

[EQ. TO SOR 2025-2026 CAT-III]

2. TECHNICAL SPECIFICATIONS
FOR
INSTALLATION OF LIGHTING DB's

TECHNICAL SPECIFICATIONS FOR INSTALLATION OF LIGHTING DBs

1.0 SCOPE

- 1.1 This section relates to specifications for installation, connection, testing and commissioning of lighting distribution board (LDB) using TPN/FP/DP/SP MCB isolator & ELMCB, Earthing terminal, connector strip for phase neutral and earth for each circuit, CRCA sheet steel housing and complete the item installation. Common banking of neutral and earth conductor is not allowed.

2.0 CODES & STANDARDS

- 2.1 Refer Supply specs

3.0 MATERIALS REQUIRED

- 3.1 Refer Supply specs

4.0 INSTALLATION OF SYSTEM

- 4.1 The DB's shall be assembled and aligned together and be installed at site as per installation manual/instruction of the DB manufacturer.
- 4.2 The DB shall be installed in surface manner at the various location.
- 4.3 All minor electrical and mechanical work required to be attended to on the DB shall be completed in an approved manner after installation but before energizing the DB's.
- 4.4 The M.S. angle/channel iron frame used for installation of D.B. shall be hot dip galvanized (816 g/m²).
- 4.5 The DB shall be mounted on angle/channel frame with Anchor fastening only. Civil grouting is not acceptable.

5.0 EARTHING INSTALLATION

- 5.1 Refer Earthing Specs

6.0 INSPECTION & TESTING

- 6.1 Prior to commissioning of the DB's following tests shall be carried out.
 - 6.1.1 Mechanical endurance test shall be carried out by closing and opening of all the MCB's, switches etc.
 - 6.1.2 Insulation resistance test shall be carried out between phases and between phase to earth bus, keeping the isolating switch in open position. Similar test shall be carried out keeping the isolating switch in closed position.

All the interlocks, controls and tripping mechanism of the switch gears shall be tested for their proper functioning.