

*Adi*

**From:** Soham Modi <sohammodi@modiproperties.com>  
**Sent:** 02-11-2023 08:04  
**To:** Aruna K Admin  
**Subject:** Fw: Gv dc drawings approvals  
**Attachments:** GV Discovery ltrs.pdf; GV Discover drawings.pdf

print

Regards,

Soham Modi  
Managing Director | +91 40 2753 7458 | [sohammodi@modiproperties.com](mailto:sohammodi@modiproperties.com)  
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----- Forwarded Message -----

From: Suresh Parrey <ssre1969@gmail.com>

Date: 01-11-2023 11:23:00

Subject: Gv dc drawings approvals

To: Rameshreddy . <rameshreddy@modiproperties.com>, Sitaram Admin <sitaram@modiproperties.com>, Soham Modi <sohammodi@modiproperties.com>, Waseem Akhtar Construction <waseem@modiproperties.com>

Plz find attachment

**GOVERNMENT OF TELANGANA  
ELECTRICAL INSPECTORATE**

(An IS/ISO 9001: 2015 Certified Department)



From  
**The Chief Electrical Inspector to Government**  
**5th Floor**  
**R&B Buildings**  
**A.C. Guards**  
**Masabtank**  
**Hyderabad-500004**

**Phone No: 040-23453023**

To  
**M/s: G V DISCOVERY CENTERS PVT LTD**  
**Sy. No.: 234**

**(V): Turkapally**  
**(M): Shamirpet**  
**(D): Medchal**

**Pincode: 500078**  
**Phone No: 9100126998**

**Mr.No.CEIG/TS/El Ex. 650V/HT-MDL-2023-10599/D.No. 2532/2023 Dated: 30/10/2023**

**Sir,**

**Sub: The Electricity Act-2003 and Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2023 - Electrical Installation of Voltage Exceeding 650 V of M/s G V DISCOVERY CENTERS PVT LTD, Turkapally-Shamirpet Mandal Medchal District - Approval of Drawings, submitted towards Design Approval- Under Section 54 of The Electricity Act-2003 and Regulation 45(3) of CEA (Measures relating to Safety and Electric Supply) Regulations, 2023 Accorded Regarding.**

**Ref:- 1) Management letter received dated 26/10/2023**

**The drawings submitted for design approval are provisionally approved and valid up to 26/10/2024 subject to the compliance of conditions specified in the annexure to the drawings. The drawings approved for the erection of Equipment as per standard.**

**The defects/omission's pointed in the drawings will be specifically inspected by the Inspecting Officer at the time of Inspection. The Inspection fee of your installation works out to Rs. 21300 - Twenty One Thousand Three Hundred.**

**After completing the installation to your satisfaction, you are requested to submit the reports for inspection under Regulation 45(3) of Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2023.**

**The consumer shall provide the evidence that the supplier also completed his works in full shape, at the time of request for inspection of the installation.**

**The installation shall conform to the relevant provisions of Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2023 and Bureau of Indian Standards specifications.**

**Yours faithfully**

**CHIEF ELECTRICAL INSPECTOR  
TO GOVERNMENT**

Provisionally approved subject to the compliance of the following conditions.

**I. TRANSFORMERS:**

1. (a) Transformer Body shall be double earthed with 100 x 6 mm G.I. flats and they shall be connected to two separate and independent Earth Electrodes.
- (b) Transformer neutral shall be double earthed with 75 x 6 mm copper flats and they shall be connected to two separate and independent Earth Electrodes.
2. The Lightning Arrestors shall be independently earthed with 25 x 6 mm copper flats, and they shall be brought down on insulators.
3. Bus ducts shall be provided on the secondary side of the Transformer for the Transformers of capacity 750 KVA and above.
4. A safety working clearance of 2.6 Mtrs. shall be maintained between H.V. Equipment in 11 KV Sub-Station.
5. 100 mm C.I. pipes shall be used as earth electrodes for earthing of H.V. equipment in 11 KV Sub-station.
6. Maximum transformer rating for outdoor type oil immersed distribution transformer is 2500KVA, 11 kV as per IS1180(Part 1):2014 and BIS certification of transformers shall be submitted to this office.

**II. MACHINERY SECTION:**

1. All the motors based on rating shall be double earthed with following size of GI flats/wires and they shall be connected to the main earth bus.

| Rating of Motor in HP | Size of GI Flat |
|-----------------------|-----------------|
| Upto 5                | 10 SWG          |
| 6 to 15               | 8 SWG           |
| 16 to 50              | 6 SWG           |
| 51 to 100             | 25 X3 mm        |
| 101 to 150            | 40 x 6 mm       |
| 151 to 200            | 50 x 6 mm       |
| 201 and above         | 75 x 6mm        |

2. All the starters, switches, panels, PDBS, SDBS and LDBS shall be double earthed with suitable size of GI flats/wires and they shall be connected to the main earth bus

P.T.O

**III. GENERATORS:**

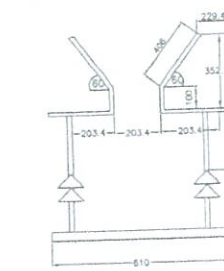
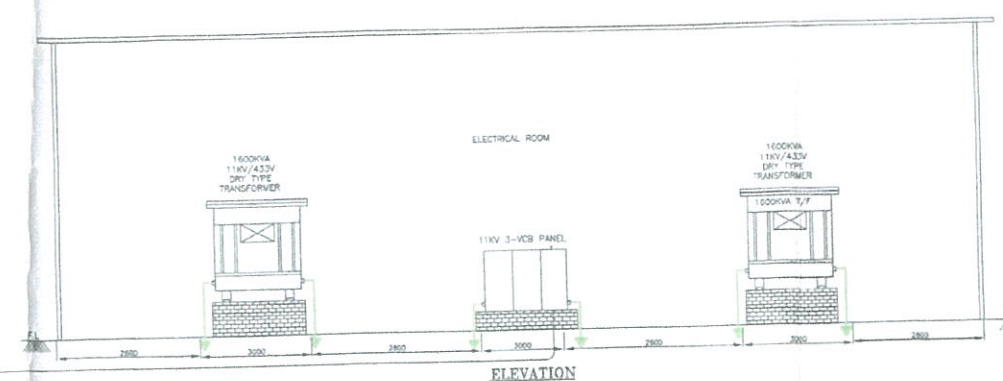
1. (a) Two separate and independent earth connections shall be provided to the body of the Generator with 75 x 6 mm G.I. flats and they shall be connected to two separate and independent earth electrodes.
- (b) Two separate and independent earth connections shall be provided to the neutral of the Generator with 50 x 6 mm copper flats and they shall be connected to two separate and independent earth electrodes.
2. Bus duct shall be provided for the Generators having capacity of 750 KVA and above.
3. Energy meters, with a provision to seal the meters along with CTS shall be provided to the Generators.

**IV. GENERAL:**

1. Suitable provisions shall be made for immediate and automatic discharge of every static condenser on disconnection of supply.
2. All the plugs, sockets shall be of 3 pin type and the third pin shall be permanently and efficiently earthed.
3. Earth pits shall be constructed and shall be maintained as per IS:3043-1987.
4. The Electrical Installation work shall be got executed through only a licensed Electrical Contractor.
5. (a) The Licensed Electrical Contractor shall submit works commencement report to this office, immediately after commencing the Electrical installation work. This should indicate the names of the permit holders, supervisor, executing works.
- (b) The Licensed Electrical Contractor shall submit his Completion-cum-Test Report in the prescribed proforma after completion of the work taking reasonable time for completion of works.
6. The earth wires used for earthing of lighting circuits shall be properly connected by using suitable connectors.
7. The installation shall conform to the relevant provisions of Central Electricity Regulations, 2010.

8. Any instructions issued at the time of inspection should be complied with.
9. The person who executes the work shall be present at the time of inspection.
10. Approved drawings shall be displayed in the factory premises.
11. Fire protection for transformer shall be provided.

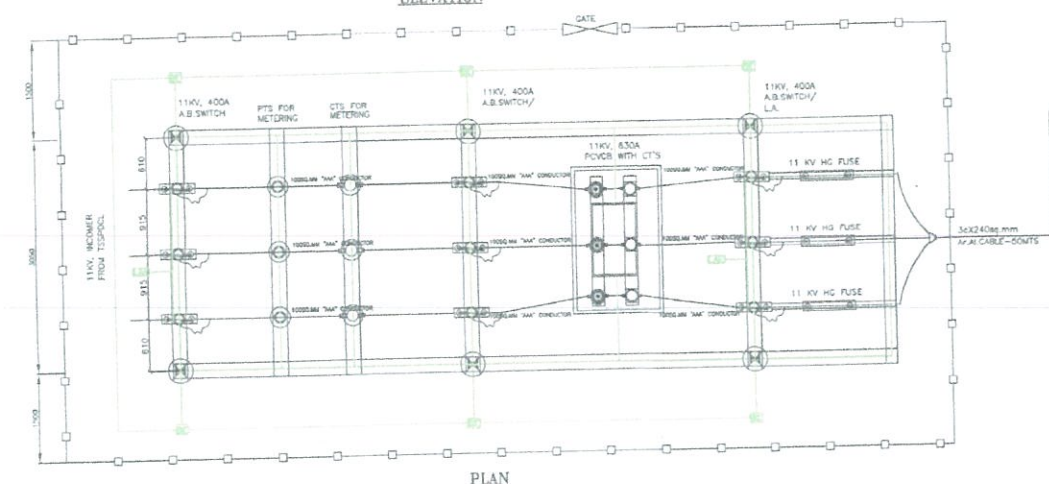
*Dayar*  
30/10/2023  
for **CHIEF ELECTRICAL INSPECTOR  
TO GOVERNMENT**



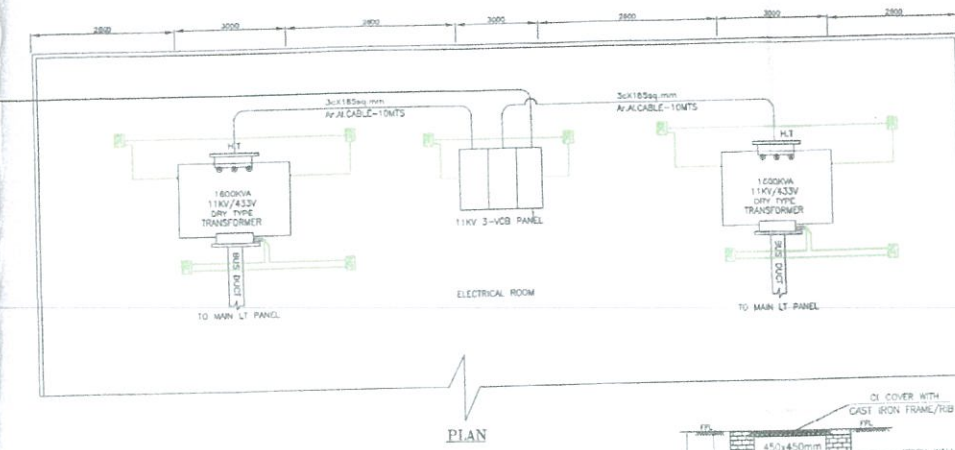
### HG FUSE DETAILS



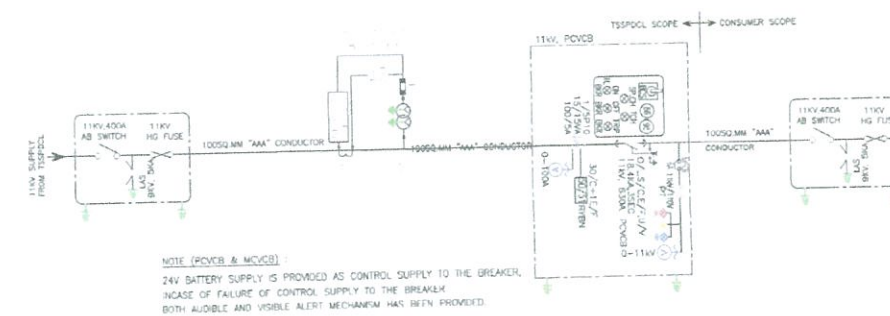
TYP. CLEARANCE



## PLAN



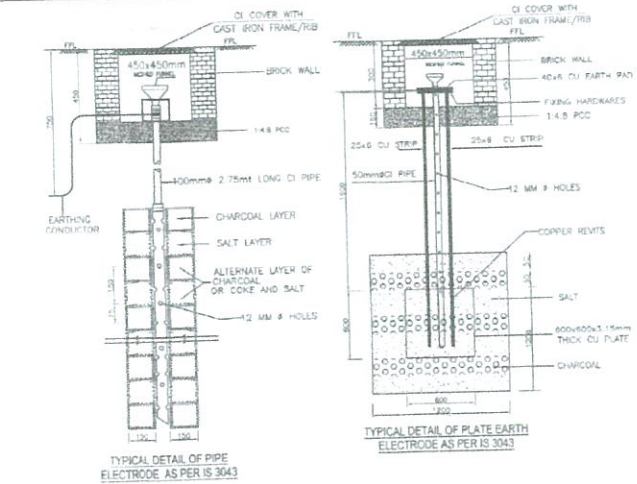
PLAN



NOTE (PCVCB & MCVCB) :  
24V BATTERY SUPPLY IS PROVIDED AS CONTROL SUPPLY TO THE BREAKER.  
IN CASE OF FAILURE OF CONTROL SUPPLY TO THE BREAKER  
BOTH AUDIBLE AND VISIBLE ALERT MECHANISM HAS BEEN PROVIDED.

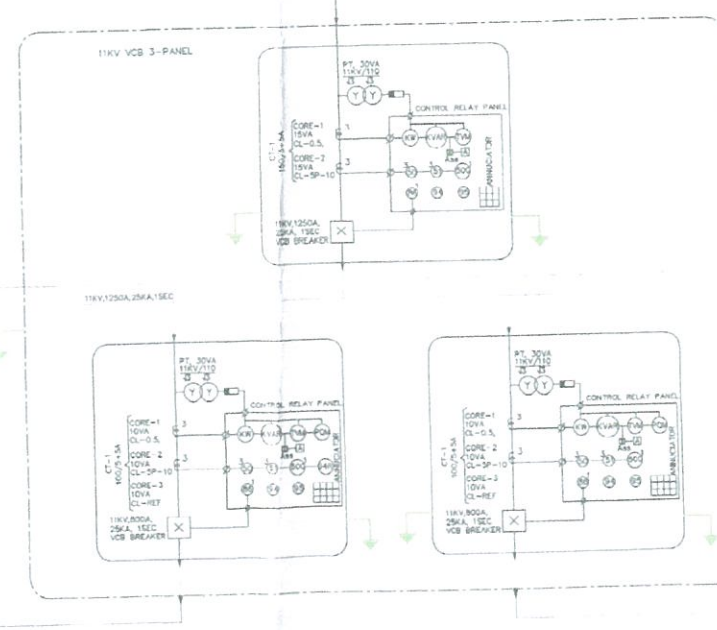
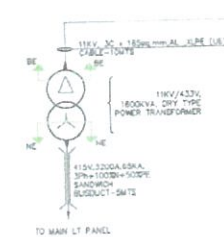
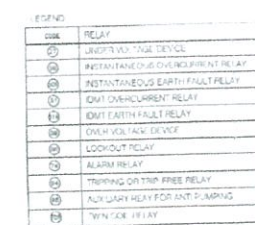


EARTHING DETAILS :

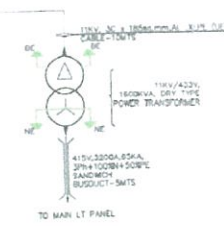


TYPICAL DETAIL OF PIPE  
ELECTRODE AS PER IS 3043

TYPICAL DETAIL OF PLATE GART  
ELECTRODE AS PER IS 3043



### SINGLE LINE DIAGRAM



CLIENT:-  
M/S. G.V. DISCOVERY CENTRES PVT. LTD.

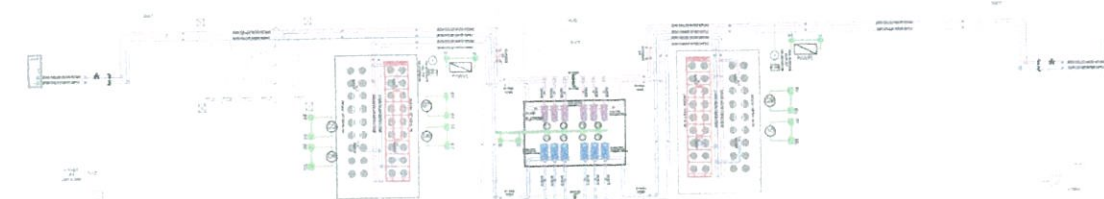
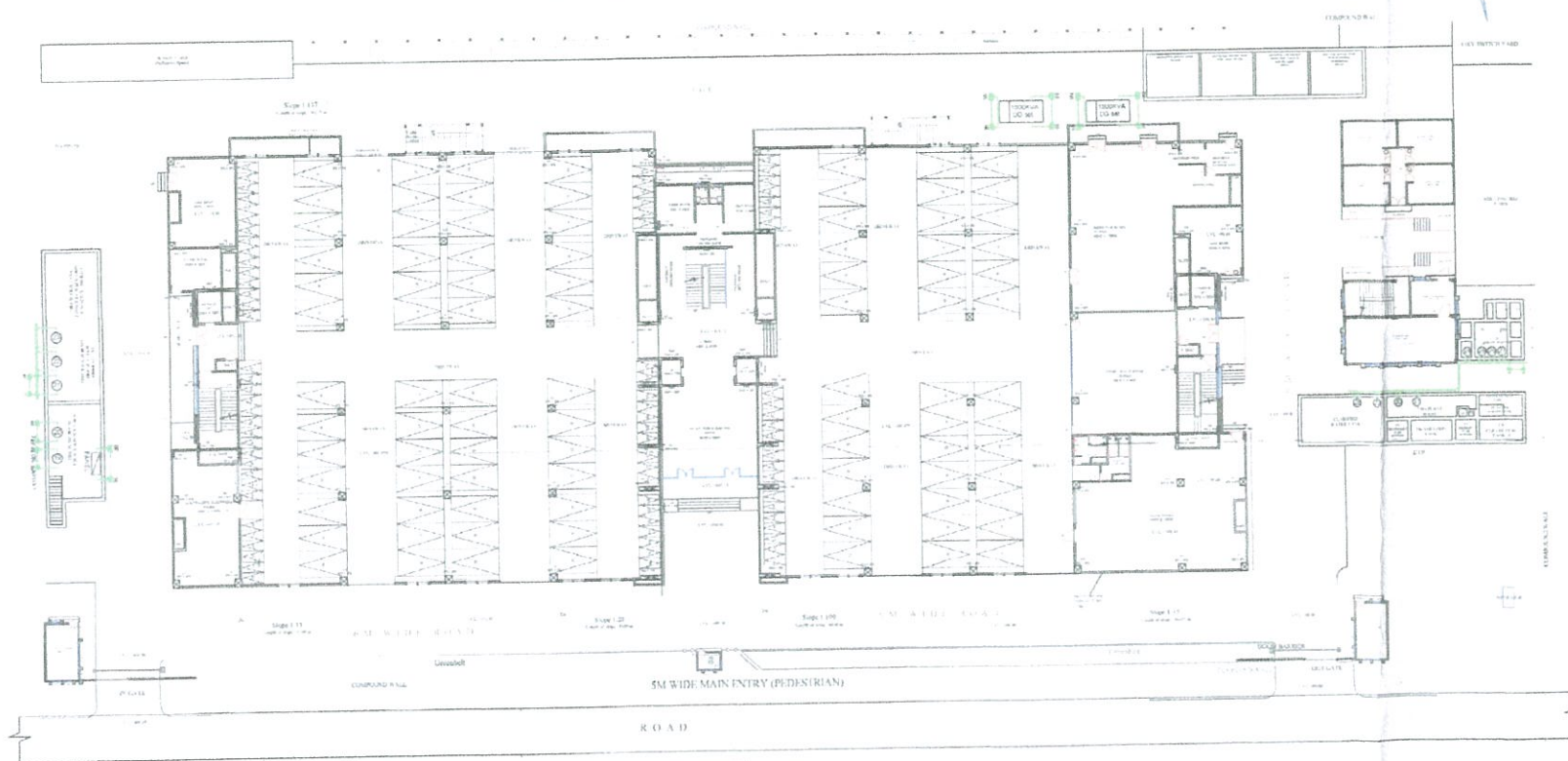
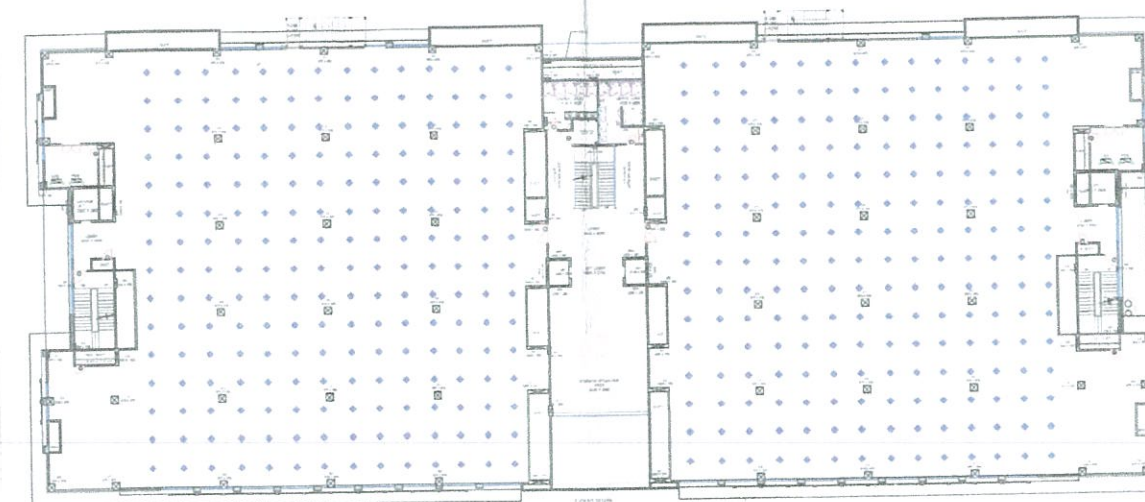
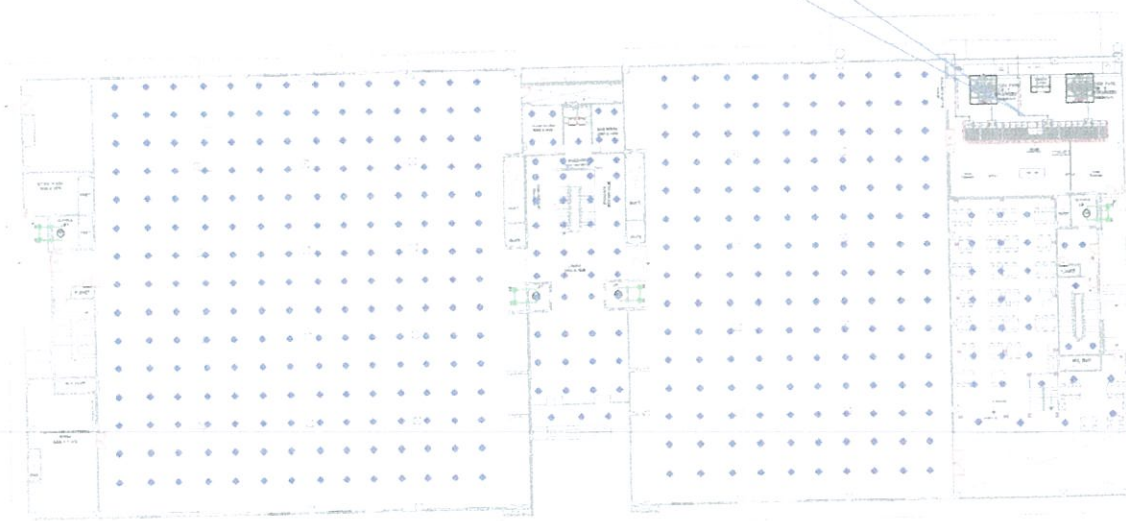
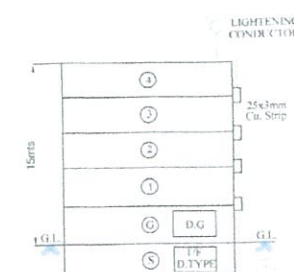
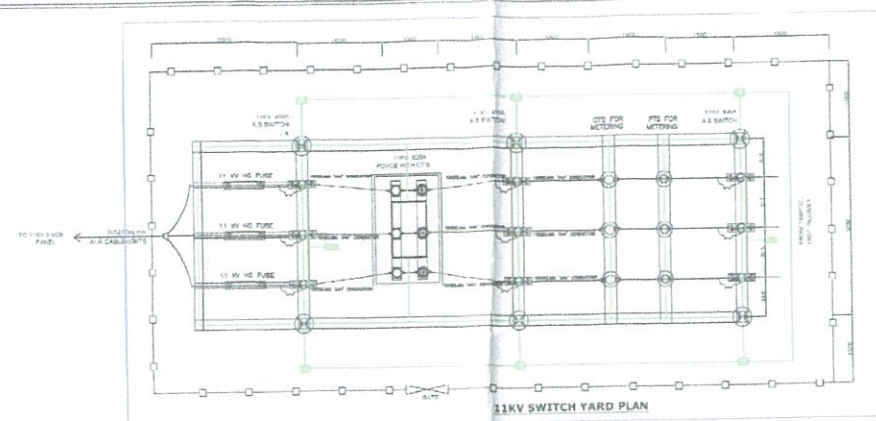
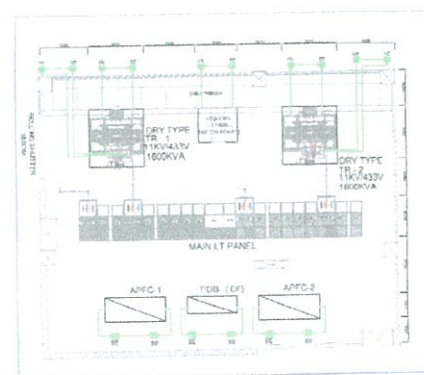
SY.NO: 234.  
THURKAPALLY (V), SHAMEERPET (M), MEDCHAL DISTRICT.

TITLE: 11KV SWITCH YARD

|       |            |       |        |
|-------|------------|-------|--------|
| DEALT |            | DRAWN | RAJESH |
| DATE  | 10.10.2023 |       |        |

|          |     |           |            |
|----------|-----|-----------|------------|
| SCALE    | NTS | DATE      | 10/10/2011 |
| DWG. NO: |     | SHEET NO: | 1 OF 1     |

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#### FASTING DETAILS

LPT0 7.5MP DOUBLE BARTELH WITH 5 SWG G2 WTRP  
 2.5MP G2 25MP DOUBLE BARTELH WITH 25 x 5mm G2 STRIP  
 2.5MP LPT 25MP DOUBLE BARTELH WITH 25 x 5mm G2 STRIP  
 ABOVE 40MP DOUBLE BARTELH WITH 40 x 5mm G2 STRIP  
 TRANSFORMER BODY DOUBLE BARTELH WITH 100 x 15mm G2 STRIP  
 TRANSFORMER NEUTRAL DOUBLE BARTELH WITH 100 x 15mm G2 STRIP  
 1 G1 G1 BURN DOUBLE BARTELH WITH 100 x 15mm G2 STRIP  
 G2 G1 NEUTRAL DOUBLE BARTELH WITH 100 x 15mm G2 STRIP  
 ALL BURN ELECTRODES ARE 100mm DIA x 3mm LENGTH C PIPE  
 10 DISTANCE MAINTAINED BETWEEN BURN ELECTRODES  
 DISTANCE MAINTAINED FROM WALL TO EACH ELECTRODES

LEGEND

-  : 1x60W TUBE FITTING
-  : 1 F0 FITTING
-  : CEILING FAN
-  : LIGHT PLUG
-  : POWER PLUG
-  : EXHAUST FAN
-  : CFL LAMP
-  : AC UNIT
-  : D B/PANEL



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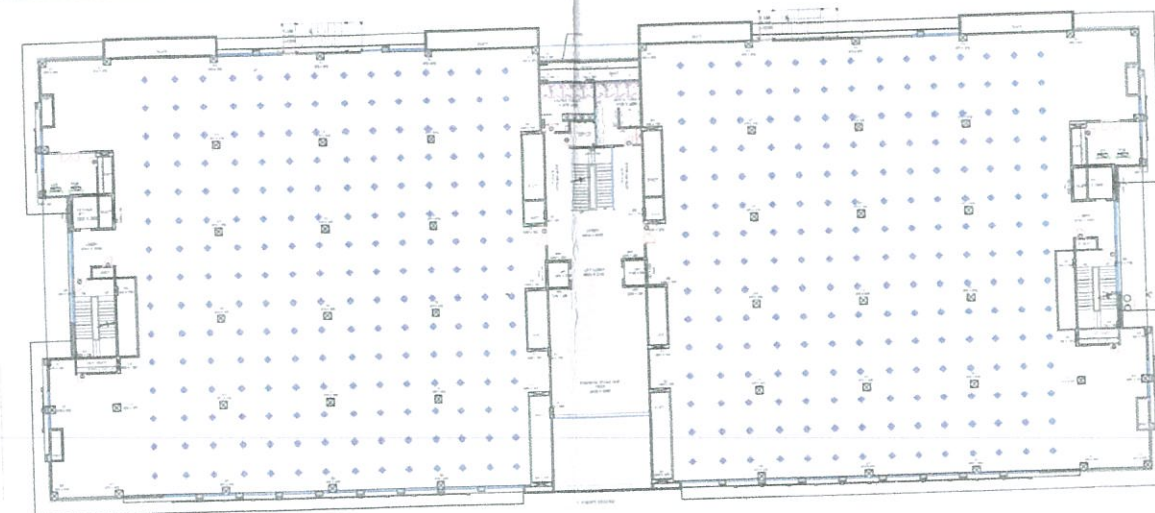
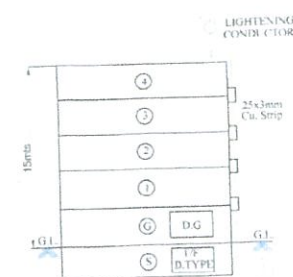
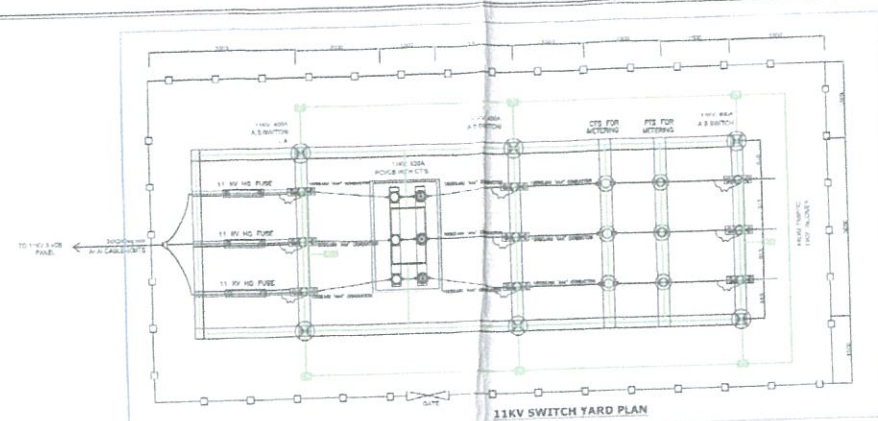
SY.NO: 234,  
THIRUKARALLY (V), SHAMEERPET (M), MEDICAL DISTRICT.

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TIRUKAPALLY (V), SHAMEERPET (M), MEDICAL DISTRICT.

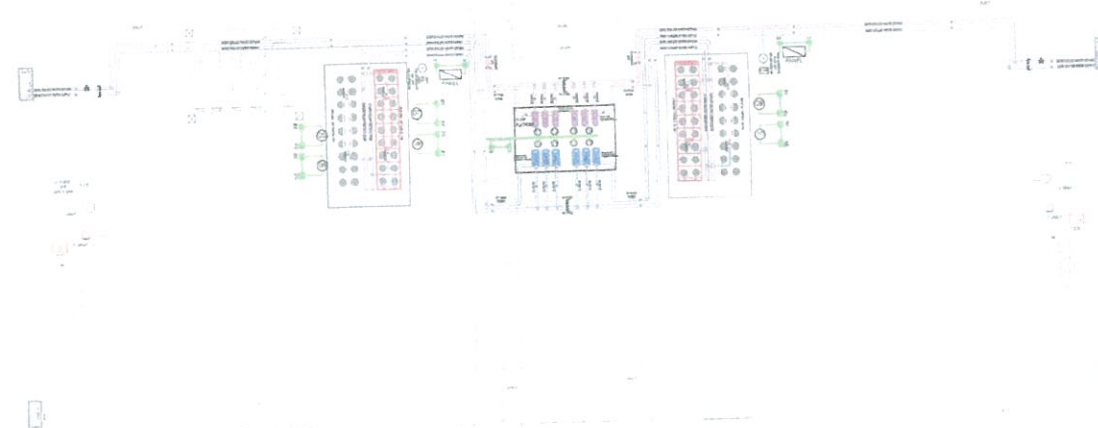
TITLE: PHYSICAL LAYOUT

|         |     |           |            |
|---------|-----|-----------|------------|
| DEALT   |     | DRAWN     | RAJESH     |
| SCALE   | NTS | DATE      | 10.10.2023 |
| DWG.NO. |     | SHEET.NO. | 1 OF 1     |

Chapter 20/10/2023



TYPICAL FLOOR PLAN  
(FIRST, SECOND THIRD FLOOR)



ROUTING DETAILS

1) TO 7.5HP DOUBLE EARTHED WITH 25 KG STRIP

2) 5HP TO 25HP DOUBLE EARTHED WITH 25 x 10MM GALV. STEEL

3) 25HP TO 50HP DOUBLE EARTHED WITH 25 x 10MM GALV STEEL

ABOVE 50HP DOUBLE EARTHED WITH 40 x 6MM GALV STEEL

TRANSFORMER, 50HP DOUBLE EARTHED WITH 100 x 10MM STEEL

TRANSFORMER, 100HP DOUBLE EARTHED WITH 100 x 10MM GALV. STEEL

100HP TO 150HP DOUBLE EARTHED WITH 100 x 10MM GALV. STEEL

150HP TO 200HP DOUBLE EARTHED WITH 100 x 10MM GALV STEEL

ALL CABLES EARTHED TO 100MM GA. 3MM LENGTH C STRIP

17 DISTANCES MAINTAINED BETWEEN EARTH ELECTRODES

1) DISTANCE MAINTAINED FROM WALL TO EARTH ELECTRODES

- LEGEND :**
- |                                                                                       |                    |
|---------------------------------------------------------------------------------------|--------------------|
|  | 1x40W TUBE FITTING |
|  | LED FITTING        |
|  | CEILING FAN        |
|  | LIGHT PLUG         |
|  | POWER PLUG         |
|  | EXHAUST FAN        |
|  | CFL LAMP           |
|  | AC UNIT            |
|  | D/B/PANEL          |



CLIENT:-  
M/S. G.V. DISCOVERY CENTRES PVT. LTD.  
SY.NO: 234,  
THIRUKKALLY (V), SHAMEERPET (M), MEDICAL DISTRICT.

|                        |     |           |            |       |
|------------------------|-----|-----------|------------|-------|
| TITLE: PHYSICAL LAYOUT |     |           |            |       |
| DEALT                  |     | DRAWN     | RAJESH     |       |
| SCALE                  | NTS | DATE      | 10.10.2023 | REV-0 |
| DWG.NO.                |     | SHEET.NO. | 1 OF 1     |       |