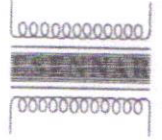


ESENNAR

TRANSFORMERS (P) LTD.-Unit-II



Date: 28/02/2023

To,
M/S. GV RESEARCH CENTERS PRIVATE LIMITED,
5-4-187/3&4,2nd FLOOR,MG ROAD,
5-4-187/3&4,2nd FLOOR,MG ROAD,
SECUNDERABAD,TELANGANA-500003.
Dear Sir,

Sub: Submission of documents for supply of 1 No. of 2500KVA(33000/433V)OLTC Transformer.

Ref: 1. Our Invoice No. 2022-23/743, Dated: 28/02/2023.
2. Your P.O. No: Doc No.92551 206313, Dt:23-11-2022.

With reference to the above subject, we would like to inform you that we have dispatched 1 No. of 2500KVA(33000/433V)OLTC Transformer vide our Invoice No. 2022-23/743, Dated: 28/02/2023 for an amount of Rs:46,18,000. Accordingly we are submitting the following documents for your perusal.

Manufacturers S. No	Description	Quantity
ET2-8152	Original GST Invoice No. 2022-23/743, Dated: 28/02/2023	1
	Transformer Test Certificates	1

Kindly acknowledge the receipt of the same.

Thanking you,

Yours faithfully
For ESENNAR TRANSFORMERS (P) LTD



Encl: a/a

(AUTHORISED SIGNATORY)

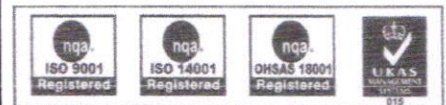
Office : Plot No. 12, Flat No. 4,
Aravinda Apartments, Sunder Nagar,
Hyderabad – 500 038.
Phone : +91-89781 71717

CIN: U40109TG2000PTC033244

Works : Plot No.2, Phase No. I,
IDA, Pashamylaram,
Sangareddy Dist – 502 307.
Tel : 08455 – 224205 / 06

Fax : 08455 - 224173

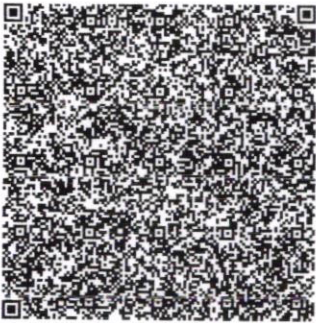
E-mail : info@esennar.com, Web : www.esennar.com



An ISO 9001 : 2008, ISO 14001: 2015 &
OHSAS 18001: 2007 Certified company



Esennar Transformers Pvt. Ltd. Unit II
Plot No-2, Phase-1,IDA,Pashamailaram,,Sangareddy -502307,
Telangana.



CIN NO : U40109TG2000PTC033244

IEC Code: 0905007590

e-Invoice

1. e-Invoice Details

IRN : afd616df7f8aa195475884edfd841dced0b92ca2942c7d596dfd6061272c5934

Ack. No : 112315486788215

Ack. Date : 2023-02-28 16:55:00

2. Transaction Details

Category : B2B

Invoice No : 2022-23/743

PO No & Date : Doc No.92551 206313, Dt:23-11-2022.

Document Type : Tax Invoice

Invoice Date : 28-02-2023

3. Party Details

Seller

GSTIN : 36AAACE8075C1ZS

Esennar Transformers Pvt. Ltd. Unit II (20:

Plot No.2, Phase-1, IDA Pashamylaram, Sangareddy (Dist)- 502307, Telangana.

Ph : +91 89781 71717

Buyer

GSTIN : 36AAHCG4562D1ZP

GV RESEARCH CENTERS PVT LTD

5-4-187/3&4,2nd FLOOR,MG ROAD, SOHAM MANSION,THURKAPALLY, SECUNDERABAD. 500003

TELANGANA State Code : 36

Ship to Details

GSTIN : 36AAHCG4562D1ZP

M/s.GV RESEARCH CENTERS PVT LTD., Sy No.542, GENOME VALLEY, THURKAPALLY, HYDERABAD.

TELANGANA 500078 THURKAPALLY

4. Goods Details

S No.	Product Description	HSN Code	SL No	Qty	UOM	Rate	Gross	Disc Amt	Freight	Taxable Amount	GST % Amt
1	2500KVA(33/0.433V)OLT C TRANSFORMER IS: 1180 LEVEL-2	85042200	ET2-8152	1.00	NOS	3913560.00	3913560.00	0.00		3913560.00	18.00
										704440.00	

Taxable Amt	CGST Amt	SGST Amt	IGST Amt	TCS Charges	Round Off Amt	Total Inv Amt
39,13,560.00	3,52,220.00	3,52,220.00	0.00	0.00	0.00	46,18,000.00-

5. e-Way Bill Details

E-Way Bill No : 111606276505

Trans Name : DYNAMIC LOGISTICS OF INDI

E-Way Bill Gen Date : 2023-02-28 16:55:00

Trans Doc No : 34676

E-Way Bill Valid Date : 2023-03-01 23:59:00

Trans Date : 28-02-2023

Trans Mode : Road-Regular

Vehicle No : AP26X8883

Amt in Words : FORTY SIX LAKH EIGHTEEN THOUSAND ONLY

For Esennar Transformers Pvt Ltd Unit-II

Authorized Signatory



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 : 28-02-2022
 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 : 27-02-2022
 Condition of the test item : Good
 Date of Testing : 27-02-2022
 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 .



REVIEWED & AUTHORISED BY:

(Signature)
 (S.A. Rasheed)
 Manager-ETPL

TESTED BY:

(Signature)
 (CH Sambasivarao)
 Testing Engineer-ETPL



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

1. Measurement of Voltage Ratio :

ULR No. : TC978323000000122F

Allowable % deviation as per IS : $\pm 0.5\%$

Tap No	Specified Ratio	Measured			% Deviation		
		Uph	Vph	Wph	Uph	Vph	Wph
1	145.21	145.23	145.24	145.23	0.02%	0.02%	0.02%
2	143.56	143.48	143.48	143.48	-0.05%	-0.05%	-0.05%
3	141.91	141.92	141.92	141.92	0.01%	0.01%	0.01%
4	140.26	140.32	140.32	140.31	0.05%	0.05%	0.04%
5	138.61	138.61	138.61	138.61	0.00%	0.00%	0.00%
6	136.96	136.91	136.91	136.91	-0.03%	-0.03%	-0.03%
7	135.30	135.31	135.31	135.31	0.00%	0.00%	0.00%
8	133.65	133.71	133.71	133.71	0.04%	0.04%	0.04%
9	132.00	132.00	132.00	132.00	0.00%	0.00%	0.00%
10	130.35	130.41	130.41	130.41	0.04%	0.04%	0.04%
11	128.70	128.70	128.70	128.70	0.00%	0.00%	0.00%
12	127.05	127.10	127.10	127.10	0.04%	0.04%	0.04%
13	125.40	125.50	125.50	125.50	0.08%	0.08%	0.08%
14	123.75	123.80	123.80	123.80	0.04%	0.04%	0.04%
15	122.10	122.10	122.10	122.10	0.00%	0.00%	0.00%
16	120.45	120.50	120.50	120.50	0.04%	0.04%	0.04%
17	118.80	118.88	118.89	118.89	0.06%	0.07%	0.07%

2. Measurement of Insulation Resistance :

Top oil Temp.(°C) : 34.3

Bottom oil Temp.(°C) : 32.6

Avg. oil Temp.(°C) : 33.5

Ambient Temp.(°C) 31.0

Applied Voltage	HV to LV (Mega ohms)	HV to (Earth+LV) (Mega ohms)	LV to (Earth+HV) (Mega ohms)
2500	7120	7530	4530

3. Measurement of No-load loss and current :

Applied on	Voltage (mean) U'	Voltage (rms) U	Measured loss (Watts)	Frequency (Hz)	Avg. No-load current (Amps)	Corrected No-Load loss (Watts)
LV side	433.15	433.30	2262.0	50.0	6.32	2261.2

4. Measurement of short-circuit Impedance and load loss :

Top oil Temp.(°C) : 34.3

Bottom oil Temp.(°C) : 32.6

Avg. oil Temp.(°C) : 33.5

Frequency (Hz) 50.0

Ambient Temp.(°C) 31.2

Percentage Load	Tap No	Impedance volts	Current Passed	Rated Current (Amps)	Measured Load loss at Amb.Temp (Watts)	Load loss at 75°C (Watts)	Percentage Impedance at 75°C
100%	9(N)	1931	43.76	43.74	14250.0	15458.1	5.85
50%	9(N)	967	21.96	21.87	3614.0	3888.0	2.92



REVIEWED & AUTHORISED BY:

(Signature)
(S.A. Rasheed)
Manager-ETPL

TESTED BY:

(Signature)
(CH Sambasivarao)
Testing Engineer-ETPL

ET/QC/F-007



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

5. Measurement of Winding Resistance :

ULR No. : TC978323000000122F

Top oil Temp.(°C) : 34.3

Bottom oil Temp.(°C) : 32.6

Avg. oil Temp.(°C) 33.5

a) H.V Winding Resistance

Ambient Temp.(°C) 31.3

Tap No	1U-1V (Ohms)	1V-1W (Ohms)	1U-1W (Ohms)	Avg. Resistance/ph at Amb. Temp (Ohms)	Avg. Resistance/ph at 75°C (Ohms)
1	2.0050	2.0058	2.0040	3.0074	3.4729
9(N)	1.8138	1.8134	1.8150	2.7211	3.1423
17	1.6369	1.6373	1.6393	2.4568	2.8370

b) L.V Winding Resistance

	2U-2V (mOhms)	2V-2W (mOhms)	2U-2W (mOhms)	Avg. Resistance/ph at Amb. Temp (Ohms)	Avg. Resistance/ph at 75°C (Ohms)
	0.3378	0.3342	0.3424	0.00016906	0.00019522

6. Induced over-voltage withstand test :

Voltage applied on	Test Voltage (Volts)	Frequency (Hz)	Duration (Seconds)	Remarks
LV side	866	150	40 Seconds	Withstood : OK

7. Separate-source voltage withstand test :

Voltage applied between	Test Voltage (Volts)	Frequency (Hz)	Duration (Seconds)	Remarks
HV to Earth	70 kVrms	50	60	Withstood : OK
LV to Earth	3 kVrms	50	60	Withstood : OK

8. Oil break down Voltage (BDV) test :

Oil Temp.(°C) : 24.5
Type Of Electrodes : Spherical

Ambient Temp.(°C) : 25.3
Stirrer Used : YES

Frequency of the test Voltage : 61.8 Hz

Test	Test-1	Test-2	Test-3	Test-4	Test-5	Test-6	Average
BDV In kV	68	67	66	69	72	70	69

9. Total loss at 50 percent load & 100 percent load

Test particulars	No-load loss (Watts)	Load loss at 75°C (Watts)	Total losses (Watts)	Guaranteed Losses (Watts)
Max. Total losses at 50% load	2261.2	3888.0	6149.2	6343(MAX)
Max. Total losses at 100% load	2261.2	15458.1	17719.3	18813(MAX)

Measured percentage Impedance at 75°C

5.85 %

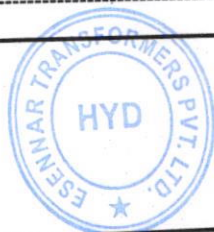
6.25% ± IS Tol

WITNESSED BY

Ramesh Reddy
Project Manager
Modi Properites Pvt Ltd

Akhil
Sr. Engineer
Modi Properites Pvt Ltd

-----END OF THE REPORT-----



REVIEWED & AUTHORISED BY:

(S.A. Rasheed)
Manager-ETPL

TESTED BY:

(CH Sambasivarao)
Testing Engineer-ETPL

ET/QC/F-007