



LTL TRANSFORMERS (PVT) LTD
Engineering for better transformation

LTL TRANSFORMERS (PVT) LTD
154 / 11, Railway Station Road, Angulana,
Moratuwa, Sri Lanka.
Tel: +94 112 605 101-3 Fax: +94 112 607 312
Email: transformer@ltl.lk

SUBMISSION OF DOCUMENTS FOR APPROVAL

Date: 16/12/2022

Our Ref: CT 2237

Attention:

Mr. Sujith Gunawardhana,
Siam City Cement (Lanka) Limited.

Dear Sir,

Sub: Supply of 2000kVA 3.3kV 440V Transformer with LV Busduct, Plugin type HV bushings, OTL, WTI and Cooling fans– 01 No.

Drawing and technical specification for the above mentioned transformer is submitted herewith for your kind perusal and approval.

We shall be much obliged if you could provide us your approval at the earliest to proceed with production.

Thanking you

Yours Faithfully,

LTL Transformers (Pvt) Ltd

Electrical Engineer - Design

Issued for Production
30 JAN 2023
QA DEPT

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IF GREEN

P.S. : Please contact us for any clarification.

Contact 01:

Menusha Nanayakkara
Electrical Superintendent
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menusha.srinath@ltl.lk

Contact 02:

Indula Amarasinghe
Electrical Engineer
076-3968192
indula.amarasinghe@ltl.lk

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Registered Office

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Email: info@ltl.lk
Company Registration Number: PV 66299


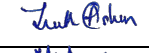

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FRM/CI/02

Transformer Technical Specifications

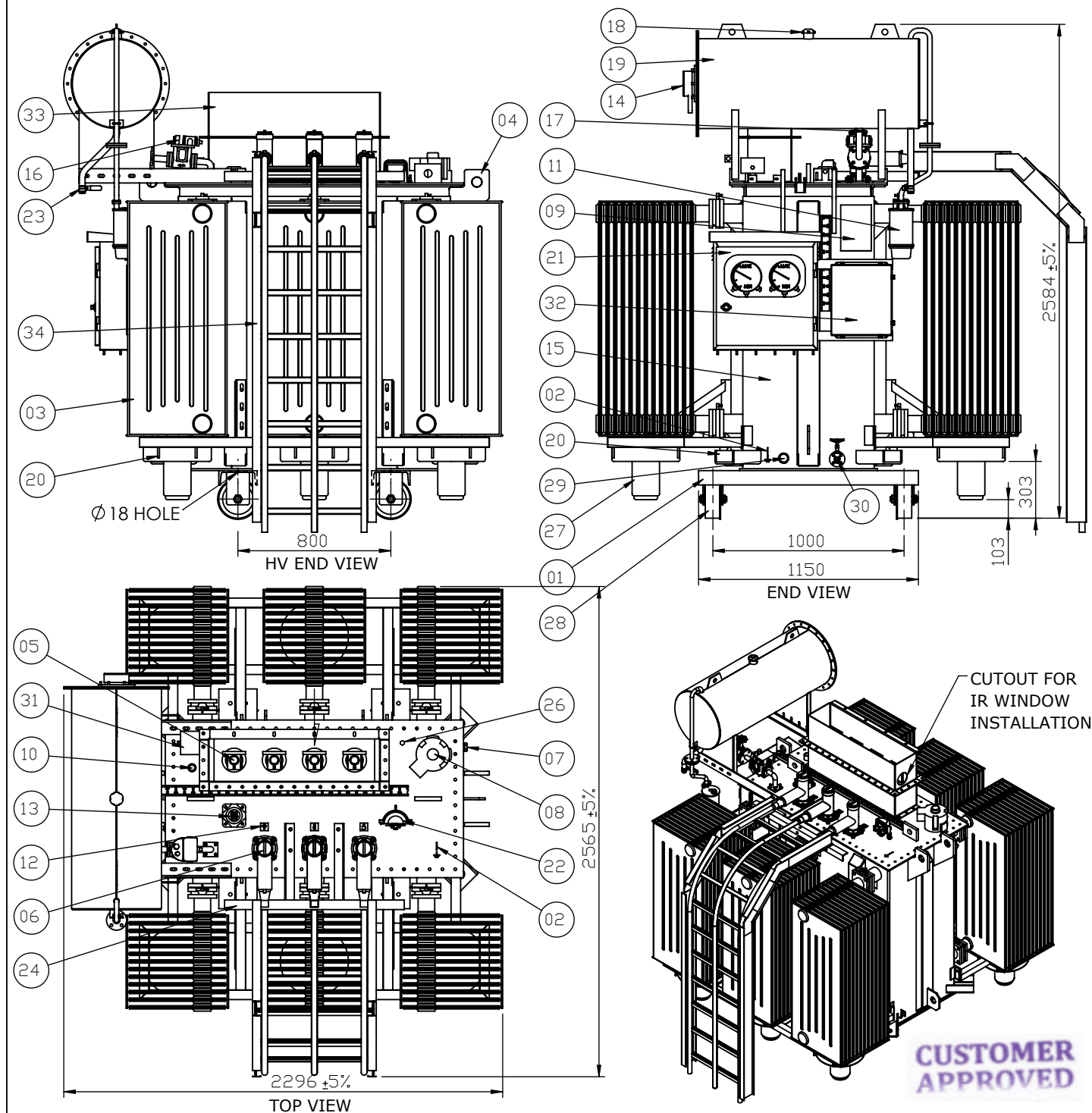
Customer	Siam City			
Project:	Factory power Supply			
Contract/Quotation No.	CT-2237	Design No:	2000	Date: 16/12/2022
Basic Technical Features	Unit	Customer Requirements	Review by LTL	Remarks
1. Capacity	kVA	2000	2000	
2. No. of Units required	Nos.	1	1	
3. Frequency	Hz	50	50	
4. No. of Phases		3	3	
5. Primary Voltage	V	3300	3300	
6. Tappings	1		5%	
	2		2.5%	
	3		0%	
	4		-2.5%	
	5		-5%	
			-	
			-	
			-	
			-	
7. Secondary Voltage (No Load)	V	440	440	
8. Vector Symbol		Dyn5	Dyn5	
9. Lightning Impulse Withstand Voltage (Primary / Secondary)	kV		60/-	
10. Power Frequency Withstand Voltage (Primary / Secondary)	kV		20/3	
11. Conductor Material (Primary / Secondary)		Cu / Cu	Cu / Cu	
12. Temp. Rise Windings	°C		60	
Top Oil	°C		55	
13. Efficiency at 100% load (P.F = 0.8)	%		98.68	
14. Voltage regulation at 100% load (P.F = 0.8)	%		7.70	
15. No Load current	%		0.23	IEC Tolerances Applicable
16. Method of cooling			ONAN	
17. No load loss	W		1300	IEC Tolerances Applicable
18. Load loss	W		20100	IEC Tolerances Applicable
19. Impedance voltage	%		7.70	IEC Tolerances Applicable
20. Sound level	dB		<85	
21. Dimensions				
Length	mm		2296	
Width	mm		2565	
Height	mm		2584	
22. Total Weight	kg		6240	
23. Oil Weight	kg		1175	
24. Un-tanking Weight	kg		2750	
25. Availability of Cable box in Primary side, Y/N			N	
26. Availability of Cable box in Secondary side, Y/N			Y	LV Busduct
27. Hermetically sealed/Conservator		Conservator	Conservator	
28. Painting Method, Galvanize/Marine paint/Powder			Powder	C5-M
29. Unit Colour			RAL 9002	Grey White
30. Service conditions				
Max. ambient temp.	°C		45	
Monthly average temp.	°C		35	
Yearly average temp.	°C		25	
31. Altitude (Maximum)	m		1000	
32. Standard			IEC60076:2011	

33. Protection Available		34. Remarks : K factor is considered as 9			
Buchholz Relay	Y				
Oil Level Indicator	Y		Designation	Sig.	Date
Pressure Release Device (With Contacts)	Y	Designed by:	EE		16/12/2022
Winding Temperature Indicator & Oil Temperature Indicator	Y	Reviewed by:	EE		16/12/2022
Bi- Directional Rollers	Y	Approved by:	EE		16/12/2022

Revision No.: 03/01-12-2015

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12/16/2022 4:58 PM



NOTE:

01. UNIT WEIGHT IS 6240KG
02. ALL WEIGHT & DIMENSIONS SUBJECT TO ± 5% TOLERANCE

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1	BASE SKID	2
2	EARTH FLAGS 2NOS ON BASE & 1NO ON COVER PLATE	3
3	PANEL TYPE RADIATOR	6
4	LIFTING LUGS - FOR COMPLETE UNIT	4
5	LV BUSHINGS EN 3150 I	4
6	HV BUSHINGS PLUG IN	3
7	FILTER VALVE	1
8	PRESSURE RELIEF DEVICE T-50	1
9	RATING / DIAGRAM PLATE	1
10	OTI / PT100	1
11	SILICA GEL BREATHER 1KG TYPE C	1
12	PHASE MARKING PLATES	7
13	CT TERMINAL BOX	1
14	OIL LEVEL INDICATOR SO-4	1
15	TANK	1
16	BUCHHOLZ RELAY / EW712	1
17	CONSERVATOR SHUT OFF VALVE	1
18	CONSERVATOR FILLING CAP	1
19	CONSERVATOR	1
20	PULLING LUGS FOR TRANSFORMER	4
21	MARSHALLING BOX WITH WTI & OTI	1
22	TAP SELECTOR HM 28.43.885	1
23	CONSERVATOR DRAIN VALVE	1
24	HV CABLE LADDER SUPPORT	1
26	THERMOMETER POCKET	1
27	COOLING FAN	6
28	BI-DIRECTIONAL WHEELS	4
29	DRAIN VALVE / NW31	1
30	SAMPLING VALVE / DN15 DIN42568	1
31	WTI / PT100	1
32	COOLING FAN CONTROL BOX	1
33	LV BUSDUCT	1
34	HV CABLE LADDER	1

04	2023/01/12	THARINDU	IR WINDOW LOCATION REVISED	EE-01
03	2023/01/11	THARINDU	IR WINDOW LOCATION REVISED	EE-01
02	2023/01/09	PRASHANTH	IR WINDOW PROVIDED	EE-01
01	2022/10/25	PRASHANTH	HV BUSHINGS CHANGED TO PLUG IN	EE-01
REVISION NO.	DATE	DRAWN	DESCRIPTION	APPROVED BY

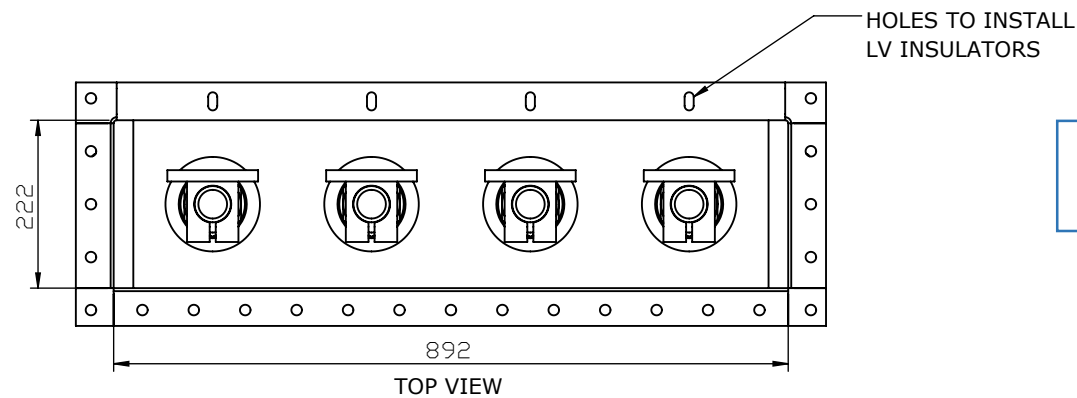
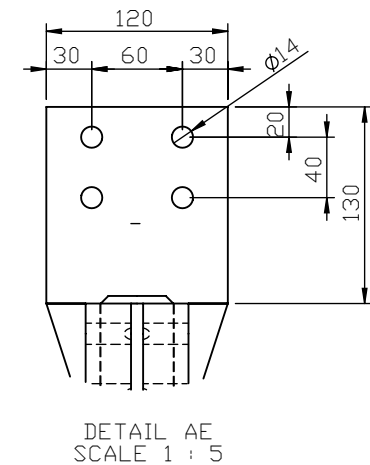
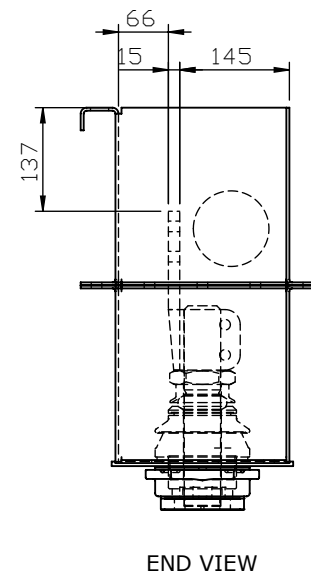
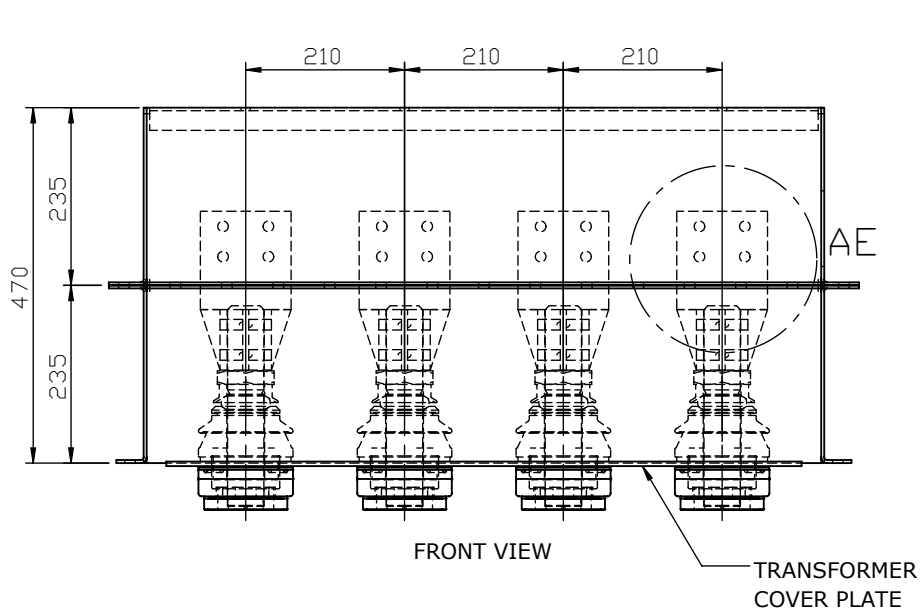
LTL Transformers (Pvt) Ltd
154/11, Railway Station Road, Angulana, Moratuwa, Sri Lanka

PROJECT: SIAM CITY CEMENT

TITLE: **OUTLINE ARRANGEMENT**
2000kVA 3.3kV/440V TRANSFORMER

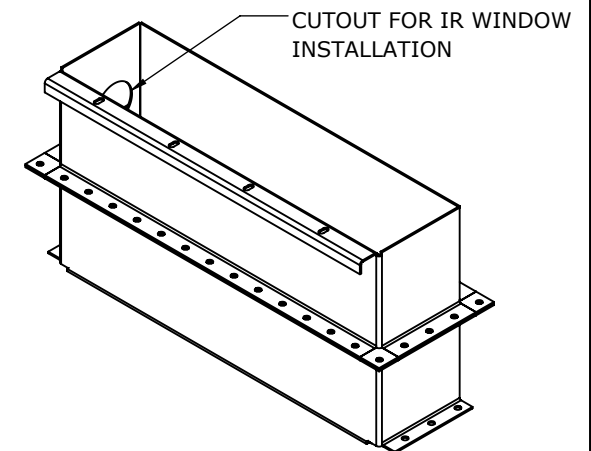
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REVIEWED BY:	DRAWN BY: PRASHANTH	DESIGN NO: 20003.3440	
APPROVED BY:	DRAWING NO: DRW/QMTMF2214/22-1	DATE: 12/01/2023	REV:04





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02	2023/01/12	THARINDU	IR WINDOW LOCATION REVISED	EE-01
01	2023/01/09	PRASHANTH	IR WINDOW PROVIDED	EE-01
REVISION NO.	DATE	DRAWN	DESCRIPTION	APPROVED BY
<div><div>LTL Transformers (Pvt) Ltd 154/11, Railway Station Road, Angulana, Moratuwa, Sri Lanka</div></div>				
PROJECT: SIAM CITY CEMENT				
TITLE : LV BUSDUCT 2000kVA 3.3kV/440V TRANSFORMER				
DESIGNED BY: 	SCALE: 1:37	UNITS: mm SIZE: A4		
REVIEWED BY: 	DRAWN BY: PRASHANTH	DESIGN NO: 20003.3440		
APPROVED BY: 	DRAWING NO: DRW/QTMF2214/22-2			
	DATE: 12/01/2023	REV:02		