



**TRANSMISSION CORPORATION OF TELANGANA LIMITED**  
**VIDYUT SOUDHA :: HYDERABAD – 500 082. Off: PABX:040-23396000**  
**Website:Transco.telangana.gov.in CIN No:U40102TG2014SGC094248**

Augmentation of PTR Capacities at(i) 132/33 KV R.C.Puram SS from 3x50 MVA to 1x80 + 2x50MVA, (ii)132 KV Alwal (Keshampet) SS from 1x31.5+ 1x16 MVA to 2x31.5 MVA, (iii)132 KV Khathalapur SS from 2x16 MVA to 2x31.5 MVA , (iv) 132 KV Mulkanur SS from 1x31.5+ 1x16 MVA to 2x31.5 MVA and (v) Deration of 132KV Korutla SS from 2x50 MVA to 2x31.5 MVA - Administrative Approval -Regarding.

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**T.O.O. (CE-Transmission) Ms. No. 252**

**Dt.17.11.2018.**

**PROCEEDINGS:**

**Read the following:**

In view of implementation of 24 Hrs agricultural supply to farming sector, to meet the upcoming loads and diversion of the existing loads, the Chief Engineer / Transmission has submitted the following Augmentation / Deration proposals in respect of following EHT substations, as per the proposals received from the field:

i) **132 KV R.C. Puram SS:** The Superintending Engineer / OMC / Metro-West has requested vide Lr. Dt:14.06.2018 to arrange for augmentation of PTR capacity at 132 KV R.C Puram sub-station from 3x50 MVA to 1x80+ 2x50 MVA, as much difficulty is being experienced to carry out any preventive maintenance work on PTRs, as the existing PTR Loading is already reached to 82%. Further, added that in case of any fault on PTR, it is becoming very difficult to meet the load. Hence, in order to cater the future loads and to carry out regular maintenance works on existing PTRs, augmentation of PTRs from 3x50 MVA to 1x80+ 2x50 MVA is requested.

ii) **132 KV Alwal (Keshampet) SS:** The 132 KV Alwal (Keshampet) SS has PTR Capacities of 1x31.5+1x16 MVA. Maximum load on 10/16 MVA PTR load was 251A /15.77 MVA on 17.02.2018 @ 8.00 Hrs i.e 98.56 % of PTR Capacity. Further, the Superintending Engineer / OMC / Mahaboobnagar has informed vide Lr. Dt: 25.09.2018 that the additional upcoming Loads viz., a) 10MVA Tomidrekula(V) Agriculture loads and b) 5 MVA Water grid load are expecting. Hence, requested for the augmentation of the PTR capacity at 132 KV Alwal (Keshampet) SS from 1x31.5+ 1x16 MVA to 2x31.5MVA, in order to avoid over load of PTR.

iii) **132 KV Khathalapur SS:** The Chief Engineer / Karimnagar vide Lr. Dt: 04.07.2018, have submitted that the 132 KV Kathalapur substation was contemplated during 2011-12 with 2x16 MVA PTRs, based on the loads existing at that time, as against the T.O.O (CE-Construction-I) Ms. No. 297, Dt: 21.11.2011, with an intension to give load relief on 132/33 KV Korutla Sub-station, as well as to increase voltage profile by reducing the lengths of 33 KV lines. However, the 132/33 KV Kathalapur Sub-station was commissioned during 2017-18 with 2X16 MVA PTRs, In order to cater

the future loads and to avoid diversion of loads, augmentation PTR Capacity from 2x16 MVA to 2x31.5 MVA is requested.

iv) **132 KV Mulkanur SS:** 132 KV Mulkanur SS has the PTR Capacity 1x31.5+1x16 MVA and Maximum load on substation was 38.2 MVA so far. The Chief Engineer / Karimnagar vide Lr. Dt: 04.07.2018 has submitted that 10MVA Agriculture loads are expected on sub-station. Hence, requested to arrange for augmentation of PTR capacity at 132 KV Mulkanur SS from 1x31.5+ 1x16 MVA to 2x31.5 MVA, in order to cater to future loads and to carry out regular maintenance works on existing PTRs.

**2) 132KV Korutla SS:** The 132 KV Korutla SS has PTR Capacity 2x50MVA. Due to the commissioning of the 132 KV Khathalapur SS, certain loads are relieved on the 132 KV Korutla SS. Hence, the Chief Engineer /Power Systems Vide Lr. Dt: 10.08.2018, has recommended the deration of 132KV Korutla SS from 2x50 MVA to 2x31.5 MVA.

**3)** In view of the above and after careful consideration, TSTRANSCO accords approval for the following:

a) Augmentation/ Deration of PTR capacities at following substations, so as to avoid overloading of existing Transformers to avoid load relief / avoid power cuts and to meet the growing load demand:

| Sl. No. | Name of the Substation      | Existing PTR Capacity in MVA | Augmented Capacity in MVA | Amount in Rs. In Lakhs |
|---------|-----------------------------|------------------------------|---------------------------|------------------------|
| 1       | 132/33 KV RC.Puram SS       | 3x50                         | 1x80+2x50                 | 362.56                 |
| 2       | 132 KV Alwal (Keshampet) SS | 1x31.5+ 1x16                 | 2x31.5                    | 91.04                  |
| 3       | 132 KV Khathalapur SS       | 2x16                         | 2x31.5                    | 179.53                 |
| 4       | 132 KV Mulkanoor SS         | 1x31.5+ 1x16                 | 2x31.5                    | 91.16                  |
| 5       | 132KV Korutla SS (Deration) | 2x50                         | 2x31.5                    | 184.52                 |
|         | <b>Total</b>                |                              |                           | <b>908.81</b>          |

b) The Chief Engineer/P & MM /TSTRANSCO shall procure the PTRs and associated equipment required for taking-up the augmentation / Deration works.

c) The FA&CCA (Accounts) shall arrange for funding tie-up with financial Institutions/ Banks for the above works.

d) The Chief Engineer/Metro, the Chief Engineer/ Rural and the Chief Engineer/Karimnagar /TSTRANSCO shall be authorized to execute the works by calling open tenders, as per departmental procedures, duly drawing the centralized equipment / material from TSTRANSCO stores.

e) The scheme shall be taken up during 2018-2019.

4) This order is issued with the concurrence of the Joint Managing Director (Fin., Comml., & HRD) vide Regd. No.4452, Dt:29.10.2018.

**(BY ORDER AND IN THE NAME OF TRANSMISSION CORPORATION OF TELANGANA LIMITED)**

**D.PRABHAKAR RAO**  
**Chairman & Managing Director**  
**TSTRANSCO**

**To**

The Chief Engineer/ Transmission/ TSTRANSCO/VidyutSoudha/Hyderabad.  
The Chief Engineer/P &MM/TSTRANSCO/VidyutSoudha/Hyderabad.  
The FA & CCA (Accounts) /TSTRANSCO/VidyutSoudha, Hyderabad.  
The Chief Engineer/Metro Zone/ TSTRANSCO.  
The Chief Engineer/Rural Zone/ TSTRANSCO.  
The Chief Engineer / Karimnagar Zone/ TSTRANSCO.

**Copy to:**

The Executive Director / Finance /TSTRANSCO/VidyutSoudha/Hyderabad  
The Chief Engineer/Comml., &RAC/TSTRANSCO/VidyutSoudha/ Hyderabad.  
The Chief Engineer/SLDC/TSTRANSCO/VidyutSoudha/ Hyderabad.  
The Chief Engineer/400KV /TSTRANSCO/VidyutSoudha/Hyderabad.  
The Chief Engineer/Construction /TSTRANSCO/VidyutSoudha/Hyderabad.  
The Superintending Engineer/Construction/VidyutSoudha/Hyderabad.  
The Superintending Engineer/Schemes& Designs/Construction/VidyutSoudha/Hyderabad  
The Superintending Engineer/Power Systems/TSTRANSCO/VidyutSoudha/ Hyderabad.  
The Superintending Engineer/P&MM/TSTRANSCO/VidyutSoudha/Hyderabad.  
The Superintending Engineer /OMC/Metro-West/TSTRANSCO.  
The Superintending Engineer /OMC/Mahaboobnagar /TSTRANSCO.  
The Superintending Engineer /OMC/Karimnagar /TSTRANSCO.  
The Superintending Engineer /Civil /TSTRANSCO/VidyutSoudha/Hyderabad.  
The Superintending Engineer/Civil/ Metro /Hyderabad.  
The Superintending Engineer/Civil/ Rural /Hyderabad.  
The Superintending Engineer/Civil/ Karimnagar /Hyderabad.  
The Superintending Engineer/Operation/Central/TSSPDCL  
The Superintending Engineer/Operation/ Mahaboobnagar /TSSPDCL  
The Superintending Engineer/Operation/ Karimnagar /TSNPDCL.  
The SE (Technical) to CMD/TSTRANSCO/VidyutSoudha / Hyderabad.  
The DE(Technical) to CMD /TSNPDCL/Hyderabad.  
The DE(Technical) to CMD /TSSPDCL/Hyderabad.  
The DE(Technical) to Director / Projects TSTRANSCO/VidyutSoudha/ Hyderabad  
The DE(Technical) to Director (Transmission)/TSTRANSCO/ VidyutSoudha/ Hyderabad.  
The ADE/T to Director (LIS)/TSTRANSCO/VidyutSoudha/ Hyderabad.  
The AE (Technical) to Director/ Grid Operation/TSTRANSCO/VidyutSoudha/ Hyderabad.  
PA to JMD(Fin.Comml,& HRD)/TSTRANSCO/ VidyutSoudha/ Hyderabad.

**Current File:CE(Tr.)/SE(Tr.)/DE(SS)/ADE-2/F. 1341/2018/D.No. 926/18, Dt: 17.11. 2018**

**//Forwarded By Order //**

**Sd/-**  
**Divisional Engineer-SS**