

KARNATAKA POWER TRANSMISSION CORPORATION LIMITED

SECTION – INSULATOR & FITTINGS

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1.0 SCOPE

This specification covers post insulators and insulators and fittings for overhead power lines suitable for nominal system voltages greater than 1000 V and frequency not greater than 100 Hz.

2.0 CODES AND STANDARDS

2.1 The design, material selection, constructional features and testing of insulators and fittings shall comply with all currently applicable statutes, regulations and safety codes in the locality where these are proposed to be used.

2.2 Insulators and fittings shall conform to the latest editions of standards specified in enclosed Data Sheet - A2. In case of withdrawal/revision of any of the stipulated standards by issuing authorities prior to commencement of fabrication, mutual agreement with Purchaser shall be reached for compliance with applicable standard.

3.0 TESTING

Insulators and fittings shall be subjected to routine, acceptance and type tests as mentioned in Section GTR. Instruments to be used during testing shall be within valid calibration periods.

4.0 MARKING AND PACKING

Marking on insulators and fittings and packing of fittings shall be as per guidelines covered in applicable standards.

DATA SHEET – A2

APPLICABLE STANDARDS		
Porcelain post insulators		IS □ 9431 IS □ 2544 BS □ 3297 IEC □ 60273
Insulators for overhead power lines		IS □ 3188 IS □ 731 BS □ EN 60383-1 BS □ EN 60383-2 BS □ EN 60305 BS □ EN 60433 IEC □ 60305 IEC □ 60433
Fittings for overhead power lines		IS □ 2486 BS □ 3288 IEC □ 60471 IEC □ 60120
Dimensions of indoor and outdoor porcelain post insulators and post insulator units Tests		IS □ 5350 IS □ 8704 IS □ 8263 IEC □ 60383-1 IEC □ 60383-2
Unless otherwise stipulated, insulators and insulator fittings shall conform to relevant Indian Standards		