

**GOVERNMENT OF TELANGANA
ELECTRICAL INSPECTORATE
(An IS/ISO 9001: 2015 Certified Department)**



From

The Chief Electrical Inspector to Government,
Flat No.127 Block No.7,
New MLA Quarters,
Adarsh Nagar,
Hyderabad - 500 063
Phone No: 040-23453023

To

M/s: G.V. Research Centers Private Limited
Street: MG Road
H.No/D.No.: 542(P)/3
Sy. No.: 542(P)/3
(V): Kolthur
(M): Shamirpet
(D): Medchal
Pincode: 500101
Phone No: 9100126998

Lr.No.CEIG/TS/EI Ex. 650V/HT-MDL-2021-10595/D.No. 2431/2021 Dated: 13/12/2021

Sir,

Sub : The Electricity Act-2003 and Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2010 - Electrical Installation of Voltage Exceeding 650 V of M/s **G.V. Research Centers Private Limited, Kolthur Shamirpet Mandal Medchal District** - Approval of Drawings, submitted towards Design Approval- Under Section 54 of The Electricity Act-2003 and Regulation - **43(3)** of CEA (Measures relating to Safety and Electric Supply) Regulations, 2010 Accorded Regarding.

Ref:- 1) Management letter received dated **07/12/2021**

The drawings submitted for design approval are provisionally approved and valid up to **07/12/2022** 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. **15300 /- Fifteen Thousand Three Hundred** .

After completing the installation to your satisfaction, you are requested to submit the reports for inspection under Regulation **43(3)** of Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2010.

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 confirm to the relevant provisions of Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2010 and Bureau of Indian Standards specifications.

Yours faithfully

(Signature)
**for CHIEF ELECTRICAL INSPECTOR
TO GOVERNMENT**

Provisionally approved subject to the compliance of the following conditions.

I. TRANSFORMERS:

1. (a) Transformer Bodies shall be double earthed with 100 x 10 mm G.I. flats and they shall be connected to two separate and independent Earth Electrodes.

(b) Transformer neutrals shall be double earthed with 100 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. Baffle walls shall be constructed between the Transformers.
4. Bus ducts shall be provided on the secondary side of the Transformer for the Transformers of capacity 750 KVA and above.
6. A safety working clearance of 2.6 Mtrs. Shall be maintained between H.V. Equipment in 11 KV Sub-Station.
7. Only dry type Transformers shall be used for installations inside the buildings.
8. Except control panels, it shall be kept open above the Transformer Room.
9. 100 mm C.I pipes shall be used as earth electrodes for earthing of H.V. equipment in 11 KV Sub-station.
10. (i) Two Runs of 50 x 6 mm G.I. flats shall be run along all the cable trays and they shall be connected to earth at regular intervals.

(ii) Over loading of cable trays shall be avoided by providing additional cable trays.
11. Maximum transformer rating for outdoor type oil immersed distribution transformer is 2000KVA, 11KV as per IS1180(Part 1):2014 and BIS certification of transformers shall be submitted to this office.

P.T.O.

II. MACHINERY SECTION:

1. Two runs of 50 x 6 mm GI flats shall be run around the machinery. All the motors, starters, switches, panels, PDBS, SDBS and LDBS shall be double earthed with adequate size of GI flats/wires and they shall be connected to the main earth bus.
2. For the motors which are more than 15' away or out of sight from the control panel 2nd isolator shall be fixed locally nearer to such motor. In case of local emergency switches, the 'OFF' push button switches shall be provided with LOCK and KEY arrangement.

III. GENERATORS:

1. (a) Two separate and independent earth connections shall be provided to the body of the Generator with 100 x 10 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 100 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 as per the provisions of Rule 45 of Indian Electricity Rules, 1956.

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. (1) The earth wires used for earthing of lighting circuits shall be properly connected by using suitable connectors.
- (2) Earth Leakage circuit Breakers shall be provided for the Lighting circuits, exceeding a load of 5 KW.
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.

for *Chait*
13/12/2024
**CHIEF ELECTRICAL INSPECTOR
TO GOVERNMENT**