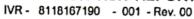
INSPECTION VISIT REPORT





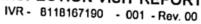
Gene	eral:											
TUV	India Control	Or		0446467		T_			Τ	. 100		
SAP Number:				811816719	Branch	Branch:			Mumbai			
Notification Name / Number:				email Dtd. 1	Date(s)	Date(s) of Inspection:			20 & 21.08.2021			
Project Name & Location:				R&R of the make waste E308157) E308157 -T. LONG_SINT)	Inspection Location:			AUTODATA, D240, TTC Ind. Area, sion - Panvel Exp., MIDC Industrial Area, Shiravane, Nerul, Navi Mumbai, Maharashtra, India			
TUV India Client Name:				THERMAX I ENVIRO DIV IC NO 1798	VISION	End Us	End User Name:			TATA Steel Long Products Limited		
DEC / PMC / EPC Name:				Not Applica		Asgmt.	DEC / PMC / EPC Asgmt. Number: (# applicable)			Not Applicable		
Vendor Name & Location:				Area, sion - MIDC Indust Shiravane, N	rial Area,		P.O. Number: (Client PO on Vendor)			PO. 124780 dated 24.05.2021		
(If applic			tion:	Not Applicab	le		P.O. Number: (If applicable – Vendor PO on Sub Vendor)			Not Applicable		
Stages Of Inspection:												
	Kick Off / Pre I		on Mee					☐ Interim Sta		m Stag	ages	
	Document Rev	riew			☑ Final Insp	ection	tion					
	Description:					K.						
P.O. Item No.	Item Code	Item	Descri	ption			иом	P.O. Offe Quantity Qua		red ntity	Acceptable Quantity	
1	ELAK0016 26		E PHA lo 1798		TRCC 95KV, 1	300MA	Nos.	02 02			-	
2	ELAK0016 25	Manu	al HT.E	Earth Switch fo	or 83KV/1205mA	HFTR	Nos	02 02			_	
Refere	nce Documen	its:										
Sr. No. Document Name Client				t Document i	Number	Vendo	Vendor Document Number			Approval Status		
1)	PR/MR/AR	M	Not Applicable			Not Ap	Not Applicable				Not Applicable	
2)	QAP/ITP/Q	СР	TL/EN 01	IV/QAP-FAB/	,	Not Applicable				Approved by Thermax Ltd Dtd. 22/06/2021		
3)	Drawing(s)			157507 Rev 0	Not Ap	Not Applicable				Approved in Code-A by Thermax Ltd Dtd 18/06/2021 Approved By Thermax Dtd		
4)	4) Procedure(s) Not Ap			plicable	Not An	Not Applicable				Not Applicable		
5)	Datasheet(s)					Not Applicable Not Applicable						
6)				plicable		Not Applicable				Not Applicable Not Applicable		
Inspection Activities Carried Out:								piiCable				
	Witnessed:							AX	37	-0	/	
							/	//	7 41			- 1

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INSPECTION VISIT REPORT





Inspection carried out as per approved QAP, Design datasheet & result found acceptable. For details refer attached witness report Dtd. 20 & 21/08/2021 (100% Inspection done as per approved QAP). THREE PHASE TR SET & TRCC 95KV, 1300MA Witnessed Serial no. - 3Φ21706 , 3Φ21707.

Manual HT.Earth Switch for 83KV/1205mA HFTR - Part CAT No ELAK001625 OC NO E308157 (02 Nos)

As per QAP Clause no. 3) HV Duct With TR set base frame

- a) Raw Material: Mech. & Chem. Properties. Test report review.
- b) Visual Found satisfactory w.r.t approved datasheet.
- c) Dimensional Found satisfactory w.r.t approved datasheet Drawing.
- d) Surface Preparation & Painting Found satisfactory w.r.t approved datasheet Drawing

BOUGHTOUT ITEMS

As per QAP Clause no. 3) TR Set & TRCC

- a) Raw Material: Mech. & Chem. Properties. Test report review.
- b) Visual Found satisfactory w.r.t approved datasheet.
- c) Dimensional Found satisfactory w.r.t approved datasheet Drawing
- d) H.V. & Megger Test Found satisfactory w.r.t approved datasheet Drawing
- e) Simulation Test Found satisfactory w.r.t approved datasheet & drawing
- f) Spark Test Found satisfactory w.r.t approved datasheet Drawing
- g) Open Circuit Test Found satisfactory w.r.t approved datasheet & drawing
- h) Short Circuit Test at Rated Output current Found satisfactory w.r.t approved datasheet & drawing
- i) Load Regulation Test at 100% Rating Found satisfactory w.r.t approved datasheet & drawing
- j) Functional Test (Checking Parameter Settings, All Alarms & Faults) Found satisfactory w.r.t approved datasheet &
- k) Measurement of Feedback Resistor. Found satisfactory w.r.t approved datasheet & drawing
- I) Oil level check for Tank Found satisfactory w.r.t approved datasheet & drawing
- m) Oil dielectric strength found more than 60 KV/2.5 mm Found satisfactory w.r.t approved datasheet & drawing
- n) Pressure test applied at 0.5 bar for holding time 20 minutes No Leakage / No pressure drop observed during holding
- o) Paint shade verified with paint shade card & found RAL 7032 and Thickness found greater than 50 & 60 microns for

As per QAP Clause no. 5) Electrical Access., Instruments & Mechanical Miscellaneous items & Instruments - Review of manufacturers TC (Calibration & Type test report As Applicable)

Visual Verification of Earthing unit, Operation Panels & TR Set found acceptable as per GAD.

Documents Reviewed:

1)

Following documents were reviewed as per approved QAP & found in order;

As per QAP Clause no.1b) Test certificate of Bought out item as provided by the supplier Found to meet material

All measuring instruments/ equipment were verified for continued suitability for intended use, proper identification, calibration status, traceability to national standards & found satisfactory.

Details of Equipment(s) / Instrument(s) used for measuring / testing during inspection: (Refer Notes)

_	Detail of	Range	ID		(Never Notes)			
Sr. No.	Equipment(s) / Instrument(s)			Validity till Date	Calibration Certificate Number	MARL FOTHER CERT. BODIES / MARL Tracescenty Please Bick whicher	NON-NABL	
1	Calibration status					See Note 1 & 2	See hote 3	
	Attached					1		

1)

1) Other Certifying bodies are NPL-India. CIPM (Int.

- (International Committee for Weights & Measures), ILAC & APLAC MRA Signaturies by for intended use, periodic maintenance, proper identification and valid calibration records and traceability to lind
- to ensure current assessmy or intended use, persudic maintenance, proper identification and valid calibration records and traceability to known National / International standards of calibration certificate(s) for the measuring instrument(s) / equipment(s) used during inspection do not have traceability to NABL / Other certifying bodies, then the acope of review is time.

to secretical consent of the details of instrument (a) / equipment(a) used during inspection.

4) In Seu of Lable above inspectors may collect mester sist from menufacturer / vendorf sub-vendor with all above details clearly highlighting the details of instrument(a) / equipment(a) used during inspection.

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INSPECTION VISIT REPORT





Conclusion (Acceptable / Not Acceptable / Acceptance subject to):

M/s. Autodata to obtain acceptance from the client for the observations as mentioned in Area of concern.

Pending Activities from this Visit:

None

Identification of Inspected Item(s):

Soft Stamped as " (Test sample selected double) on Witnessed HFTR Panel.

Areas of Concern:

- 1) Final touch up paint to be done wherever required before despatch.
- 3) As per approved QAP Raw Material: Mech. & Chem. Properties. Test report to be submitted (For CRCA sheets & Bus Bar)
- 4) Castel Key Interlock is in client scope.
- 5) Charge Ratio internally check by Manufactured.
- 13) BOM to be AS BUILT for
- a) Uninyvin 00
- b) 6" FAN & Filter
- c) terminal block QTY 84 instead of 67 Nos
- d) CT Ratio observed 200/5A 5VA Class 0.5 instead of 250/5A 10 VA.Class 1
- e) CT Make observed NEWTEK instead of RECO.
- f) Ammeter observed 200/5A instead of 250/5A.
- g) Thyristor Assembly THY-0721-1300-02
- h) Verified BOM attached.

HV Duct With TR set base frame

- 1) Stand as per approved drg 160mm required, Observed 170mm.
- IP -55 for marshalling Box declared by vendor.

Non Conformities raised / Discrepancies observed during Inspection (If Any, Mention TUV Inda NCR Number):

None

Attachments:

 Inspection records – Total Page Nos.	1set	Ø	Master List of calibrated Instruments / equipment	1set
Inspection Photos – Refer Page Nos.	3 to 12	Ø	Others (Specify): None.	

Authorised Signatures:

Vendor / Sub Vendor Representative: (# Applicable) TUV India Inspector(s):

Date: 21-08-2021 Name: Milind Surve

Name: Mr. Satish Chavan

☑ TUV India Client / End User ☑ TUV India Executing / Originating Branch ☑ Vendor / Sub Vendor Distribution List:

Revision Number (# Applicable): 00 - Type Reason for revision here This Document Supersedes IVR No. : Mention Previous IVR Number.

Inspection Pictures:

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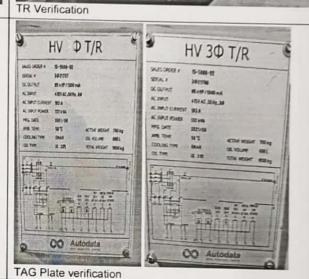
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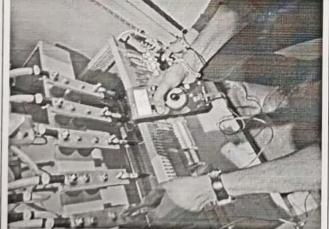


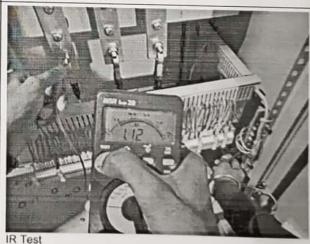
TRCC TRCC SALES CADER I SALE 0008.4 15-5H-M THE SERIA. 302778 10 mm DC OUTPUT DOCUMENT E kiP/1206 mA Eig/m KINT 451 AL SEL 30 AC INPUT 初北京 AC INPUT CLERENT WIA AC INPUT POWER Calculus I CONTROLLER 2021/06 MFG. DATE 1021/18 Autodata Autoda



TAG Plate verification

IR Test





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Paint thickness verification





Paint Shade check

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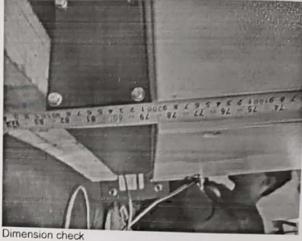
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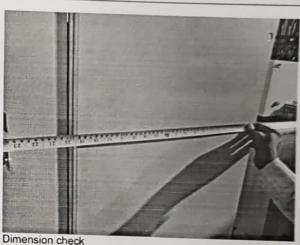
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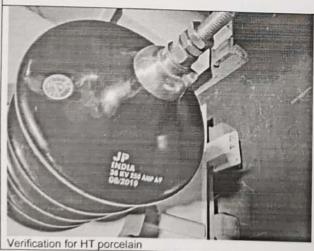














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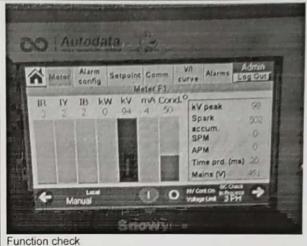
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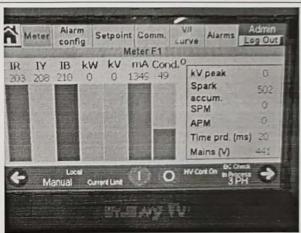
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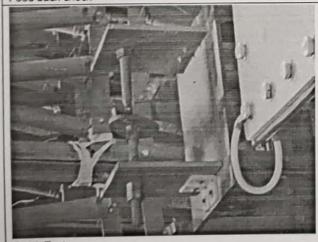


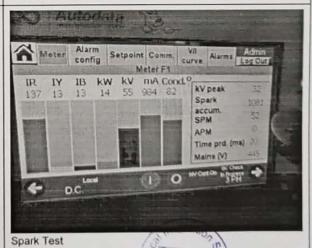




Feed back check







Spark Test

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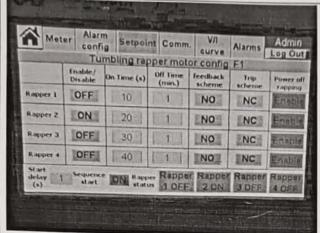
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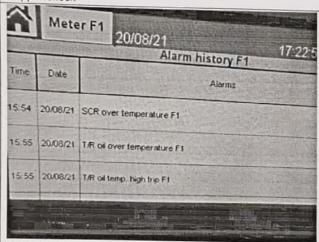
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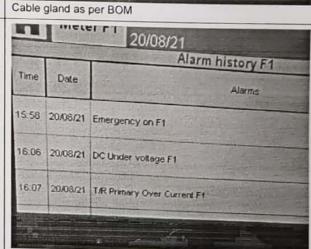




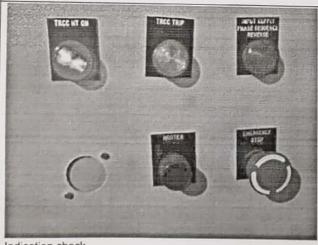


Rapper check





Alarm Check





Indication check

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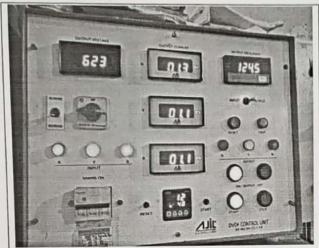
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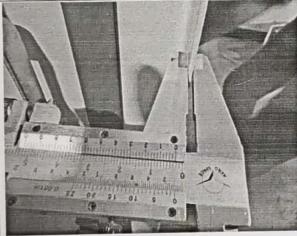


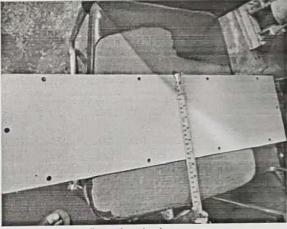


INPUT SUPPLY TRCC TRIP PHASE SEQUENCE REVERSE

Induced Over voltage

Reverse polarity check





Door thickness check

Cable gland plate dimension check





Dimension check

Dimension check

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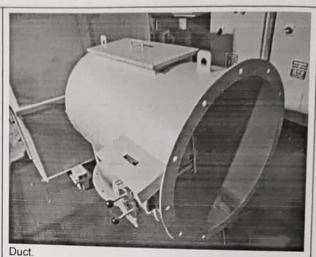
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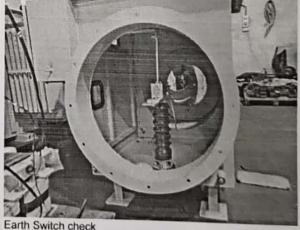
C.R Check



Pressure test ELAK001625







Earth Switch check

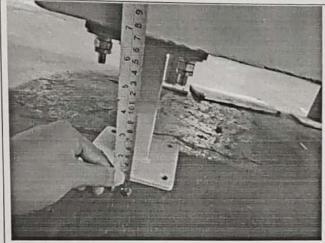
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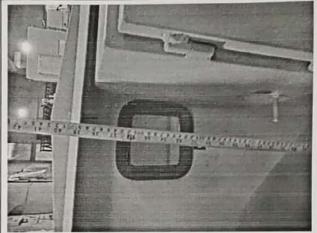
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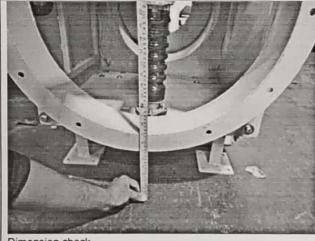


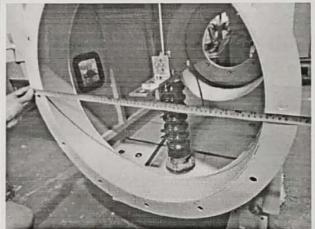




Dimension check

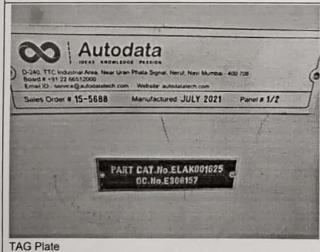
Dimension check





Dimension check

Dimension check





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