



# KARNATAKA POWER TRANSMISSION CORPORATION LIMITED

Corporate Office, 'Kaveri Bhavan' Bangalore-560 009.  
Bangalore : 080-22212343

27 JUL 2015

Sub: - Providing air conditioning system in C&R panel rooms in all SAS compatible 400 KV and 220 KV substations.

## Preamble:

As a part of system improvement, substations are provided with Substation Automation System (SAS) equipments, such as Human Machine Interface (HMI), Energy measurement work station, Disturbance Recorder (DR) work station, GPS, Ethernet, Switches etc., As these equipments are working continuously, will generate heat in the SAS panels. This will increase the room temperature and will affect the functioning of C&R panels and other control equipments housed inside the control room. Hence for efficient and reliable operation of numerical relays, it is essential to provide air conditioning system in all C&R panel rooms of all SAS compatible 400 KV and 220 KV substations. In this regard, proposal received from Transmission Zone, Hassan for providing air conditioning system in some of the 220 KV control rooms was examined and as recommended by technical section the proposal of providing air conditioning system in all C & R panel rooms of SAS compatible substations was approved. Hence this order.

**Corporate Order KPTCL B9/19278/15-16, Bengaluru dated 27/07/2015**

Approval is accorded for providing air conditioning system in all C&R panel rooms of all SAS compatible 400 KV and 220 KV sub stations, with immediate effect. In this regard, approval is accorded for the following course of action.

1. The CEE (P&C) shall provide detailed technical specification for design and installation of suitable capacity of air conditioners in all C&R panel rooms of SAS compatible 400 KV and 220 KV substations. The CEE (P&C) shall decide whether it is split air conditioner or Centralised air conditioner in respect of ongoing & existing substations. In respect of new substations, the CEE (P&C) shall specify this aspect in the specifications.

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DCA (IT)	<input type="checkbox"/>
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2. The CEE (T&P) shall take needful action to include air conditioning system in C&R panel rooms of all SAS compatible 400 KV and 220 KV substations, for which tenders are to be invited.
3. The concerned zonal CEE's shall take action to provide air conditioning system in C&R panel rooms of all ongoing 400 KV and 220 KV substations which are SAS compatible, by duly calling tenders as per specification obtained from CEE (P&C).
4. In respect of all existing 400 KV and 220 KV substations which are SAS compatible, the concerned zonal CEE's shall submit suitable proposal for providing air conditioners to C&R panel rooms for approval and budget allocation. Tenders shall be called by Zonal CEE's after obtaining budget allocation.

By order

*Sindha* 27/7/15  
Deputy General Manager (Tech)  
KPTCL, Bengaluru.

**Copy to:**

1. The Chief Engineer (Ele), (P&C) KPTCL, Kaveri Bhavan, Bengaluru.
2. The Chief Engineer (Ele), (T&P) KPTCL, Kaveri Bhavan, Bengaluru.
3. The Chief Engineer (Ele), (RT and R&D), KPTCL, Kaveri Bhavan, Bengaluru.
4. The Chief Engineer (Ele), SLDC, KPTCL, Bengaluru.
5. All Chief Engineers (Ele), Transmission Zone, KPTCL.
6. All Superintending Engineers, Transmission Circles, KPTCL.
7. The Superintending Engineer (Civil), KPTCL, Kaveri Bhavan, Bengaluru.
8. The Superintending Engineer (Ele), (IT & MIS), with a request to publish in KPTCL website.
9. All Executive Engineers (Ele), MW/ TL & SS Divisions, KPTCL.
10. All Executive Engineers (Civil), Transmission Zones, KPTCL.