

GOVERNMENT OF TELANGANA
ELECTRICAL INSPECTORATE
ISO 9001: 2015 Certified Department
To
M/s/
LIMITED
Street
Sy. N



Pincode: 500101 , Phone No: 9100126998

Encl:- List of Load Particulars

S.No.	Details of the Equipment	Existing Load Particulars..	Additional Load	Deleted Load	Total Load Approved
I.	H.V. INSTALLATION (11 KV)				
1.	VCBs	Make:ABB Cap:1250 A, 36 KV Sl.No: 1VYN020221003458, 1VYN020221003466, Qty No:02	.....	.....	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:ABB Cap:1250 A, 36 KV Sl.No: 1VYN020223001081
1.	Transformer -1	Make:- Esenar SNo:- ET2-6960 Cap.: 2500 KVA, 33 KV/433 V.	.....	.....	Make:- Esenar SNo:- ET2-6960 Cap.: 2500 KVA, 33 KV/433 V.
	Transformer -1	.....	Make:- Esenar SNo:- ET2-8152 Cap.: 2500 KVA, 33 KV/433 V	.....	Make:- Esenar SNo:- ET2-8152 Cap.: 2500 KVA, 33 KV/433 V
II.	M.V. INSTALLATION (415V)				
1.	MV Load	1175.4 KW, 415 V	1064.2 KW, 415 V	.....	2239.6 KW, 415 V
2.	Capacitors	1000 KVAR, 415 V	500 KVAR, 415 V	.....	1500 KVAR, 415 V
3.	Generator	Make: Stamford Sl.No: N21H335959 Cap: 2250 KVA , 415 V	.....	.....	Make: Stamford Sl.No: N21H335959 Cap: 2250 KVA , 415 V

Generator-II	Make: NORM Sl.No: P217503 Cap: 250 KVA , 415 V	.....	.....	Make: NORM Sl.No: P217503 Cap: 250 KVA , 415 V
Generator-III	.....	Make: Stamford Sl.No: N22I351409 Cap: 2250 KVA , 415 V	.....	Make: Stamford Sl.No: N22I351409 Cap: 2250 KVA , 415 V
III. L.V. INSTALLATION. (230V)				
1. Lighting Load	20 KW, 230V	20 KW, 230 V	.....	40 KW, 230V
2. LV Load	30 KW, 230 V	30 KW, 230 V		60 KW, 230 V



S. Nini-8/4/23

CHIEF ELECTRICAL INSPECTOR
TO GOVERNMENT.

29/4/23
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G.V. RESEARCH CENTERS PVT.LTD.

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

ADDITIONAL M.V. LOAD DETAILS

SI.NO	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	LVJ00002		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	

LV LOAD DETAILS

RAW POWER LOAD DETAILS

S.NO.	DESCRIPTION	WATTS		NUMBERS	WATTS OR KW
1	6A Sockets	125	X	100	12500
2	16A Sockets	500	X	35	17500
TOTAL					30000W OR 30KW

LIGHTING LOAD DETAILS

S.NO.	DESCRIPTION	WATTS		NUMBERS	WATTS OR KW
1	LED	30	X	250	7500
2	LED	18	X	550	9900
3	LED	15	X	174	2610
TOTAL					20000W OR 20KW

TRANSFORMER DETAILS

MAKE: Essenar

SI.NO: ET2-8152

CAPACITY: 2500KVA

D.G. SET DETAILS

MAKE: Cummins (Jackson)

SI.NO: N221351409

CAPACITY: 2250KVA

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

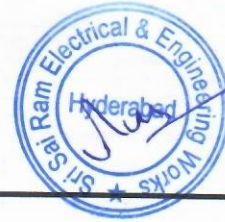
TRANSFORMER 2500KVA, 33000/433V X 2NOS

For G.V. RESEARCH CENTERS PVT.LTD.

(Authorized Signatory)



APPROVED



P. Hani - S
29/4/23
Chief Electrical
Inspector to Govt.

cc
29/4/23
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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



TC-9783

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
 Date of sample receipt : 27-02-2023
 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
 Vector Group : Dyn11 Energy Efficiency level : 2
 Guaranteed Temperature rise : 40/45 °C Type of Transformer : Oil Immersed
 No. of Phases : 3 Frequency : 50 Hz
 Type of Cooling : ONAN Winding Material : Copper
 Tap changer : On-load tap changer
 Tappings on HV side : 10% to - 10% in steps of 1.25%
 Max. Total Losses at 50% load at 75°C : 6343(MAX) Watts
 Max. Total Losses at 100% load at 75°C : 18813(MAX) Watts
 Percentage Impedance at 75°C : 6.25% ± IS Tol
 Basic Insulation level of H.V : 170 kVp / 70 kVrms
 Basic Insulation level of L.V : -- kVp / 3 kVrms
 Year of manufacturing : 2023

PARTICULARS OF TEST CONDUCTED

S.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.
3. This report cannot be reproduced in part under in any circumstances.
4. Laboratory is responsible for reported test results and all other information is received from the internal customer.

ACCEPTED

(.hine - 29/4/23)

Chief Electrical Inspector

	REVIEWED & AUTHORISED BY: (Mahesh G) DGM-ETPL	TESTED BY: (CH Sambasivarao) Testing Engineer-ETPL
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