

**TRANSMISSION BUSINESS GROUP
(Subcontracts Management)**

Doc. No. TBSM/Std-Spec/Cov-Str/01

Rev. 01

SPECIFICATION FOR COVERED STORE FOR SWITCHYARD

1. The covered store shall be constructed of adequately designed steel columns and tubular trusses (span 10m) placed at an interval of 5.00m centre to centre with suitable purlins and runners provided to support the roofing & cladding. The length of the store shall be 20.00/15.00/10.00m. depending on the requirement as indicated in the BOQ.
2. The roofing and side cladding shall be of GS corrugated sheets (0.8mm thick) fixed to purlins & runners with suitable polymer/GI coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. Limpet washers or with G.I limpet washers filed with white lead and including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to a pitch of 60 degrees).. The roof shall be made with proper arrangements to prevent water leakage.
3. The bottom of the truss shall be 4.50m. above FFL (Finished floor level).
4. The steel columns shall be supported on adequately designed concrete pedestals & footings. The following minimum requirements shall be ensured..
 - Depth of footing below existing ground level = 1.00m
 - Size of footing = 1.50m X 1.50m
 - Depth of footing = 0.30m
 - Reinforcement in footing = 12dia @ 150 c/c bothways, top & bottom.
 - Size of pedestal = 0.50m X 0.50m
 - Reinforcement in pedestal – Longitudinal = 8 Nos 16dia
 - Ties = 8dia @ 200c/c
5. 230mm thick brick walls in cement mortar 1:6 shall be provided all along the periphery and shall be 1.50m above the FFL. This shall rest on suitable brick masonry foundation which shall extend to minimum 500mm below the FFL. 12/15mm plaster in cement mortar 1:6 shall be provided on the walls which shall be finally painted with 3 coats of colourwash.
6. The floor of the store shall be made with 100mm thick PCC 1:4:8 neatly finished and laid over 150mm thick boulder soling with interstices filled with suitable material. The area below this upto the natural ground level shall be filled with well compacted earth.
7. The store shall be provided with a 4.00m wide X 4.50m high lockable & painted rolling shutter with all accessories, as required. In addition, painted steel ventilators of size 1.20m wide X 0.50m high shall be provided between each span and along both longitudinal

directions and at a height of 4 Mts above FFL. In front of the rolling shutter, suitable ramp shall be provided for material entry.

8. Adequate no. of fire extinguishers (min. 4 nos. CO₂ and 2 nos. foam type) and sand & water buckets shall be provided in the store area.
9. Adequate illumination arrangements shall be made inside the store - comprising of min. of 4 tube light fittings and a 15Amp. power socket and suitable switchboard at the entrance to the stores. The switch board shall also serve as the controlling point for illumination of open store yard. Providing of incomer cable and giving supply to the switchboard is NOT in the scope of store construction.
10. All materials shall conform to IS and shall be procured from approved sources & reputed manufacturer(s). The execution of work shall be as per latest CPWD/IS specifications & directions of Engineer-in-Charge.