



## KERALA STATE ELECTRICITY BOARD LIMITED

(Incorporated Under the Companies Act, 1956 (No.1/1956)

Corporate Identity No.U40100KL2011SGCO27424

Vydyuthi Bhavanam, Pattom, Thiruvananthapuram- 695004, India,

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### Abstract

Change in specification of poles and line materials - Sanctioned – Orders issued.

#### **Corporate Office (Supply Chain Management)**

B.O.[FTD] No.710/2019 (PC/SCM/2019-20/PSC Poles – Design/4014) Dated, Thiruvananthapuram 23/09/2019

- Read:-
- 1) Note No. CSC/Safety/PSC poles/2017-18/145 dated 20/03/2018 of the Chief Safety Commissioner, KSEB Limited.
  - 2) Note No.D(D&IT)/D6-AE3/DCC-MoM14/2019 of the Director (Distribution & IT), KSEB Limited.
  - 3) Note No. PC/SCM/2019-20/PSC Poles – Design/4014 dated 27/08/2019 of the Chief Engineer (SCM) submitted to the Full Time Directors (Agenda Item No.3/9/19).

### ORDER

The Chief Safety Commissioner as per note read as 1<sup>st</sup> paper above, has reported that while analyzing the causes of electrical accidents , during the last two years, it was noted that accidents due to breakage of poles is increasing alarmingly and has recommended the following measures to reduce the recurrence of such accidents.

- 1) To revise the specification of PSC poles by including embedded GI wire as earthing wire.
- 2) To use lattice type A poles, rail poles or tubular steel poles at cut points, angle points and as end poles in HT and LT electric lines.
- 3) To entrust the officials of civil wing under every Electrical circle, to ensure the quality of PSC poles during every stage of its manufacturing.

The Director (Distribution & IT), as per note as 2<sup>nd</sup> paper above has informed the abstract of the comments of the Distribution Core Committee meeting held on 09/04/2019 as follows:

- 1) Revised design for 8m PSC Poles - Considering the use of Rabbit conductors for drawing LT lines, and that the number of conductors drawn for LT lines is usually more than that of single circuit 11 kV lines, a revised design is required for 8m Poles.
- 2) Use of 7/3.15 mm Stay Wire for both 11 kV lines and LT lines - The Committee opined that the use of 7/3.15mm stay wire for both 11 kV and LT lines is advisable, considering the conductor strain at broken wire conditions.
- 3) Usage of 2 line and 4 line channel cross arms instead of angle cross arms. The Committee is of the opinion that it is a good suggestion and is to be implemented after assessing the cost impact.

Company Secretary

It was also reported by the field officers that due to heavy wind and rain and falling of trees, huge no. of poles were broken, mainly LT PSC Poles

In this connection, the Chief Engineer (SCM) as per note read as 3<sup>rd</sup> paper above has submitted proposal to adopt the suggestion put forward by the Director (Distribution & IT) and Safety Commissioner.

The matter was placed before Full Time Directors by the Chief Engineer (SCM), as per note read as 3<sup>rd</sup> paper above.

Having considered the matter in detail, the Full Time Directors in its meeting held on 03/09/2019 vide Agenda Item No.3/9/19, resolved to accord sanction for the following.

- 1) To invite next tender for supply of 8m PSC Poles with working load of 200kg, as per REC Specifications 15/1979 and as per drawing attached as Annexure.
- 2) To adopt the following proposals forwarded by the Director (Distribution & IT) in future tenders.
  - i) Use of 7/3.15 mm Stay Wire for both 11 kV lines and LT lines.
  - ii) Usage of 2 line and 4 line channel cross arms instead of angle cross arms.
  - iii) Reintroduction of earthing wire in 9 meter PSC Poles.
- 3) To reintroduce the departmental supervision by Assistant Engineer (Civil)/ Sub Engineer (Civil) for ensuring the quality of PSC Poles and the same included in the tender conditions.

Orders are issued accordingly.

**BY ORDER OF THE FULL TIME DIRECTORS**

Acc:- Annexure - Drawing

Sd/-

Lekha.G

Company Secretary in charge

To

The Chief Engineer (SCM)

Copy to:-

- ◆ The Legal Advisor & Disciplinary Enquiry Officer.
- ◆ The Deputy Chief Engineer (IT), KSEB Limited.
- ◆ TA to Chairman & Managing Director/ Director (Distribution, IT & HRM)/ Director (G-E & SCM)/ Director (Transmission, System Operation & Safety)/ Director (Generation-Civil)
- ◆ PA to Director (Finance)/Senior C.A. to Secretary(Administration)
- ◆ The Fair Copy Superintendent, Board Secretariat
- ◆ The Library, KSEB Limited/Stock file.

Forwarded/ By Order



Assistant Executive Engineer