



Government of India
Ministry of Power
Central Electricity Authority
System Planning & Project Appraisal Division
Sewa Bhawan, R. K. Puram,
New Delhi-110066



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No. 54/1/2013- SP&PA/ 2052-54

Dated: 19.11.2013

To

Chief Engineer Electy.,
Planning and Co-ordination Division,
KPTCL, Kaveri Bhawan,
Bangalore-560009

Subject: Evacuation scheme for Yeramarus (2 x 800 MW) and Edlapur (1 x 800 MW) Thermal power generation.

Ref: KPTCL's letter no CEE (P&C)/SEE(Plg)/LCO-97/55319/2013-14 dt 13.11.2013.

Sir,

This has reference to KPTCL letter dated 13.11.2013 and the studies carried out by them for evacuation of power from Yeramarus (2 x 800 MW) and Edlapur (1 x 800 MW) Thermal power generation project in the State of Karnataka. The proposed scheme was discussed in meeting held in CEA with KPTCL and Central Transmission Utilities i.e. Power Grid Corporation of India Ltd. on 14th November, 2013. Based on the studies carried out and discussions held in CEA, it was brought out that the total transmission system may be implemented in two stages:

Stage-I : Transmission scheme for evacuation of power from Yeramarus (2 x 800 MW) TPS
Stage-II: Transmission scheme for evacuation of power from Edlapur (1 x 800 MW) TPS,
with the details given below:

1. **Stage-I : Transmission scheme for evacuation of power from Yeramarus (2 x 800 MW) TPS**
 - (i) To Establish 400 kV pooling station near 'BTPS'.
 - (ii) To Establish 400/220 kV substation at Gulbarga, 3x315 MVA (three phase) / 7x167 MVA(single phase)
 - (iii) 400 kV DC Line with Quad Moose Conductor to link 'YTPS' and 400/220 kV substation at Gulbarga.

- (iv) To Establish 400 KV switching station at Chikkanayakanahalli (C.N Halli) near “Loop in Loop Out” (LILO) point of the existing 400/220 KV sub-station at Hassan.
- (v) To LILO of both the circuits of Nelamangala – Talaguppa 400kV lines to the proposed pooling station near CN Halli.
- (vi) To Terminate 400 KV DC Line feeding 400/220 KV station at Hassan from Nelamangala – Talaguppa Line to the proposed 400 KV pooling station at CN Halli.
- (vii) 400 kV DC Line with Quad Moose Conductor to link ‘YTPS’ with the proposed 400 kV pooling station near ‘BTPS’.
- (viii) 400 kV DC Line with Quad Moose Conductor to link the proposed 400 KV pooling station near C.N.Hally with the proposed 400 kV pooling station near ‘BTPS’.
- (ix) 400 kV DC Line with Quad Moose Conductor to link the proposed 400 KV pooling station near ‘BTPS’ with the upcoming 765/400 KV station (New Madhugiri) near Tumakur.
- (x) To de-link 400 kV SC Line running between RTPS-BTPS-JSW-Guttur with ‘BTPS’ and JSW Bus so as to retain direct connectivity between RTPS & Guttur.
- (xi) To link both ‘BTPS’ and ‘JSW’ with Quad Moose conductor directly to the proposed 400 KV pooling station near BTPS.

NOTE: (i) All the elements covered in the Stage-I should be implemented on priority basis.

(ii) The item no (x) and (xi) are to be taken up only after the transmission lines and substations in the scope of phase-I have been commissioned

2. **Stage-II: Transmission scheme for evacuation of power from Edlapur (1 x 800 MW) TPS**

- (i) 400 kV DC Line with Quad Moose Conductor to link ‘ETPS’ with the proposed 400 kV pooling station near ‘BTPS’.
- (ii) 400 kV DC Line with Quad Moose Conductor to link ‘ETPS’ with ‘YTPS’.
- (iii) Any one of the following alternatives:
 - (a) C.N. Halli- Bastipura (Mysore) 400 kV DC Line with Quad Moose Conductor
 - (b) C. N. Hall- Daberspet (a new 400kV S/s near west of Banglore) 400 kV DC Line with Quad Moose Conductor
 - (c) Tumakur (Madhugiri-New) - Bastipura (Mysore)/ Daberspet 400 kV DC Line with Quad Moose Conductor

KPTCL to carry out further studies to finalize the Stage-II, considering above alternatives.

3. As requested by KPTCL, we convey our 'In-principle approval for the above schemes. The system would be taken up for discussion and approval in the next meeting of the standing Committee of Power System Planning of Southern Region. KPTCL is requested for formulate the agenda for the Standing Committee along with necessary system studies as per the new transmission planning criteria.

Yours faithfully,

(Pardeep Jindal)
Director (SP&PA)

Copy to:

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