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TEST REPORT

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(India)	TEST REPORT NO. : RP-1718-045145 DATE : 12/12/2017	
	CUSTOMER REF. NO. : NP/ERDA/TT/41/2017-18 DATED : 29/11/2017	
	DATE OF SAMPLE RECEIPT	DATE OF TESTING
	30/11/2017	11/12/2017
SAMPLE DESCRIPTION : DISTRIBUTION TRANSFORMER ENERGY EFFICIENCY LEVEL : 3 RATING : 100 kVA RATED VOLTS : 11000/433 V RATED CURRENT : 5.25/133.34 A NO. OF PHASE : 03 TYPE OF COOLING : ONAN FREQUENCY : 50 Hz % IMPEDANCE : 4.5% VECTOR GROUP : Dyn 11 B.I.L. : H. V. : 28kVrms/95 kVp L. V. : 3 kVrms/----	SAMPLE IDENTIFICATION : SR. NO. : RPTPL/100KVA/2017-18/001 YEAR OF MFG. : 2017 MFG. BY : M/s. Rajasthan Powergen Transformer PVT. LTD. ERDA Sample Code No.: ERDA-00229058	
TEST DETAIL : Lightning Impulse Test with Chopped on the Tail on all the three phases of HV Terminals at 95 kVp.	TEST SPECIFICATION : As per IS:1180 (Part-I)-2014, Cl.No. 21.3.a Amendment No.1 & 2 and Test voltage was Specified by the customer.(Test Procedure was Followed as per IS : 2026-(Part-III)-2009, Cl. No. 14)	
ENCLOSURE : DRG. NO.: 1) RPTPL/100KVA/003 2) RPTPL/100KVA/002	TEST WITNESSED BY: ----	
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. 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. 5. In case of any dispute, Vadodara will be the exclusive jurisdiction & shall be constructed as where the cause has arisen		
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Waveform	Comment	Ut / kVp	T1 / μ s	T2 / μ s	Tc / μ s
1U PHASE					
1	60% LI RW	-54.040	1.280	54.211	
2	100% LI FW	-93.825	1.285	54.685	
3	60% LI CRW	-59.598	1.274		2.193
4	110% LI CFW	-105.113	1.279		2.537
5	110% LI CFW	-103.884	1.299		4.105
6	100% LI FW	-93.897	1.278	54.728	
7	100% LI FW	-95.197	1.285	54.585	
1V PHASE					
8	60% LI RW	-56.770	1.288	54.507	
9	100% LI FW	-95.120	1.288	54.758	
10	60% LI CRW	-57.501	1.296		2.659
11	110% LI CFW	-102.488	1.295		3.172
12	110% LI CFW	-103.699	1.275		2.430
13	100% LI FW	-96.896	1.285	54.797	
14	100% LI FW	-95.890	1.297	54.832	
1W PHASE					
15	60% LI RW	-57.380	1.277	54.416	
16	100% LI FW	-94.756	1.273	54.795	
17	60% LI CRW	-56.652	1.274		2.579
18	110% LI CFW	-105.218	1.281		3.087
19	110% LI CFW	-104.993	1.281		3.501
20	100% LI FW	-95.542	1.275	54.803	
21	100% LI FW	-94.262	1.275	54.699	



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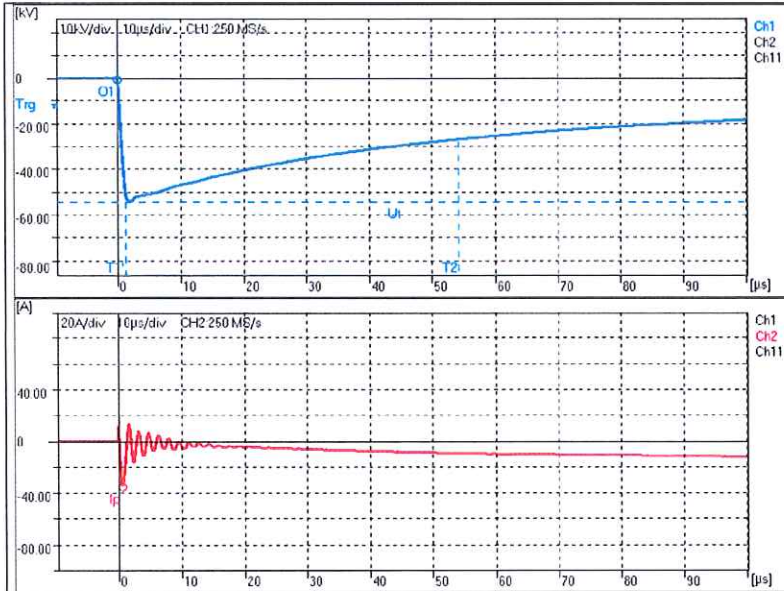
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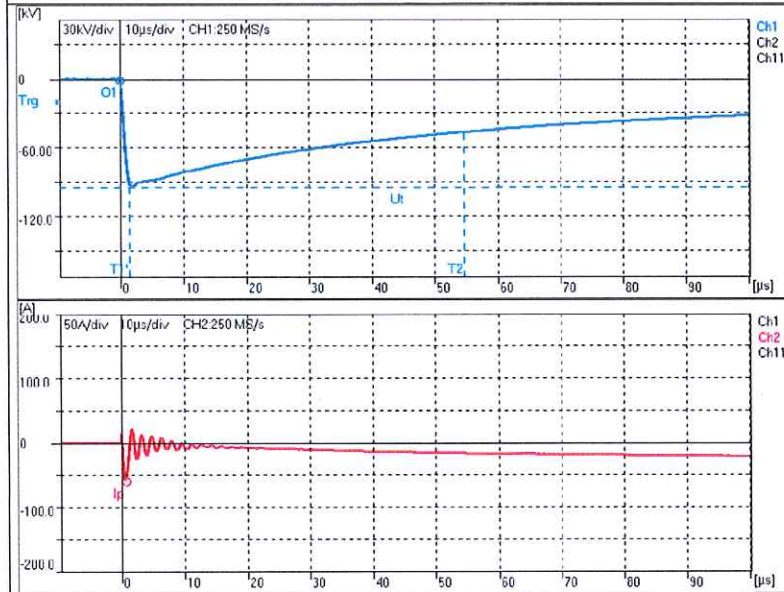
TEST REPORT NO. : RP-1718-045145

SHEET NO.: 3 of 15

DATE : 12/12/2017



Comment: 60% LI RW



Comment: 100% LI FW

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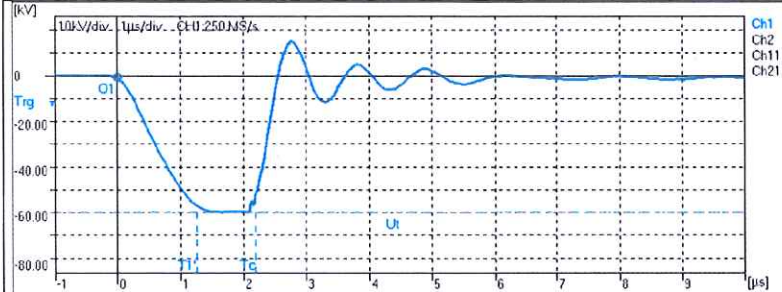


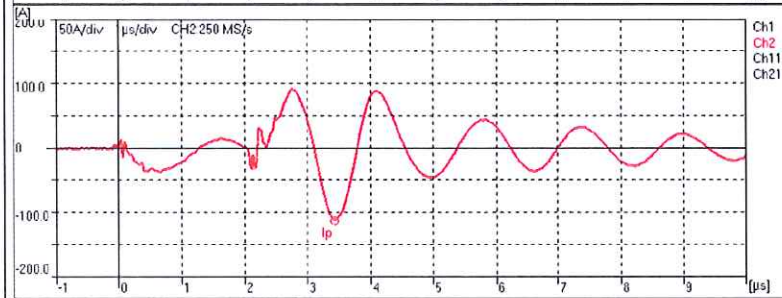
Fig.: 3

$U_p = -59.60 \text{ kV}$

$T_1 = 1.27 \text{ μs}$

$T_2 = \text{μs}$

$T_c = 2.19 \text{ μs}$



Comment: 60% LI CRW

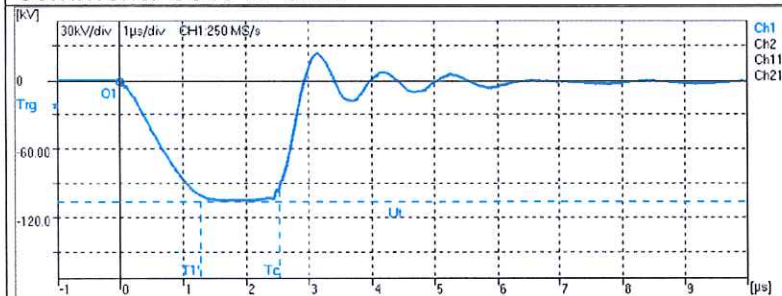


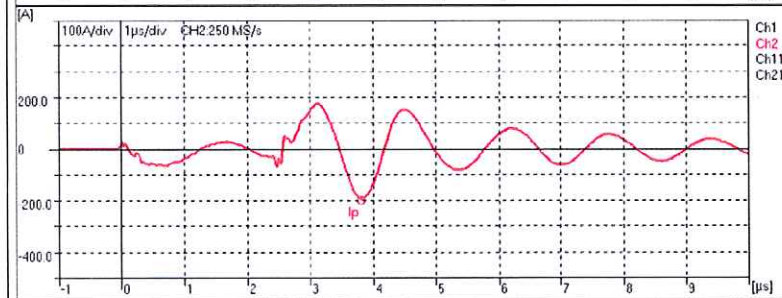
Fig.: 4

$U_p = -105.11 \text{ kV}$

$T_1 = 1.28 \text{ μs}$

$T_2 = \text{μs}$

$T_c = 2.54 \text{ μs}$



Comment: 110% LI CFW

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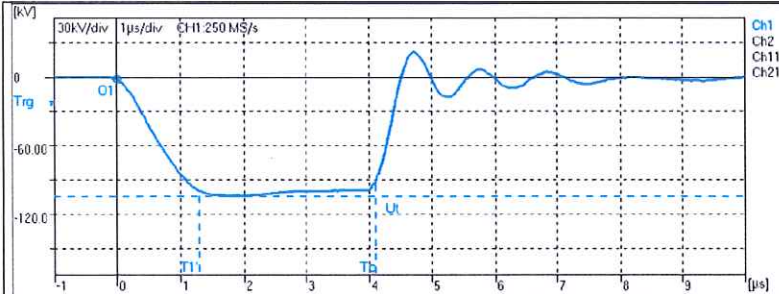
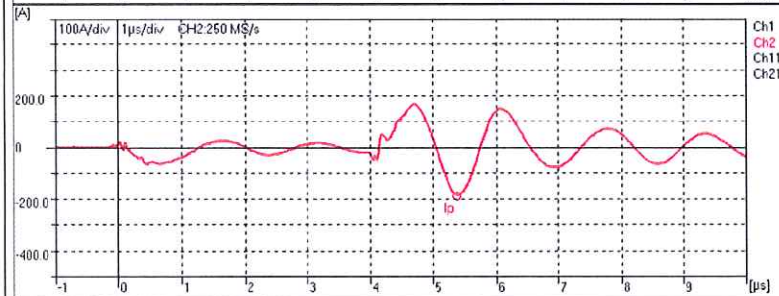


Fig.: 5
 $U_p = -103.88 \text{ kV}$
 $T_1 = 1.30 \text{ } \mu\text{s}$
 $T_2 = \text{ } \mu\text{s}$
 $T_c = 4.11 \text{ } \mu\text{s}$



Comment: 110% LI CFW

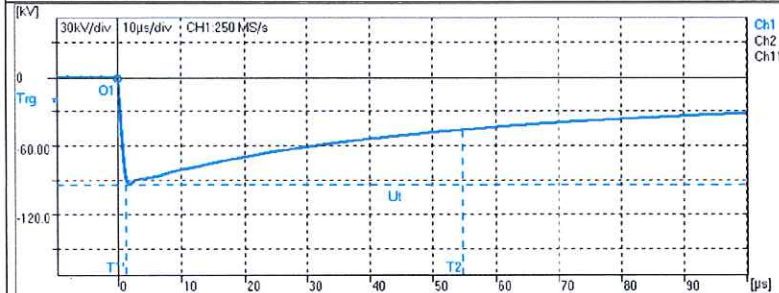
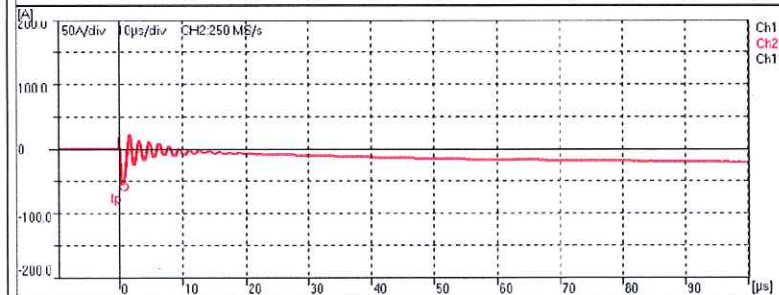


Fig.: 6
 $U_p = -93.90 \text{ kV}$
 $T_1 = 1.28 \text{ } \mu\text{s}$
 $T_2 = 54.73 \text{ } \mu\text{s}$
 $T_c = \text{ } \mu\text{s}$



Comment: 100% LI FW

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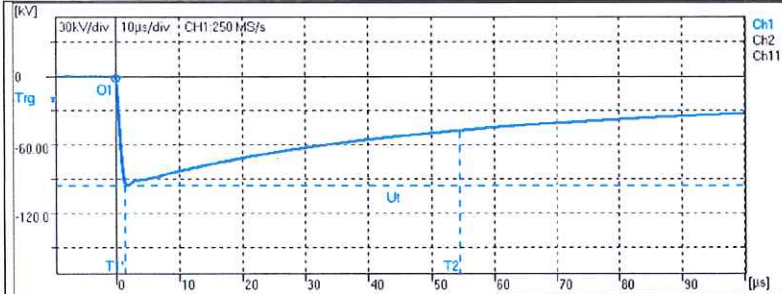


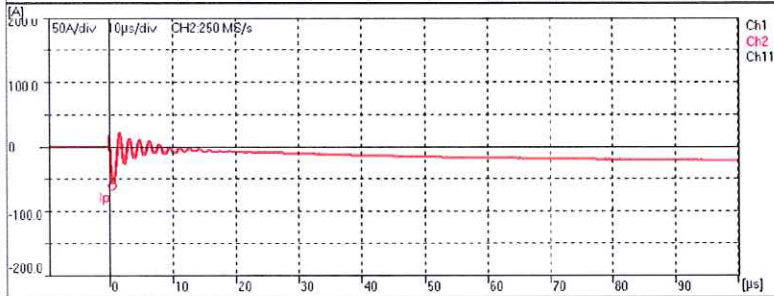
Fig.: 7

$U_p = -95.20 \text{ kV}$

$T_1 = 1.28 \text{ } \mu\text{s}$

$T_2 = 54.58 \text{ } \mu\text{s}$

$T_c = \text{ } \mu\text{s}$



Comment: 100% LI FW

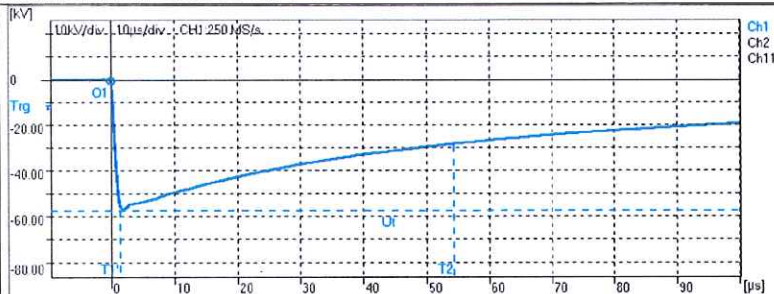


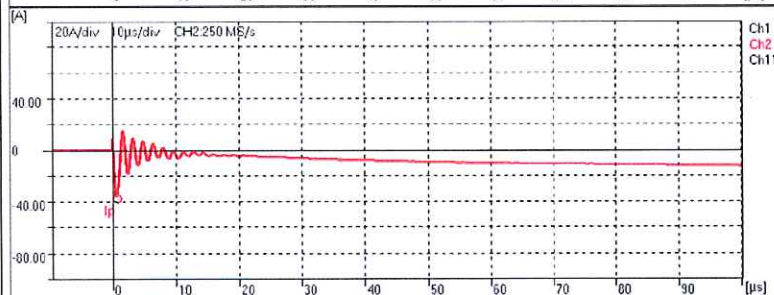
Fig.: 8

$U_p = -56.77 \text{ kV}$

$T_1 = 1.29 \text{ } \mu\text{s}$

$T_2 = 54.51 \text{ } \mu\text{s}$

$T_c = \text{ } \mu\text{s}$



Comment: 60% LI RW

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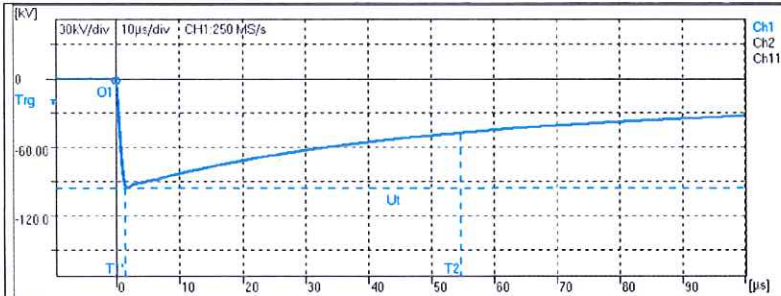


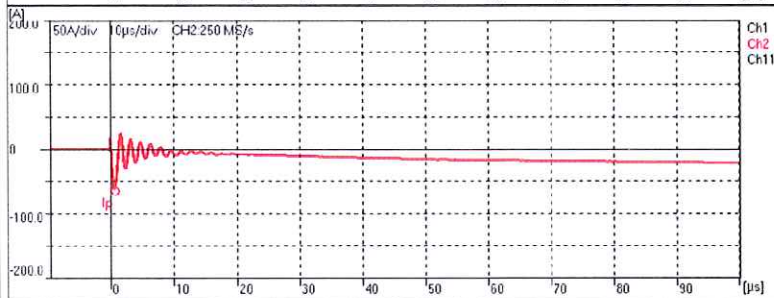
Fig.: 9

$U_p = -95.12 \text{ kV}$

$T_1 = 1.29 \mu\text{s}$

$T_2 = 54.76 \mu\text{s}$

$T_c = \mu\text{s}$



Comment: 100% LI FW

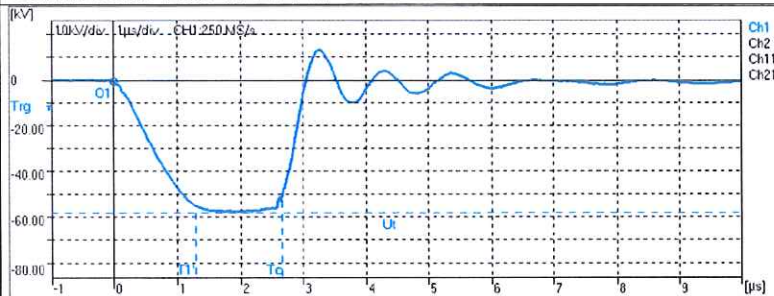


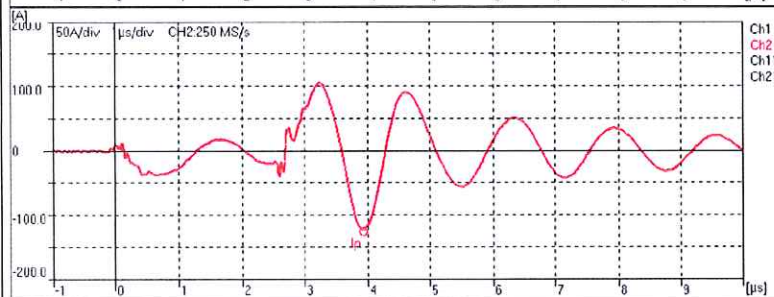
Fig.: 10

$U_p = -57.50 \text{ kV}$

$T_1 = 1.30 \mu\text{s}$

$T_2 = \mu\text{s}$

$T_c = 2.66 \mu\text{s}$



Comment: 60% LI CRW

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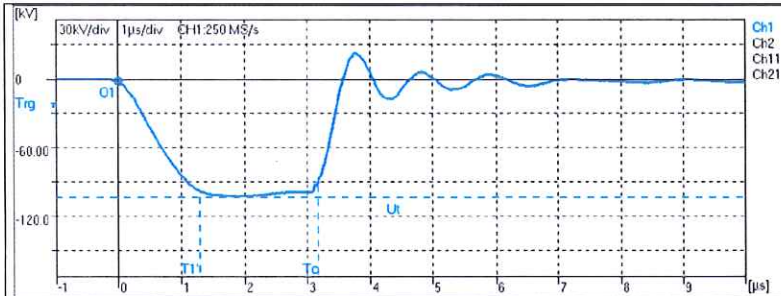


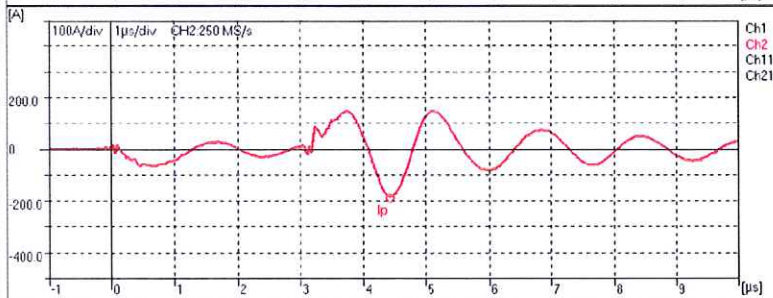
Fig.: 11

$U_p = -102.49 \text{ kV}$

$T_1 = 1.29 \mu\text{s}$

$T_2 = \mu\text{s}$

$T_c = 3.17 \mu\text{s}$



Comment: 110% LI CFW

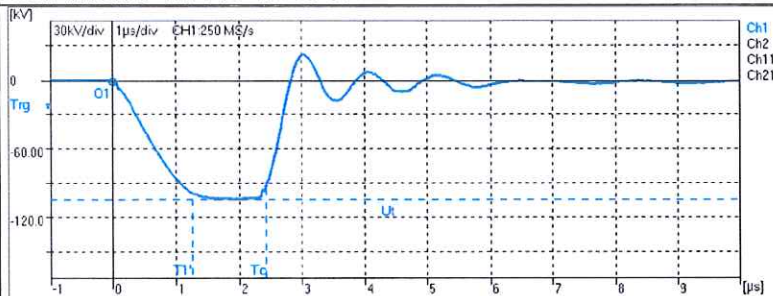


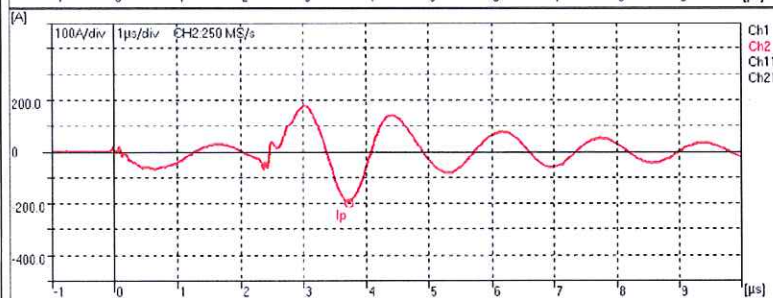
Fig.: 12

$U_p = -103.70 \text{ kV}$

$T_1 = 1.28 \mu\text{s}$

$T_2 = \mu\text{s}$

$T_c = 2.43 \mu\text{s}$



Comment: 110% LI CFW

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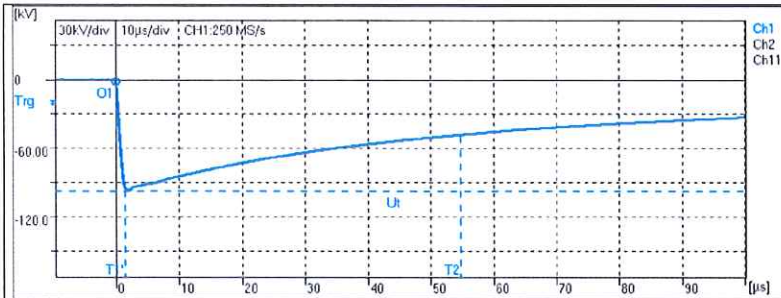
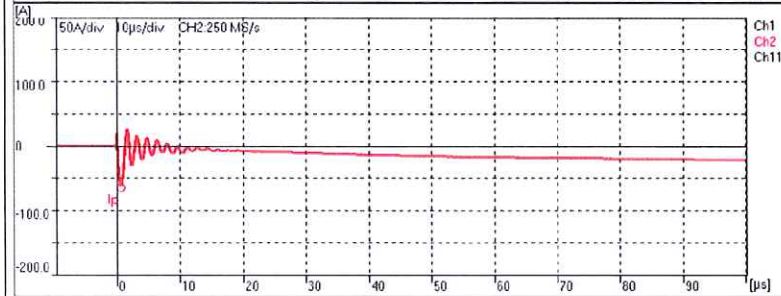


Fig.: 13
 $U_p = -96.90 \text{ kV}$
 $T_1 = 1.28 \text{ } \mu\text{s}$
 $T_2 = 54.80 \text{ } \mu\text{s}$
 $T_c = \text{ } \mu\text{s}$



Comment: 100% LI FW

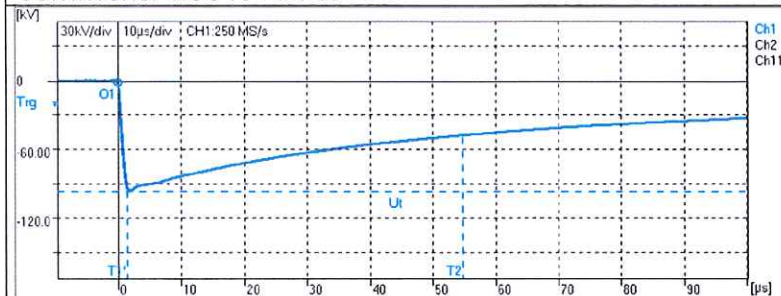
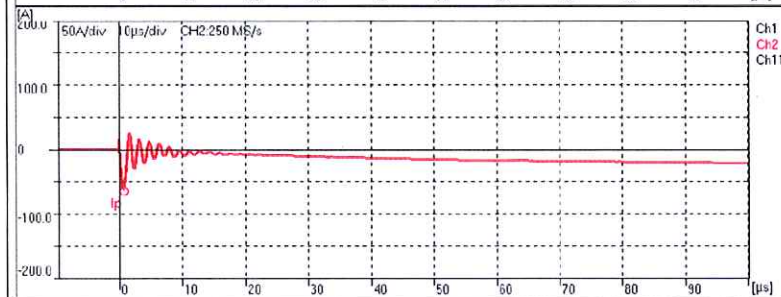


Fig.: 14
 $U_p = -95.89 \text{ kV}$
 $T_1 = 1.30 \text{ } \mu\text{s}$
 $T_2 = 54.83 \text{ } \mu\text{s}$
 $T_c = \text{ } \mu\text{s}$



Comment: 100% LI FW

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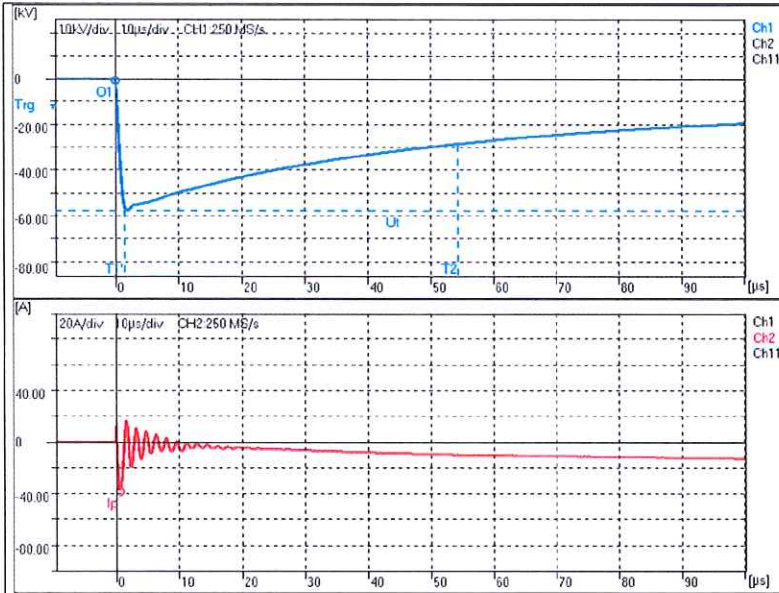


Fig.: 15
 $U_p = -57.38 \text{ kV}$
 $T_1 = 1.28 \text{ µs}$
 $T_2 = 54.42 \text{ µs}$
 $T_c = \text{µs}$

Comment: 60% LI RW

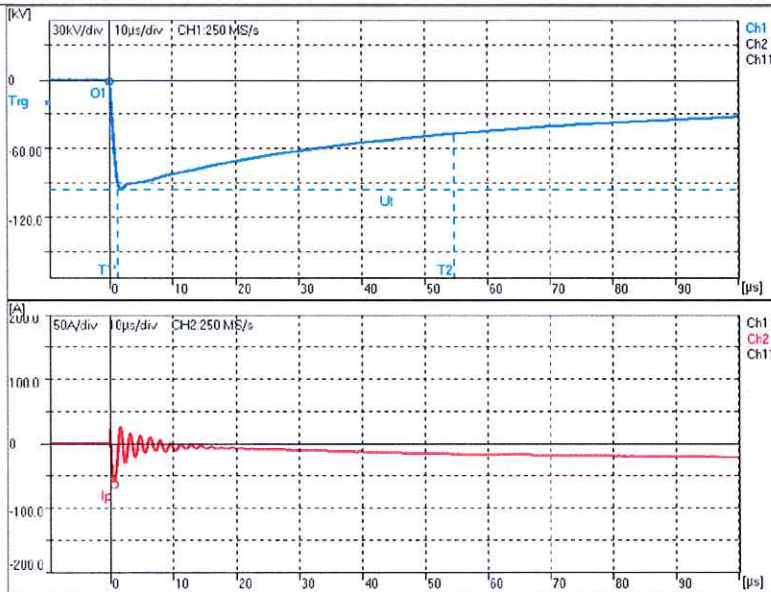


Fig.: 16
 $U_p = -94.76 \text{ kV}$
 $T_1 = 1.27 \text{ µs}$
 $T_2 = 54.80 \text{ µs}$
 $T_c = \text{µs}$

Comment: 100% LI FW

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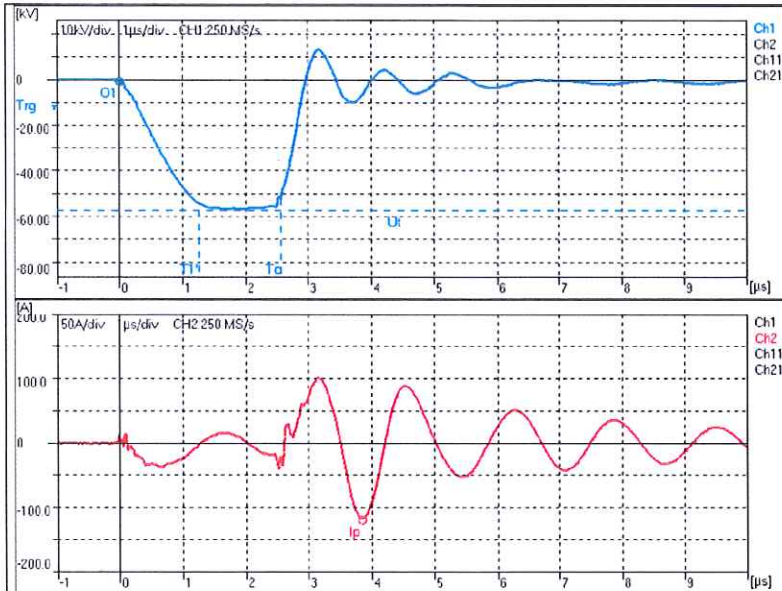


Fig.: 17
 $U_p = -56.65 \text{ kV}$
 $T_1 = 1.27 \mu\text{s}$
 $T_2 = \mu\text{s}$
 $T_c = 2.58 \mu\text{s}$

Comment: 60% LI CRW

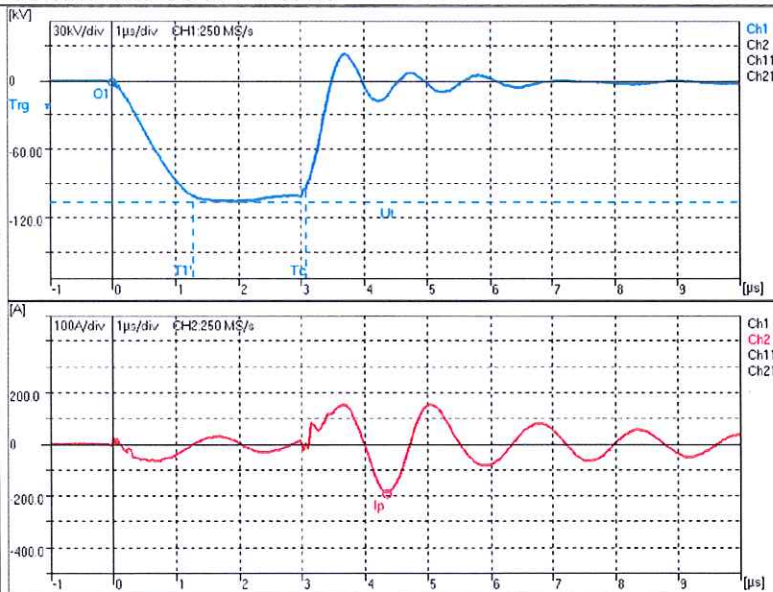


Fig.: 18
 $U_p = -105.22 \text{ kV}$
 $T_1 = 1.28 \mu\text{s}$
 $T_2 = \mu\text{s}$
 $T_c = 3.09 \mu\text{s}$

Comment: 110% LI CFW

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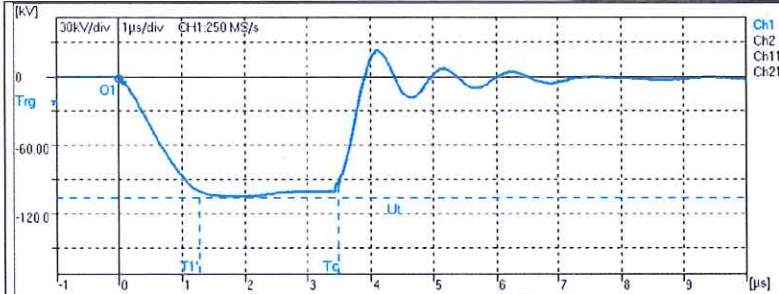
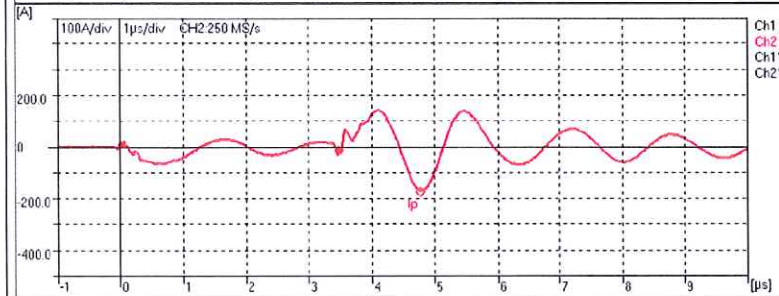


Fig.: 19
 $U_p = -104.99 \text{ kV}$
 $T_1 = 1.28 \text{ } \mu\text{s}$
 $T_2 = \text{ } \mu\text{s}$
 $T_c = 3.50 \text{ } \mu\text{s}$



Comment: 110% LI CFW

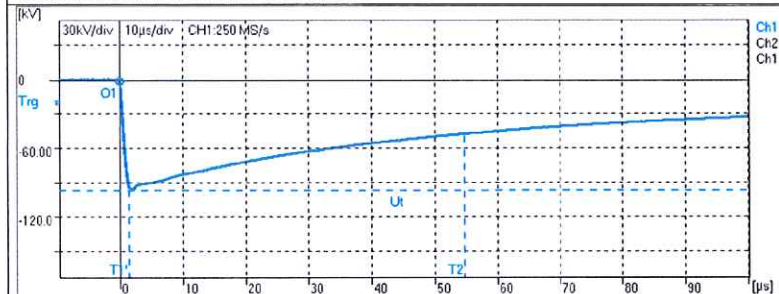
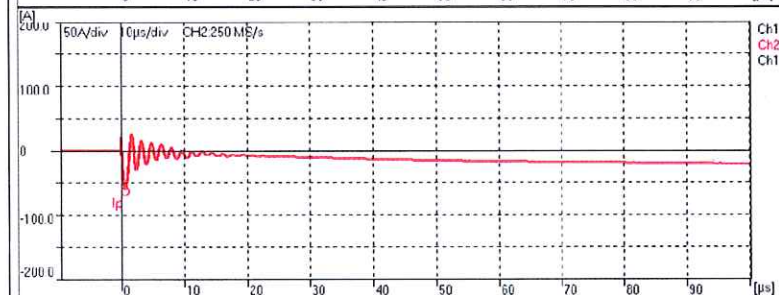


Fig.: 20
 $U_p = -95.54 \text{ kV}$
 $T_1 = 1.27 \text{ } \mu\text{s}$
 $T_2 = 54.80 \text{ } \mu\text{s}$
 $T_c = \text{ } \mu\text{s}$



Comment: 100% LI FW

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TEST REPORT NO. : RP-1718-045145

SHEET NO.: 13 of 15

DATE : 12/12/2017

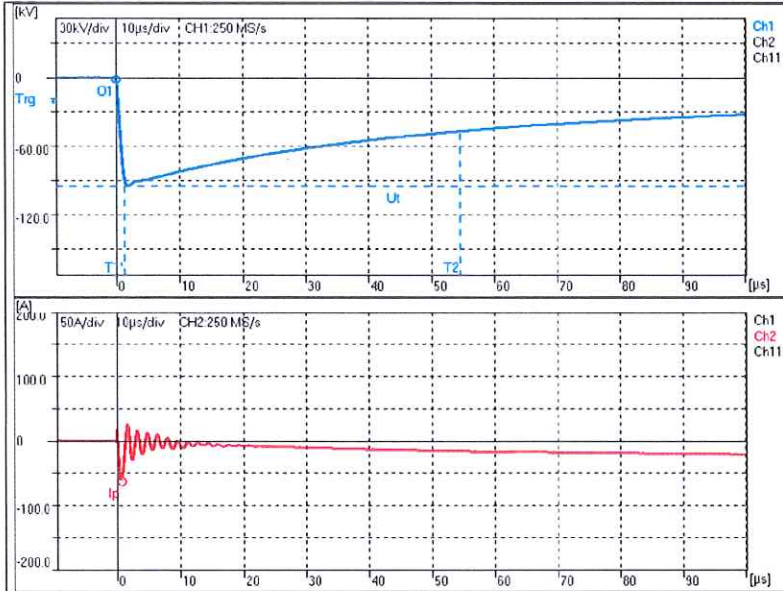


Fig.: 21
 $U_p = -94.26 \text{ kV}$
 $T_1 = 1.28 \text{ } \mu\text{s}$
 $T_2 = 54.70 \text{ } \mu\text{s}$
 $T_c = \text{ } \mu\text{s}$

Comment: 100% LI FW

PREPARED BY



CHECKED BY

TC 2396332



Certificate No. : TC-5389

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

(Accredited by the National Accreditation Board for Testing and Calibration Laboratories, Govt. of India)

ERDA Road, Makarpura Industrial Estate, Vadodara-390 010, India.

EPABX : +91 (0265) 2642942, 2642964, 2642377, 3043128 / 29 / 30 / 31 / 33

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Web : <http://www.erda.org>



TEST REPORT NO. : RP-1718-045145
DATE : 12/12/2017

SHEET NO.: 14 of 15

PHOTOGRAPH OF TEST SAMPLE



[Signature]

PREPARED BY



[Signature]

CHECKED BY

TC 2396333



Certificate No. : TC-5389

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TEST REPORT NO. : RP-1718-045145
DATE : 12/12/2017

SHEET NO.: 15 of 15

PHOTOGRAPH OF RATING AND TERMINAL MARKING PLATE

DISTRIBUTION TRANSFORMER

RAJASTHAN POWERGEN TRANSFORMER PVT. LTD.

Karola-Bhinmal Road, Karola, Sanchole-343 041.
Dist : Rajasthan INDIA

IS 1180 (PART-I)/2014

3	PHASE TRANSFORMER	ENERGY EFFICIENCY LEVEL	3
STANDARD	IS:1180(PART-I)/2014	MAX. TOTAL LOSSES AT 50% LOAD W	435
KVA	100	MAX. TOTAL LOSSES AT 100% LOAD W	1500
VOLTS AT NO LOAD	HV 11000 LV 433	TYPE OF COOLING	ONAN
BIL	HV LI-5/AC28 LV LI-1/AC3	TEMP RISE	OIL 35 °C WDG 40 °C
AMPERES	HV 5.25 LV 133.34	MASS OF OIL Kg	195
FREQUENCY Hz	50	TOTAL MASS Kg	835
VECTOR GROUP REF.	DYN11	VOLUME OF OIL LTRS	238
IMPEDANCE VOLT %	4.5	MONTH & YEAR OF MFG.	2017
TAPPING	NA	SERIAL NO	RP/PTA/100/100/2017-01001
CUSTOMER			
ORDER NO.			

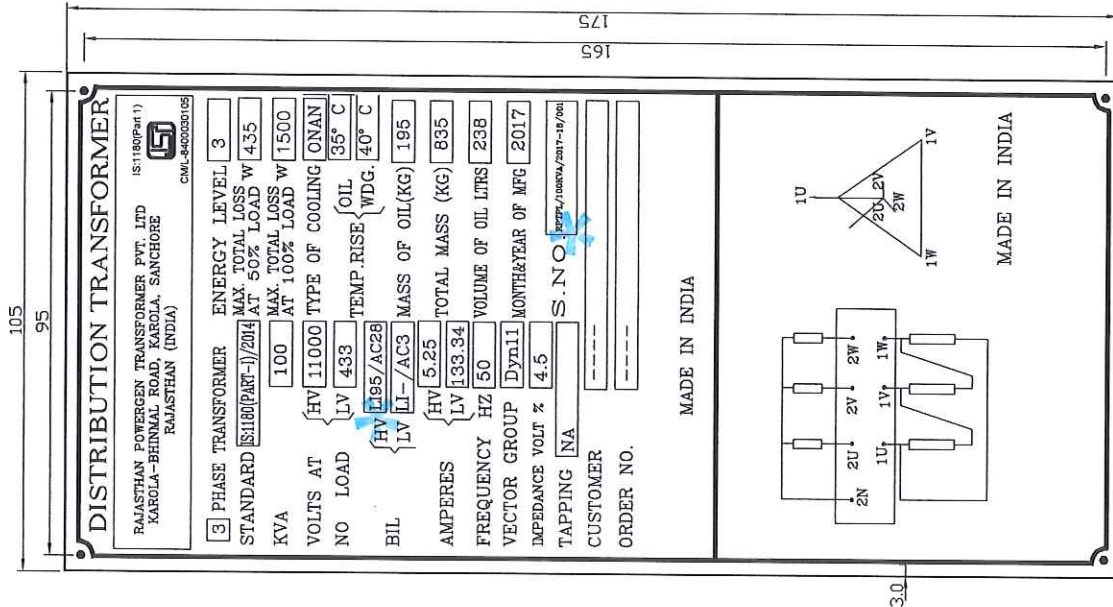
MADE IN INDIA



PREPARED BY

CHECKED BY

TC 2396334

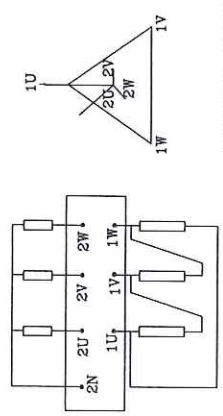


DISTRIBUTION TRANSFORMER

IS 1180(Part 1)
 RAJASTHAN POWERGEN TRANSFORMER PVT. LTD
 KAROLA-BHINMAL ROAD, KAROLA, SANCHORE
 RAJASTHAN (INDIA)
 CM/L-8400030105

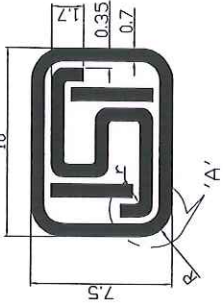
PHASE TRANSFORMER	ENERGY LEVEL	3
STANDARD IS(1180(PART-1)/2014)	MAX. TOTAL LOSS W AT 50% LOAD W	435
KVA	MAX. TOTAL LOSS W AT 100% LOAD W	1500
VOLTS AT NO LOAD	HV	11000
	LV	433
	TEMP. RISE (OIL)	35° C
	WDG.	40° C
BIL	HV	195/AC28
	LV	195/AC3
AMPERES	HV	5.25
	LV	133.34
FREQUENCY HZ		50
VECTOR GROUP		Dyn11
IMPEDANCE VOLT %		4.5
TAPPING NA		
CUSTOMER		
ORDER NO.		

MADE IN INDIA

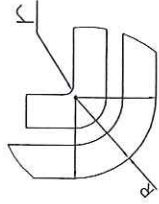


MADE IN INDIA

IS:1180(Part 1)



CM/L-8400030105



DETAIL - 'A'



Test Report No. RP-1778-045149
 Date: 12.11.2017
 Product: 100KVA X MB
 Verified By: [Signature]
 Verification of this drawing by ERDA is limited to relevant dimensional checks only. Verified dimensions are marked with *.

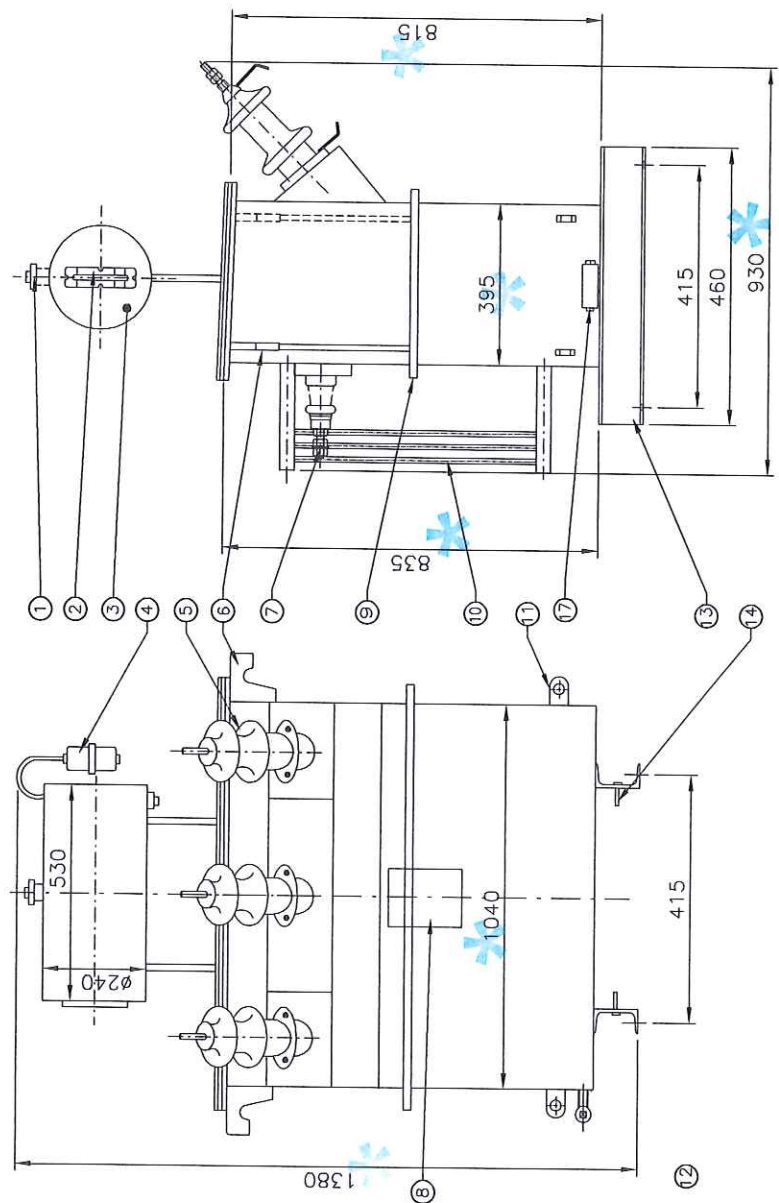
RAJASTHAN POWERGEN TRANSFORMER PVT. LTD
 KAROLA-BHINMAL ROAD, KAROLA, SANCHORE
 RAJASTHAN - 343041

TITLE: - NAME PLATE DRAWING OF 100KVA,11/0.433KV ALUMINIUM WOUND ENERGY EFFICIRNCY LEVEL-3 TRANSFORMER

CUSTOMER	---
T.S.No.	RPTPL/17-18/100KVA/001
SCALE	N T S
DRG. No.	RPTPL/100KVA/003



NOTES:-
 1. ALL DIMENSIONS ARE IN mm.
 2. TOLERANCES ON OVERALL DIMENSION & WEIGHT ARE ±10%



Test Report No. *RP-1778-045145*
 Date: *12/12/2013*
 Product: *100 KVA 3300V*
 Verified By: *[Signature]*
 Verification of this drawing by ERDA is limited to relevant dimensional checks only. Verified dimensions are marked with *.

WEIGHT CHART	
1. CORE & WINDING	475 Kgs.
2. TANK & FITTING	165 Kgs.
3. WEIGHT OF OIL	195 Kgs.
4. TOTAL WEIGHT	835 Kgs.
5. VOLUME OF OIL	238 Ltrs.

MIN ELECTRICAL CLEARANCE IN AIR			SHEET THICKNESS		
PH. TO PH.	PH. TO EARTH	SIDE	PH. TO PH.	PH. TO EARTH	SIDE
HV	255	HV	140	TOP	3.15mm
LV	75	LV	40	BOTTOM	5.0mm

S.No.	DESCRIPTION	QTY.
17.	DRAIN CUM SAMPLING VALVE	1
16.	TANK COVER LIFTING LUGS	2
15.	AIR RELEASE PLUG	1
14.	EARTHING TERMINALS	2
13.	UNDER BASE CHANNELS (75mm x 40 mm)	2
12.	THERMOMETER POCKET	1
11.	PULLING LUGS 8 mm THICK	4
10.	RADIATOR (500 C/C x 226) 3 FINS	2
9.	STIFFNER	1
8.	NAME RATING & DIAGRAM PLATE	1
7.	L.V. BUSHING	4
6.	TRANSFORMER LIFTING LUGS 8 mm THICK	2
5.	H.V. BUSHING	3
4.	SILICAGEL BREATHER 500 gm.	1
3.	OIL CONSERVATOR WITH DRAIN PLUG	1
2.	PLAIN OIL LEVEL INDICATORS PLAIN	1
1.	OIL FILLING HOLE WITH CAP	1
S.No.	DESCRIPTION	QTY.

RAJASTHAN POWERGEN TRANSFORMER PVT. LTD
 KAROLA BHINMAL ROAD, KAROLA, SANCHORE
 RAJASTHAN - 343041

Title:- OUTLINE GENERAL ARRANGEMENT DRAWING OF 100KVA/1/0.433KV ENERGY EFFICIENCY LEVEL-3 TRANSFORMER

CUSTOMER	
T.S. No.	RPTPL/17-18/100KVA/001
SCALE	N T S
DWG. No.	RPTPL/100KVA/002