

## TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED

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

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**T.O.O (CE-Construction-I) Ms. No. 370**

**Dated: 23.02.2013**

APSPDCL have proposed for erection of 132/33 kV substation at Chakrayapalem in Guntur 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 Chakrayapalem in Guntur 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 TOO No. CE(Construction-I) Ms. No. 19 Dt. 13.04.2011 for construction of 132/33 kV Substation at Chakrayapalem in Guntur district along with 50.00 KM of 132kV DC/SC line from 132/33 kV Bapatla Substation to the proposed 132/33 kV Chakrayapalem Substation at an amount of **Rs. 2708.00 Lakhs**

The Chief Engineer/Zone/Vijayawada has submitted that, It is very difficult for new 132 KV line take off arrangements at Bapatla SS end as there is a severe Right of way problem and requires shifting of 132 KV Parchur -Bapatla – Guntur line and 132 KV traction lines and its associate bays which leads huge expenditure and takes lot of time to complete the work by availing shutdowns. laying of 50 KM 132 KV DC/SC line from Bapatla 132 KV substation will take considerable time as the entire reach covers with paddy fields and working season is only 4 months ( April, May, June & July ) in a year and needs two working seasons to complete the line work even engaging more agencies/gangs i.e., it takes 2 years for completing the 50 KM line .

After careful consideration, APTRANSCO accords revised administrative approval to connect the proposed 132/33 kV Substation at Chakrayapalem as follows at an amount of **Rs. 1725.00 Lakhs**

- 1) Stringing of 2 nd circuit on 132 kV Tenali – Repalle DC/SC line up to tapping point of about 8.00 KM
- 2) Erection of 132 kV DC/SC line from Tapping point of 132 kV Tenali – Repalle line to the proposed 132 kV Chakrayapalem substation about 12.00 KM
- 3) Erection of 132 kV DC line about 4.5KM from 220/132 kV Parchur SS up to LILO point of Parchur – Guntur line

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**ABSTRACT OF THE ESTIMATE**

SI.No.	Description	Unit	Qty	RATE PER UNIT Rs.LAKHS	AMOUNT IN Rs.LAKHS
1	132/33 kV Substation at Chakrayapalem with 2 x 16 MVA (Released) PTR Capacity (Radial)	No	1	633.00	633.00
2(a)	Stringing of 2 nd circuit on 132 kV Tenali – Repalle DC/SC line up to tapping point	KM	8.00	11.00	88.00
2(b)	Erection of 132 kV DC/SC line from Tapping point of 132 kV Tenali – Repalle line to the proposed 132 kV Chakrayapalem substation	KM	12.00	42.00	504.00
2(c)	Erection of 132 kv DC line from 220/132 kV Parchur SS to LILO point of Parchur – Guntur line	KM	4.5	51.00	229.50
3	132 kV Bay extension 1 No. at 132/33 kV Tenali Substation and 2 Nos. at 220/132 kV Parchur SS	No	3	72.00	216.00
4	33 kV line with 100 Sqmm AAAC	KM	14.00	2.50	35.00
5	Communication facility(PLCC)	No	1	19.37	19.37
	<b>Total cost of works</b>				<b>1724.87</b>

**(\*\*) Estimate with 2 x16 MVA released Power Transformers. Or Say Rs.1725.00 Lakhs**

The earlier administrative approval issued vide TOO No. CE(Construction-I) Ms. No. 19 Dt. 13.04.2011 for **Rs. 2708.00 Lakhs** for the above works is herewith cancelled.

The scheme will be executed with financial assistance from M/s.REC New Delhi and with APTRANSCO funding in case of full loan is not sanctioned by M/s.REC New Delhi. The cost of the 33 kV lines at Item No. 4 of the above Abstract of Estimate will be borne by APSPDCL.

The Chief Engineer / Construction-II is hereby authorized to take up the above works. This authorization is issued with the concurrence of Director (Finance & Revenue) vide U.O. No. 702 Dated. 15.02.2013.

“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/APSPDCL.

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 :- With a request to place the TOO in website

The Chief Engineer/ Transmission

The Chief Engineer /Lift Irrigation

The Chief Engineer/ Vijayawada Zone/ Vijayawada

The Chief Engineer/Telecom/VS/Hyderabad

FA & CCA (CF)/Vidyut Soudha/Hyderabad

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

The Superintending Engineer/TL&SS/ Vijayawada

The Superintending Engineer/TLC/ Vijayawada

The Superintending Engineer/Op/APSPDCL/ Guntur

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)

Personal Secretary to the Joint Managing Director / HRD Comml, IPC,& 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

DE3 of SE/PM- II O/o CE/Construction-II

T.O.O Section

**FORWARDED BY ORDER**

**ASSISTANT DIVISIONAL ENGINEER**