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

भारतीय मानक ब्यूरो IS / ISO 9001
BUREAU OF INDIAN STANDARDS QMS

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. 2287/**2024** Dated: 23/08/2024

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 - Statutory 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.

Ref:- 1) Inspection Dated **21/08/2024**

2) Your Lr. received on dated., 23/08/2024

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Under Section 54 of The Electricity Act-2003 and Regulations **45(3)** of Central Electricity Authority (Measures relating to Safety and Electric Supply)Regulations,2023, the following equipment of your Electrical Installation of voltage Exceeding 650V are approved for energisation.

AS PER ANNEXURE ENCLOSED.

Under Regulation 45(6) of Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2023, any additions or alteration in your installation shall not be connected to supply until the same are approved in writing by this office and offer for annual inspection under Regulation 32 of Central Electricity Authority(Measures relating to Safety and Electric Supply)Regulations, 2023 every year to the concerned Deputy Electrical Inspector.

Under Regulation 15(4), 48(7) of Central Electricity Authority(Measures relating to Safety and Electric Supply)Regulations, 2023, you are at all times solely responsible for the maintenance of the above installation on such condition as to be free from danger.

The above approval accorded is without prejudice to the statutory/ mandatory obligations to be fulfilled by you under various other acts and rules as the case may be. The approval accorded for energizing the electrical equipment is the safety for men and machine from electrical hazards in your installation and ipso facto does not confer any right to be used for any other purpose other than for which the approval is accorded.

Yours faithfully

23/8/24

CHIEF ELECTRICAL INSPECTOR
TO GOVERNMENT

Encl:- List of Load Particulars

Annexure to Lr.No.CEIG/TG/EI-Ex 650V/HT-MDL-2024-10389/D.No: /2024,
Dt: -08-2024.

M/s Crescentia Labs Private Limited, Turkapally (V), Shamirpet (M), Medchal District.

S.No.	Name of the Equipment	Details of the equipment.
I.	**H.V. INSTALLATION (11 KV)**	
1.	VCBs	Make:- ABB Cap : 800A,12 KV S.No:- 1VYN020924000244, 1VYN020924000247, 1VYN020924000245 Qty : 3 Nos
2.	Transformers- 1 & 2	Make:- Voltamp Cap: 1600 KVA,11 KV/433 V S.No:- JNC 65835/1, JNC 65835/2
II.	**M.V. INSTALLATION (415V)**	
1.	MV Load	678.2 KW,415V
2.	Capacitor	1000 KVAR,415V
3.	Generators- 1,2	Make:- Leroy-Somer Cap: 1500 KVA,415 V S.No:- LGS3L824C45925, LGS3L824B01591
III.	**L.V. INSTALLATION.(230V)**	
1.	Lighting Load	10 KW,230V
3.	LV Load	10 KW, 230V

23/8/24

CHIEF ELECTRICAL INSPECTOR
TO GOVERNMENT.

23/08/24

CRESCENTIA LABS PVT.LTD.

P.NO: 15B, SY.NO: 230 TO 240, TURKAPALLY VILLAGE, SHAMEERPET MANDAL, MEDCHAL DISTRICT.

M.V. LOAD DETAILS

SI.NO	M/C NAME	MAKE	SI.NO:	KW	VOLTS
1	Air Cooled Chiller - 1 Compressor - 1	Blue Star	LCA2-400X59X59HAXI00001	110	415
2	Air Cooled Chiller - 1 Compressor - 2	Blue Star	LCA2-400X59X59PAXI00001	110	415
3	Air Cooled Chiller - 2 Compressor - 1	Blue Star	LCA2-400X59X59HBXI00002	110	415
4	Air Cooled Chiller - 2 Compressor - 2	Blue Star	LCA2-400X59X59HBXI00002	110	415
5	Booster Pump - 1	Kirloskar	A24AVPO00538	9.3	415
6	Booster Pump - 2	Kirloskar		9.3	415
7	Chilled Water Pump - 1	Siemens	KW21026537012151	37	415
8	Chilled Water Pump - 2	Siemens	KW21026531190953	37	415
9	Chilled Water Pump - 3	Siemens	KW21026590015354	37	415
10	Fire Hydrant Pump	Kirloskar	KML290/XV-69	45	415
11	Fire Hydrant Pump	Kirloskar	KML290/XV-124	45	415
12	Jocky Pump	Kirloskar	KML278-35	9.3	415
13	Jocky Pump	Kirloskar	KML278-49	9.3	415
	TOTAL			678.2	

LV LOAD DETAILS

S.NO.	DESCRIPTION	WATTS		NUMBERS	WATTS OR KW
1	6A Sockets	125	X	40	5000
2	16A Sockets	500	X	10	5000
	TOTAL				10000W OR 10KW

LIGHTING LOAD DETAILS

S.NO.	DESCRIPTION	WATTS		NUMBERS	WATTS OR KW
1	LED	40	X	125	5000
2	LED	12	X	200	2400
3	LED	8	X	325	2600
	TOTAL				10000W OR 10KW

TOTAL EQUIPMENT LOAD DETAILS

SI.NO	EQUIPMENT NAME	MAKE	SI.NO	CAPACITY	VOLTS
1	TRANSFORMER	VOLTAMP TRANSFORMER	65835/1	1600KVA	11000/433V
2	TRANSFORMER	VOLTAMP TRANSFORMER	65835/2	1600KVA	11000/433V
3	VCB - 1	ABB	1VYN020924000244	800A	12KV
4	VCB - 2	ABB	1VYN020924000247	800A	12KV
5	VCB - 3	ABB	1VYN020924000245	800A	12KV
6	GENERATOR	LEROY SOMER	LGS3L824C45925	1500KVA	415V
7	GENERATOR	LEROY SOMER	LGS3L824B01591	1500KVA	415V

TOTAL CONNECTED LOAD DETAILS		
S.NO.	EQUIPMENT NAME	CAPACITY
1	Transformer	1600KVA, 11000/433V
2	Transformer	1600KVA, 11000/433V
3	Generator	1500KVA, 415V
4	Generator	1500KVA, 415V
	MV LOAD	
1	MOTORS LOAD	678.2KW
2	CAPACITOR	1000KVAR
	LV LOAD	
1	LIGHTING LOAD	10KW
2	LV LOAD	10KW

For CRESCENTIA LABS PVT.LTD.

Rahit Varma

(Authorized Signatory)

For RAJESH TECHNICAL SERVICES

A. Rajesh

LIC NO. A/4870 1-1247

VALID FROM 04-04-2023 to 03-04-2026

APPROVED

S. Venkat - E

23/8/24

Chief Electrical Inspector to Govt.

VOLTAMP TRANSFORMERS LIMITED
UNIT - II , VADADALA, SAVALI, VADODARA 391520
Phone : +91 9374648493 / 8513 / 8522
Fax : +91 2667 251250
Email ID : voltamp@voltamptransformers.com

Format No. TST/F/10

TRANSFORMER Sr.No. JNC 65835/1

CAST RESIN DRY TYPE TRANSFORMER

Customer : Crescentia Labs Pvt. Ltd, Hyderabad
PO No. / Date : 20231219053 Dated 19.12.2023
Project : GV One, Hyderabad.

ROUTINE TESTS

Date of Testing : 18.04.2024

KVA : 1600 Voltage Ratio : 11000 / 433 Volts Vector Group : Dyn11
% Tappings : + 5 % to - 15 % in Step of 1.25 % IS : 11171 / 2026 - Up to Date

1 MEASUREMENT OF WINDING RESISTANCE AT 36.1 ° C

H.V. Winding in "mΩ". At Tap No			5				L.V. Winding in "mΩ" :		
Between	1U1V	=	504.95				Between	2u2v	= 0.5516
	1V1W	=	504.95					2v2w	= 0.5514
	1W1U	=	505.10					2w2u	= 0.5632

2 MEASUREMENT OF SHORT CIRCUIT IMPEDANCE & LOAD LOSSES : Tested at 36.2 °C on HV Side

C.T. Ratio = C = 100 / 1 = 100 P.T.Ratio = P = 660 / 110 = 6

Tap No	Current X C			Imp Voltage x P x √3			Wattmeter Reading			Total M.F. = C X P	(W1+W2+W3) X M.F	Load Loss in Watts
	Ir	Iy	Ib	Vrn	Vyn	Vbn	W1	W2	W3			
5	0.8404	0.8463	0.8347	61.67	61.87	61.43	6.23	6.54	6.41	600	19.18 X 600	11508

3 MEASUREMENT OF NO-LOAD LOSS & CURRENT : Tested at 433 Volts on LV side.

C.T. Ratio = C = 50 / 1 = 50 P.T.Ratio = P = 660 / 110 = 6

% V	Voltage x P x √3		No Load Current X C			Wattmeter Reading			Total M.F. = C X P	(W1+W2+W3) X M.F	No Load Loss in Watts
	Vmean (n)	Vrms (n)	Ir	Iy	Ib	W1	W2	W3			
100	41.66	41.83	0.1523	0.1184	0.1463	3.48	2.27	2.14	300	7.89 X 300	2367

4 INDUCED OVER VOLTAGE TEST : Tested on LV Side
Applied 2 x 433 Volts at 125 Cycles/Secs. And withstood for 50 Secs.

5 SEPARATE SOURCE VOLTAGE TEST :
(A) Applied 28 kV Between HV winding to L.V. Winding & Earth and withstood for 60 secs. (LC - 22.0mA)
(B) Applied 3 kV Between LV winding to H.V. Winding & Earth and withstood for 60 secs. (LC - 4.6mA)

6 INSULATION RESISTANCE TEST :- AT 36.1 ° C (For Reference Only)
(a) H.V. winding to Earth 148000 MΩ (With 5.0kV Megger)
(b) L.V. Winding to Earth 265000 MΩ (With 1.0kV Megger)
(c) H.V. winding to L.V. Winding 281000 MΩ (With 5.0kV Megger)

ACCEPTED
J. Rawat - E
23/04/24
Chief Electrical Inspector

7 TURNS RATIO TEST :-

Tap Position No.					Refer Sheet 2 of 2							
U/u Phase												
V/v Phase												
W/w Phase												

8 POLARITY PHASE RELATIONSHIP (VECTOR GROUP) CHECKED : FOUND OK Dyn11

Witnessed By :

Tested by :

VOLTAMP TRANSFORMERS LTD.

Shruti Jaiswal
Crescentia Labs Pvt. Ltd

Ramesh Reddy
GV Discovery Centre Pvt. Ltd.

Rajendra Chauhan
Voltamp Transformers Ltd.

VOLTAMP TRANSFORMERS LIMITED
UNIT - II , VADADALA, SAVALI, VADODARA 391520
Phone : +91 9374048493 / 8513 / 8522
Fax : +91 2667 251250
Email ID : voltamp@voltamptransformers.com

Format No. TST/F/10

TRANSFORMER Sr.No. JNC 65835/2

CAST RESIN DRY TYPE TRANSFORMER

Sheet 1 of 2

Customer : Crescentia Labs Pvt. Ltd, Hyderabad
PO No. / Date : 20231219053 Dated 19.12.2023
Project : GV One, Hyderabad.

ROUTINE TESTS

Date of Testing : 18.04.2024

KVA : 1600 Voltage Ratio : 11000 / 433 Volts Vector Group : Dyn11
% Tappings : + 5 % to - 15 % in Step of 1.25 % IS : 11171 / 2026 - Up to Date

1 MEASUREMENT OF WINDING RESISTANCE AT 36.4 ° C

H.V. Winding in "mΩ" At Tap No.		5	L.V. Winding in "mΩ"		
Between 1U1V	=	504.10	Between 2u2v	=	0.5502
1V1W	=	504.05	2v2w	=	0.5468
1W1U	=	503.95	2w2u	=	0.5594

2 MEASUREMENT OF SHORT CIRCUIT IMPEDANCE & LOAD LOSSES : Tested at 36.2 °C on HV Side

C.T. Ratio = C = 100 / 1 = 100 P.T.Ratio = P = 660 / 110 = 6

Tap No.	Current X C			Imp Voltage x P x √3			Wattmeter Reading			Total M.F. = C X P	(W1+W2+W3) X M.F	Load Loss in Watts
	Ir	Iy	Ib	Vrn	Vyn	Vbn	W1	W2	W3			
5	0.8431	0.8483	0.8308	61.29	61.33	60.95	5.90	6.65	6.32	600	18.87 X 600	11322

3 MEASUREMENT OF NO-LOAD LOSS & CURRENT : Tested at 433 Volts on LV side.

C.T. Ratio = C = 50 / 1 = 50 P.T.Ratio = P = 660 / 110 = 6

% V	Voltage x P x √3		No Load Current X C			Wattmeter Reading			Total M.F. = C X P	(W1+W2+W3) X M.F	No Load Loss in Watts
	Vmean (n)	Vrms (n)	Ir	Iy	Ib	W1	W2	W3			
100	41.66	41.80	0.1638	0.1311	0.1604	3.50	2.28	2.13	300	7.91 X 300	2373

4 INDUCED OVER VOLTAGE TEST : Tested on LV Side

Applied 2 x 433 Volts at 124.6 Cycles/Secs. And withstood for 50 Secs.

5 SEPARATE SOURCE VOLTAGE TEST :

(A) Applied 28 kV Between HV winding to L.V. Winding & Earth and withstood for 60 secs. (LC - 20.9mA)
(B) Applied 3 kV Between LV winding to H.V. Winding & Earth and withstood for 60 secs. (LC - 4.5mA)

6 INSULATION RESISTANCE TEST :- AT 36.1 ° C (For Reference Only)

(a) H.V. winding to Earth 142000 MΩ (With 5.0kV Megger)
(b) L.V. Winding to Earth 202000 MΩ (With 1.0kV Megger)
(c) H.V. winding to L.V. Winding 399000 MΩ (With 5.0kV Megger)

ACCEPTED
Chief Electrical Inspe
23/4/24

7 TURNS RATIO TEST :-

Tap Position No.					Refer Sheet 2 of 2							
U/u Phase												
V/v Phase												
W/w Phase												

8 POLARITY PHASE RELATIONSHIP (VECTOR GROUP) CHECKED : FOUND OK Dyn11

Witnessed By :

Tested by :

Shruti Jaiswal
Crescentia Labs Pvt. Ltd

Ramesh Reddy
GV Discovery Centre Pvt. Ltd.

Rajendra Chauhan
Voltamp Transformers Ltd.