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Certificate No. : TC-5389

TEST REPORT

TC538919000009880F **SHEET NO. :** 1 OF 15

NAME & ADDRESS OF CUSTOMER **M/s. Rajasthan Powergen Transformer Pvt. Ltd.** Khasra No. 911-914 Karola - Bhinmal Road, Karola, Sanchore, Rajasthan-343041	**TEST REPORT NO. :** RP-1819-050495 **DATE :** 27/03/2019 **CUSTOMER REF. NO. :** NIL **DATED :** 20/03/2019 **DATE OF SAMPLE RECEIPT** 20/03/2019 **DATE OF TESTING** 27/03/2019

SAMPLE DESCRIPTION
DISTRIBUTION TRANSFORMER
NON-SEALED TYPE
ENERGY EFFICIENCY LEVEL : 2

RATING	:	63 kVA
RATED VOLTS	:	11000/433 V
RATED CURRENT	:	3.306/84 A
NO. OF PHASE	:	03
TYPE OF COOLING	:	ONAN
FREQUENCY	:	50 Hz
% IMPEDANCE	:	4.5%
VECTOR GROUP	:	Dyn 11
B.I.L. : H. V.	:	28 kVrms / 95 kVp
L.V.	:	3 kVrms /----

SAMPLE IDENTIFICATION

SR. NO. : RPTPL-001

YEAR OF MFG. : 2019

MFG. BY : M/s. Rajasthan Powergen Transformer Pvt. Ltd.

ERDA SAMPLE CODE No.: ERDA-00307718

TEST DETAIL :
Lightning Impulse Test with Chopped on the Tail on all the three phases of HV Terminals at 95 kVp.

ENCLOSURE :
DRG. NO.: 1) RPTPL-63KVA-RP-01/02-2019
2) RPTPL-63KVA-RP-02/02-2019
3) RPTPL-GA-63KVA-02-2019

TEST WITNESSED BY : ----

TEST SPECIFICATION :
As per IS:1180 (Part-I)-2014,Cl.No. 21.3.a Amendment No.1 & 2 & 3 and Test voltage was specified by the customer.
(Test Procedure was followed as per IS : 2026-(Part-III)-2009,Cl. No. 14)

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REMARKS : From the observation of enclosed oscillographic records, it is concluded that the transformer **conforms** to the requirements of the above mentioned standard with respect to the test carried out.

PREPARED BY	**CHECKED BY**	**A. S. Khopkar** **APPROVED BY**

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 the tests asked for by the customer have been carried out.
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Waveform	Comment	Ut / kVp	T1 / µs	T2 / µs	Tc / µs
		1U PHASE			
1	LI RW	-55.792	1.391	54.005	
2	100% LI FW	-93.509	1.397	54.048	
3	LI CRW	-58.663	1.386		3.105
4	110% LI CFW	-104.162	1.364		2.423
5	110% LI CFW	-104.516	1.376		2.996
6	100% LI FW	-95.848	1.385	53.907	
7	100% LI FW	-94.843	1.383	53.935	
		1V PHASE			
8	LI RW	-55.904	1.394	53.945	
9	100% LI FW	-94.996	1.402	54.105	
10	LI CRW	-61.606	1.380		2.641
11	110% LI CFW	-103.670	1.392		2.758
12	110% LI CFW	-105.026	1.403		2.970
13	100% LI FW	-94.560	1.401	54.138	
14	100% LI FW	-96.200	1.401	54.129	
		1W PHASE			
15	LI RW	-56.172	1.384	54.034	
16	100% LI FW	-94.695	1.389	54.043	
17	LI CRW	-60.200	1.364		2.844
18	110% LI CFW	-105.401	1.371		2.495
19	110% LI CFW	-105.522	1.374		2.485
20	100% LI FW	-95.988	1.384	53.991	
21	100% LI FW	-95.331	1.384	54.056	

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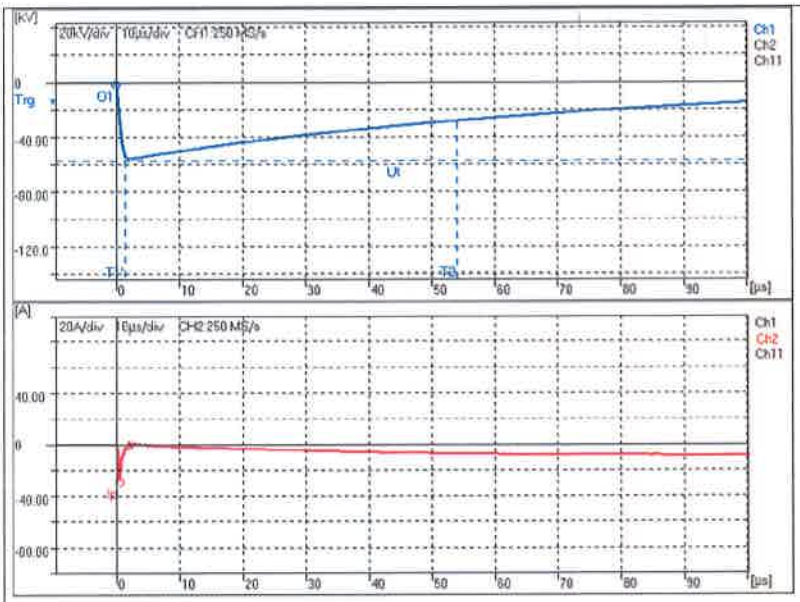
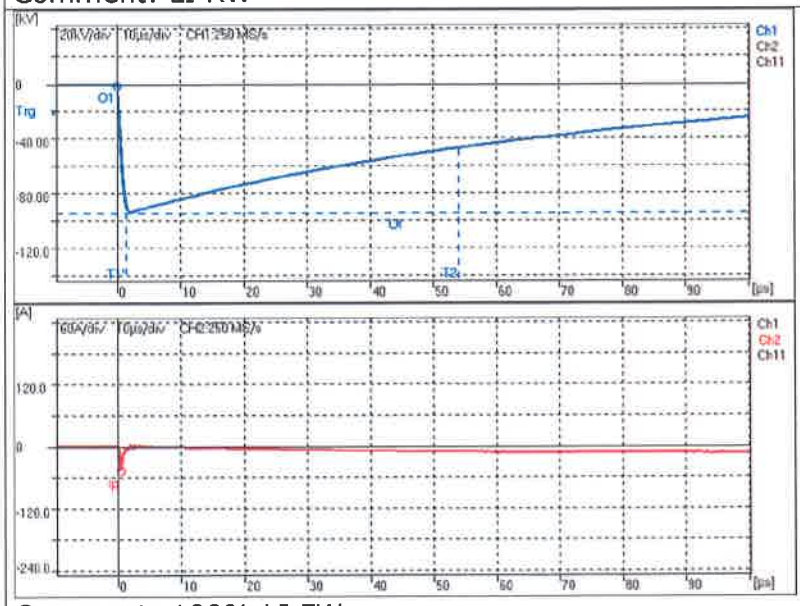
TEST REPORT NO. : RP-1819-050495 **SHEET NO.:** 3 of 15
DATE : 27/03/2019



Comment: LI RW

Fig.: 1
U_p = -55.79 kV
T_1 = 1.39 µs
T_2 = 54.00 µs
T_c = µs



Comment: 100% LI FW

Fig.: 2
U_p = -93.51 kV
T_1 = 1.40 µs
T_2 = 54.05 µs
T_c = µs

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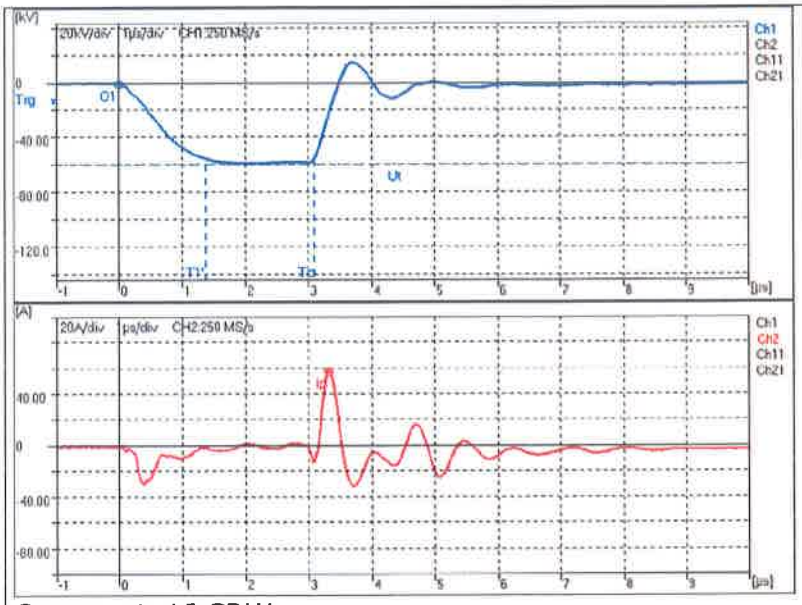
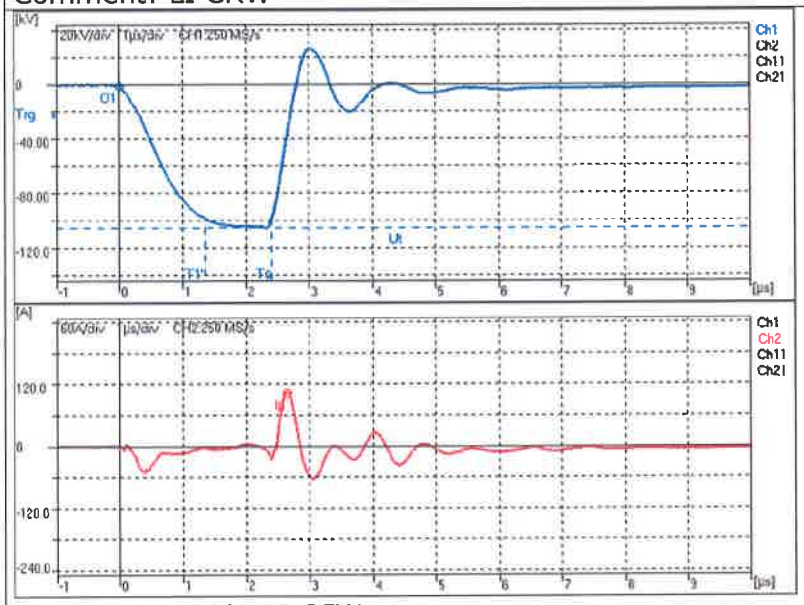


Comment: LI CRW

Fig.: 3
U_p = -58.66 kV
T_1 = 1.39 µs
T_2 = µs
T_c = 3.11 µs



Comment: 110% LI CFW

Fig.: 4
U_p = -104.16 kV
T_1 = 1.36 µs
T_2 = µs
T_c = 2.42 µs

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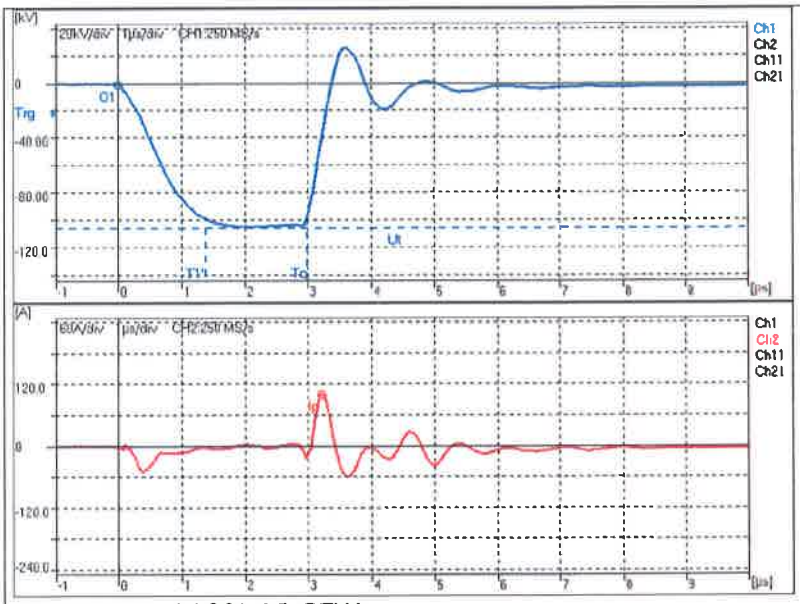
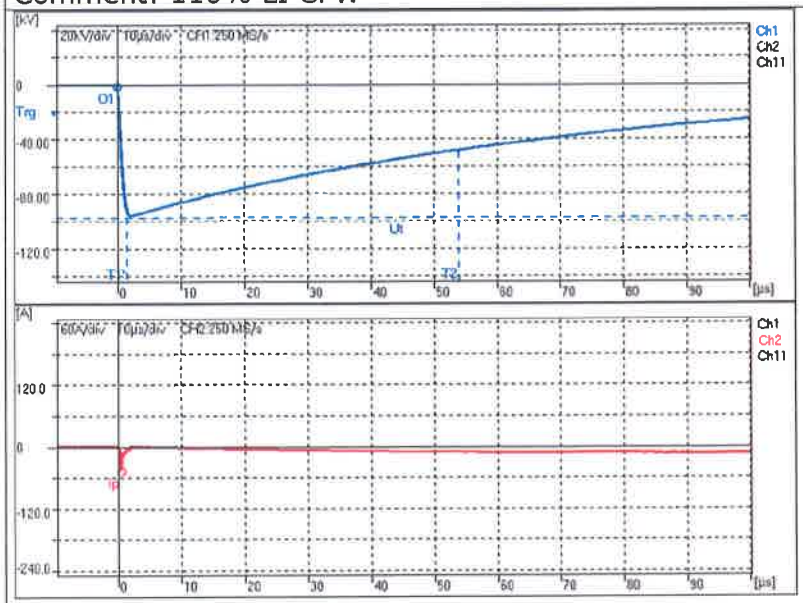
TEST REPORT NO. : RP-1819-050495 **SHEET NO.:** 5 of 15
DATE : 27/03/2019



Comment: 110% LI CFW

Fig.: 5
U_p = -104.52 kV
T_1 = 1.38 µs
T_2 = µs
T_c = 3.00 µs



Comment: 100% LI FW

Fig.: 6
U_p = -95.85 kV
T_1 = 1.39 µs
T_2 = 53.91 µs
T_c = µs

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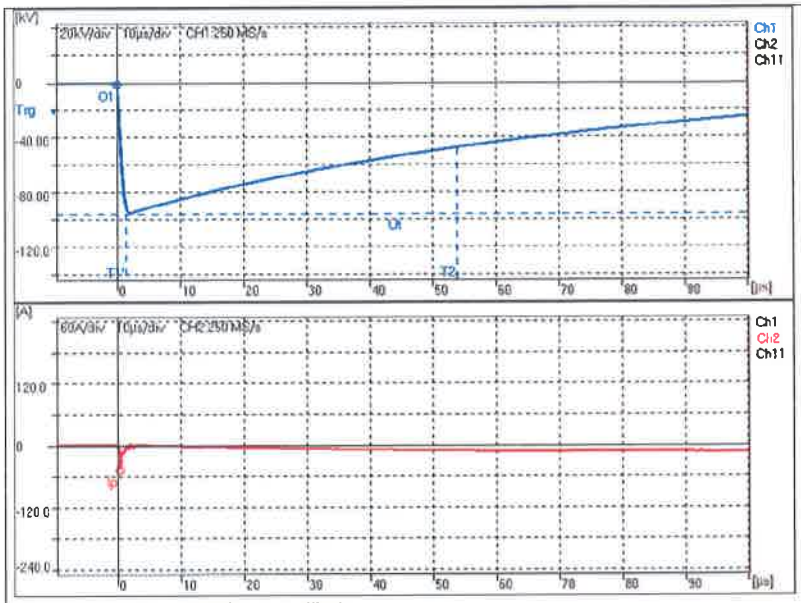
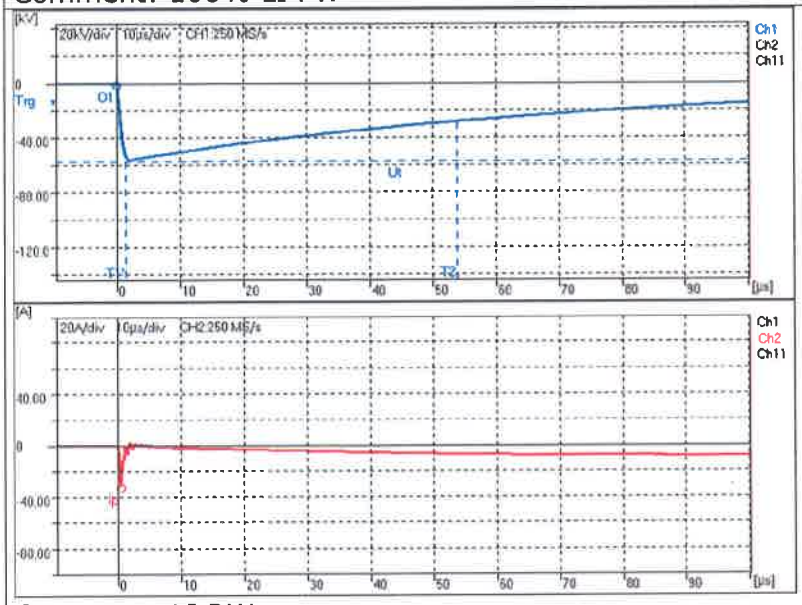


Comment: 100% LI FW

Fig.: 7
U_p = -94.84 kV
T_1 = 1.38 µs
T_2 = 53.93 µs
T_c = µs



Comment: LI RW

Fig.: 8
U_p = -55.90 kV
T_1 = 1.39 µs
T_2 = 53.94 µs
T_c = µs

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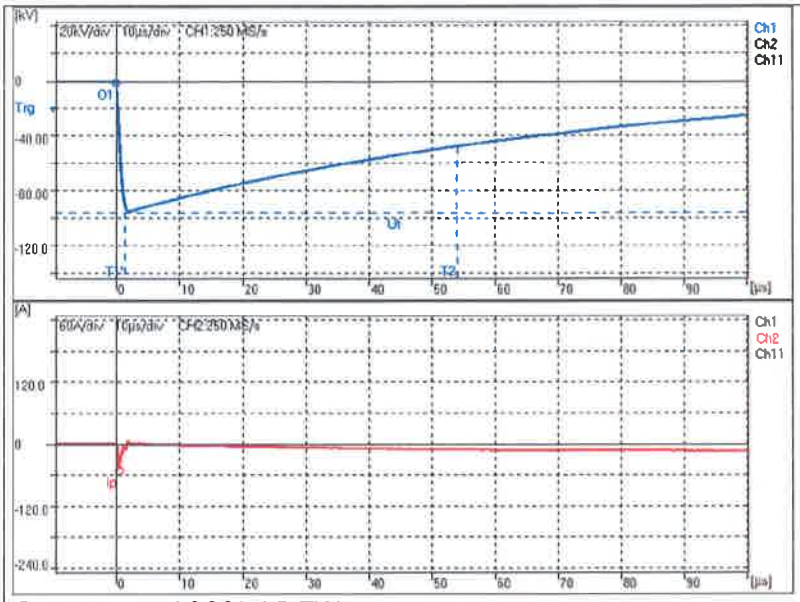
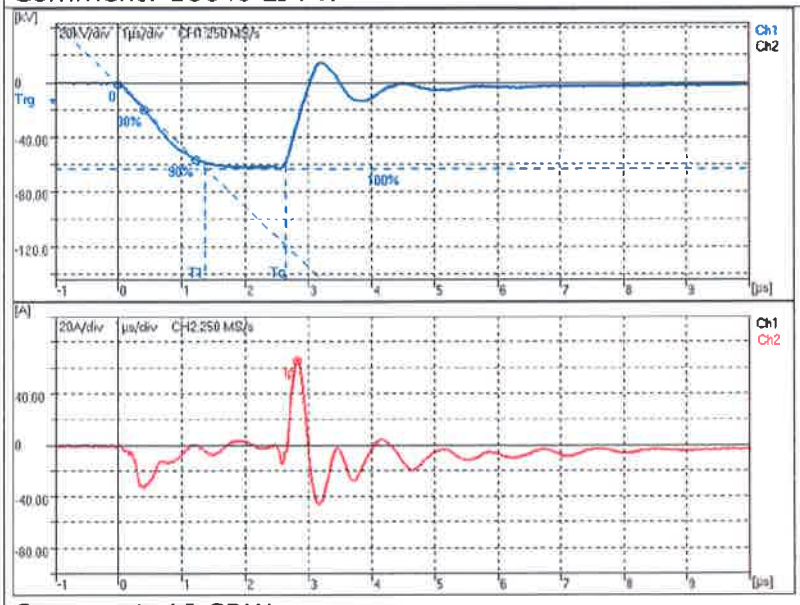


Comment: 100% LI FW

Fig.: 9
U_p = -95.00 kV
T_1 = 1.40 µs
T_2 = 54.10 µs
T_c = µs



Comment: LI CRW

Fig.: 10
U_p = -61.61 kV
T_1 = 1.38 µs
T_2 = µs
T_c = 2.64 µs

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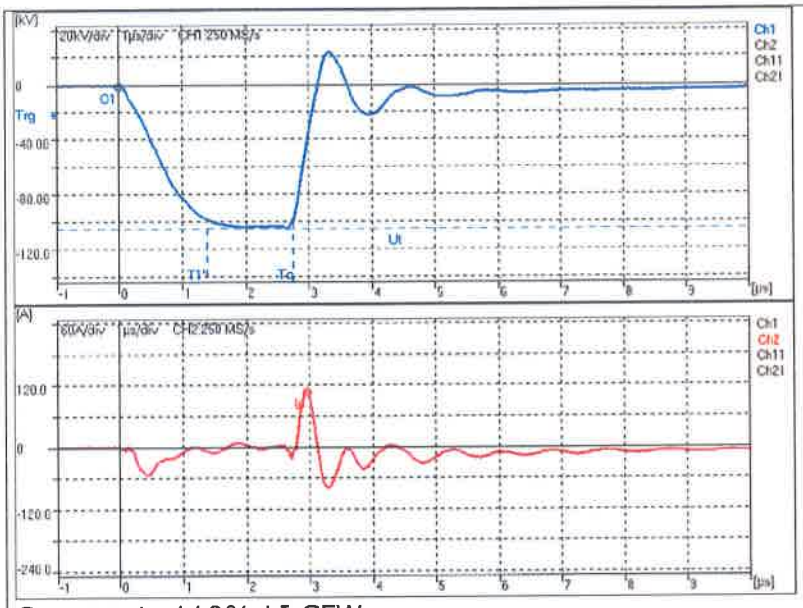
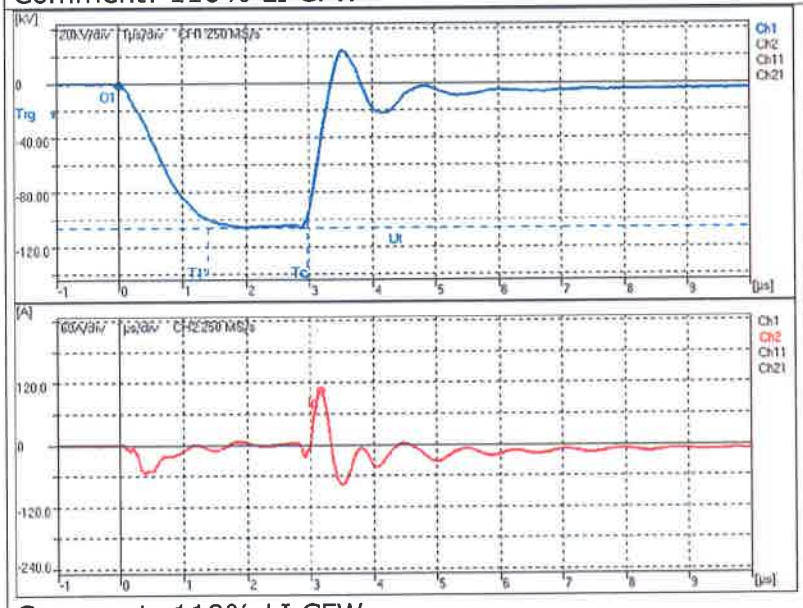


Comment: 110% LI CFW

Fig.: 11
U_p = -103.67 kV
T_1 = 1.39 µs
T_2 = µs
T_c = 2.76 µs



Comment: 110% LI CFW

Fig.: 12
U_p = -105.03 kV
T_1 = 1.40 µs
T_2 = µs
T_c = 2.97 µs

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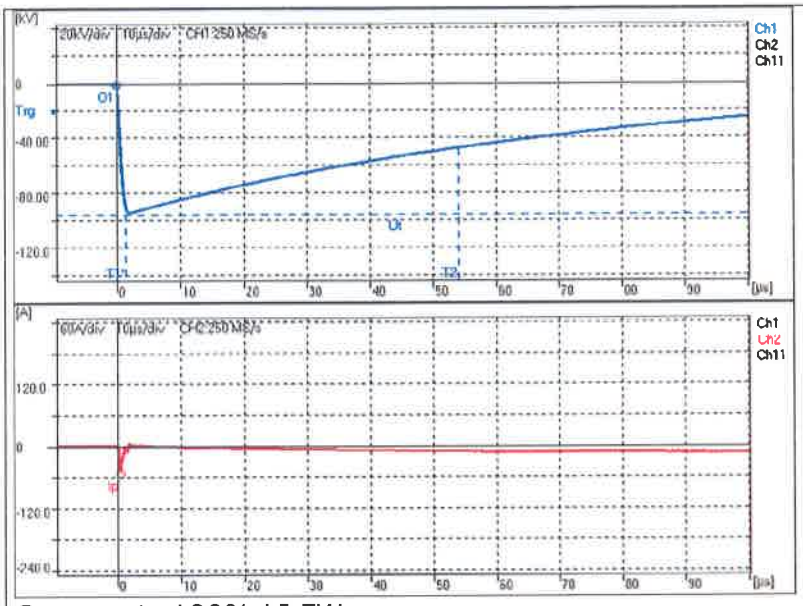
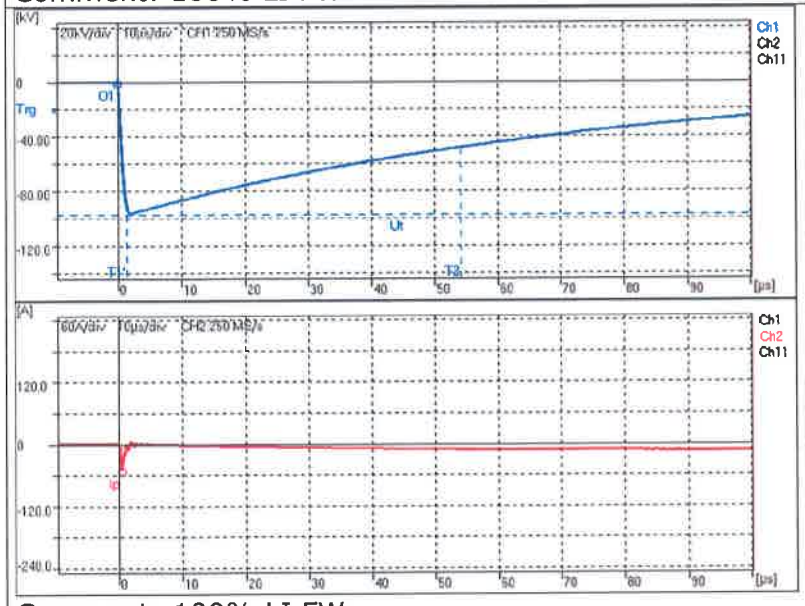


Comment: 100% LI FW

Fig.: 13
U_p = -94.56 kV
T_1 = 1.40 µs
T_2 = 54.14 µs
T_c = µs



Comment: 100% LI FW

Fig.: 14
U_p = -96.20 kV
T_1 = 1.40 µs
T_2 = 54.13 µs
T_c = µs

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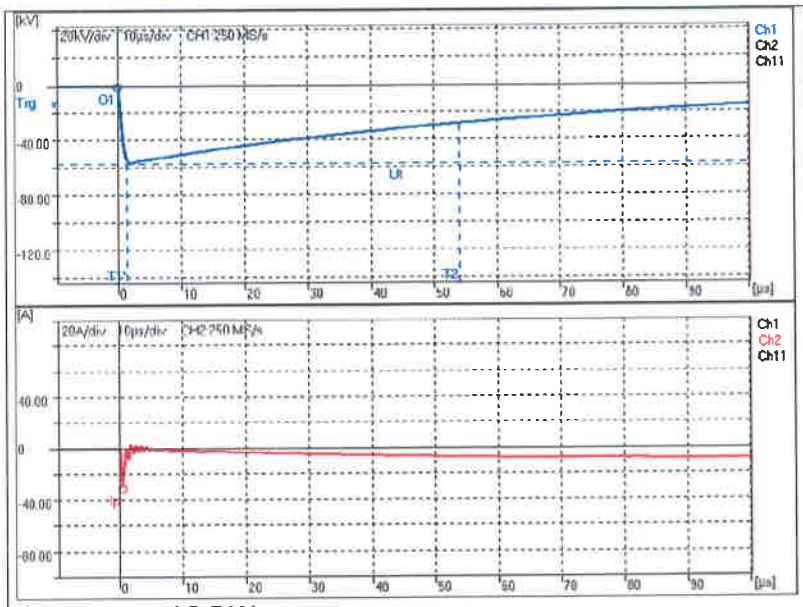
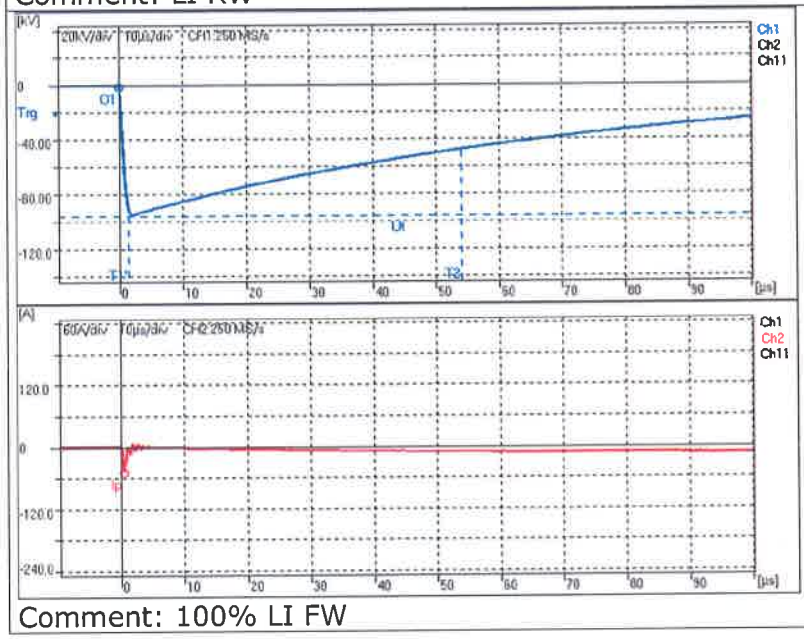


Comment: LI RW

Fig.: 15
U_p = -56.17 kV
T_1 = 1.38 µs
T_2 = 54.03 µs
T_c = µs



Comment: 100% LI FW

Fig.: 16
U_p = -94.70 kV
T_1 = 1.39 µs
T_2 = 54.04 µs
T_c = µs

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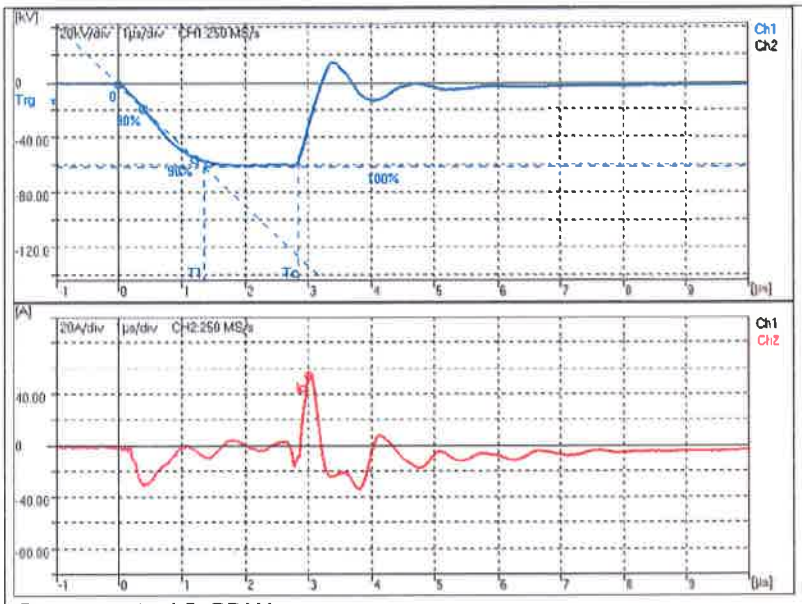
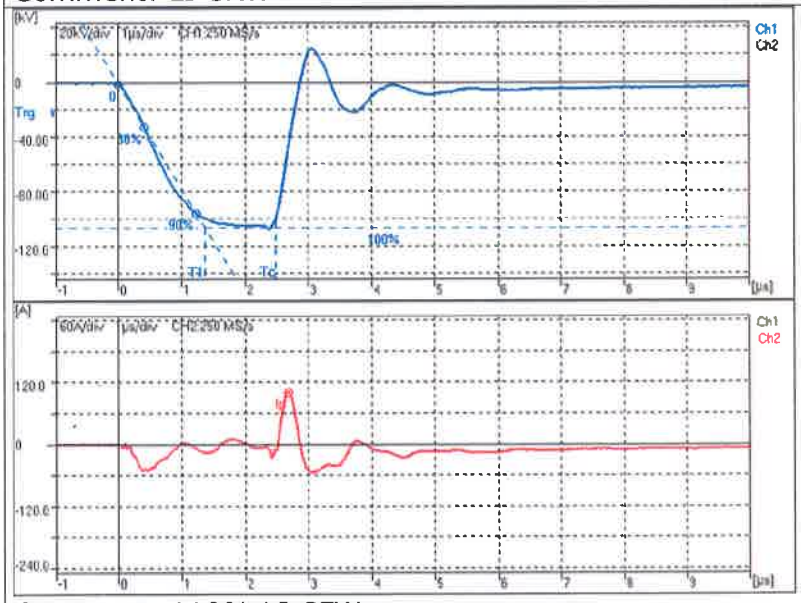


Comment: LI CRW

Fig.: 17
U_p = -60.20 kV
T_1 = 1.36 µs
T_2 = µs
T_c = 2.84 µs



Comment: 110% LI CFW

Fig.: 18
U_p = -105.40 kV
T_1 = 1.37 µs
T_2 = µs
T_c = 2.50 µs

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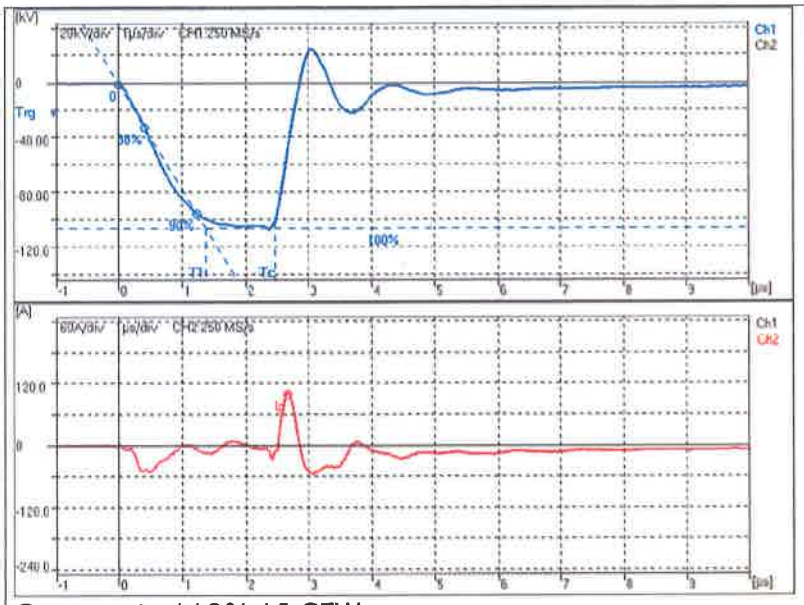
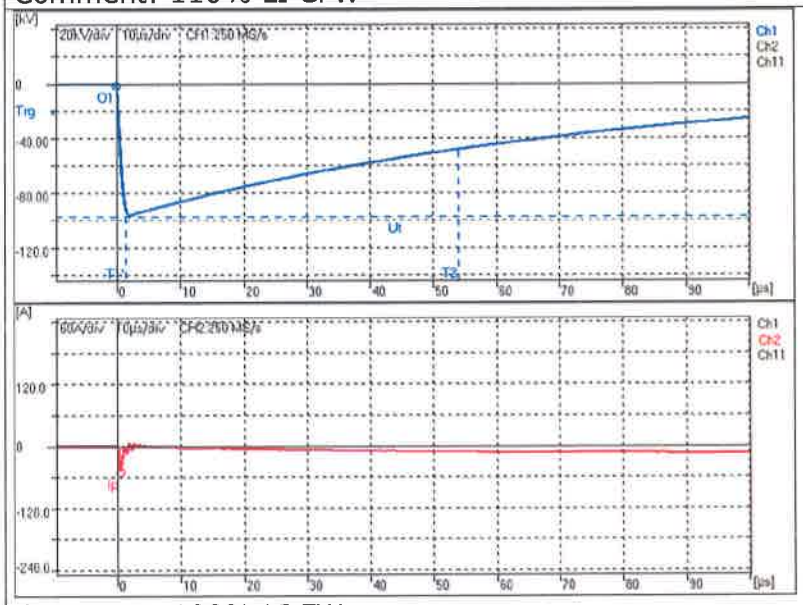
DATE : 27/03/2019



Comment: 110% LI CFW

Fig.: 19
U_p = -105.52 kV
T_1 = 1.37 µs
T_2 = µs
T_c = 2.49 µs



Comment: 100% LI FW

Fig.: 20
U_p = -95.99 kV
T_1 = 1.38 µs
T_2 = 53.99 µs
T_c = µs

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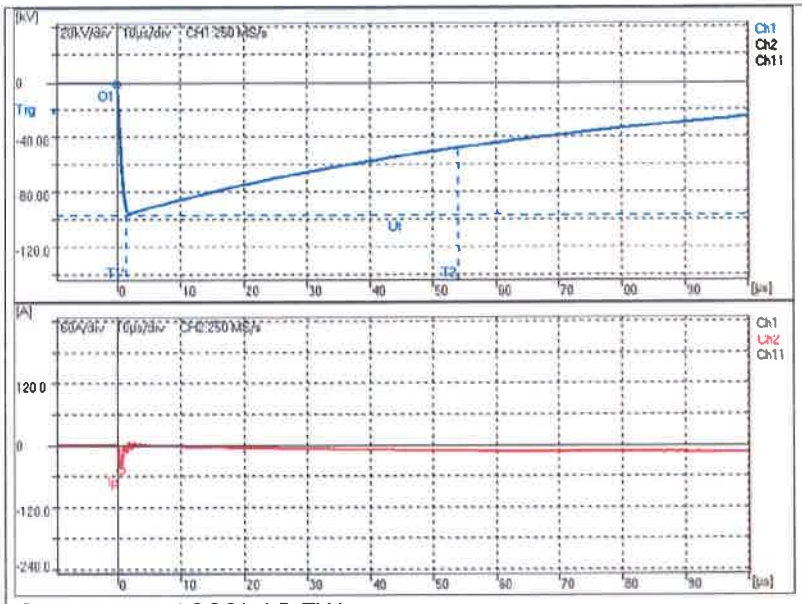

Comment: 100% LI FW

Fig.: 21
U_p = -95.33 kV
T_1 = 1.38 µs
T_2 = 54.06 µs
T_c = µs

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DATE : 27/03/2019

PHOTOGRAPH OF TEST SAMPLE

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TC 2743755

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION
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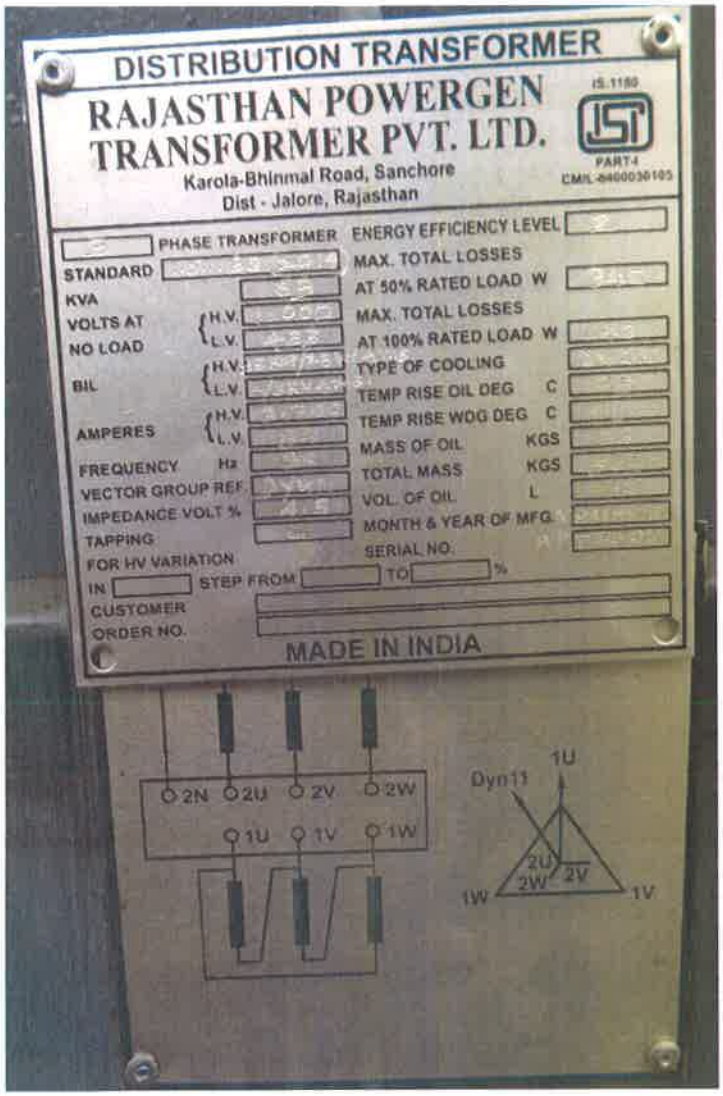
Certificate No. : TC-5389

TC5389190000009880F
TEST REPORT NO. : RP-1819-050495 **SHEET NO.:** 15 of 15
DATE : 27/03/2019

PHOTOGRAPH OF RATING AND TERMINAL MARKING PLATE



PREPARED BY

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TC 27437756

DISTRIBUTION TRANSFORMER

RAJASTHAN POWERGEN TRANSFORMER PVT. LTD.

KAROLA–BHINMAL ROAD KAROLA SANCHORE–343041
RAJASTHAN.(INDIA)

IS: 1180
PART-I
CM/L-8400030105

3 PHASE TRANSFORMER

STANDARD		IS:1180 (2014)	ENERGY EFFICIENCY LEVEL	2
KVA		63	MAX. TOTAL LOSSES	
VOLTS AT NO LOAD	HV	11000	AT 50% RATED LOAD W	340
	LV	433	MAX. TOTAL LOSSES	
BIL	HV	95kVp/28kVrms	AT 100% RATED LOAD W	1140
	LV	–/3kVrms	TYPE OF COOLING	ONAN
AMPERES	HV	3.306	TEMP RISE OIL DEG C	35
	LV	84	TEMP RISE WDG DEG C	40
FREQUENCY		50 Hz	MASS OF OIL KGS	126
VECTOR GROUP REF.		Dyn–11	TOTAL MASS KGS	505
IMPEDANCE VOLT %		4.5	VOL. OF OIL L	150
TAPPING		–	MONTH & YEAR OF MFG.	MAR–2019
			SERIAL NO.	RPTPL–001

FOR HV VARIATION
IN [ ] STEP FROM [ ] TO [ ] %

CUSTOMER
ORDER NO.

MADE IN INDIA

95
105
95
105

SIZE: 105x105 mm HOLE CENTER: 95x95 mm

NOTE:
* SERIAL NO,
YEAR OF MANUFACTURE &
MONTH OF MANUFACTURE
WILL BE PUNCHED AT THE TIME OF DISPATCH
MATERIAL : Anodized Aluminum
THICKNESS : 1.5mm

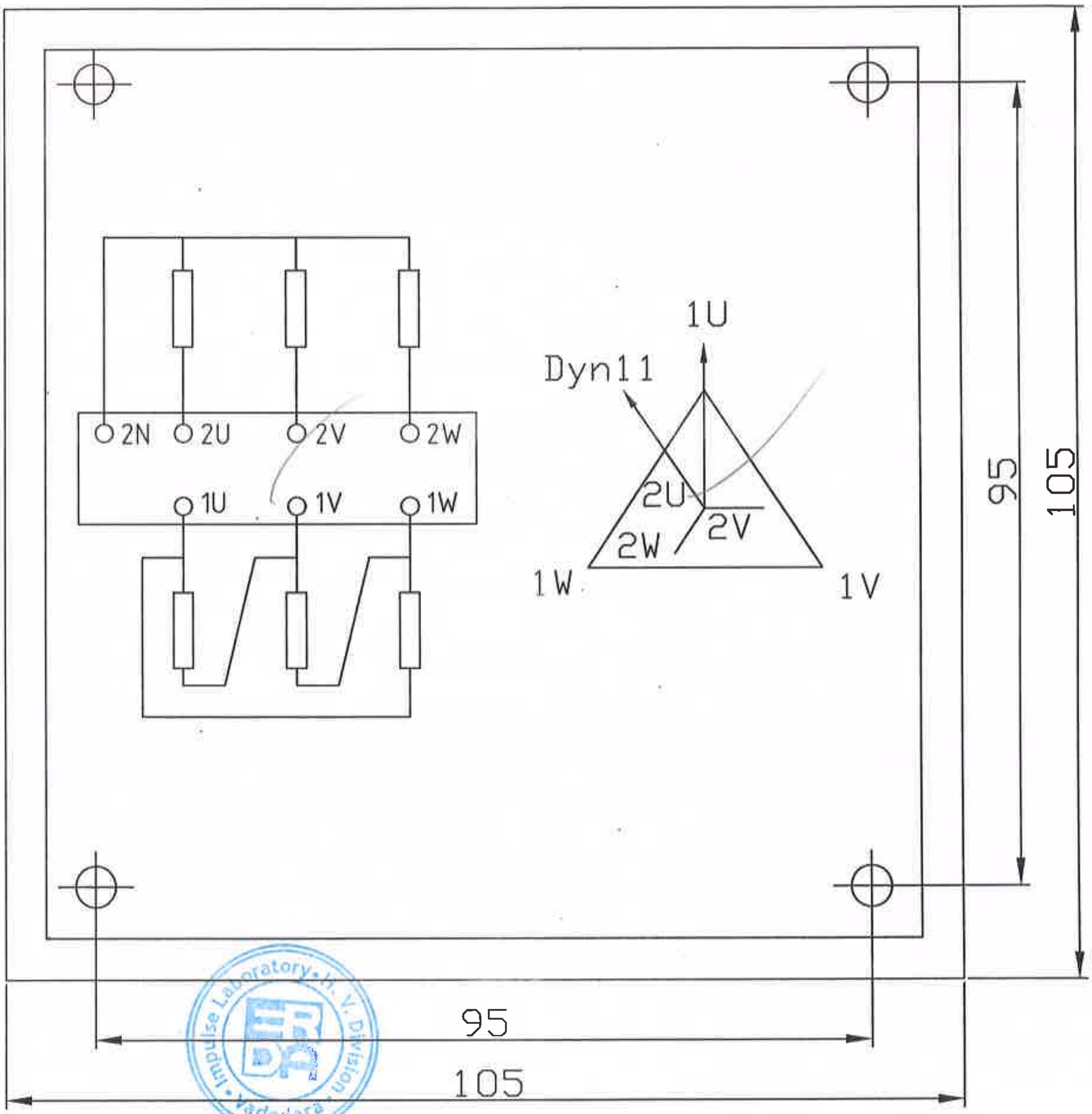
RAJASTHAN POWERGEN TRANSFORMER PVT. LTD.
KAROLA–BHINMAL ROAD KAROLA SANCHORE–343041
RAJASTHAN.

DRN BY		RATING & TERMINAL MARKING PLATE FOR
CHD BY		63 KVA, 11/0.433 KV DISTRIBUTION TRANSFORMER
APPD BY		3 PHASE, ENERGY EFFICIENCY LEVEL–2

REV. NO.	DATE SIGN	BRIEF DESCRIPTION
	16.03.2019	01 of 02

DRG. NO.RPTPL–63KVA–RP–01/02–2019

Test Report No. RP-1819-050495
Date: 27/03/2019
Product: 63KVA
Verified by: Dinesh ERDA is
Verification of this drawing by ERDA is limited to relevant dimensional checks only.
Verified dimensions are marked with. *



SIZE: 105x105 mm HOLE CENTER: 95x95 mm

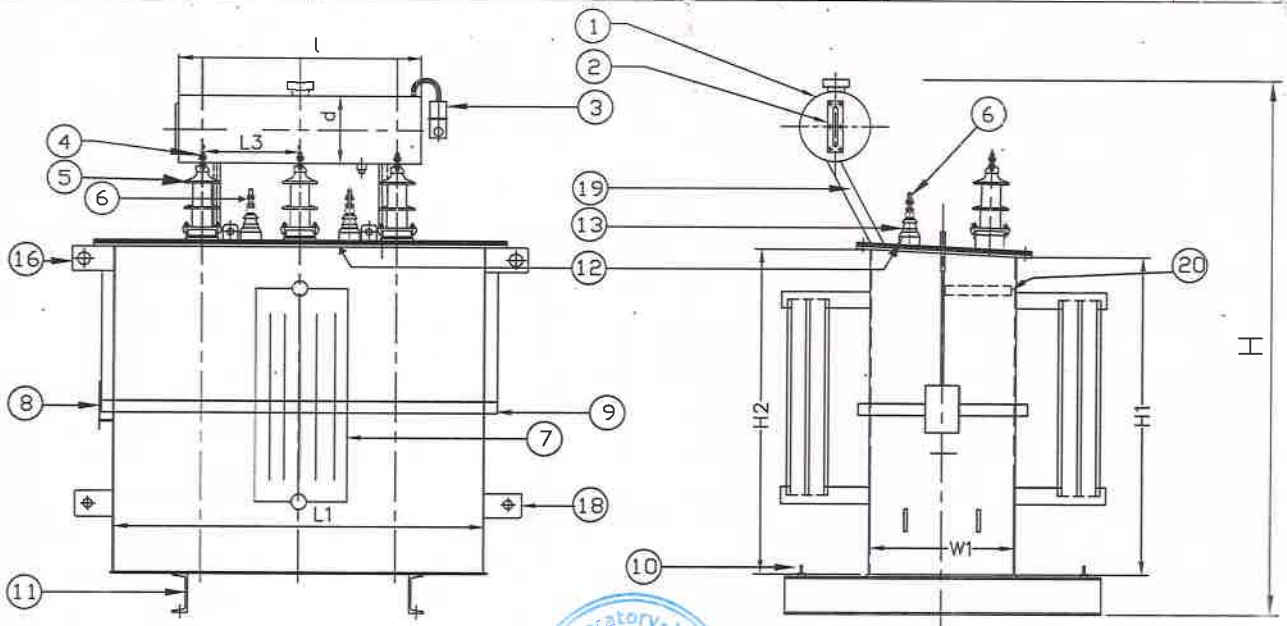
. NOTE:
* SERIAL NO ,
YEAR OF MANUFACTURE &
MONTH OF MANUFACTURE
WILL BE PUNCHED AT THE TIME OF DISPATCH
MATERIAL : Anodized Aluminum
THICKNESS : 1.5 mm

RAJASTHAN POWERGEN TRANSFORMER PVT. LTD.

KAROLA–BHINMAL ROAD KAROLA SANCHORE–343041
RAJASTHAN.

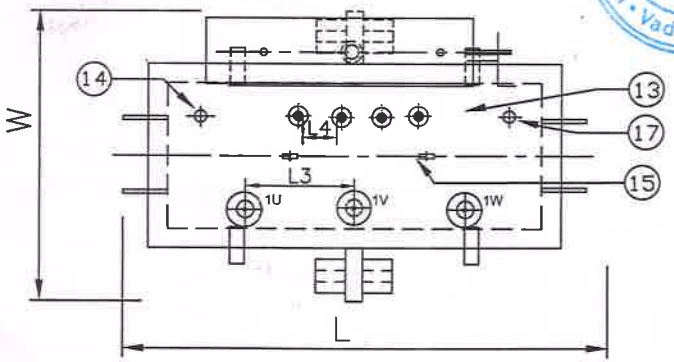
DRN BY		RATING & TERMINAL MARKING PLATE FOR 63 KVA, 11/0.433 KV DISTRIBUTION TRANSFORMER 3 PHASE , ENERGY EFFICIENCY LEVEL–2
CHD BY		
APPD BY		
		DRG. NO. RPTPL–63KVA–RP–02/02–2019

REV. NO.	DATE SIGN	BRIEF DESCRIPTION
	16.03.2019	02 of 02



ELEVATION

SIDE VIEW



PLAN

SR.NO.	ACCESSORIES	QTY.	TECHNICAL DETAILS AS PER SPEC.	TECHNICAL DETAILS AS PER OFFER
1	CONSERVATOR WITH OIL FILLING HOLE WITH CAP & DRAIN PLUG	1	M.S.	M.S.
2	OIL LEVEL GAUGE WITH 3 POSITION	1	---	---
*3	SILICAGEL BREATHER (500 Grams.)	1	AL. DIE CAST	AL. DIE CAST
4	H.V. TERMINAL 12m.m. DIA.WITH NUT	3	BRASS	BRASS
5	H.V. BUSHING 12KV, 250A	3	PORCELAIN	PORCELAIN
6	L.V. TERMINAL 12 m.m. DIA. WITH NUT	4	BRASS	BEASS
7	COOLING RADIATOR	2	---	C.R.C.
8	RATING &TERMINAL MARKING PLATE	1	ANODIZED ALU	ANODIZED ALU
9	STIFFENER ANGLE SIZE (40x40x5 mm.)	4	M.S.	M.S.
10	EARTHING TERMINAL WITH LUGS SIZE(16 Amp.)	2	M.S.	M.S.
11	BASE CHANNELS 75x40x460mm. LONG.	2	M.S.	M.S.
12	L.V. BUSHING TURRET	4	TENDER DRG.	TENDER DRG.
13	L.V. BUSHING 1.1KV,250A	4	PORCELAIN	PORCELAIN
14	THERMOMETER POCKET	1	M.S.	M.S.
15	LIFTING LUGS FOR COVER	2	M.S.	M.S.
16	LIFTING LUGS FOR TANK REINFORCED WITH FLAT	2	M.S.	M.S.
17	AIR RELEASE PLUG	1	M.S.	M.S.
18	PULLING LUG	4	M.S.	M.S.
19	CONSERVATOR PIPE	2	M.S.	M.S.
*20	METALLIC TIN PLATE	1	S.S.	S.S.

	COOLING DETAILS	
1	TOTAL SURFACE AREA :-TANK= 1.7898 sq. m.	
2	NUMBER OF RADIATORS	2
3	HEIGHT x WIDTH OF FINS	300 x 600 long
1	TOTAL NUMBER OF COOLING FINS	6 Fins

1	WEIGHTS IN KGS. (+/- 10% TOL.)		5	DIMENSIONS IN m.m.
	CORE	172		TRANSFORMER OVERALL (+/- 10% TOLERANCE)
	WINDINGS	78		*L = 990
	TANK & FITTINGS	110		*W = 730
	OIL	126		*H = 1375
	TOTAL WEIGHT	505		TRANSFORMER TANK (+/- 10% TOLERANCE)
2	THICKNESS IN m.m.			*L1 = 830
	TANK SIDE PLATES (MIN.)	3. 15		*W1 = 310
	TOP & BOTTOM PLATES (MIN.)	5		*H1/H2 = 780 / 790
3	TOLERANCE		6	BUSHING CLEARANCES WITH ANGLE
	OVERALL DIMENSIONS	+/- 10 %		*L3 (H.V.) 255 PHASE TO PHASE
4	DIMENSIONS OF CONSERVATOR			*L4 (L.V.) 75 PHASE TO PHASE
	a) INSIDE DIAMETER IN mm.	165		*L5 (H.V.) 205 PHASE TO EARTH
	b) LENGTH IN mm.	700		*L6 (L.V.) 55 PHASE TO EARTH
	c) CAPACITY IN LTRS.	15		

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Test Report No. RP-1819-050495
Date : 27/03/2019
Product : 63KVA Dummy
Verified By : Nimesh
Verification of this drawing by ERDA is limited to relevant dimensional checks only.
Verified dimensions are marked with. *

NOTE

1 SHAPE OF TANK: RECTANGULAR SHAPE
2 ALL DIMENSIONS ARE IM mm UNLESS OTHERWISE STATED.
3 METALLIC TIN PLATE: OPPOSITE SIDE OF COMBINED NAME PLATE
4 * NOT PROVIDED DURING TESTING

RAJASTHAN POWERGEN TRANSFORMER PVT. LTD.

KAROLA-BHINMAL ROAD KAROLA, SANCHORE-343041

GENERAL ARRANGEMENT DRAWING
63 KVA 11/0.433 KV DIST. TRANSFORMER
ENERGY EFFICIENCY LEVEL-2

DRG.NO.: RPTPL-GA-63KVA-02-2019

DATE: 16.03.2019