

# ADDITIONAL EARTHMAT FOR THE EXISTING 220/110/11 KV STATION @ INDI, VIJAYAPURA DISTRICT.

## IMPORTANT

\* THE NO OF CAST IRON PIPE ELECTRODES SHALL BE PROVIDED AS PER GUIDELINES (ITEM 2, 4, 5 & 12 OF GUIDELINES)

\* NOT TO SCALE

\* BEFORE EXECUTION PLEASE CAREFULLY GO THROUGH THE ENCLOSED GUIDELINES \*

\* ALL DIMENSIONS ARE IN METER

### SALIENT DESIGN FEATURES

TOTAL AREA COVERED BY EARTHMAT (EXISTING + ADDL.) IN SQ MTR	30795
AREA COVERED BY ADDL. EARTHMAT IN SQ MTR	2520
DEPTH OF BURIAL OF EARTHMAT IN MTR	0.9
SPACING BETWEEN MAT CONDUCTOR (M.S. FLAT) IN MTR	10
SIZE OF EARTHMAT CONDUCTOR (M.S.FLAT) IN MM	50 X 6 MM

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

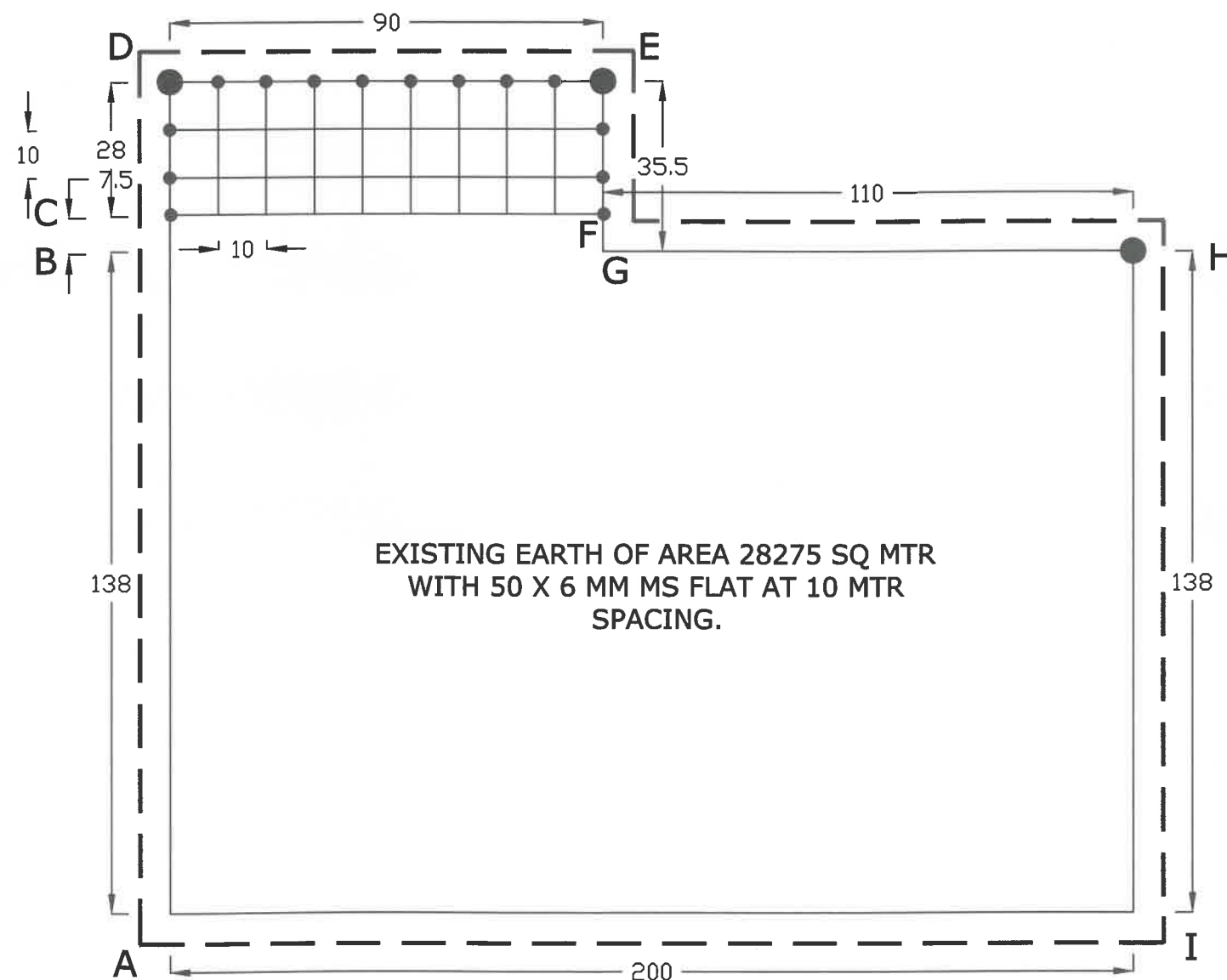
### BILL OF MATERIALS (APPROXIMATE QUANTITY) FOR EARTHMAT FORMATION & FENCING.

( AS PER THE LAYOUT DRAWING NO.KPTCL/TECH/SS-220/IND-4-R2 DTD: 14.09.2022 )

1.Excavation,formation,refilling	313	Cmtr.
2.Material for formation of earthmat as per specification		
a)M.S.Flat 50 X 6 MM	703	Mtr.
b)MS Round rods 25 mm dia,1.05 Mt. long	12	No.
c)G.I.Flats 50 X 6 MM for earth connection	1185	Mtr.
d)Cast iron pipe electrodes of 100 mm Id,13 mm thick,2.75 mtr.long	16	No.
e)Spreading of Granite metal jelly of size 20/25 mm size to a height of 100 mm	252	Cmtr.

### NOTE:

- 'ABCFGHIA' INDICATES EXISTING EARTH MAT OF AREA 28275 SQ MTR WITH 50 X 6 MM MS FLAT AT 10 MTR SPACING.
- 'CDEFC' INDICATES PROPOSED ADDITIONAL EARTH MAT OF AREA 2520 SQ MTR WITH 50 X 6 MM MS FLAT AT 10 MTR SPACING.
- THE FENCE SHALL BE SHIFTED BY 1.5 MTR FROM THE PERIPHERY OF THE PROPOSED ADDITIONAL EARTH MAT.
- PROPOSED EARTH MAT SHALL BE EXECUTED DULY OBSERVING THE R&D GUIDELINES.



- — FENCE SHALL BE AT A MINIMUM DISTANCE OF 1.5 METERS AWAY FROM THE PERIPHERY OF THE STATION EARTHMAT
- 25 MM DIA M.S. ROUND RODS OF LENGTH ONE METER TO BE DRIVEN AS SHOWN
- ADDITIONAL C.I.PIPE ELECTRODES PROPOSED (MIN 5.5 MTR SPACING SHALL BE MAINTAINED BETWEEN ANY TWO ELECTRODES)

R & D CENTRE, K P T C L

DRG NO. SEE/R&D/EEE/KCO-116/F-76(01) Dtd.25-10-2022

27/10/22  
AEEE

27/10/22  
EEE

27/10/22  
SEE