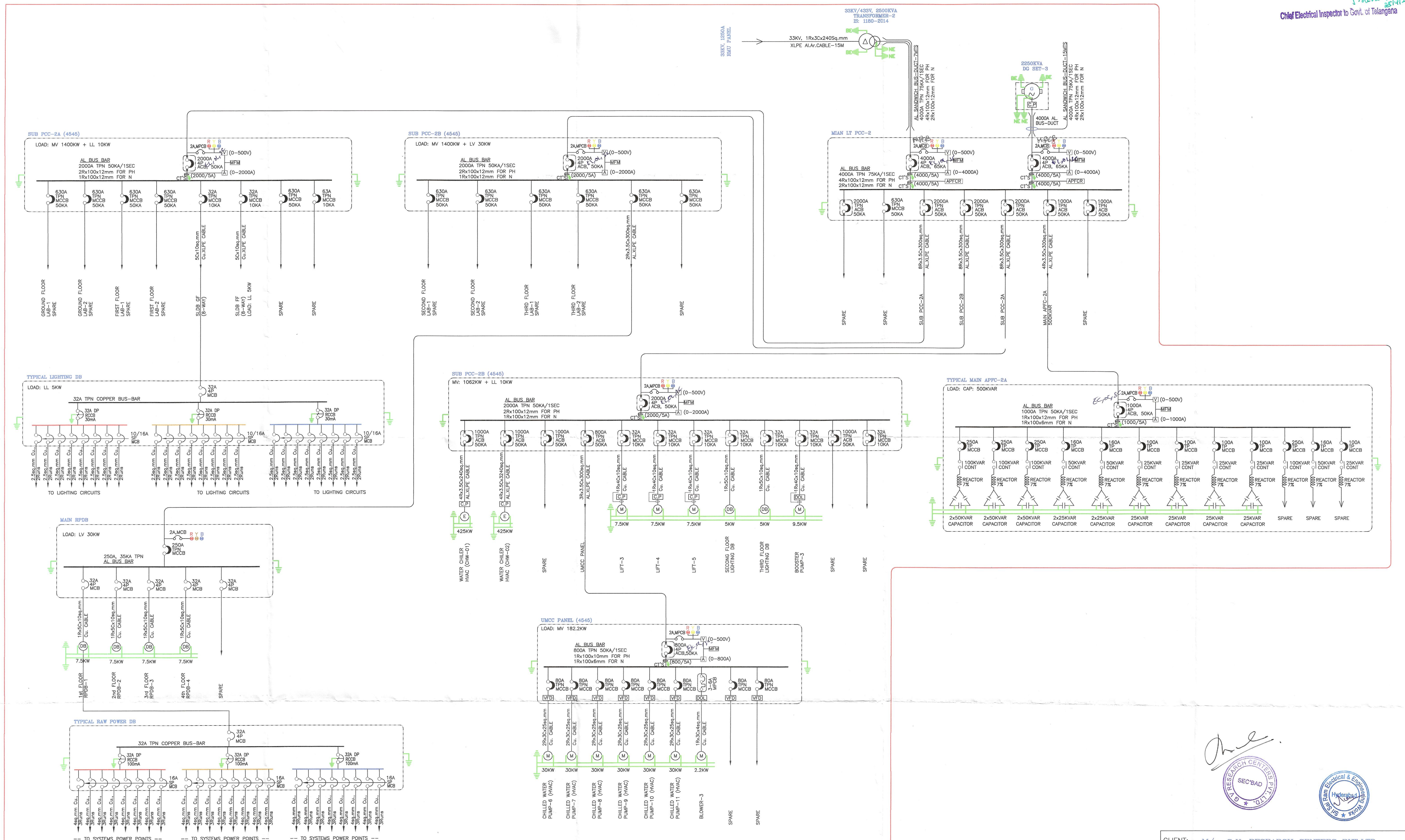
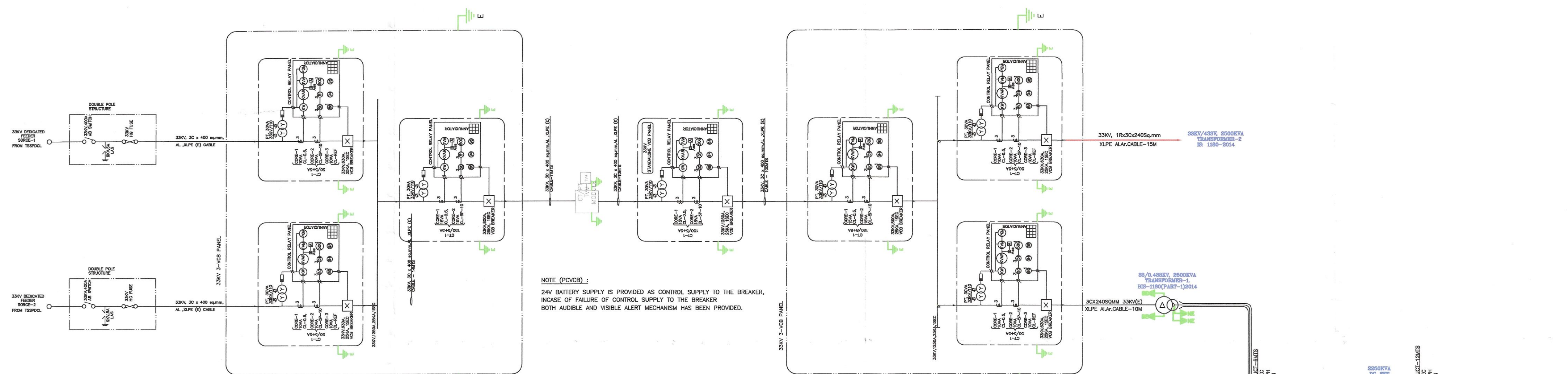


APPROVED
Subject to the conditions laid down in
this office letter No. CEIG/HT/ET/17
Dt. 25/04/23
J. Srinivas
Chief Electrical Inspector to Govt. of Telangana



CLIENT:- M/s. G.V. RESEARCH CENTERS PVT.LTD.
SY.NO: 543(P)/3, BIOTECH PARK,
KOLTHUR (V), SHAMEERPET (M), MEDCHAL DISTRICT.
CONTRACTOR:-
M/s. SRI SAIRAM ELECTRICAL ENGINEERING WORKS.
MIYAPUR, HYDERABAD.
TITLE:- SINGLE LINE DIAGRAM
DWG.No: GVD.SL.01 DATE: 21.04.2023 SHEET: 2 of 2 DRAWN: RAJESH

APPROVED
Subject to the conditions laid down in
this office letter No. CEIG/HT/EHT/
Dt. 25/10/22
I. Nani - E
25/11/22
Chief Electrical Inspector to Govt. of Telangana



TOTAL CONNECTED LOAD				
S/N	EQUIPMENT	EXISTING LOAD	DEFLECTION LOAD	TOTAL LOAD
I.	1. TRANSFORMER	2500KVA, 3300V/432V	----	2500KVA, 3300V/432V
	2. TRANSFORMER	2500KVA, 3300V/432V	----	2500KVA, 3300V/432V
II.	1. GENERATOR	2500KVA, 415V	2500KVA, 3300V/432V	2500KVA, 3300V/432V
	2. GENERATOR	2500KVA, 415V	2500KVA, 415V	2500KVA, 415V
	3. GENERATOR	2500KVA, 415V	2500KVA, 415V	2500KVA, 415V
III.	M.V. LINE	1175.40W	1000W	2537.40W
	2. CAPACITORS	10000VAR	5000VAR	15000VAR
IV.	1. LIGHTING LOAD	300W	200W	400W
	2. FUSE POWER LOAD	300W	300W	600W

NOTES:

1. ALL EQUIPMENTS SHALL BE DOUBLE EARTHED WITH ADEQUATE SIZE OF CABLES.
2. MAIN EARTH BUS = 50mm² GI FLAT 25.
3. PATTERNED 15mm² = 80mm² GI FLAT 25.
4. EQUIPMENT ABOVE 150V = 250mm² GI FLAT 25.
5. 100mm² CLEARENCE WILL BE MAINTAINED BETWEEN EARTH PIT AND WALL.
6. 200mm² CLEARENCE WILL BE MAINTAINED BETWEEN TWO EARTH PITS.
7. ALL THE EARTHS ARE TO BE IDENTIFIED BY THE FOLLOWING:
8. LIGHTNING ARRESTOR EARTHING BY 25mm² mm GI FLAT.
9. EXCISING POWER CABLES EARTHING BY 16mm² mm GI FLAT.
10. TRANSFORMER CABLE ARE DOUBLE EARTHING WITH 100mm²mm GI FLAT.
11. TRANSFORMER NEUTRALS ARE DOUBLE EARTHING WITH 100mm² mm GI FLAT.
12. GENERATOR CABLE ARE DOUBLE EARTHING WITH 100mm² mm GI FLAT.
13. GENERATOR NEUTRALS ARE DOUBLE EARTHING WITH 100mm² mm GI FLAT.
14. FOLLOWING CLEARENCE WILL BE MAINTAINED DURING THE DIRECTION OF SW, NW, SE, NE.
15. ALL CABLES SHALL BE IDENTIFIED BY THE FOLLOWING:
16. REAR CLEARENCE WILL BE MORE THAN 250MM IF THERE ARE CABLE ENTRIES AT REAR/SIDE.
17. REAR CLEARENCE WILL BE LESS THAN 250MM IF THERE IS NO CABLE ENTRIES AT REAR/SIDE.
18. FOR ALL EXISTING EARTHINGS TO BE MAINTAINED AS PER THE EXISTING RECORDS.

LEGEND:

- EXISTING
- REMOVED
- ADDITIONAL

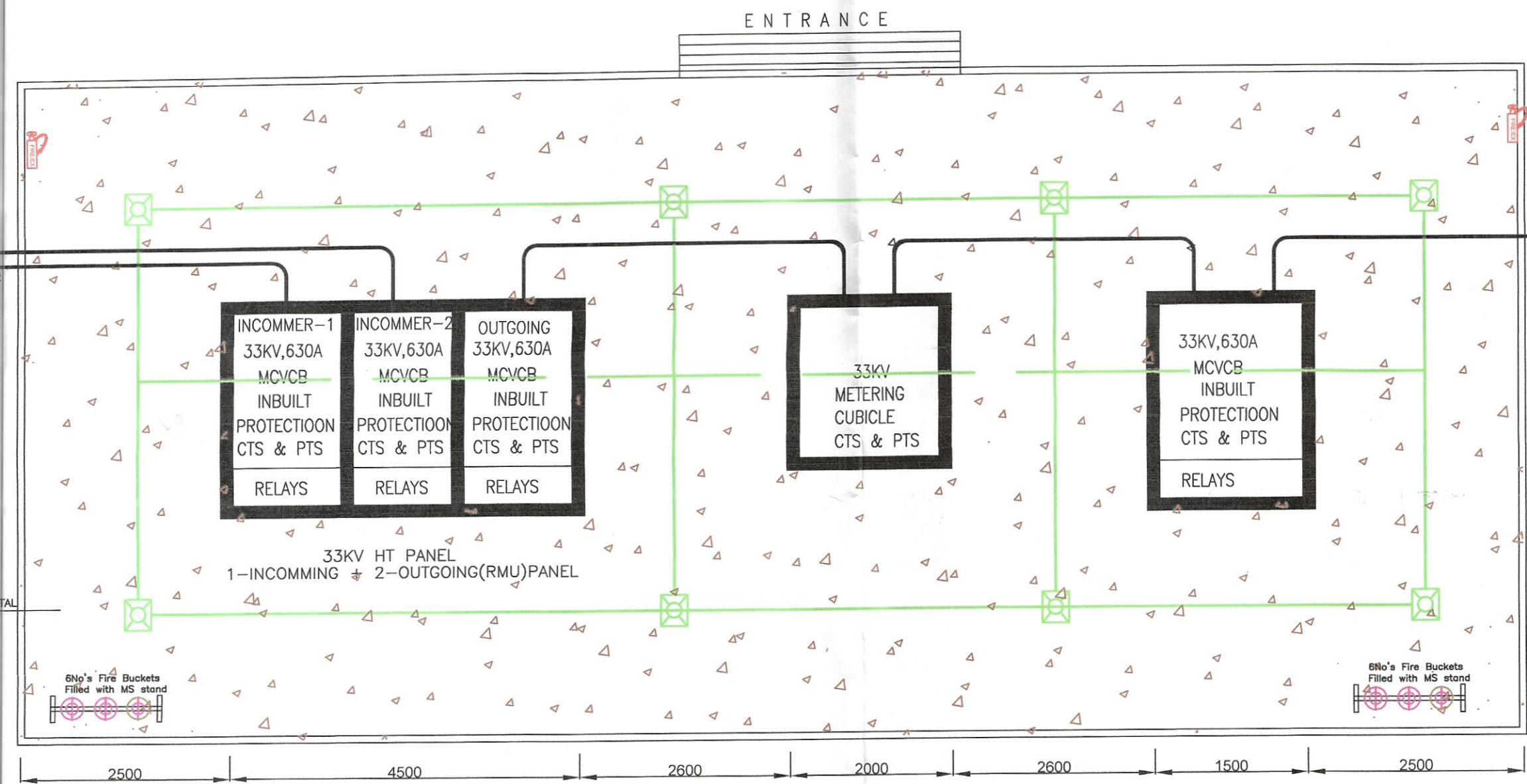


CLIENT:- M/s. G.V. RESEARCH CENTERS PVT.LTD.
SY.NO: 543(P)/3, BIOTECH PARK,
KOLTHUR (V), SHAMEERPET (M), MEDCHAL DISTRICT.

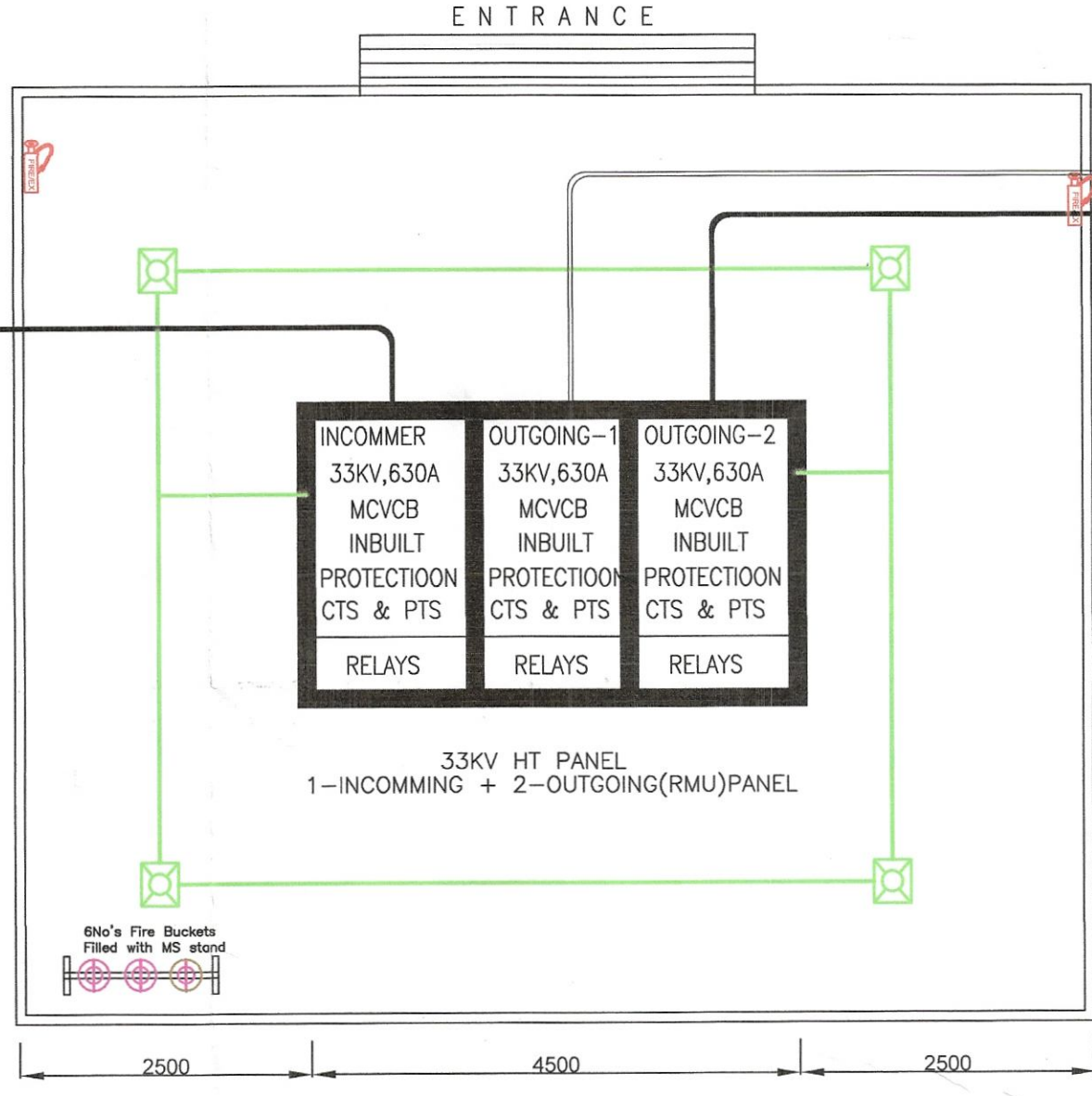
CONTRACTOR:- M/s. SRI SAIRAM ELECTRICAL ENGINEERING WORKS.
MIYAPUR, HYDERABAD.

TITLE:— SINGLE LINE DIAGRAM			
DWG.No: GVD.SL.01	DATE: 21.04.2023	SHEET: 1of2	DRAWN: RAJESH

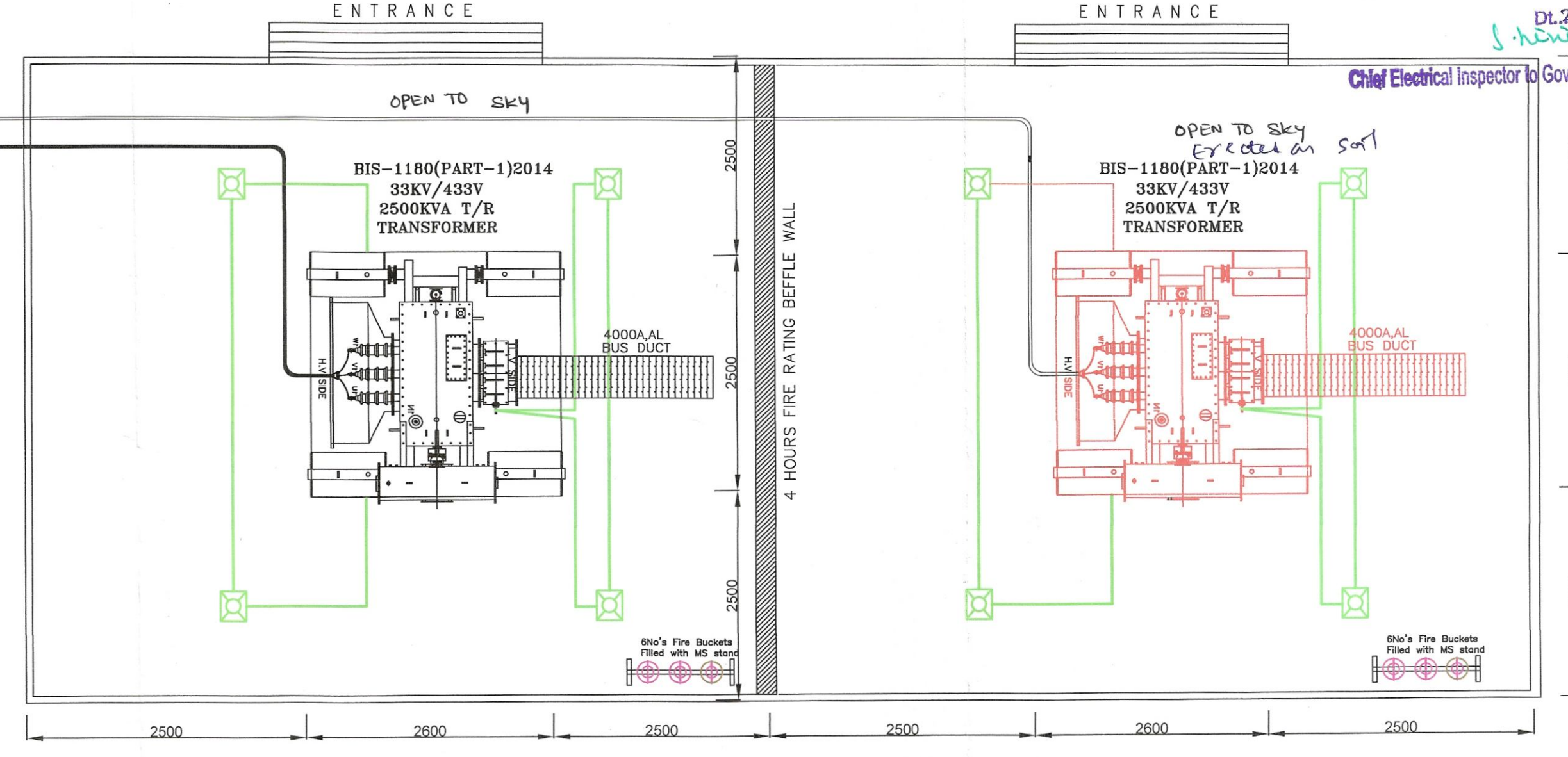
APPROVED
Subject to the conditions laid down in
this office letter No. CEIG/HT/EHT/
Dt. 25.04.23
Chief Electrical Inspector to Govt. of Telangana



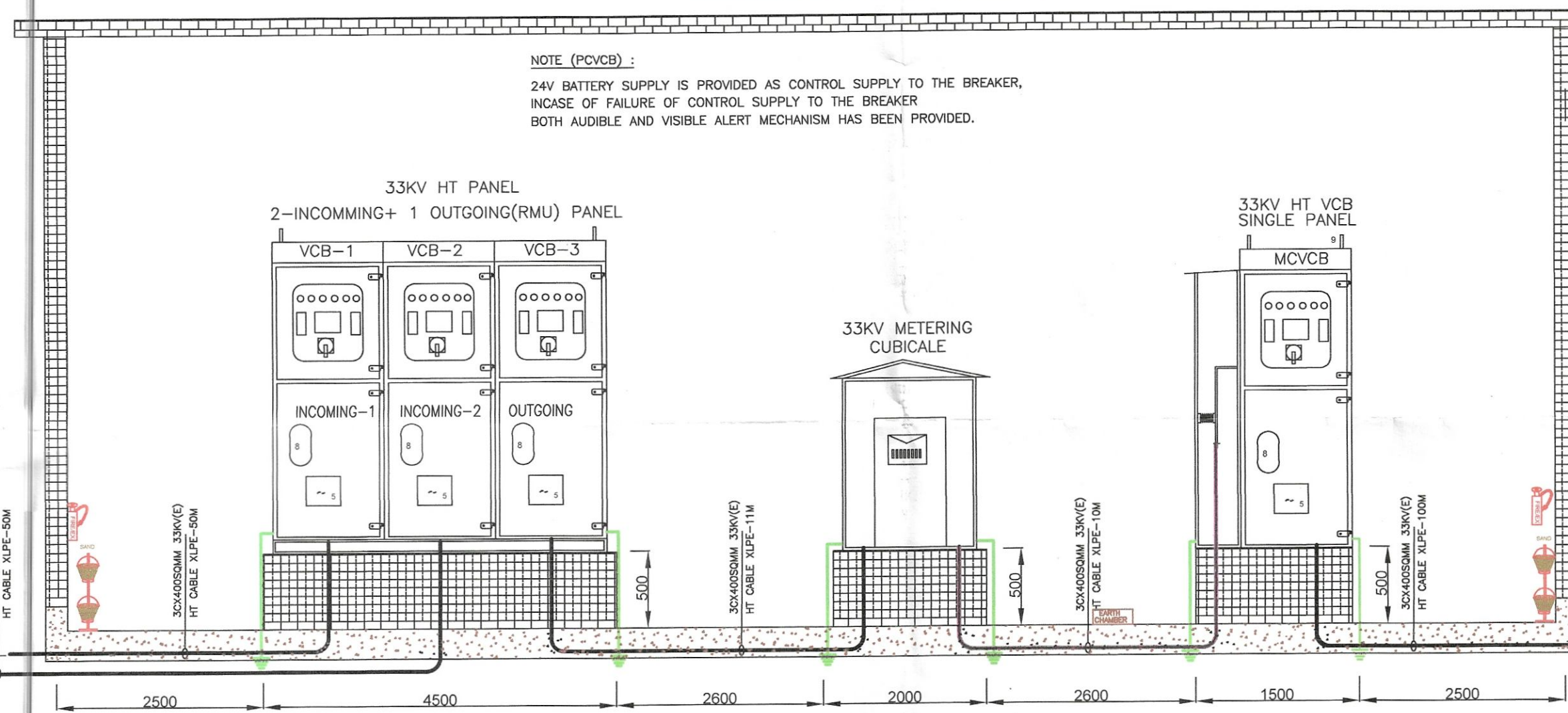
33KV METERING YARD PLAN



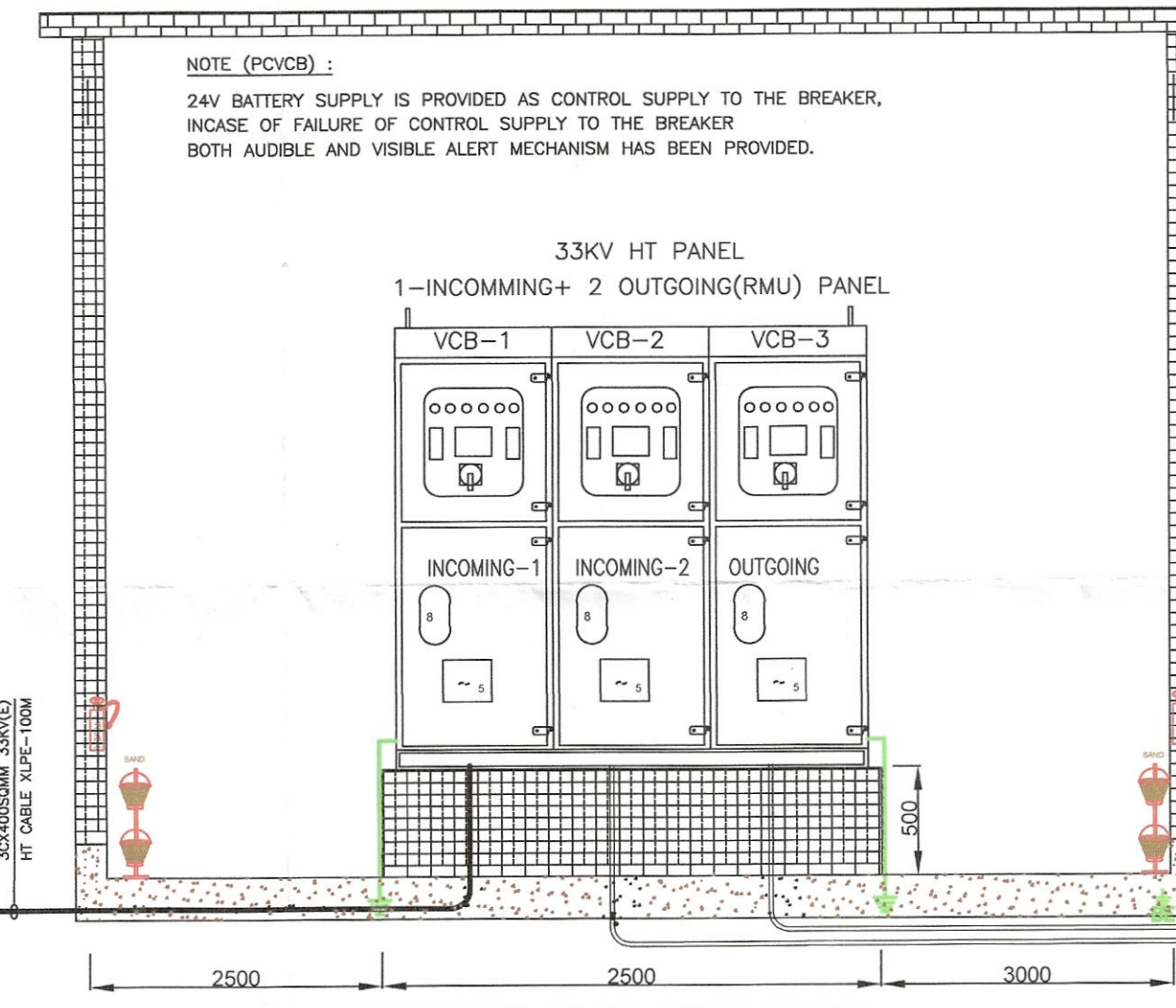
33KV METERING YARD PLAN



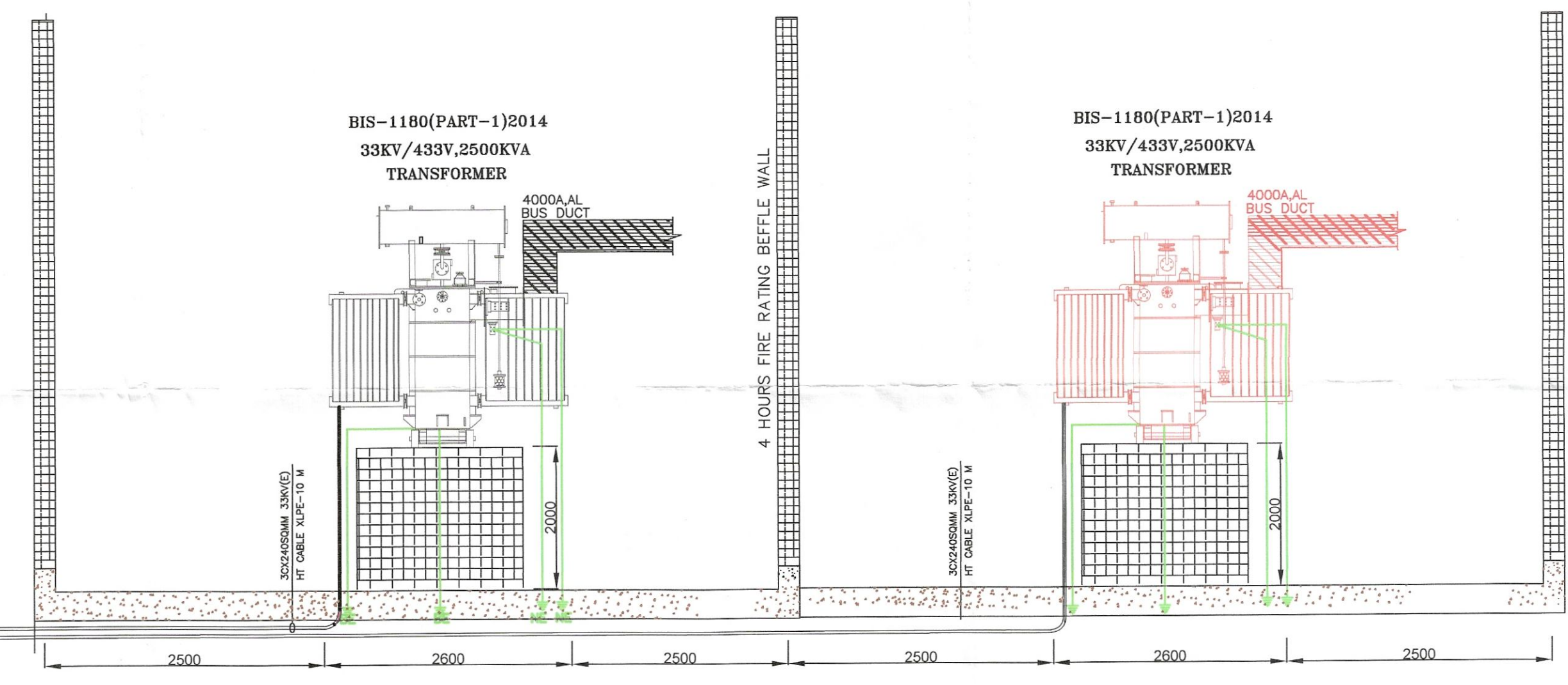
33KV/433V TRANSFORMER YARD PLAN



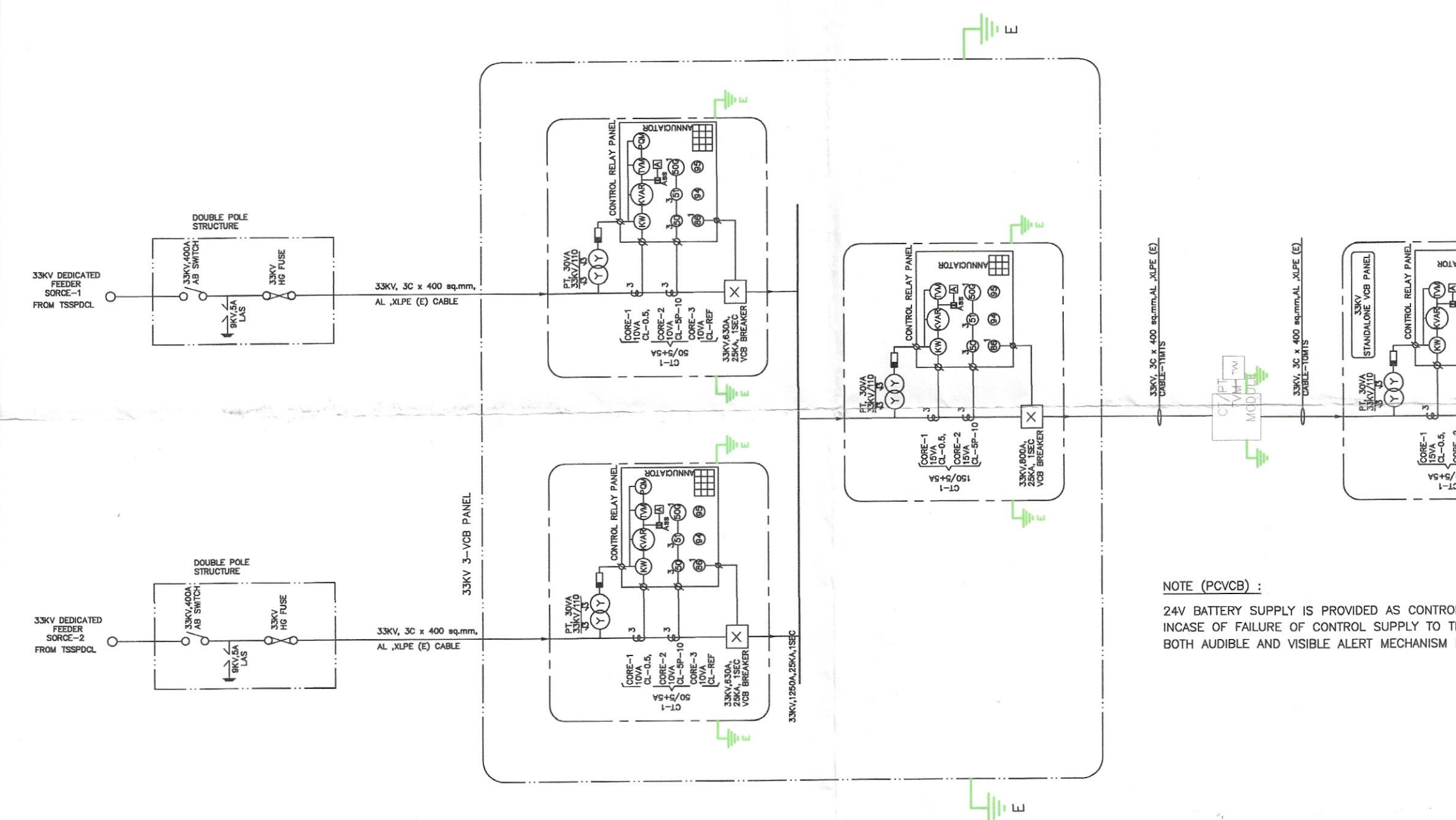
33KV METERING YARD ELEVATION



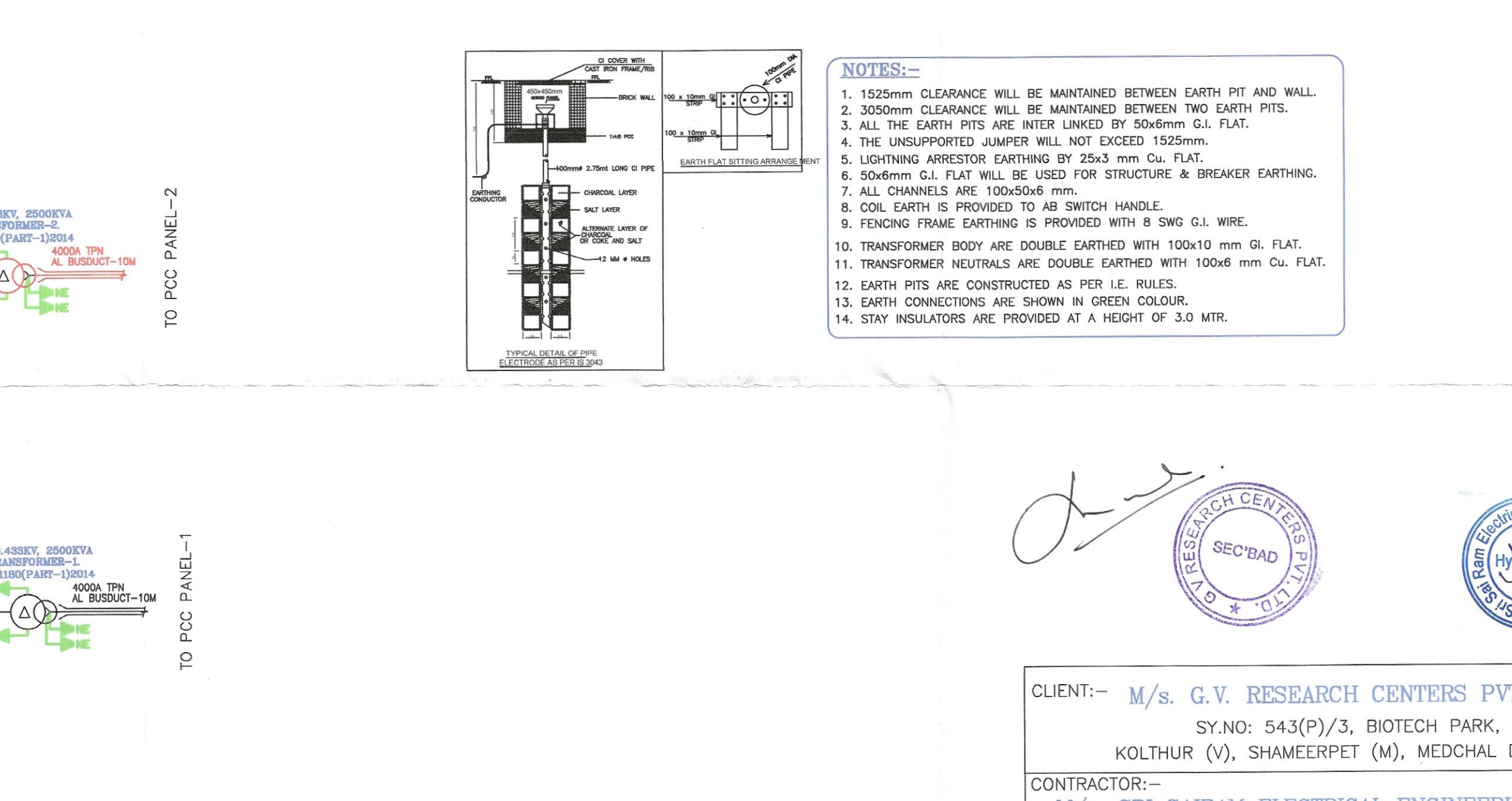
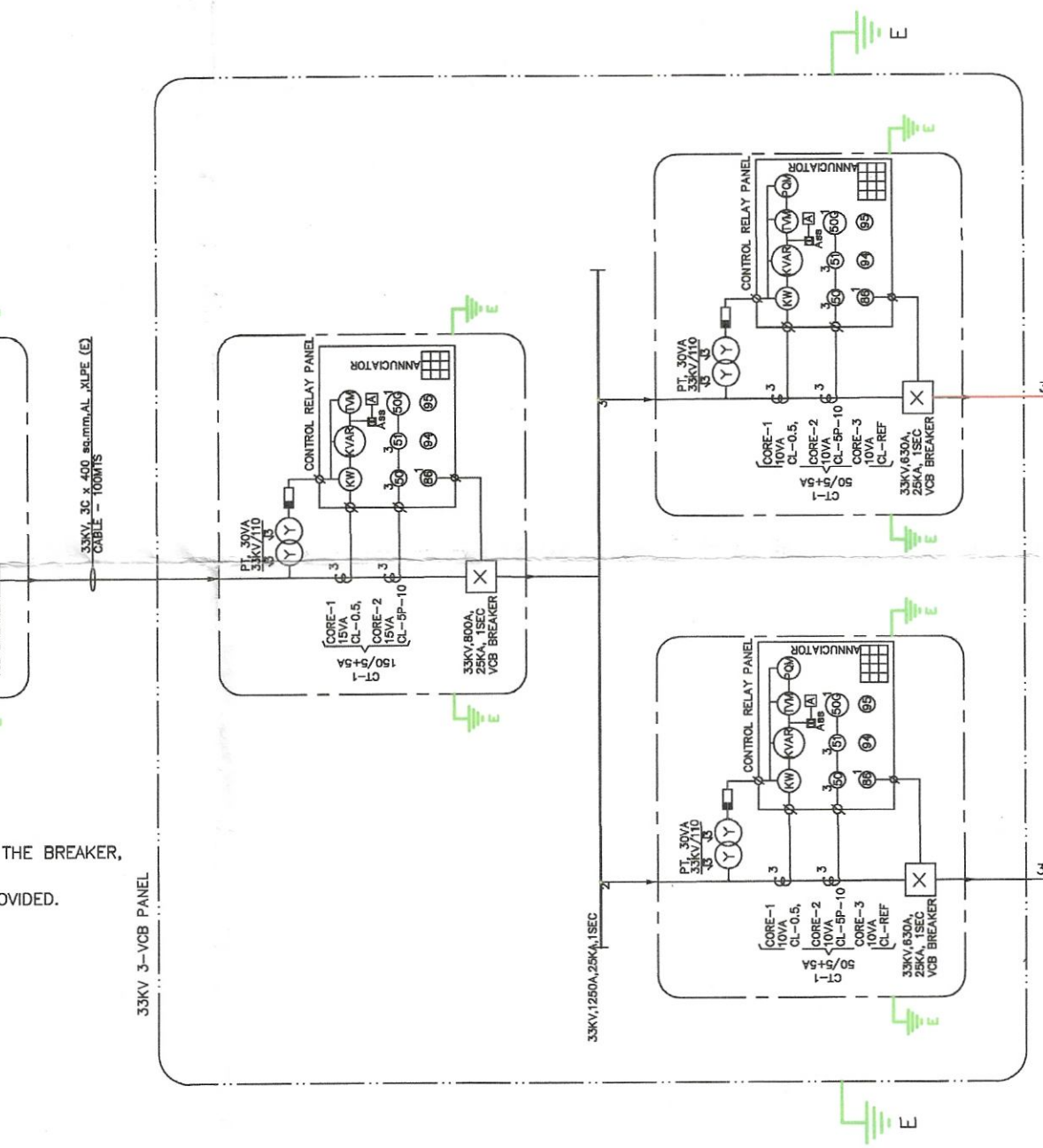
33KV METERING YARD ELEVATION



33KV/433V TRANSFORMER YARD ELEVATION



SINGLE LINE DIAGRAM



- NOTES:-
- 1525mm CLEARANCE WILL BE MAINTAINED BETWEEN EARTH PIT AND WALL.
 - 3000mm CLEARANCE WILL BE MAINTAINED BETWEEN TWO EARTH PITS.
 - ALL THE EARTH PITS ARE INTER LINKED BY 50x5mm G.I. FLAT.
 - THE UNSUPPORTED JUMPER WILL NOT EXCEED 1525mm.
 - LIGHTNING ARRESTOR EARTHING BY 25x3 mm Cu. FLAT.
 - 50x6mm G.I. FLAT WILL BE USED FOR STRUCTURE & BREAKER EARTHING.
 - ALL CHANNELS ARE 100x50x6 mm.
 - COIL EARTH IS PROVIDED TO AB SWITCH HANDLE.
 - FENCING FRAME EARTHING IS PROVIDED WITH 8 SWG G.I. WIRE.
 - TRANSFORMER BODY ARE DOUBLE EARTHED WITH 100x10 mm G.I. FLAT.
 - TRANSFORMER NEUTRALS ARE DOUBLE EARTHED WITH 100x6 mm Cu. FLAT.
 - EARTH PITS ARE CONSTRUCTED AS PER I.E. RULES.
 - EARTH CONNECTIONS ARE SHOWN IN GREEN COLOUR.
 - STAY INSULATORS ARE PROVIDED AT A HEIGHT OF 3.0 MTR.

CLIENT:- M/s. G.V. RESEARCH CENTERS PVT.LTD.
SY.NO: 543(P)/3, BIOTECH PARK,
KOLTHUR (V), SHAMEERPET (M), MEDCHAL DISTRICT.
CONTRACTOR:-
M/s. SRI SAIRAM ELECTRICAL ENGINEERING WORKS.
MIYAPUR, HYDERABAD.

TITLE:- 33KV SWITCH YARD.
DWG.No: GVD.HT.03 | DATE: 21.04.2023 | SHEET: 1 of 1 | DRAWN: RAJESH

