



KARNATAKA POWER TRANSMISSION CORPORATION LIMITED
CIN No. U40109KA1999SGC025521

Corporate Office
Kaveri Bhavan, K.G Road,
Bengaluru-560 009

Date: 28.07.2021

28 JUL 2021

KPTCL/B19/345/85-86

CIRCULAR

Sub: Maintenance of Sub-stations and Transmission Lines - reg.

- Ref:**
1. Handbook of Maintenance Schedule for Sub-stations and Transmission Lines issued vide Circular dated 22.11.2005.
 2. Corporate Circular No. B19/345/85-86 dated 16.07.2010 - Maintenance of Sub-stations / Lines.
 3. Letter No. CEE(P&C)/PS/KCO.100/2011-12/37333 dated 22.03.2012 of CEE (P&C), KPTCL - Maintenance of Capacitor Banks.
 4. Letter No. CEE(P&C)/SEE(Plg)/EE(Plg-S)/KCO-93/64124/TZ/16-17/1405-08 dated 26.04.2016 of CEE (P&C), KPTCL - Maintenance of Capacitor Banks.
 5. Corporate Circular No. B19/345/85-86 dated 09.03.2021 - Safety practices in Sub-stations.
 6. Corporate Circular No. KPTCL/B9/14644/20-21 dated 28.07.2021 - Repair and maintenance works to KPTCL buildings and other civil works.
 7. Corporate Order No. B28(a)/39946/2013-14 dated 25.07.2013.
 8. Corporate Order No. B14/6014/2002-03 dated 27.12.2018.

The mission of KPTCL is to ensure reliable quality power which can be achieved by ensuring high order Maintenance of Sub-station equipment and Transmission Lines. Proper maintenance of Sub-station equipment and Transmission Lines help reduce outages and increase the stability and reliability of power system. As such systematic and regular maintenance works is a pre-requisite for a healthy power system.

In this regard, in order to carryout periodical maintenance works on Sub-station equipment and Transmission Lines, a "Hand Book of Maintenance Schedules for Sub-stations and Transmission Lines" was issued vide Circular under ref (1).

Further, another Circular was issued as cited under ref (2) for maintenance of Sub-stations and Transmission Lines in optimum condition in order to maintain uninterrupted power supply. Several instructions have also been issued vide letters cited under ref (3) & (4) in respect of maintaining

EECIT-12
B.S. 29/7/21
AEE2
ML
29/7/21

Capacitor Banks in 100% operational condition besides maintaining good voltage profile. Instructions to adhere to proper safety measures while carrying out the works in Sub-stations and on Transmission Lines has also been issued vide letter under ref (5).

In spite of all these instructions/guidelines, it is regretted that off late failure of major equipment are reported causing financial loss to the Corporation. It is to be noted that, all Officers working in Transmission Lines and Sub-station maintenance are responsible for the upkeep of all equipment and Transmission elements in healthy condition duly taking up timely maintenance activities and corrective measures to prevent any breakdown.

In the light of the above Circulars already been issued, it is hereby once again instructed to strictly adhere to the maintenance schedule as per the Hand Book issued in respect of maintenance of Sub-stations and Transmission Lines.

It is further observed that, all maintenance activities needs to be properly recorded in the register, reported and monitored for taking necessary timely corrective measures at all levels. Accordingly, the following guidelines shall be in place to achieve effective maintenance of Sub-stations & Transmission Lines along with systematic reporting and monitoring:

- The Chief Engineer, Ele., Transmission Zone shall co-ordinate with the State Load Dispatch Centre / KPTCL Sub-stations / Distribution Companies in respect of availing Line Clear required for periodical maintenance of Sub-stations & Transmission Lines.
- The Chief Engineer, Ele., Transmission Zone shall ensure that maintenance of Sub-station equipment & Transmission Lines are being carried out effectively as per the schedule mentioned in the Circulars under reference and review the same periodically.
- The Chief Engineer, Ele., (RT & R&D) shall ensure that condition monitoring of Sub-station equipment are carried out periodically.
- The Superintending Engineer (O) in each Transmission Zone shall prepare the calendar of maintenance schedule for every quarter in the previous quarter itself covering all the Sub-stations in the Zone duly consulting the Superintending Engineer, Ele., W&M / Maintenance / RT & Executive Engineers of all TL&SS/RT Division. A copy of the calendar of maintenance schedule shall be submitted to the General Manager (Technical), Corporate Office.

- The Executive Engineer, Ele., of TL&SS Divisions shall be responsible for implementation of maintenance activities as per schedule along with furnishing report to the Zonal office.
- The Executive Engineer, Civil shall ensure repair and maintenance works to KPTCL buildings and other civil works are carried out as per the Circular under ref (6).
- The Assistant Executive Engineer (Maintenance) and the Assistant Executive Engineer (Nodal Officer) shall be responsible for arranging men and material along with tools & plants for taking up periodical scheduled maintenance activities in time.
- The Assistant Engineer (Maintenance) / Assistant Executive Engineer (Maintenance) shall maintain all registers along with necessary drawings pertaining to various equipment and civil structures in respective Sub-station for ready reference.
- The Chief Engineer, Ele., TA&QC / Nodal Officers being the Electrical Safety Officer (as per Corporate Order under ref (7) & (8)) shall inspect the Sub-station equipment periodically and shall ensure that safety aspects are complied while carrying out maintenance works at Sub-stations & Transmission Lines.
- The Superintending Engineer, IT at Corporate Office shall prepare a software within 30 days from the date of issue of this Circular duly including all formats required for reporting the maintenance activities taken up at each Sub-station. These reports shall be endorsed with due remarks if any by higher Officers before it is submitted to the Director (Transmission), KPTCL.
- The Chief Engineers at Corporate Office shall mandatorily visit and monitor maintenance activities of Sub-stations & Transmission Lines on random basis and furnish detailed quarterly report to the Director (Transmission), KPTCL. Following is the Zone wise allocation for the Chief Engineers, Ele., at Corporate Office:

Sl. No.	Designation	Transmission Zone
1	General Manager (Technical), KPTCL	Mysuru
2	Chief Engineer, Ele., TA&QC, KPTCL	Hassan
3	Chief Engineer, Ele., P&C, KPTCL	Tumakuru
4	Chief Engineer, Ele., T&P, KPTCL	Bagalkot
5	Chief Engineer, Ele., RT & R&D, KPTCL	Kalaburagi

- The Director (Transmission), KPTCL shall monitor the maintenance activities of Sub-stations & Transmission Lines in Bengaluru Transmission Zone.
- The Director (Transmission), KPTCL shall conduct quarterly meeting with the Chief Engineers of all Transmission Zones along with CEE (RT & R&D) to review the maintenance activities completed in the previous quarter and direct any necessary corrective measures to be initiated.
- The Superintending Engineer, Ele., Project Monitoring at Corporate Office shall be the Nodal Officer for ensuring the implementation of this Circular including collecting reports of maintenance, conducting quarterly meeting at Corporate Office and addressing all other administrative issues required for maintenance activities at Corporate Office.

This Circular shall come into immediate effect and shall be followed scrupulously.

Approved by
Managing Director

B.R. W. 28/07/21
General Manager (Tech)
KPTCL

To:

1. All Chief Engineers/Financial Advisors, KPTCL.
2. All Superintending Engineers/Controllers, KPTCL.
3. All Executive Engineers/DCAs, KPTCL.
4. The Company Secretary, KPTCL, Kaveri Bhavan, Bengaluru.
5. SPS to Managing Director / Director (Transmission) / Director (Finance), KPTCL to place it before the Directors for kind information.

Copy to:

The Superintending Engineer (El) (IT), KPTCL with a request to arrange to upload the Circular in KPTCL website.