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NAME & ADDRESS OF CUSTOMER		REPORT NO. : RP-1819-038510	
EPOXY TERMINAL & EQUIPMENT PVT. LTD. Plot No : 6B, Phase III, TS-IIC, IDA, Pashamylaram, Sangareddy, Dist, Telangana-502307.		DATE : 02.01.2019	
		CUSTOMER REF. NO. : NIL	
		DATED : 27.12.2018	
		DATE OF SAMPLE RECEIPT	DATE OF TESTING
		29.12.2018	29.12.2018 to 01.01.2019
SAMPLE DESCRIPTION VOLTAGE TRANSFORMER MFD. BY : Epoxy Terminal & Equipment Pvt. Ltd. RATIO : $33000/\sqrt{3} // 110/\sqrt{3} / 110/\sqrt{3} \text{ V}$ BURDEN : 100 VA/50 VA CLASS : 0.5/3P RATED VOLTAGE : 33 kV HSV : 36 kV Rated IL : 36/70/170 kV FREQUENCY : 50 Hz. V.F. : 1.2 Cont & 1.5 for 30 sec. INSULATION CLASS : B		SAMPLE IDENTIFICATION. SR. NO. : 551018001 TYPE : 1-Ph Earthed MFG. YEAR : 2018 MODEL : VT33A ERDA SAMPLE CODE NO. : ERDA-00293596	
TEST DETAILS & TEST SPECIFICATION ARE AS PER SHEET NO. 2 OF 11.			
ENCLOSURE : 1) Photograph of test sample as per Annexure-I (sheet 1 of 1) 2) Drawing No. : 1) ETE-PT-2A SHEET. NO.: 2 OF 2 REV. 00, 2) ETE-PT-2A SHEET. NO.: 1 OF 2 REV. 00.			
NOTE : Testing was carried out as per IS 3156:1992, as per customer's request.			
REMARKS : The sample conforms to the requirements of the mentioned standard specification as mentioned in tests no. 1 to 8 on sheet no. 2 OF 11.			
 PREPARED BY		 CHECKED BY	
		 APPROVED BY (S.B.PATEL)	

Note:

1. This report relates only to the particular sample received in good condition for testing at ERDA, Vadodara.
2. This report cannot be reproduced in part under any circumstances.
3. Publication of this report requires prior permission in writing from Director, ERDA.
4. Only tests asked for by the customer have been carried out.
5. In case of any dispute, Vadodara will be the exclusive jurisdiction & shall be construed as where the cause has arisen.

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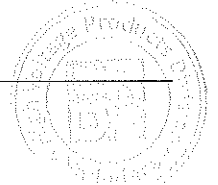
SHEET : 2 OF 11

TEST DETAILS & TEST SPECIFICATION:

Sr. No.	TESTS	REFERENCE STANDARD
1	Verification of terminal marking and polarity.	Cl. No. 9.2 of IS 3156 (Part 1) : 1992
2	Lightning Impulse voltage test.	Cl. No. 9.6 of IS 3156 (Part 1) : 1992
3	Induced over voltage withstand test.	Cl. No. 9.3.2.2 of IS 3156 (Part 1) : 1992
4	Separate source withstand test.	Cl. No. 9.3.2.1 of IS 3156 (Part 1) : 1992
5	Power frequency dry withstand test on secondary winding.	Cl. No. 9.4 of IS 3156 (Part 1) : 1992
6	Partial discharge test.	Cl. No. 9.1.2 (d) of IS 3156 (Part 1) : 1992
7	Determination of errors according to the requirements of the appropriate accuracy class.	Cl. No. 8.2.1 of IS 3156 (Part 2) : 1992 for metering winding & Cl. No. 10.1.2.1 of IS 3156 (Part 3): 1992 for protection winding.
8	Temperature rise test.	Cl. No. 9.5 OF IS 3156 (Part 1) : 1992

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SHEET : 3 OF 11

TEST RESULTS:

1. Verification of terminal marking and polarity. (Cl. No. 9.2 of IS 3156 (Part 1) : 1992)

Primary winding terminals : A-N

Secondary winding terminals : 1a-1n, 2a-2n

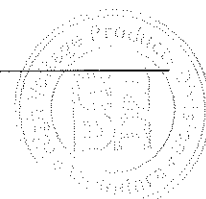
Terminal marking & polarity was found Ok.

Terminal marking was found marked clearly & indelibly.

REMARK: Conforms


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SHEET : 4 OF 11

2. Lightning Impulse Voltage Test

(As per Cl. No.9.6 of IS: 3156 (Part-1) 1992)

Atmospheric Condition:

Dry bulb temperature : 22.0 °C

Wet bulb temperature : 18.0 °C

Atmospheric Pressure : 752.3 mm of Hg

Test Parameters:

H.S.V. : 36 kV

Test Voltage : 170 kVp \pm 3 %

No. of Shots to be applied: Calibration, 05 +ve & 05 -ve Polarity shots

Test Observation:

Calibration Pulse : 97.726 kVp

Wave Shape : 1.390/46.881 μ s

No. of Shots Applied : Calibration Pulse, 05 +ve & 05 -ve Polarity shots

No. of Shots recorded : Calibration Pulse, First & Last shot for both polarity

No. of Shot	Test voltage applied in kVp	
	Positive Polarity	Negative Polarity
1.	168.842	168.244
2.	168.640	168.675
3.	168.753	169.803
4.	169.461	169.196
5.	170.365	169.800

REMARKS : Conforms

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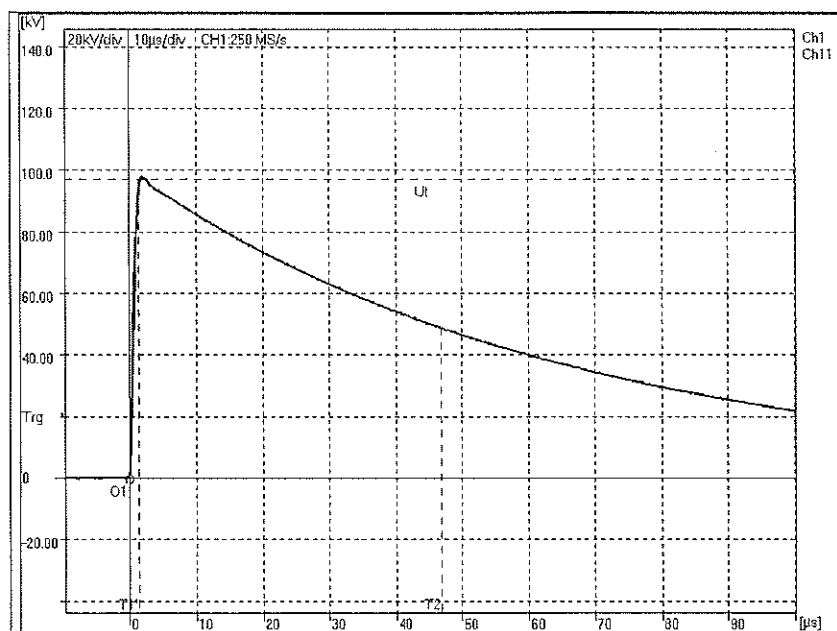
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DATE : 02.01.2019

SHEET : 5 OF 11

LIGHTNING IMPULSE VOLTAGE TEST



CALIBRATION SHOT

$U_p = 97.73 \text{ kV}$

$T_1 = 1.39 \text{ μs}$

$T_2 = 46.88 \text{ μs}$

Comment: LI RW

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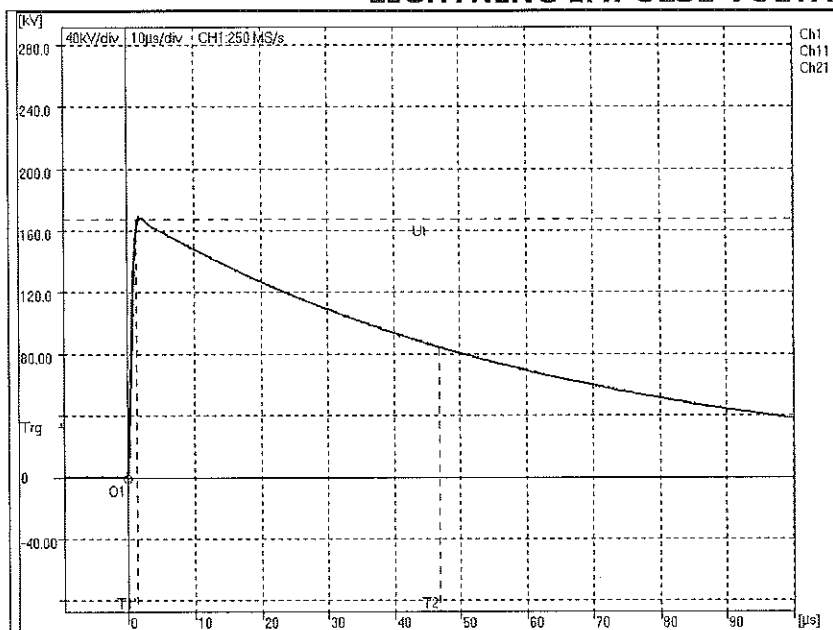
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LIGHTNING IMPULSE VOLTAGE TEST



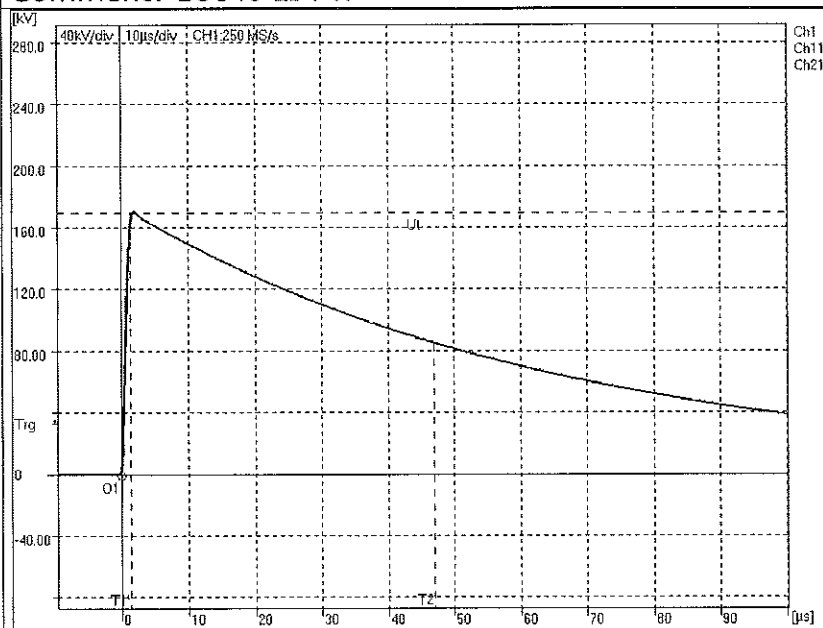
FIRST SHOT

$U_p = 168.84 \text{ kV}$

$T_1 = 1.38 \mu\text{s}$

$T_2 = 46.91 \mu\text{s}$

Comment: 100% LI FW



LAST SHOT

$U_p = 170.36 \text{ kV}$

$T_1 = 1.39 \mu\text{s}$

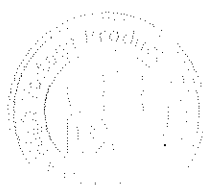
$T_2 = 47.06 \mu\text{s}$

Comment: 100% LI FW

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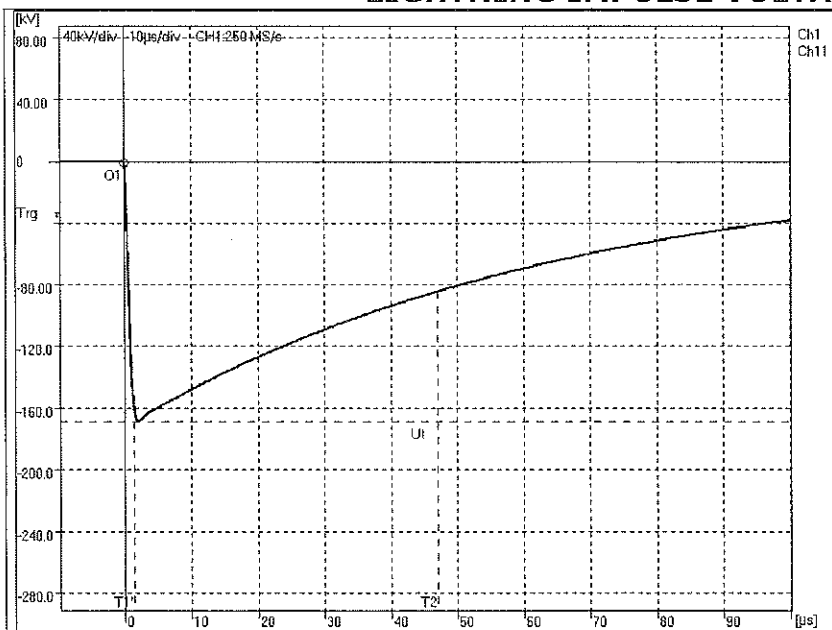
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LIGHTNING IMPULSE VOLTAGE TEST



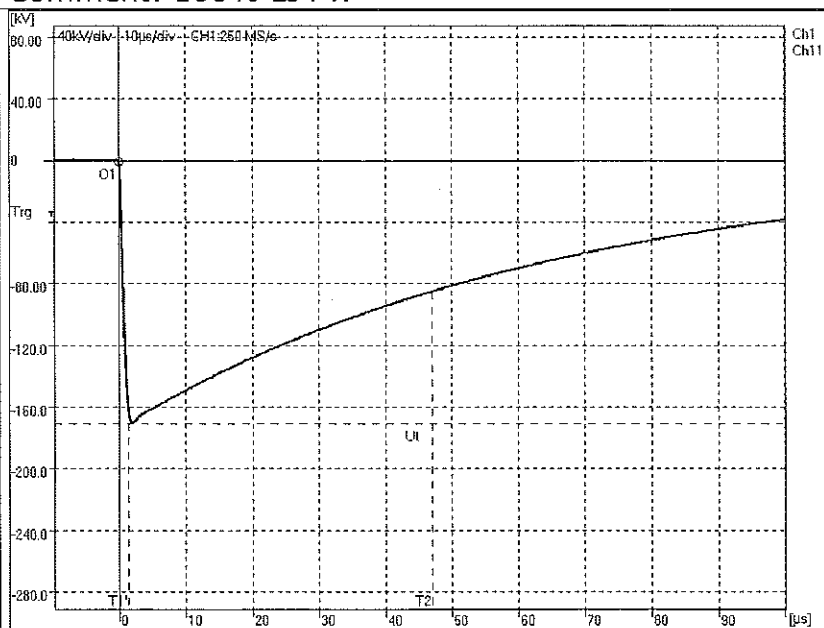
FIRST SHOT

$U_p = -168.24 \text{ kV}$

$T_1 = 1.38 \mu\text{s}$

$T_2 = 47.14 \mu\text{s}$

Comment: 100% LI FW



LAST SHOT

$U_p = -169.80 \text{ kV}$

$T_1 = 1.38 \mu\text{s}$

$T_2 = 47.09 \mu\text{s}$

Comment: 100% LI FW

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3. Induced over voltage withstand test.

(Cl. No. 9.3.2.2 of IS 3156 (Part 1) : 1992)

The test was performed by exciting the secondary winding with a voltage of sufficient magnitude to induce the specified test voltage of 70 kV (rms) in the primary winding.

The test voltage at the high voltage side was measured and recorded. The frequency of the exciting voltage was increased to 150 Hz. to prevent core saturation.

The test was performed for 40 seconds duration.

The sample withstood the test voltage satisfactorily.

REMARK: Conforms

4. Separate source withstand test. (Cl. No. 9.3.2.1 of IS 3156 (Part 1) : 1992)

The test voltage of 3 kV (rms) was applied between the terminal of the primary winding intended to be earthed (N) and earth for one minute. The base plate and all terminals of the secondary windings were connected together to the earth.

The sample withstood the test voltage satisfactorily.

REMARK: Conforms

5. Power frequency dry withstand test on secondary winding.

(Cl. No. 9.4 of IS 3156 (Part 1) : 1992)

(A). On secondary windings.

The power frequency voltage of 3 kV (rms) was applied between the secondary winding terminals (all) connected together and the earth. The primary winding terminals and base plate were connected to the earth. The test voltage was applied for one minute.

There was no disruptive discharge observed.

The sample withstood the test voltage satisfactorily

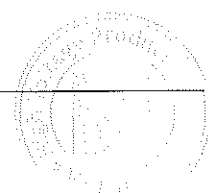
(B). Between secondary windings.

The power frequency voltage of 3 kV (rms) was applied between the secondary winding terminals (1a-1n) connected together and the earth. The other secondary winding terminals, primary winding terminals and base plate were shorted and connected to the earth. The test voltage was applied for one minute. There was no disruptive discharge observed. The sample withstood the test voltage satisfactorily.

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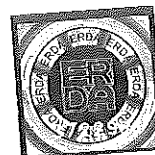
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DATE : 02.01.2019

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(C). Between secondary windings.

The power frequency voltage of 3 kV (rms) was applied between the secondary winding terminals (2a-2n) connected together and the earth. The other secondary winding terminals, primary winding terminals and base plate were shorted and connected to the earth. The test voltage was applied for one minute. There was no disruptive discharge observed. The sample withstood the test voltage satisfactorily.

REMARK: Conforms**6. Partial discharge test. (Cl. No. 9.1.2 (d) of IS 3156 (Part 1) : 1992)**

NETWORK: Effectively earthed starpoint

The power frequency voltage was applied and raised to the pre-stress voltage level ($0.8 \times 1.3 U_m = 37.4$ kV, where $U_m = 36.0$ kV) and maintained for 10 seconds. The voltage was then reduced to partial discharge measuring level ($1.1 U_m / \sqrt{3} = 22.9$ kV) and maintained for one minute. The partial discharge magnitude measured at the measuring voltage level was **01 pC**

Note: Specified Limit = **50 pC**.**REMARK:** Conforms**7. Determination of errors according to the requirements of the appropriate accuracy class. (Cl. No. 8.2.1 of IS 3156 (Part 2) : 1992 for metering winding & Cl. No. 10.1.2.1 of IS 3156 (Part 3) : 1992 for protection winding.)**

VOLTAGE TRANSFORMER:

PHASE ANGLE ERROR IN MIN.	RATIO ERROR IN %	% OF RATED VOLTAGE	RATIO ERROR IN %	PHASE ANGLE ERROR IN MIN.
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RATIO: $33000/\sqrt{3}/110/\sqrt{3}$ V, BURDEN: 100 VA, CLASS: 0.5, Secondary terminal: 1a-1n

BURDEN: 100 % at 0.8 Lag. P.F.			BURDEN: 25 % at 0.8 Lag. P.F.	
3.83	-0.345	120	0.153	4.24
2.06	-0.267	100	0.222	2.45
1.03	-0.215	80	0.268	1.28

RATIO: $33000/\sqrt{3}/110/\sqrt{3}$ V, BURDEN: 50 VA, CLASS: 3P, Secondary terminal: 2a-2n

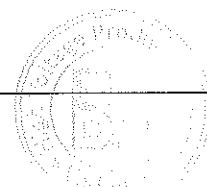
BURDEN: 100 % at 0.8 Lag. P.F.			BURDEN: 25 % at 0.8 Lag. P.F.	
14.29	-0.348	150	0.106	8.65
11.62	-0.245	120	0.187	6.43
9.67	-0.168	100	0.252	4.58
6.39	-0.144	5	0.305	1.31
6.38	-0.165	2	0.280	1.47

REMARK: Conforms

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8. Temperature rise test.

(Cl. No. 9.5 OF IS 3156 (Part 1) : 1992)

The specified voltage of 1.2 times the rated primary voltage

(i.e. $33/\sqrt{3}$ kV * 1.2 = 22.9 kV) was applied to the primary winding of the

voltage transformer and the rated burdens (i.e. 100 VA/50 VA) connected across the

secondary windings of voltage transformer. For steady state, the resistances of

secondary windings, primary winding and the temperature of body were measured.

The resistances of the primary winding and secondary windings were measured

immediately after shut down, and the temperature rise calculated.

The ambient temperature & body temperature were recorded.

The temperature rises so obtained were as follows :

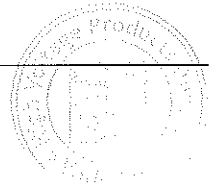
Sr. no.	Temperature rise of :	Specified limit for temperature rise test :	Obtained value :
1.	Primary winding (Resistance method)	80 °C	A-N = 2.90 °C
2.	Secondary winding (Resistance method)	80 °C	1a-1n = 3.34 °C 2a-2n = 3.52 °C
3.	Body (Thermocouple method)	80 °C	1.0 °C
4.	Ambient temperature	40 °C	21.8 °C

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The voltage transformer was re-energized at 1.2 times the rated primary voltage (i.e. $33/\sqrt{3}$ kV * 1.2 = 22.9 kV) up to steady state, and then raised to 1.5 times the rated primary voltage (i.e. $33/\sqrt{3}$ kV * 1.5 = 28.6 kV) for 30 sec. duration.

The resistances of the primary winding and secondary windings were measured immediately after shut down, and the temperature rise calculated.

The ambient temperature & body temperature were recorded.

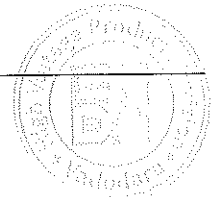
The temperature rises so obtained were as follows :

Sr. no.	Temperature rise of :	Specified limit for temperature rise test :	Obtained value :
1.	Primary winding (Resistance method)	80 °C	A-N = 5.55 °C
2.	Secondary winding (Resistance method)	80 °C	1a-1n = 8.00 °C
			2a-2n = 7.87 °C
3.	Body (Thermocouple method)	80 °C	1.3 °C
4.	Ambient temperature	40 °C	23.5 °C

REMARK: Conforms

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Annexure-I

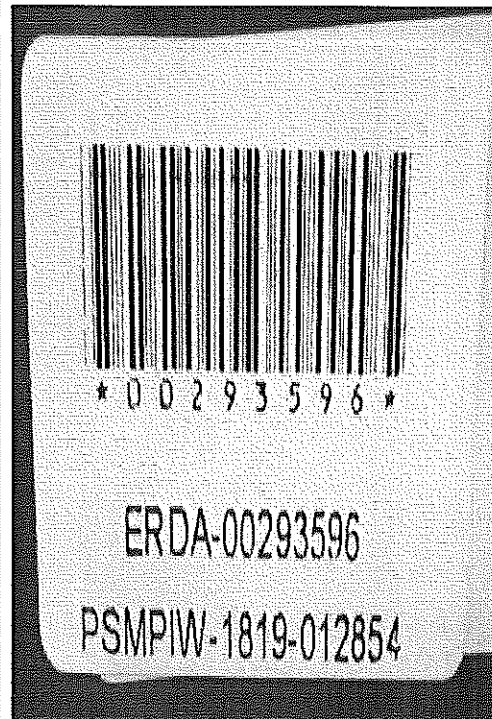
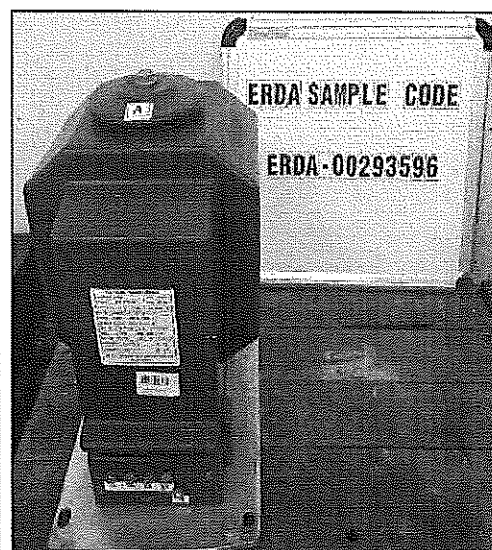
TEST REPORT NO. : RP-1819-038510

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SHEET : 1 OF 1

PHOTOGRAPHS OF TEST SAMPLE

VOLTAGE TRANSFORMER	
Rated S.V : 33 kV	HSV. : 36 kV
Rated I.L : 36/70/170 kV	Freq. : 50 Hz
OVF: 1.2 cont. & 1.5 for 30 Sec.	Ins. class : B
RATIO : 33000/RT3 // 110/RT3/110/RT3 V	
CORE 1 : Burden - 100VA, Class - 0.5	
CORE 2 : Burden - 50VA, Class - 3P	
Drg. No. : ETE-PT-2A	Type : 1-Ph Earthed
Model : VT33A	Mfg. Year : 2018
Ref. Std : IS-3156	Serial No. : 551018001
33000/RT3 // 110/RT3 V	1a - 1n
33000/RT3 // 110/RT3 V	2a - 2n
EPOXY TERMINAL & EQUIPMENT PVT LTD	
TELANGANA	



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VOLTAGE TRANSFORMER	
Rated S.V : 33 kV	HSV : 36 kV
Rated I.L : 36/70/170 kV	Freq. : 50 Hz
OVF: 1.2 Cont. & 1.5 for 30 sec.	Ins. Class : B
RATIO : 33000/RT3//110V/RT3/110/RT3	
CORE 1 : Burden - 100VA, Class - 0.5	
CORE 2 : Burden - 50VA, Class - 3P	
Drg. No. : ETE-PT-2A	Type : 1-Ph Earthed
Model : VT33A	Mfg. Year : 2018
Ref. Std: IS 3156	Serial No. : 551018001
33000/RT3//110/RT3 V	1a - 1n
33000/RT3//110/RT3 V	2a - 2n
EPOXY TERMINAL & EQUIPMENT PVT LTD	
TELANGANA	

Rated S.V : 33 kV	HSV : 36 kV
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Rated I.L. : 36/70/170 kV	Freq. : 50 Hz
---------------------------	---------------

OVF: 1.2 Cont. & 1.5 for 30 sec.	Ins. Class : B
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RATIO : 33000/RT3///110V/RT3/110/RT3

CORE 1 : Burden - 100VA, Class - 0.5

CORE 2 : Burden - 50VA, Class - 3P

Drig. No. : ETE-PT-2A Type : 1-Ph Earthed

Model: VT33A	Mfg. Year: 2018
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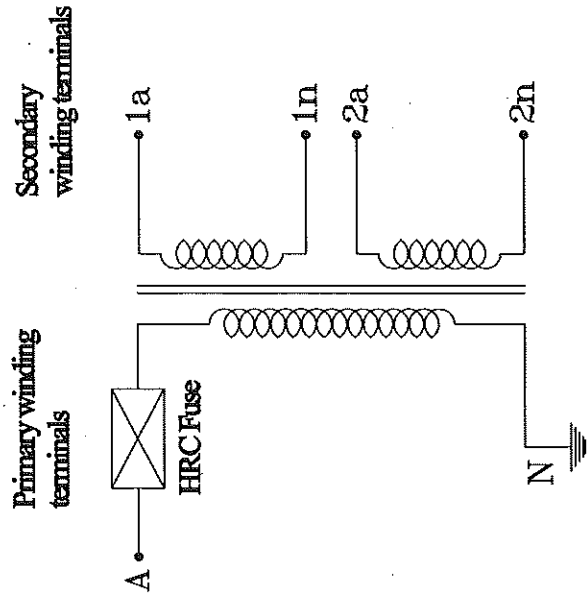
Ref. Std: IS 3156	Serial No.: 551018001
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EPOXY TERMINAL & EQUIPMENT PVT LTD

TELANGANA

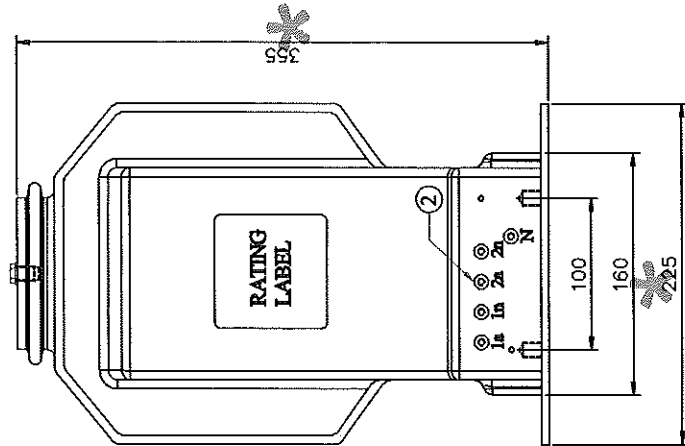
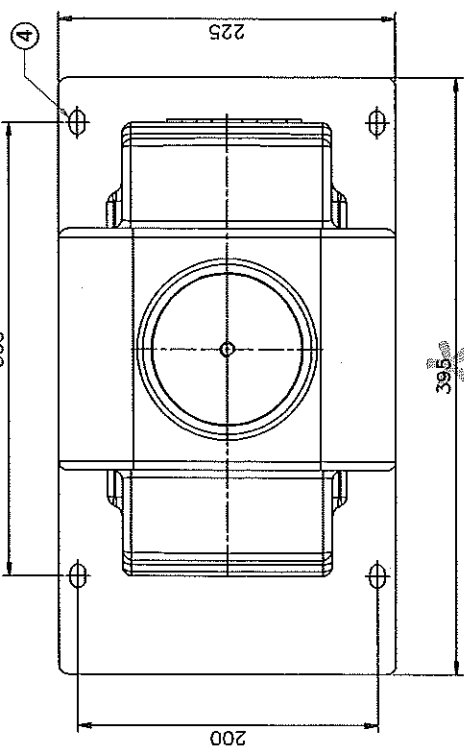
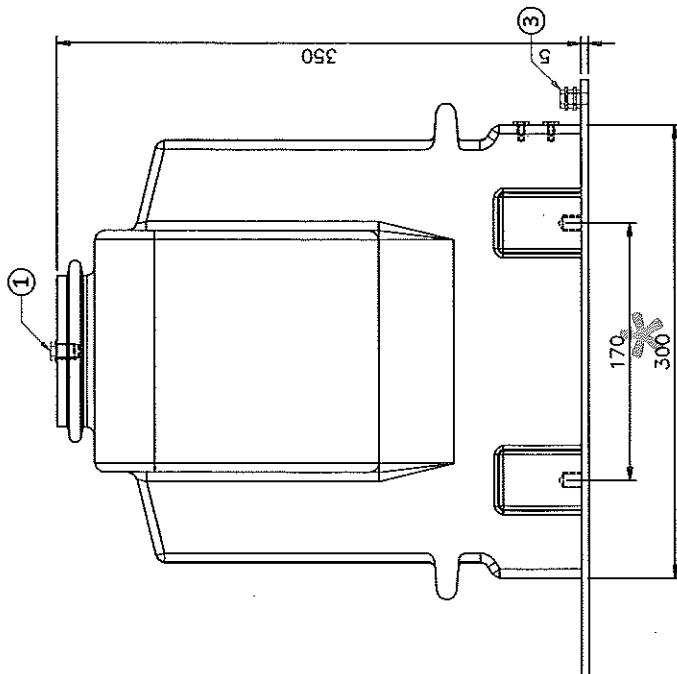


limited to relevant dimensional cracks only. ^a
 ^a Varied dimensions are marked with *.

All dimensions in mm

<p>All dimensions in mm</p> <p>Verify for Critical Drawing of all parts.</p> <p>Unmarked relevant dimensional checks only.</p> <p>Unmarked dimensions are marked with: *</p>																																							
<table border="1"> <tr> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> </tr> <tr> <td>REV.</td> <td>DATE</td> <td colspan="4">DESCRIPTION</td> <td>APPROVED</td> <td colspan="3"></td> </tr> <tr> <td>1</td> <td></td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td></td> </tr> </table>																				REV.	DATE	DESCRIPTION				APPROVED				1		2	3	4	5	6	7	8	
REV.	DATE	DESCRIPTION				APPROVED																																	
1		2	3	4	5	6	7	8																															
GENERAL TOLERANCES ± 0.1mm		SCALE: NIS		RATING PLATE		SIGN		DATE																															
				RESIN CAST 33 KV VOLTAGE TRANSFORMER MODEL: VT33A		DRAWN PALANI		20/09/2018																															
						CHKD. PALANI		21/09/2018																															
						APPD. RAGHU		23/09/2018																															
EPOXY TERMINAL AND EQUIPMENT PVT. LTD. PLOT. NO. 6B, PHASE: III, IDA, PASHAMYLARAM, PATANCHERU, SANGAREDDY (DIST), TELANGANA.						DRG. NO.: EEP-PT-2A																																	
						SHEET NO.: 2 OF 2																																	
						REV. 00																																	

All dimension are in mm



1. Primary winding terminal M10
2. Secondary winding terminal M6
3. Earthing Screw M8
4. Mounting plate hole slot M10x16 mm

Test Report No. 871112-038.110
 Date: 22.01.2019
 Project: V.T.
 Location: The drawing of ETD is
 prepared dimensional control
 of dimensions are marked as

GENERAL TOLERANCES	SCALE: NTS	GENERAL ARRANGEMENT	SIGN	DATE
±2.0 mm		RESIN CAST 33 KV VOLTAGE TRANSFORMER MODEL: VT33A	DRAWN: PALANI CHD: PALANI APPD: RAGHU	02/10/2018 04/10/2018 05/10/2018
EPOXY TERMINAL AND EQUIPMENT PVT. LTD. PLOT. NO. 6B, PHASE: III, IDA, PASHAMYLARAM, PATANCHERU, SANGAREDDY (DIST), TELANGANA.			DRG. NO.: ETE-PT-2A SHEET. NO.: 1 OF 2 REV. 00	