

Annexure-6

Project : 400/220 kV SWITCHYARD : 1 × 600 MW Rayalseema TPP Stage-IV

Customer : APGENCO

Consultant: Desein Pvt Ltd

FIRE PROOF SEALING & FIRE BREAKS

1. FIRE –PROOF SEALING OF CABLE PENETRATION

Cables / cable tray opening in walls or through pipe sleeves from one area to another or one elevation to another shall be sealed by a fire-proof sealing system. The fireproof sealing system (FPSS) shall effectively prevent the spread of fire from the flaming to the non-flaming side, in the event of a fire. The FPSS shall conform to the following requirements:-

- 1.1. FPSS shall have a fire rating of two hours.
- 1.2. The FPSS will also conform to the incombustibility test carried out in accordance with IS: 3144-1992.
- 1.3. Under fire condition, the FPSS material shall not emit excessive smoke or any corrosive or toxic fumes.

2. FIRE BREAK

Firebreak shall be provided by applying a suitable fire-resistant coating of at least 500 mm on cables to meet the fire rating of thirty minutes.

Firebreak shall be provided at an interval of 15 meters in the straight portion of each of the cable tray above ground, at intervals of 30 meters in cable trenches and at 5M for all vertical tray. All cable inter section and tee offs shall be provided with firebreaks.