

EARTHMAT FOR THE PROPOSED 66/11 KV SUB STATION @ PADUVALAHIPPE IN HASSAN DISTRICT

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

* BEFORE EXECUTION PLEASE CAREFULLY GO THROUGH THE ENCLOSED GUIDELINES

* NOT TO SCALE

* ALL DIMENSIONS ARE IN METER

SALIENT DESIGN FEATURES

AREA COVERED BY EARTHMAT IN SQ MTR

7431

DEPTH OF BURIAL OF EARTHMAT IN MTR

0.9

SPACING BETWEEN MAT CONDUCTOR (M.S. FLAT) IN MTR

4

SIZE OF EARTHMAT CONDUCTOR (M.S. FLAT) IN MM

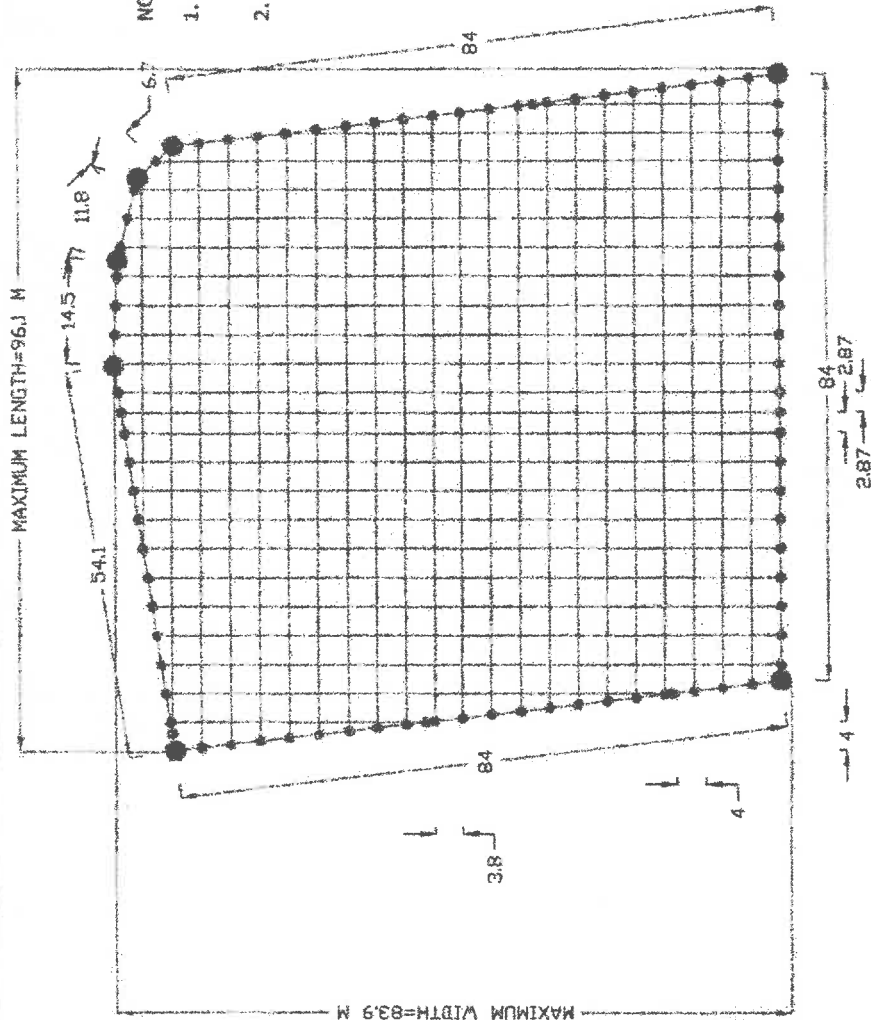
75 X 12 MM

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. KPTCL/TECH/SS-66/1191-A1. DATE:03.02.2026)

		1920	Cmtr
1. Excavation, formation, refilling			
2. Material for formation of earthmat as per specification			
a) M.S. Flat 75 X 12 MM		4085	Mtr.
b) MS Round rods 40 mm dia, 1.075 Mtr. long		88	No.
c) G.I. Flats 75 X 12 MM for earth connection		1669	Mtr.
d) Cast iron pipe electrodes of 100 mm Id, 13 mm thick, 2.75 mtr. long		44	No.
e) Spreading of Granite metal jelly of size 20/25 mm size to a height of 100 mm		743	Cmtr.



NOTE:

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

COMPOUND WALL WITH A MINIMUM HEIGHT OF 7 FEET FROM FGL

40 MM DIA M.S. ROUND RODS OF LENGTH 1.075 METER TO BE DRIVEN AS SHOWN

MINIMUM 5.5 MTRS SPACING SHALL BE MAINTAINED B/W ANY TWO C.I. PIPE ELECTRODES

R & D CENTRE, K P T C L

DRG NO. SEE/R&D/EEE/KCO-128/F-140(19)2025-26. Dtd. 19-2-2026

Signature: [Signature] Date: [Date]