

## TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED

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

---

**T.O.O (CE-Construction-I) Ms. No.185**

**Dated: 11.08.2011**

APNPDCL have proposed for erection of 132/33 kV substation at Water Works in Karimnagar town 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 Water Works in Karimnagar town 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. 406 dated 20.12.2010 for construction of 132/33 kV substation at Water Works in Karimnagar town along with 10 km of 132kV DC/SC line from Durshed 220/132 /33 kV SS to the proposed 132/33 kV Water works in Karimnagar Town Substation at an amount of **Rs. 1306.00 Lakhs**

Superintending Engineer / TLC / Karimnagar has submitted that while inspecting the corridor of the proposed line the laying of 132 kV DC/SC line from Durshed 220/132/33 kV SS to the proposed 132/33 kV Water works in Karimnagar Town Substation is very difficult and it requires approximate 10 KM of cable for execution of line. Hence Superintending Engineer / TLC / Karimnagar has proposed to erect 132 kV DC/SC line (6.5 KM) and single circuit XLPE underground (1.00 KM) from 220/132 kV Durshed SS to karimnagar water works.

After careful consideration, APTRANSCO accords revised administrative approval for erection of 132/33 kV substation at Water Works in Karimnagar town along with erection of 132 kV DC/SC line (6.5 KM) and single circuit XLPE underground (1.00 KM) from 220/132 kV Durshed SS to Karimnagar water works Substation at an amount of **Rs. 1855.00 Lakhs** as per the break up indicated below: The earlier T.O.O. (CE-Construction-I) Ms. No. 406 dated 20.12.2010 for **Rs. 1306.00 Lakhs** issued for the above works is herewith cancelled.

**ABSTRACT OF THE ESTIMATE**

<b>SI N O</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE PER UNIT Rs.LAKHS</b>	<b>AMOUNT IN Rs.LAKHS</b>
1	132/33 kV Substation at Water works in Karimnagar Town with 1 x 31.5 + 1 x 16 MVA (Released) PTR Capacity (Radial)	No	1	787.00	787.00
2	132kV DC/SC line from Durshed 220/132 /33 kV SS to the proposed 132/33 kV Water works in Karimnagar Town Substation	KM	6.5	36.00	234.00
3	132 kV SC UG Cable to the proposed 132/33 kV Water works in Karimnagar Town Substation	KM	1.00	LS	675.00
4	132 kV Bay extension at Durshed 220/132 /33 kV SS	No	1	69.00	69.00
5	33 kV line with 100 Sqmm AAAC	KM	28.00	2.50	70.00
6	Communication facility	No	1	19.59	19.59
	<b>Total cost of works</b>				<b>1854.59</b>

**(\*\*) Estimate with 1x16 MVA released Power Transformer Or say 1855.00 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.5 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 financial tie-up is completed. This authorization is issued with the concurrence of Director (Finance & Revenue) vide U.O. No.2930 Dated 01.08.2011. Necessary investment approval shall be obtained from APERC as required.

“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/ 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,  
DE (T) to Director/Projects  
DE (T) to Director/Grid Operation  
DE (T) to Director/Transmission  
DE3 of SE/PM- I O/o CE/Construction-I  
T.O.O Section

**FORWARDED BY ORDER**

**ASSISTANT DIVISIONAL ENGINEER**