTIMATE**  
**DULHASTI COMBINED TRANS. SYSTEM**  
*(IIIrd Quarter 2000 price level)*

Sr. No.	DESCRIPTION	AMOUNT (Rs. in Crs.)
A	Preliminary Works	1.61
B	Land & Compensation	6.44
C	Civil Works	
	i) Infrastructure	0.51
	ii) Buildings	1.75
	iii) Colony	1.46
D	Equipment Cost	
	a) Trans.Lines	294.24
	b) Sub-Stations	59.92
	Sub Total (D)	354.16
E	Misc. Tools & Plants (1% of D)	3.54
F	Maintenance (1% of D)	3.54
G	Engg. & Administration:	
	a) Establishment incl.	30.10
	Audit & Accounts (8.5% of D)	
	b) Losses on Stock (0.25% of D)	0.89
H	Contingencies (3% of D)	10.62
I	Capacitors(247.5MVAR @Rs.4.0 Lakhs inclusive of all overheads)	10.38
	Sub Total (A to I)	425.01
J	Interest During Construction (IDC)	142.04
	<b>Grand Total</b>	<b>567.05</b>