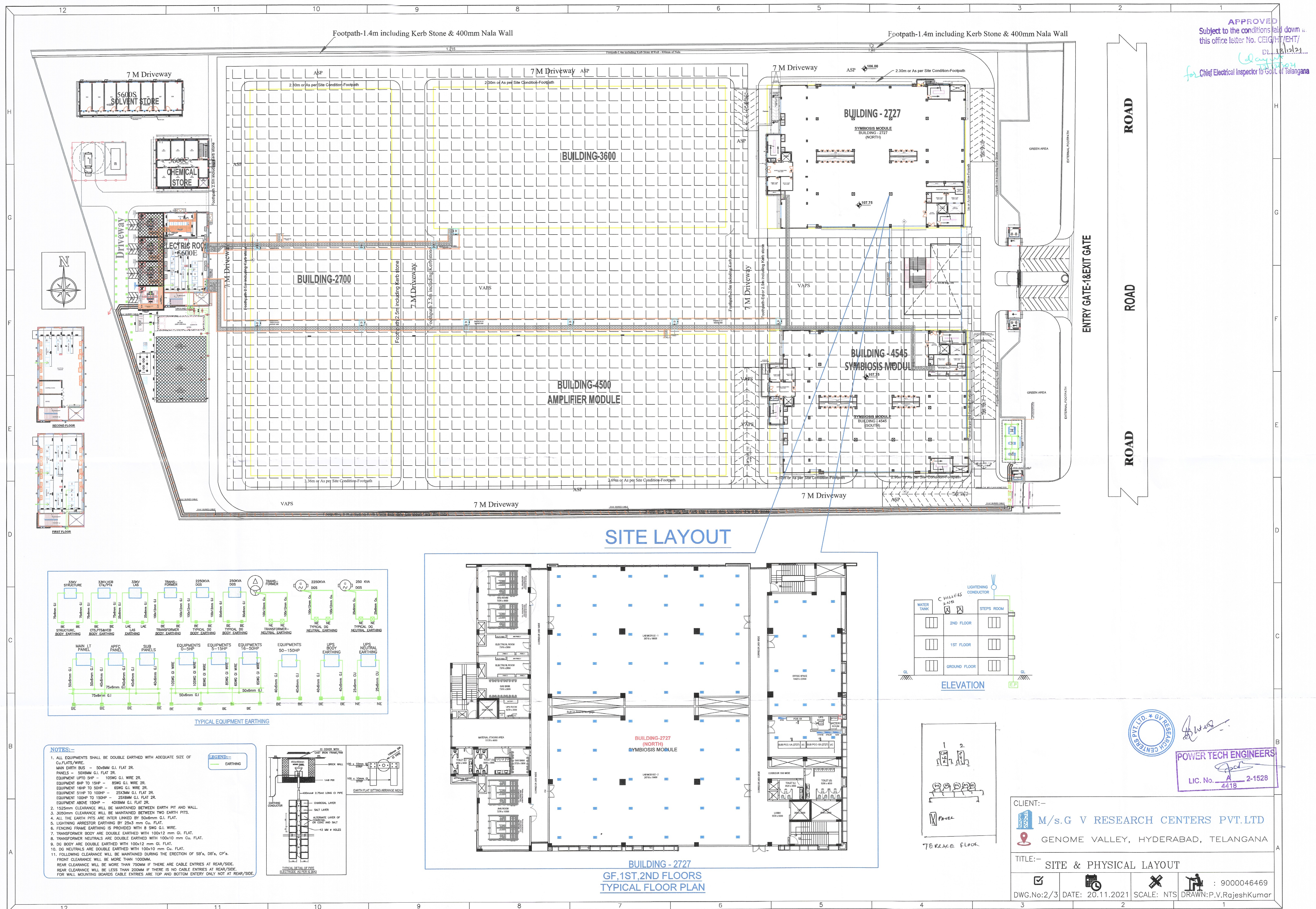
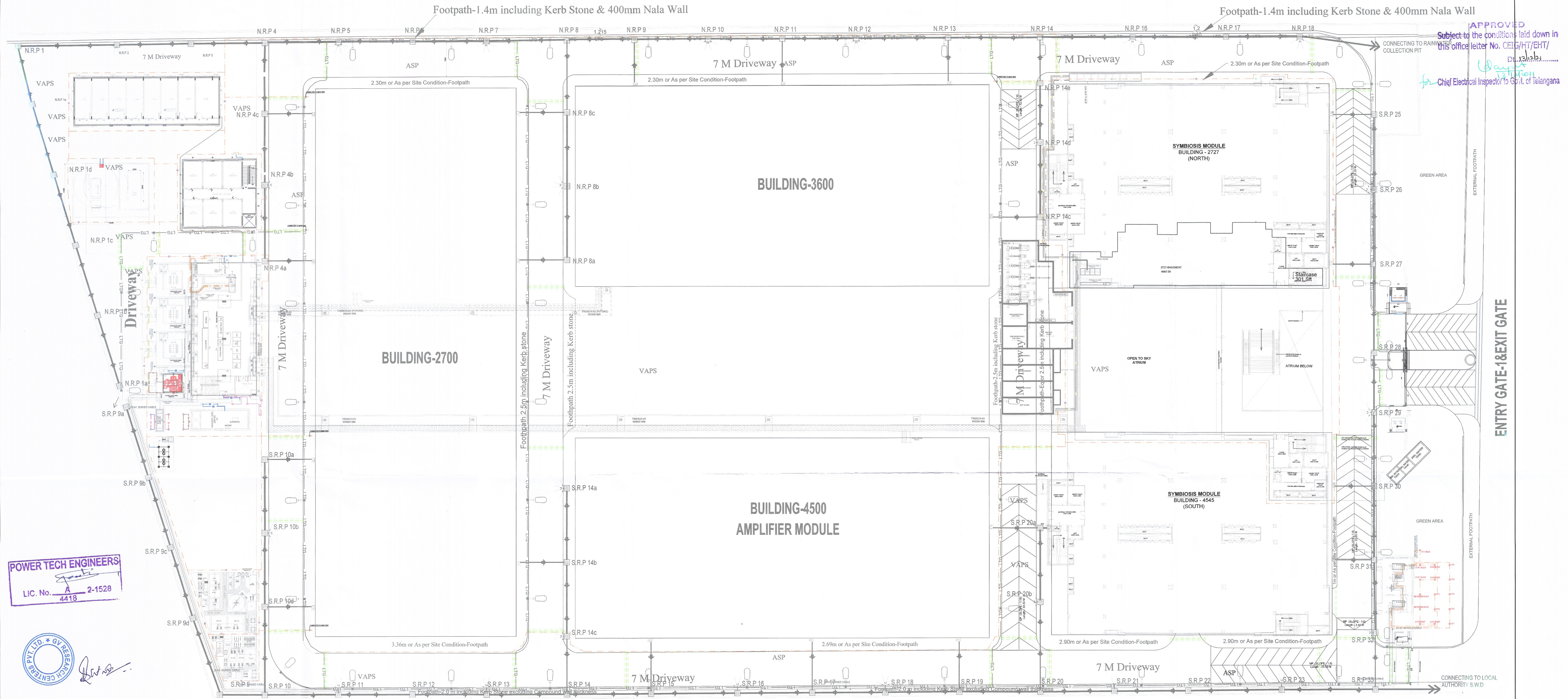
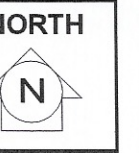
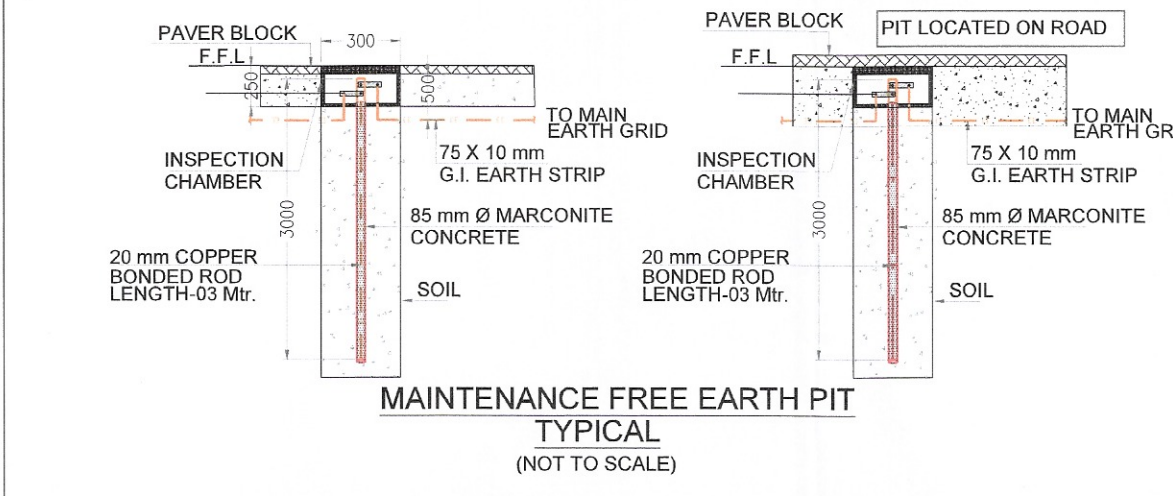
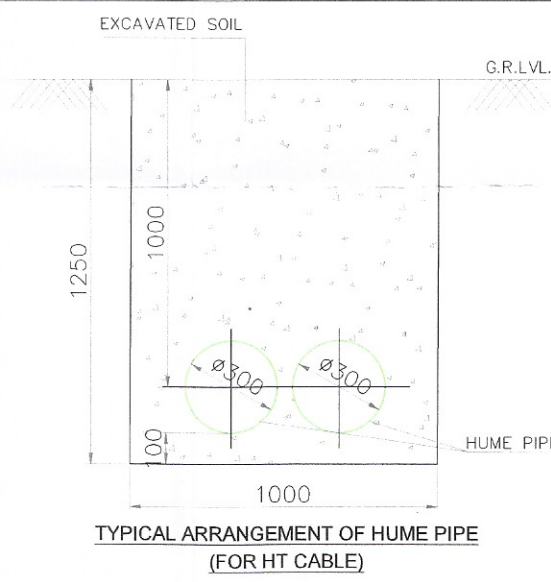
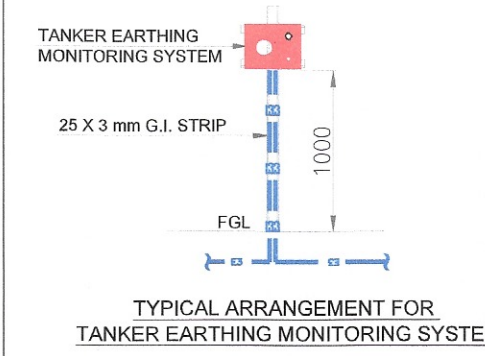
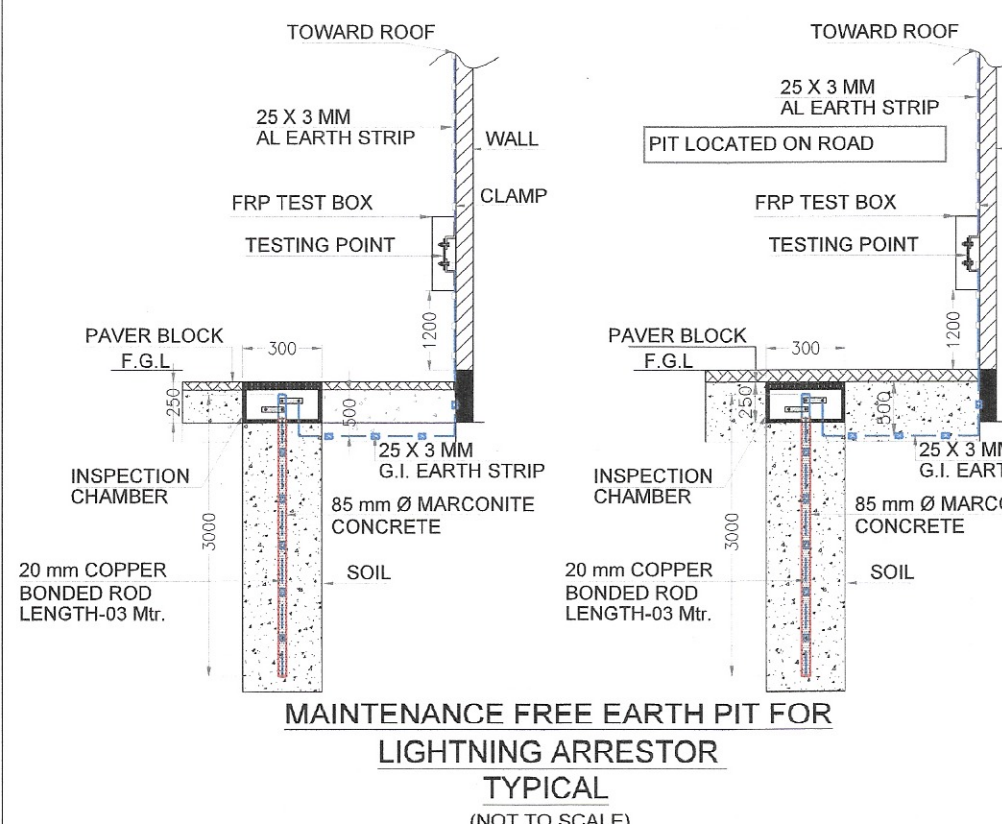
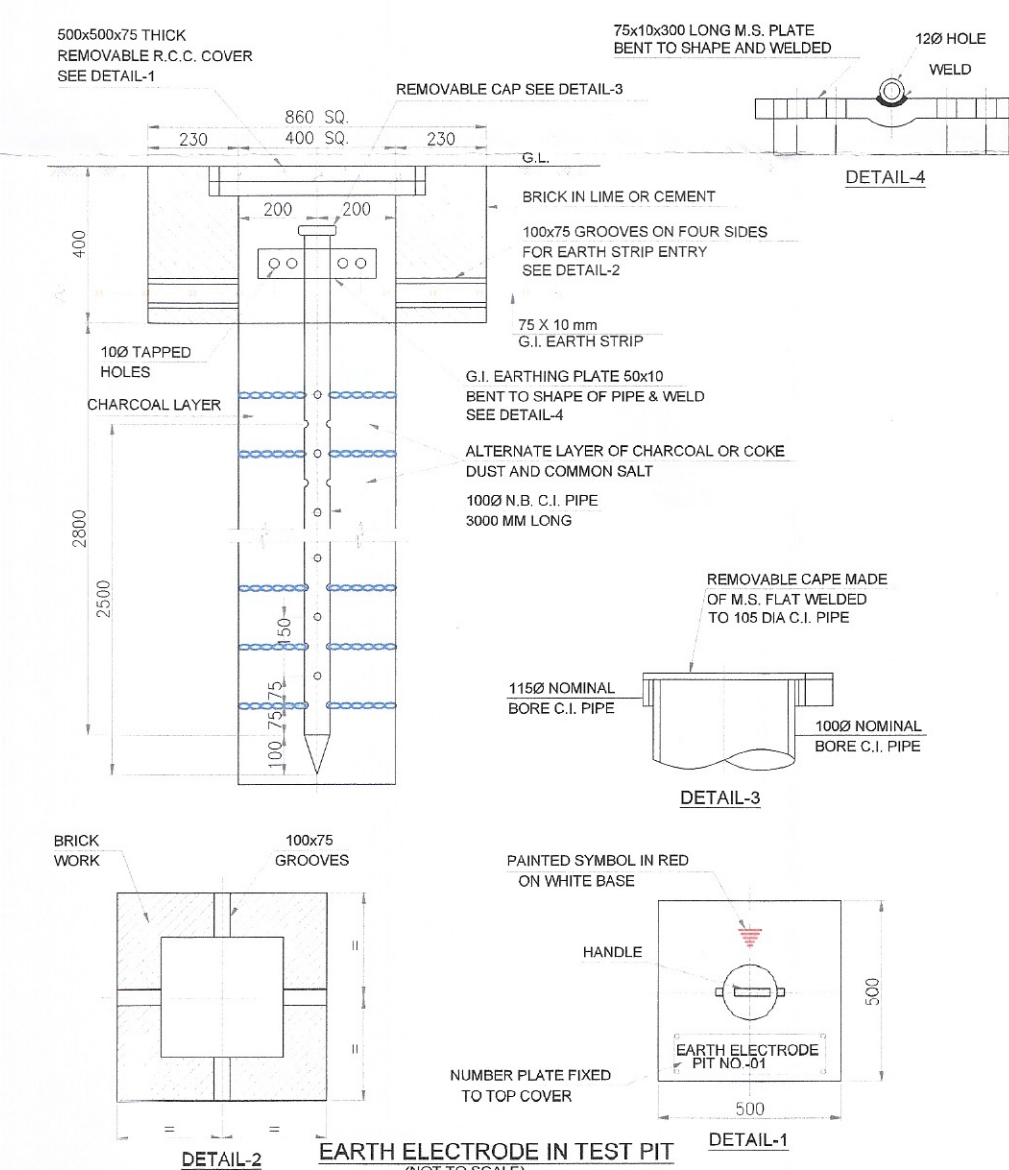




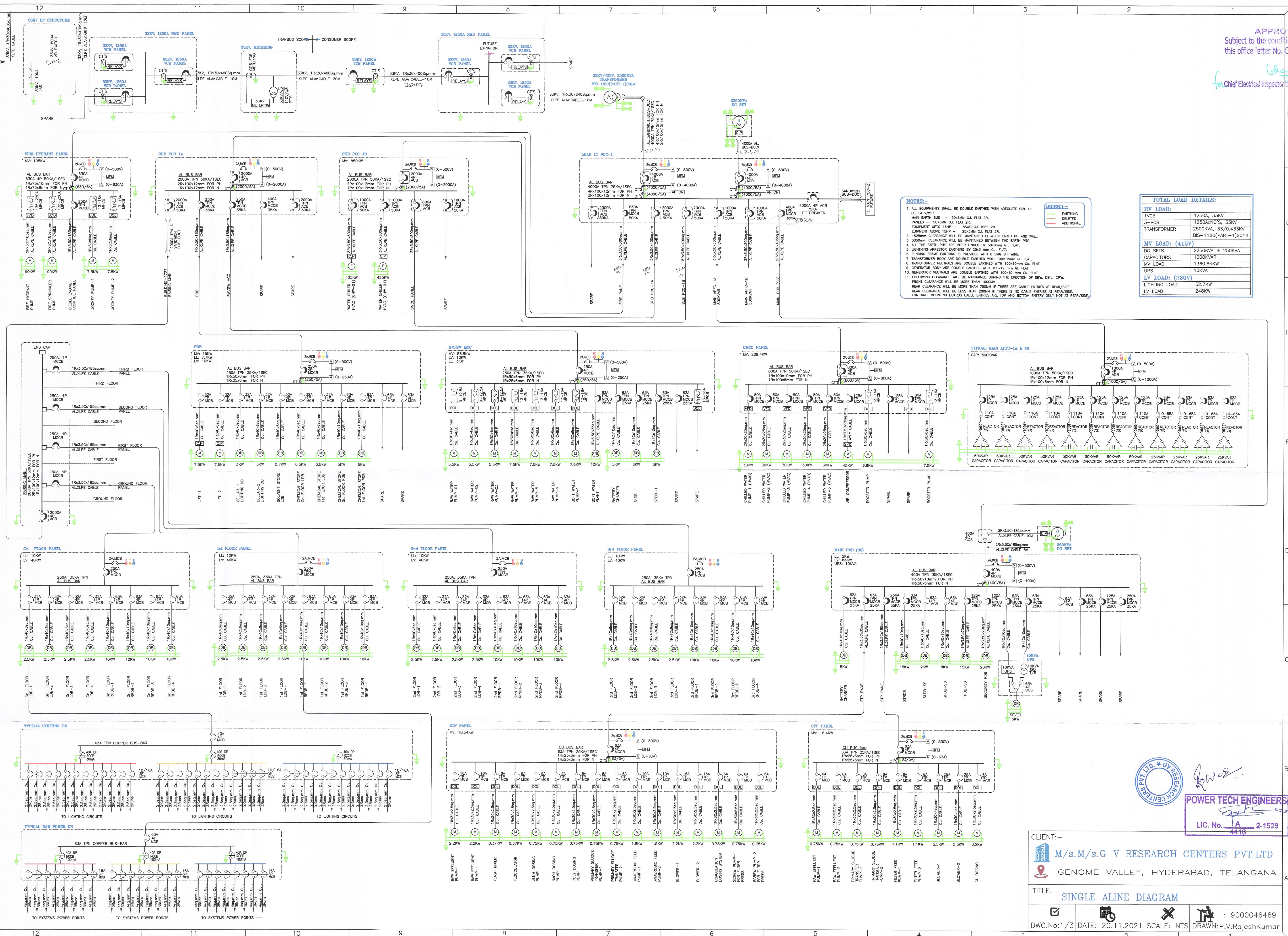


Sr. No.	DESCRIPTION	PLACE OF INSTALLATION
1	75 x 10 mm G.I. STRIP	AROUND BUILDING
2	50 x 6 mm G.I. STRIP	CABLE TRAYS (FOR 450 TO 750MM), LOCAL PANELS, EQUIPMENT BODY WITHIN BUILDING
3	25 x 3 mm G.I. STRIP	i) LIGHTNING ARRESTOR ii) CABLE TRAYS (300MM), LOCAL PANELS, SMALL EQUIPMENT BODY
4	25 x 3 mm Cu. STRIP	INSTRUMENTATION PIT TO TEST LINK
5	25 x 3 mm AL. STRIP	LIGHTNING ARRESTOR
6	GREEN (WITH YELLOW BAND) PVC INSULATED COPPER WIRE 1C x 1.5 sq mm (YY)	FOR FLP FITTING / PUSH BUTTON / PUMPS UP TO 2.2KW / CABLE TRAY UP TO 100 MM
7	GREEN (WITH YELLOW BAND) PVC INSULATED COPPER WIRE 1C x 2.5 sq mm (YY)	FOR CABLE TRAY OF 150 MM & 300 MM + SMALL EQUIPMENTS / MOTOR FOR 3.7KW TO 11 KW + BRANCHER OF FLO CABLE TRAY
8	GREEN (WITH YELLOW BAND) PVC INSULATED COPPER WIRE 1C x 4 sq mm (YY)	EQUIPMENT / MOTOR FOR 15KW TO 18.5 KW
9	GREEN (WITH YELLOW BAND) PVC INSULATED COPPER WIRE 1C x 6 sq mm (YY)	EQUIPMENT / MOTOR FOR 22KW TO 30 KW
10	GREEN (WITH YELLOW BAND) PVC INSULATED COPPER WIRE 1C x 10 sq mm (YY)	EQUIPMENT / MOTOR FOR 37KW TO 55 KW
11	1C X 16 Sq. mm (YY)	EQUIPMENT / MOTOR FOR 7.5 KW TO 110 KW
12	1C X 25 Sq. mm (YY)	EQUIPMENT / MOTOR FOR 150 KW

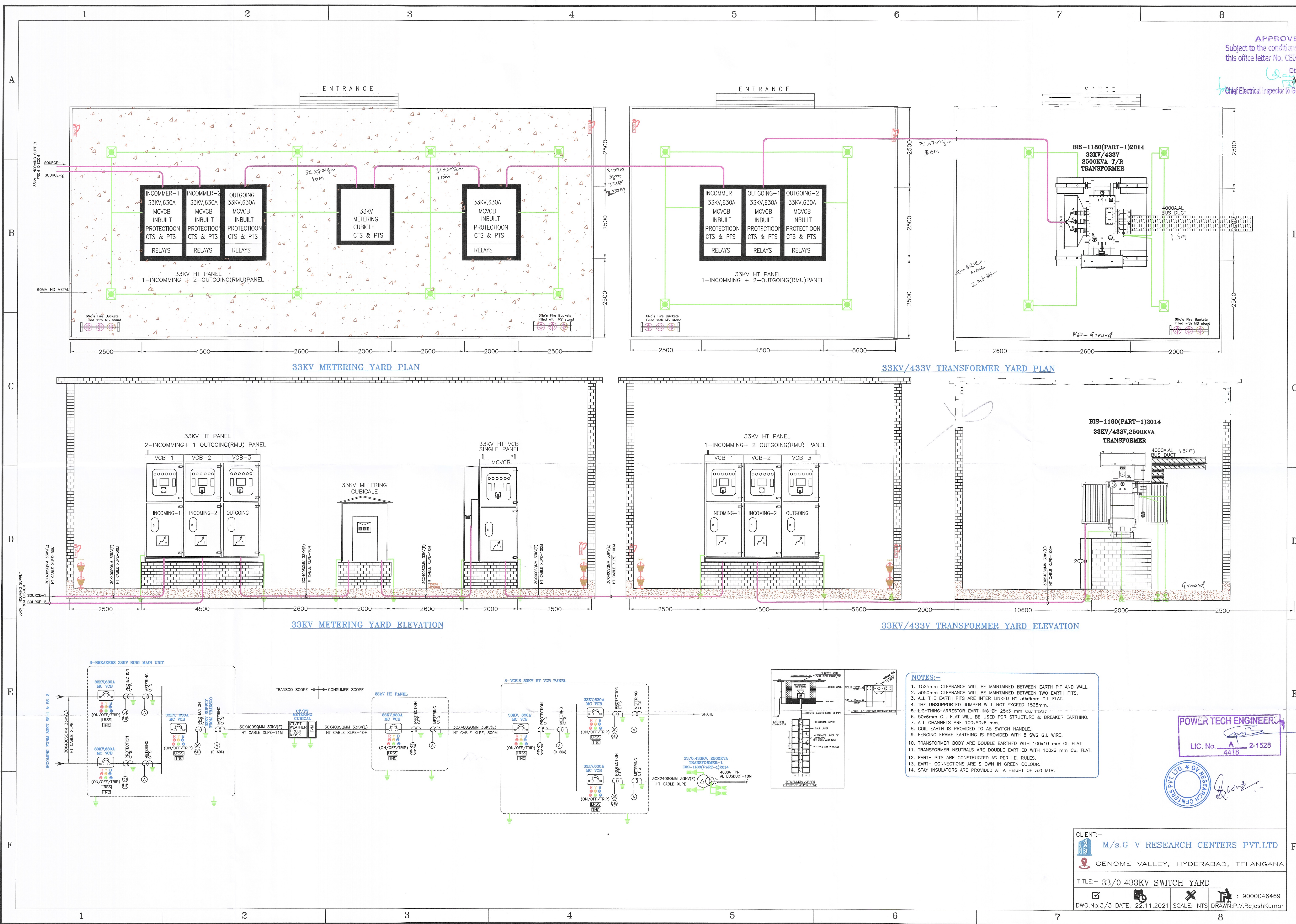
Supply and Installation of earthing pit using 100 mm.3 mtr. long C.I. pipe as specified in the drawing. Main earthing grid shall be buried at a minimum depth of 800 mm. Pipe shall be buried in the ground at a depth of not less than 2.75 meters. The masonry chamber shall be RCC/ Brick (line masonry with 1:3:6 ratio) of 150 mm above G.L. provided with G.I. frame & C.I. inspection cover with proper painting & marking. The scope includes excavation of pit, filling with alternate layers of charcoal & salt, back filling etc. Earthing shall conform to IS 3043. (Metering Room)	ELECTRICAL GRID	LIGHTNING ARRESTOR	INSTRUMENTATION EARTHING	BODY EARTHING	NEUTRAL EARTHING
ICOG PANEL BODY (BOARD SIDE)				2	
METERING BODY				2	
CT + PT BODY				2	
CT WINDINGS					5
PT WINDINGS					2
ICOG PANEL BODY (GVRC SIDE)				2	
HT CABLE				1	



SR. NO.	SYMBOLS.	DESCRIPTION	QTY.
01	[Symbol]	EARTH PIT FOR ELECTRICAL EARTHING USING C.I. @100 MM PIPE	16
02	[Symbol]	MAINTENANCE FREE EARTH PIT FOR ELECTRICAL EARTHING USING CU @20 MM BONDED PIPE	16
03	[Symbol]	MAINTENANCE FREE EARTH PIT FOR EQUIPMENT EARTHING	-
04	[Symbol]	MAINTENANCE FREE EARTH PIT FOR NEUTRAL EARTHING USING CU BONDED PIPE	06
05	[Symbol]	MAINTENANCE FREE EARTH PIT FOR INSTRUMENT EARTHING USING CU BONDED PIPE	03
06	[Symbol]	MAINTENANCE FREE EARTH PIT FOR UPS EARTHING USING CU BONDED PIPE	04
07	[Symbol]	MAINTENANCE FREE EARTH PIT FOR UPS NEUTRAL EARTHING USING CU BONDED PIPE	02
08	[Symbol]	MAINTENANCE FREE EARTH PIT FOR LIGHTNING ARRESTOR	11
09	[Symbol]	MAINTENANCE FREE EARTH PIT FOR STATIC	-
10	[Symbol]	TANKER EARTHING MONITORING SYSTEM	01
11	[Symbol]	100 X 10 mm G.I. STRIP	40 Mtrs.
12	[Symbol]	75 X 10 mm G.I. STRIP	1500 Mtrs.
13	[Symbol]	75 X 10 mm CU. STRIP	50 Mtrs.
14	[Symbol]	50 X 6 mm G.I. STRIP	10 Mtrs.
15	[Symbol]	25 X 3 mm G.I. STRIP	20 Mtrs.
16	[Symbol]	25 X 6 mm AL. STRIP	40 Mtrs.
17	[Symbol]	25 x 3mm AL. STRIP (LIGHTNING ARRESTOR)	-
18	[Symbol]	HUME PIPE	LOT



APPROVED
Subject to the conditions laid down in
this office letter No. GEIG/HT/EHT/
Dt. 12/12/21
Chief Electrical Inspector to Govt of Telangana



- NOTES:-
1. 1525mm CLEARANCE WILL BE MAINTAINED BETWEEN EARTH PIT AND WALL.
 2. 3050mm CLEARANCE WILL BE MAINTAINED BETWEEN TWO EARTH PITS.
 3. ALL THE EARTH PITS ARE INTER LINKED BY 50x6mm G.I. FLAT.
 4. THE UNSUPPORTED JUMPER WILL NOT EXCEED 1525mm.
 5. LIGHTNING ARRESTOR EARTHING BY 25x3 mm² CU. FLAT.
 6. 50x6mm G.I. FLAT WILL BE USED FOR STRUCTURE & BREAKER EARTHING.
 7. ALL CHANNELS ARE 100x50x6 mm.
 8. COIL EARTH IS PROVIDED TO AB SWITCH HANDLE.
 9. FENCING FRAME EARTHING IS PROVIDED WITH 8 SWG G.I. WIRE.
 10. TRANSFORMER BODY ARE DOUBLE EARTHED WITH 100x10 mm G.I. FLAT.
 11. TRANSFORMER NEUTRALS ARE DOUBLE EARTHED WITH 100x6 mm Cu. FLAT.
 12. EARTH PITS ARE CONSTRUCTED AS PER I.E. RULES.
 13. EARTH CONNECTIONS ARE SHOWN IN GREEN COLOUR.
 14. STAY INSULATORS ARE PROVIDED AT A HEIGHT OF 3.0 MTR.

POWER TECH ENGINEERS
LIC. No. A 2-1528
4418

CLIENT:-
M/s.G V RESEARCH CENTERS PVT.LTD
GENOME VALLEY, HYDERABAD, TELANGANA
TITLE:- 33/0.433KV SWITCH YARD
DWG.No:3/3 DATE: 22.11.2021 SCALE: NTS DRAWN:P.V.RajeshKumar