

EARTHMAT FOR THE PROPOSED 60.1 KV SUB-STATION @ KUNJENAHALLI S/S

IMPORTANT THE NO OF CAST IRON PIPE ELECTRODES SHALL BE PROVIDED AS PER GUIDELINES

NOT TO SCALE BEFORE EXECUTION PLEASE CAREFULLY GO THROUGH THE ENCLOSED GUIDELINES

SALIENT DESIGN FEATURES

AREA COVERED BY EARTHMAT IN SQ MTR 8159

DEPTH OF BURIAL OF EARTHMAT IN MTR 0.9

SPACING BETWEEN MAT CONDUCTOR (M.S. PLAT) IN MTR 2.5

SIZE OF EARTHMAT CONDUCTOR (M.S. PLAT) IN MM 75 X 12 MM

SPREADING OF GRANITE METAL JELLY OF SIZE 20/25 MM TO A HEIGHT OF 100 MM OVER THE ENTIRE EARTH MAT AREA.

BILL OF MATERIALS (APPROXIMATE QUANTITY) FOR EARTHMAT FORMATION & FENCING

(AS PER THE LAYOUT DRAWING NO. PFC/STC/SS-100/150/A, DATED 03.02.2020)

1. Excavation, formation, setting
2. Material for formation of earthmat, as per specification
- a) M.S. Plait 75 X 12 MM
- b) MS Round rods 40 mm dia, 1.075 mt. long
- c) G.I. Flats 75X 12 MM for earth connection
- d) Cast iron pipe electrodes of 100 mm Id 13 mm thick, 2.75 mt. long
- e) Spreading of Granite metal jelly of size 20/25 mm size to a height of 100 mm

NOTE:

1. THE PROPOSED EARTHMAT IS DESIGNED CONSIDERING BREAKER SHORT T/C CURRENT RATING OF 40 KA.
2. THE PROPOSED EARTH MAT SHALL BE EXECUTED DULY OBSERVING THE R&D GUIDELINES.

