## 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

M/s: G V RESEARCH CENTERS PRIVATE

LIMITED

To

Street: BIOTECH PARK

Sy. No.: 542p/3

(V): Kolthur

(M): Shamirpet

(D): Medchal

Pincode: 500101, Phone No: 9100126998

Lr.No.CEIG/TS/EI Ex. 650V/359/D.No. 932/2023 Dated: 29/04/2023

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 - Statutory Approval under Section 54 of the Electricity Act-2003 and Regulation - 43(4) of CEA (Measures Relating to Safety and Electric Supply), Regulations 2010 Accorded.

Ref:- 1) Inspection Dated 27/04/2023

2) Your Lr. received on dated., 29/04/2023

Under Section 54 of The Electricity Act-2003 and Regulations **43(4)** of Central Electricity Authority (Measures relating to Safety and Electric Supply)Regulations,2010, the following equipment of your Electrical Installation of voltage Exceeding 650V are approved for energisation.

#### AS PER ANNEXURE ENCLOSED.

Under Regulation 43(4) of Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2010, 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 30 of Central Electricity Authority(Measures relating to Safety and Electric Supply)Regulations, 2010 every year to the concerned Deputy Electrical Inspector.

Under Regulation 13(4), 46(7) of Central Electricity Authority(Measures relating to Safety and Electric Supply)Regulations, 2010, 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

CHIEF ELECTRICAL INSPECTOR

23 TO GOVERNMENT

Encl:- List of Load Particulars

Annexure to Lr.No.CEIG/TS/EI-Ex 650V/HT-MDL-2021-10595/D.No 432 /2023, Dt. 29-04-2023. M/s G V Research Centers Pvt Ltd Sy No: 543(P)/3, Biotech Park, Kolthur (V), Shameerpet (M), Medchal District Telangana – 500101

Existing Load Particulars	8	Make:ABB Cap:1250 A, 36 KV Sl.No: 1VYN020221003458, 1VYN020221003466, Qty No:02	Ma Ca <sub>j</sub> Sl.I 1V	2011 To	Ma. SNr. Car	106	1000 KVAR, 415 V 500	Make: Stamford SI.No: N21H335959 Cap: 2250 KVA, 415 V
Additional Load			Make:ABB Cap:1250 A, 36 KV Sl.No: 1VYN020223001081		Make:- Esenar SNo:- ET2-8152 Cap.: 2500 KVA, 33 KV/433 V	1064.2 KW, 415 V	500 KVAR, 415 V	
Deleted			3					
Total Load	navorddw	Make: ABB Cap: 1250 A, 36 KV Sl. No: 1VYN020221003458, 1VYN020221003466, Qty No: 02	Make:ABB Cap:1250 A, 36 KV Sl.No: 1VYN020223001081	Make:- Esenar SNo:- ET2-6960 Cap.: 2500 KVA, 33 KV/433 V	Make:- Esenar SNo:- ET2-8152 Cap.: 2500 KVA,	2239.6 KW, 415 V	1500 KVAR, 415 V	Make: Stamford SI.No: N21H335959 Cap: 2250 KVA, 415 V

	Make: NORM Sl.No: P217503	Cap: 250 KVA, 415 V	Make: Stamford Sl.No: N22I351409	Cap: 2250 KVA,415 V	4 .	40 KW, 230V	60 KW, 230 V	O. Prince	CHIEF ELECTRICAL INSPECTOR	TO GOVERNMENT.	
								Gov		Telang	
		34.1	Make: Stamford Sl.No: N22I351409 Cap: 2250 KVA 415 V		20 KW, 230 V	30 KW, 230 V	SH INS	100 M			Standard Standard Standard
Make: NORM	Sl.No: P217503 Cap: 250 KVA 415 V				20 KW, 230V	30 KW, 230 V					
Generator-II	The state of the s	Generator-III		(230V)	1. Lighting Load	2. LV Load				THE PARTY OF THE P	

# G.V. RESEARCH CENTERS PVT.LTD.

SY.NO: 543(P)/3, BIOTECH PARK, KOLTHUR VILLAGE, SHAMEERPET MANDAL, MEDCHAL DISTRICT.

SI.NO		ADDIT	IONAL M.V. LOAD DET.	AILS	
1	M/C NAME	MAKE	SI.NO:	KW	VOLTS
1	Water Chiller HVAC (CHW - 01)	Blue star	LVI00001		415
a)	Compressor - 1	Blue star	A2617A700479	215	415
b)	Compressor - 2	Blue star	A2617A700481	215	415
2	Water Chiller HVAC (CHW - 01)	Blue star	LVI00002		415
a)	Compressor - 3	Blue star	A2617A800494	215	415
b)	Compressor - 4	Blue star	A2617A700476	215	415
3	Lift - 3	Johnson	94567843	7.5	415
4	Lift - 4	Rosh Elevators	92568	7.5	415
5	Lift - 5	Johnson		7.5	415
6	Booster Pump - 3	Kirloskar	A23AVP000303	9.5	415
7	Chilled Water Pump - 6 (HVAC)	Armstrong	221280799206	18.5	415
8	Chilled Water Pump - 7 (HVAC)	Armstrong	221280799208	18.5	415
9	Chilled Water Pump - 8 (HVAC)	Armstrong	221280799209	18.5	415
10	Chilled Water Pump - 9 (HVAC)	Armstrong	221280798616	30	415
11	Chilled Water Pump - 10 (HVAC)	Armstrong	221280798554	30	415
12	Chilled Water Pump - 11 (HVAC)	Armstrong	221280798620	30	415
13	Blower - 3	Airwak	22110760	2.2	415
	TOTAL			1039.7	
		L	V LOAD DETAILS		
s No. T	PECCEPITION	RAW P	V LOAD DETAILS OWER LOAD DETAILS	I	I
-	DESCRIPTION	RAW P WATTS	OWER LOAD DETAILS	NUMBERS	WATTS OR KW
1	6A Sockets	RAW P WATTS 125	OWER LOAD DETAILS  X	100	12500
-	6A Sockets 16A Sockets	RAW P WATTS	OWER LOAD DETAILS		12500 17500
1	6A Sockets	RAW P WATTS 125	OWER LOAD DETAILS  X	100	12500 17500
1	6A Sockets 16A Sockets	RAW P WATTS 125 500	X X	100	12500
1 2	6A Sockets 16A Sockets	RAW P WATTS 125 500	OWER LOAD DETAILS  X	100 35	12500 17500 30000W OR 30KW
1 2	6A Sockets 16A Sockets TOTAL	RAW P WATTS 125 500 LIGH	X X	100	12500 17500
1 2 S.NO.	6A Sockets 16A Sockets TOTAL  DESCRIPTION	RAW P WATTS  125 500  LIGHT WATTS	X X X TING LOAD DETAILS	100 35 NUMBERS	12500 17500 30000W OR 30KW
1 2 S.NO.	6A Sockets 16A Sockets TOTAL  DESCRIPTION LED	RAW P WATTS  125 500  LIGHT WATTS  30	X X X TING LOAD DETAILS	100 35 NUMBERS 250	12500 17500 30000W OR 30KW WATTS OR KW 7500
2	6A Sockets 16A Sockets TOTAL	RAW P WATTS 125 500 LIGH	X X	100 35	12500 17500 30000W OR 30K
1 2 S.NO.	6A Sockets 16A Sockets TOTAL  DESCRIPTION	RAW P WATTS  125 500  LIGHT WATTS	X X X TING LOAD DETAILS	100 35 NUMBERS	12500 17500 30000W OR 30KV WATTS OR KW
1 2 S.NO. 1 2	6A Sockets 16A Sockets TOTAL  DESCRIPTION LED LED	RAW P WATTS  125 500  LIGH WATTS  30 18	X X X TING LOAD DETAILS X X	100 35 NUMBERS 250 550	12500 17500 30000W OR 30KV WATTS OR KW 7500 9900
1 2 S.NO. 1 2	6A Sockets 16A Sockets TOTAL  DESCRIPTION LED LED	RAW P WATTS  125 500  LIGH WATTS  30 18	X X X TING LOAD DETAILS X X	100 35 NUMBERS 250 550	12500 17500 30000W OR 30KV WATTS OR KW 7500 9900

SI.NO:

N221351409

CAPACITY: 2250KVA

MAKE: Cummins (Jackson)

EXISTING LOAD: MV 1175.4KW + LV 30KW + LL 20KW + CAPACITOR 1000KVAR + D.G. SET 2250KVA, 415V + 250KVA, 415V

TRANSFORMER 2500KVA, 33000/433V

ADDITIONAL LOAD: MV 1064.2KW + LV 30KW + LL 20KW + CAPACITOR 500KVAR + D.G. SET 2250KVA, 415V +

TRANSFORMER 2500KVA, 33000/433V

TOTAL LOAD: MV 2239.6KW + LV 60KW + LL 40KW + CAPACITOR 1500KVAR + D.G. SET 2250KVA, 415V X 2 NOS + 250KVA, 415V

TRANSFORMER 2500KVA, 33000/433V X 2NOS

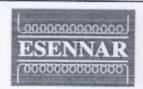
For G.V. RESEARCH CENTERS PARTITION

(Authorized Signatory)

APPROVED

Chief Electrical
Inspector to Govt.

29/4/23 DEP



## **ESENNAR TRANSFORMERS PRIVATE LIMITED** TRANSFORMER TESTING LABORATORY

ESENNAR TRANSFORMERS PRIVATE LIMITED, Office & Works: Plot No. 2, Phase - I IDA, Pashamailaram, Sanga Reddy (Dist) - 502307, Telangana State India, Cell: 9912347123



#### TEST REPORT

Date of Issue of report

28-02-2023

ULR No.

TC978323000000122F

Discipline

**Electrical Testing** 

Sample ID.

ETPL/2023/0091

Group

**Inductors and Transformers** 

Report No

ETPL/TR/2023/0122 27-02-2023

Date of sample receipt Condition of the test item

Good

Date of Testing

27-02-2023

Customer Name, Contact No. & Address

JAWED-9912347107, MARKETING-ESENNAR TRANSFORMERS PVT LTD.

End Customer Name & Address

M/s.innopolis,Sy no-542, Genome Valley,Thurkapally, Hyderabad, Telangana.

Contractor

M/S. GV RESEARCH CENTERS PVT LTD.

DETAILS OF THE TRANSFORMER ( As per IS 1180 : PART - 1, Amendement No.4 March-2021)

kVA Rating

2500

S.L.No/W.O No.

ET2-8152

Rated voltage at no-load HV/LV

33000/433 Volts

Rated current - HV/LV

43.74/3333.53 Amps

**Energy Efficency level** 

**Vector Group** 

Dyn11

Type of Transformer

in steps of

Oil Immersed

Guaranteed Temperature rise No. of Phases

40/45 °C

Frequency

50 Hz

Type of Cooling

ONAN

Winding Material

Copper

1.25%

Tap changer

On-load tap changer

Tappings on HV side

10% to - 10%

Max. Total Losses at 50% load at 75°C Max. Total Losses at 100% load at 75°C

6343(MAX) Watts : 18813(MAX) Watts

Percentage Impedance at 75°C Basic Insulation level of H.V

170 kVp / 70 kVrms - kVp / 3 kVrms

6.25% ± IS Tol

Basic Insulation level of L.V Year of manufacturing

2023

PARTICULARS OF TEST CONDUCTED

5.No.	Test Details	Test Specifications-IS 1180: 2014 With Amendment
. 1	Measurement of voltage ratio and check of phase displacement	As Per Cl.no.21.2.(b) of IS 1180 (Part-1) : 2014
2	Measurement of insulation resistance	As Per Cl.no.21.2.(e) of IS 1180 (Part-1): 2014
3	Measurement of no-load loss and current	As Per Cl.no.21.2.(d) of IS 1180 (Part-1): 2014
4	Measurement of short circuit Impedance and load loss at 50 percent and 100 percent load	As Per Cl.no.21.2.(c) of IS 1180 (Part-1) : 2014
5 -	Measurement of winding resistance	As Per Cl.no.21.2.(a) of IS 1180 (Part-1): 2014
6	Separate-source voltage withstand test	As Per Cl.no.21.2.(g) of IS 1180 (Part-1): 2014
7	Induced over-voltage withstand test	As Per Cl.no.21.2.(f) of IS 1180 (Part-1): 2014
8	Breakdown Voltage of oil	IS 335-2018,IS 6792-2017, IS 1866-2017
9 -	Total loss at 50 percent load & 100 percent load	As Per Cl.no.7.8 of IS 1180 (Part-1): 2014

### Remarks:

The Transformer conforms to the guaranteed requirement as per mentioned test specification for above mentioned tests. Note:

1. This report relates only to the particular sample tested

2. Only the tests asked by the customer have been carried out.

This report cannot be reproduced in part under in any circumstances.

4. Laboratory is responsible for reported test results and all other information is recived in lateral customer.

REVIEWED & AUTHORISED BY:

-death.

(Mahesh G) DGM-ETPL

TESTED BY:

Chief Electrical Inspector to Con

(CH Sambasivarao) Testing Engineer-ETPL