

## TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED

**Sub:** Revised administrative approval for erection of 132/33 kV Substation at Kamanpur in Karimnagar district along with connected 132 kV & 33 kV lines – Accorded.

**T.O.O (CE-Construction-I) Ms. No.213**

**Dated: 13.10.2012**

APNPDCL have proposed for erection of 132/33 kV substation at Kamanpur in Karimnagar district to meet increased load on 33/11 kV substations and also to reduce 33 kV line losses. Load flow studies were conducted by the Chief Engineer (Power Systems) for erection of above 132/33 kV substation and it is observed that the 132/33 kV substation at Kamanpur in Karimnagar district is essential to reduce the overloaded 33 kV feeders and 33 kV substations and to improve voltage conditions and quality & reliability of power supply in the area.

Subsequently administrative approval issued vide T.O.O (CE-Construction-I) Ms. No. 296 Dated: 21.11.2011 for erection of 132/33 kV Substation at Kamanpur in Karimnagar district along with 20.00 KM of 132kV DC/SC line from Manthani 220/132 kV Substation to the proposed 132/33 kV Kamanpur Substation at an amount of **Rs. 1553.00 Lakhs**

The Superintending Engineer/ TLC/Karimnagar has informed that the following lines are to be erected at the narrow corridor of about 30m available from Manthani area to Kamanpur area due to open cast coal mines, reserve forest area and habitation.

- i) Erection of 132kV DC/SC line from 220/132kV SS Manthani to proposed 132/33kV SS Kamanpur
- ii) Erection of 132kV LILO line to 220/132kV at Manthani SS from existing 132kV RSS - Kamalapur DC line
- iii) Erection of 220kV LILO line to proposed 220kV SS Manthani from existing 220kV RSS- Warangal line.

The route alignment for 132kV DC/SC line from proposed 220/132kV SS Manthani to proposed 132/33kV SS Kamanpur line and 220kV LILO to proposed 220/132kV SS Manthani was already fixed and there is no corridor available for proposed 132kV LILO line from proposed 220/132kV SS Manthani to 132kV RSS-Kamalapur DC line.

As above three lines cannot be accommodated in the narrow corridor of 30m, it is proposed for laying of 132kV multi circuit towers from 220kV Manthani SS to AP10 of 132kV Kamanpur line for accommodating two 132kv lines for a line length of about 15KM. On this multi circuit towers two circuits can be utilized for 132kV LILO to Manthani and remaining two circuits can be utilized for 132kV Kamanpur line.(One circuit for the present and one for the future). From AP 10 two separate 132kV lines are to be laid, one for 132kV Kamanpur SS for a line length of 8.5KM and another one for 132 kV LILO to Manthani SS for a line length of 2.5 KM as it is more economical, reliable & convenience.

After careful consideration, APTRANSCO accords revised administrative approval for erection of for erection of 132/33 kV Substation at Kamanpur in Karimnagar district along with the following 132 kV lines to the proposed 132/33 kV Kamanpur in Karimnagar district as below at an amount of **Rs. 2511.00 Lakhs**

- i) Erection of 132kV DC/SC line with multi circuit towers from Manthani 220 kV SS upto 15KM (AP 10) to accommodate both 132kV DC/SC line to Kamanpur SS & 132 kV LILO line from 132kV RSS-Kamalapur line:- 15 KM
- ii) Erection of 132 kV DC/SC line (normal towers) from Loc. No. AP 10 to proposed 132 kV Kamanpur SS : - 8.5 KM

**ABSTRACT OF THE ESTIMATE**

<b>Sl. No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>RATE PER UNIT Rs.LAKHS</b>	<b>AMOUNT IN Rs.LAKHS</b>
1	132/33 kV Substation at Kamanpur with 2 x 16 MVA (Released) PTR Capacity (Radial))	No	1	710.00	710.00
2(a)	132kV DC/SC line with multi circuit towers from Manthani 220 kV SS upto 15KM (AP 10) to accommodate both 132kV DC/SC line to Kamanpur SS & 132 kV LILO line from 132kV RSS-Kamalapur line(Stringing one circuit )	KM	15.00	89.00	1335.00
(b)	Erection of 132 kV DC/SC line (normal towers) from Loc. No. AP 10 to proposed 132 kV Kamanpur SS	KM	8.5	42.00	357.00
3	132 kV Bay extension at Manthani 220/132 kV Substation	No	1	76.00	76.00
4	33 kV line with 100 Sqmm AAAC	KM	6.5	2.50	16.25
5	Communication facility(PLCC)	No	1	16.48	16.48
	<b>Total cost of works</b>				<b>2510.73</b>

**(\*\*) Estimate with 2 x16 MVA released Power Transformer. Or Say Rs. 2511.00 Lakhs**

The scheme will be executed with financial assistance from M/s. Power Finance Corporation Ltd., New Delhi / M/s Rural Electrification Corporation Limited, New Delhi / other funding agencies and with APTRANSCO funding in case full loan is not sanctioned by M/s. Power Finance Corporation Ltd., New Delhi / M/s Rural Electrification Corporation Limited / other funding agencies. The cost of the 33 kV lines at Item No.4 of the above Abstract of Estimate will be borne by APNPDCL.

The Chief Engineer / Construction-I is hereby authorized to take up the above works after revised investment approval is obtained from APERC and financial tie-up is completed. This authorization is issued with the concurrence of Director (Finance & Revenue) vide U.O. No. 3771 Dated 08.10.2012.

“In exercise of the powers conferred by G.O. Ms. No. 115 dated 07.10.2003 of Government of Andhra Pradesh, APTRANSCO or their authorized representatives shall have the powers that the Telegraphic Authority possesses under the provision of the Indian Telegraph Act 1885 (13 of 1885) for placing of any wires, poles, towers etc., for Transmission of electricity or for the purpose of telephonic or telegraphic communication facility necessary for the proper coordination of the works of the APTRANSCO.

**BY ORDER AND IN THE NAME OF TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED**

**Sd/-  
DIRECTOR/ TRANSMISSION**

To,  
The Chief Engineer/Construction-I/Vidyut Soudha/Hyderabad.

Copy to:

The Chairman & Managing Director/APNPDCL.

The Executive Director / Planning, RAC & Reforms/V.S./Hyd

The Chief Engineer/Construction-II/Vidyut Soudha/Hyderabad

The Chief Engineer /Power Systems

The Chief Engineer/EA,O, RE&IT

The Chief Engineer/ Transmission

The Chief Engineer /Lift Irrigation

The Chief Engineer/ Warangal Zone/ Warangal

The Chief Engineer/Telecom/VS/Hyderabad

FA & CCA (CF)/Vidyut Soudha/Hyderabad

FA & CCA (A&E)/Vidyut Soudha/Hyderabad

The Superintending Engineer/TL&SS/ Karimnagar

The Superintending Engineer/TLC/ Karimnagar

The Superintending Engineer/Op/APNPDCL/ Karimnagar

The Superintending Engineer/PM-I/Construction-I/VS/Hyd,

The Superintending Engineer/PM-II/Construction-II/VS/Hyderabad

Personal Secretary to the Chairman & Managing Director

Personal Secretary to the Joint Managing Director (Distribution), HRD

Personal Secretary to the Joint Managing Director / Comml, IPC,Reforms,RA&IT

Personal Secretary to the Joint Managing Director/Vigilance & Security,

Personal Secretary to the Director/Finance & Revenue,

Personal Secretary to Director/Projects

Personal Secretary to Director/Grid Operation

Personal Secretary to Director/Transmission

**FORWARDED BY ORDER**

DE-3 of SE/PM- I O/o CE/Construction -I

T.O.O Section

**ASSISTANT DIVISIONAL ENGINEER**