

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: Crescentia Labs Private Limited
Street: 5-4-187/3 & 4
H.No/D.No.: 230 to 243, Plot No-15-B
Sy. No.: 230 to 243, Plot No-15-B
(V): Turkapally
(M): Shamirpet
(D): Medchal
Pincode: 500101
Phone No: 9100126998

Lr.No.CEIG/TG/EI Ex. 650V/HT-MDL-2024-10389/D.No. 1919/2024 Dated: 25/07/2024

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 **Crescentia Labs Private Limited, 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 **22/07/2024**

The drawings submitted for design approval are provisionally approved and valid up to **22/07/2025** 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. **20100 /- Twenty Thousand One 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 confirm 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

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.

Dayat
25/3/2024
**CHIEF ELECTRICAL INSPECTOR
TO GOVERNMENT**