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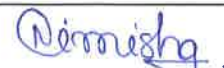
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**TEST REPORT****TC538919000022631F****SHEET NO. : 1 OF 15**

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-1920-015140 DATE : 20/07/2019 CUSTOMER REF. NO. : NIL DATED : 17/07/2019 <table border="1"> <tr> <td>DATE OF SAMPLE RECEIPT</td> <td>DATE OF TESTING</td> </tr> <tr> <td>12/07/2019</td> <td>20/07/2019</td> </tr> </table>	DATE OF SAMPLE RECEIPT	DATE OF TESTING	12/07/2019	20/07/2019
DATE OF SAMPLE RECEIPT	DATE OF TESTING				
12/07/2019	20/07/2019				
SAMPLE DESCRIPTION DISTRIBUTION TRANSFORMER NON-SEALED TYPE ENERGY EFFICIENCY LEVEL : 2 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. : 28 kVrms / 95 kVp L.V. : 3 kVrms /----	SAMPLE IDENTIFICATION SR. NO. : RPTPL/01 YEAR OF MFG. : 2019 MFG. BY : M/s. Rajasthan Powergen Transformer Pvt. Ltd. ERDA SAMPLE CODE No.: ERDA-00324651				
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) NP/100/07 2) RPTL-OGA-07 TEST WITNESSED BY : Mr. Irfan Khatri - M/s. Rajasthan Powergen Transformer Pvt. Ltd. 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.	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) 				
 PREPARED BY	 APPROVED BY				
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Waveform	Comment	Ut / kVp	T1 / μ s	T2 / μ s	Tc / μ s
1U PHASE					
1	LI RW	-52.840	1.347	55.705	
2	100% LI FW	-94.133	1.367	55.766	
3	LI CRW	-57.177	1.347		3.276
4	110% LI CFW	-105.659	1.342		2.459
5	110% LI CFW	-104.179	1.339		2.415
6	100% LI FW	-93.069	1.364	55.651	
7	100% LI FW	-95.497	1.354	55.757	
1V PHASE					
8	LI RW	-55.397	1.346	55.594	
9	100% LI FW	-94.314	1.351	55.797	
10	LI CRW	-56.549	1.332		2.841
11	110% LI CFW	-106.196	1.342		2.759
12	110% LI CFW	-105.491	1.326		2.319
13	100% LI FW	-93.432	1.352	55.749	
14	100% LI FW	-93.390	1.346	55.763	
1W PHASE					
15	LI RW	-56.608	1.354	55.680	
16	100% LI FW	-94.052	1.364	55.859	
17	LI CRW	-56.055	1.349		4.995
18	110% LI CFW	-103.983	1.337		2.885
19	110% LI CFW	-104.713	1.342		2.822
20	100% LI FW	-94.772	1.359	55.790	
21	100% LI FW	-93.513	1.361	55.802	

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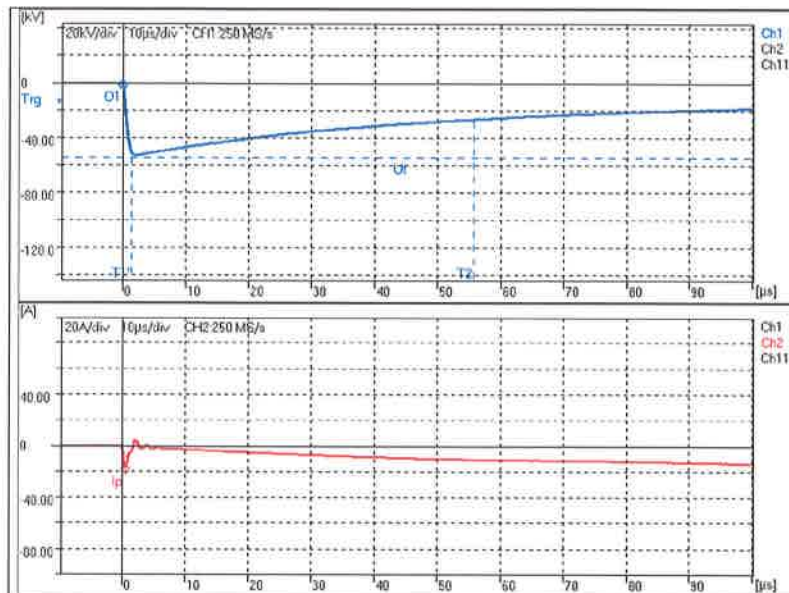


Fig.: 1

$U_p = -52.84 \text{ kV}$

$T_1 = 1.35 \mu\text{s}$

$T_2 = 55.71 \mu\text{s}$

$T_c = \mu\text{s}$

Comment: LI RW

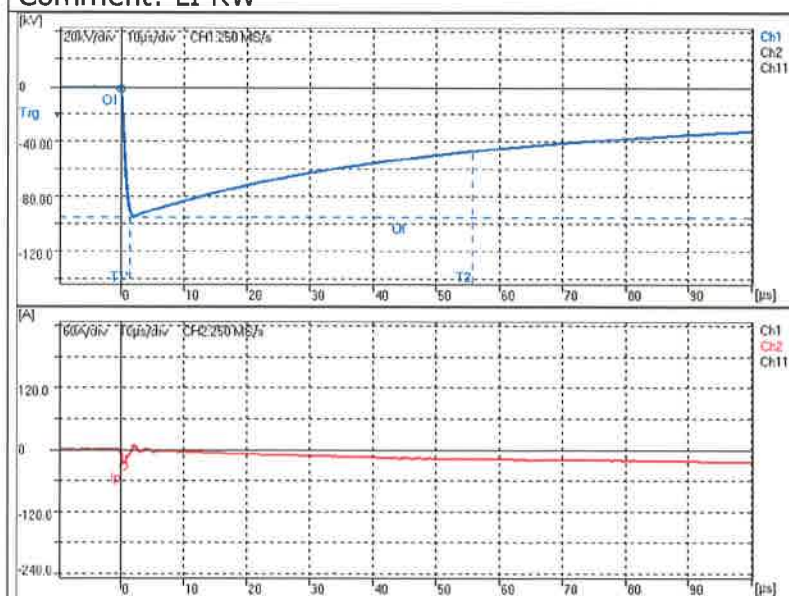


Fig.: 2

$U_p = -94.13 \text{ kV}$

$T_1 = 1.37 \mu\text{s}$

$T_2 = 55.77 \mu\text{s}$

$T_c = \mu\text{s}$

Comment: 100% LI FW

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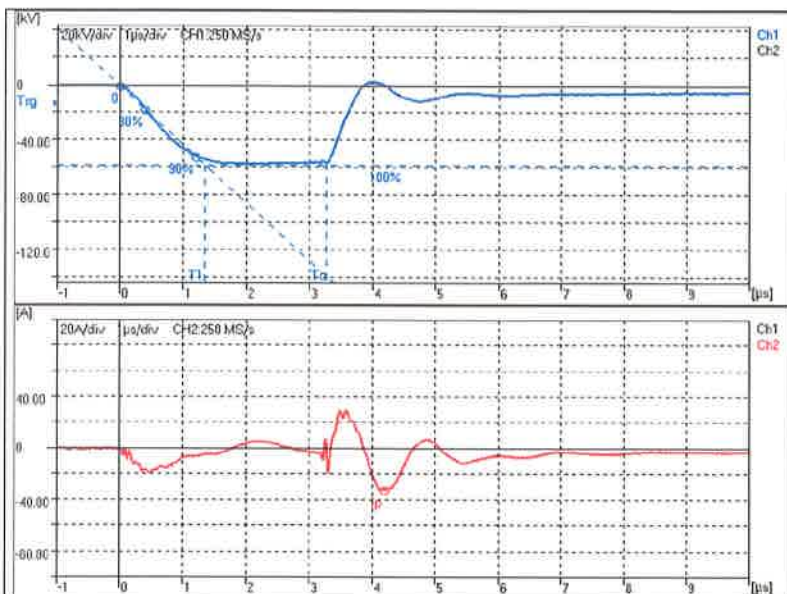


Fig.: 3

$U_p = -57.18 \text{ kV}$

$T_1 = 1.35 \mu\text{s}$

$T_2 = \mu\text{s}$

$T_c = 3.28 \mu\text{s}$

Comment: LI CRW

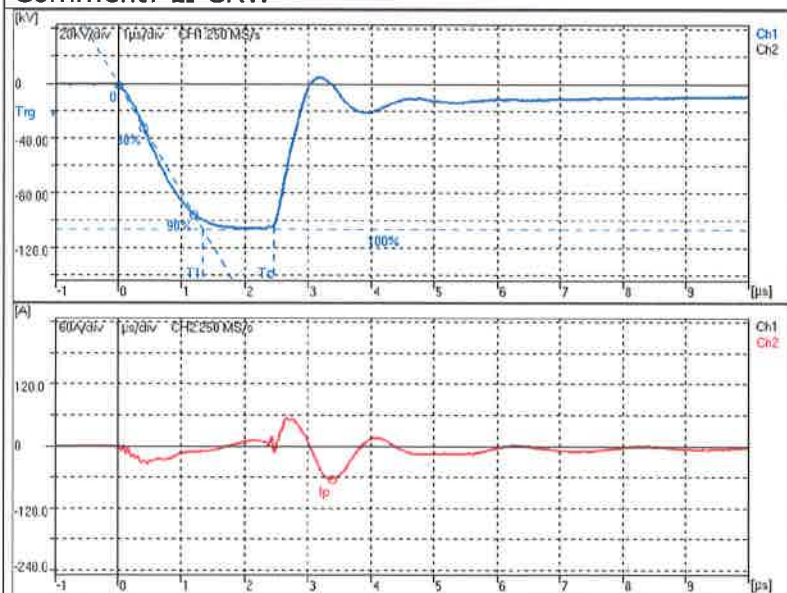


Fig.: 4

$U_p = -105.66 \text{ kV}$

$T_1 = 1.34 \mu\text{s}$

$T_2 = \mu\text{s}$

$T_c = 2.46 \mu\text{s}$

Comment: 110% LI CFW

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Amishg



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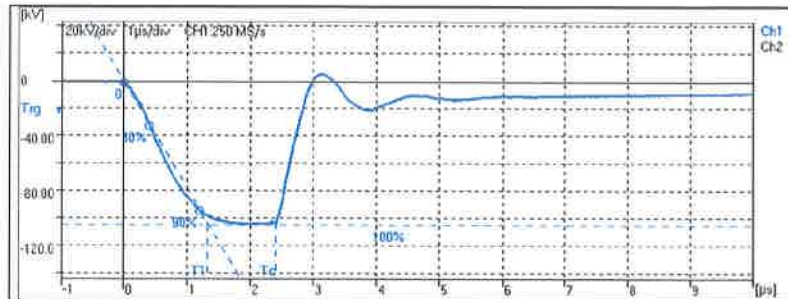


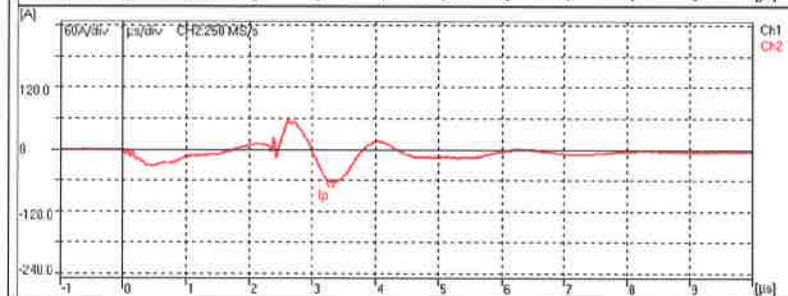
Fig.: 5

$U_p = -104.18 \text{ kV}$

$T_1 = 1.34 \text{ μs}$

$T_2 = \text{μs}$

$T_c = 2.42 \text{ μs}$



Comment: 110% LI CFW

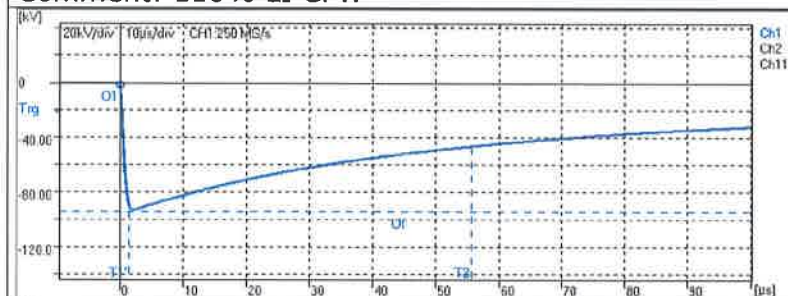


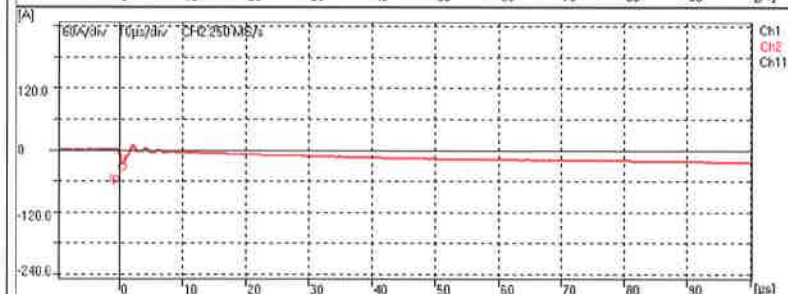
Fig.: 6

$U_p = -93.07 \text{ kV}$

$T_1 = 1.36 \text{ μs}$

$T_2 = 55.65 \text{ μs}$

$T_c = \text{μs}$



Comment: 100% LI FW

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Nirmishg



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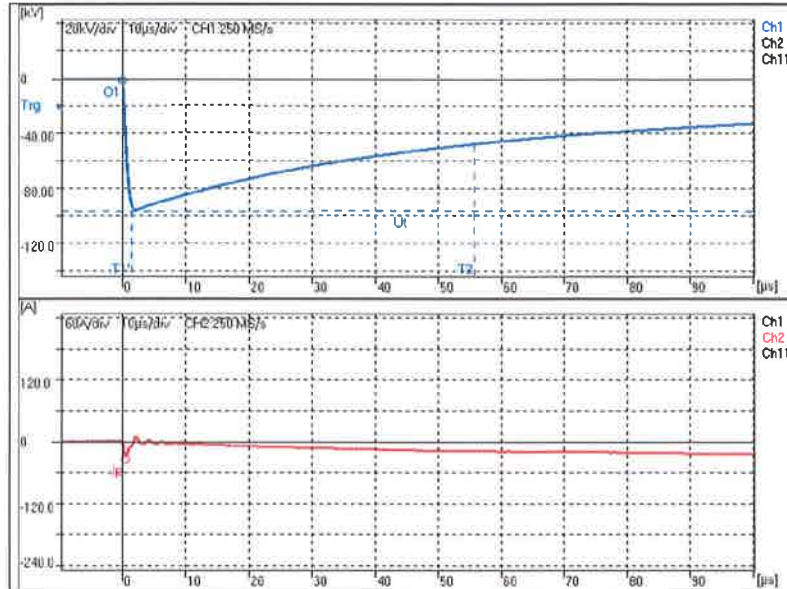


Fig.: 7

$U_p = -95.50 \text{ kV}$

$T_1 = 1.35 \mu\text{s}$

$T_2 = 55.76 \mu\text{s}$

$T_c = \mu\text{s}$

Comment: 100% LI FW

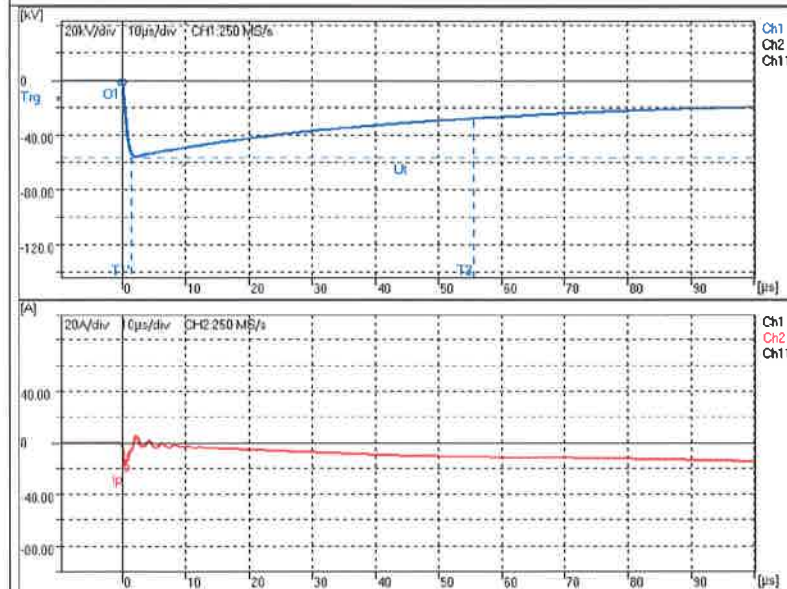


Fig.: 8

$U_p = -55.40 \text{ kV}$

$T_1 = 1.35 \mu\text{s}$

$T_2 = 55.59 \mu\text{s}$

$T_c = \mu\text{s}$

Comment: LI RW

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Dinmishg



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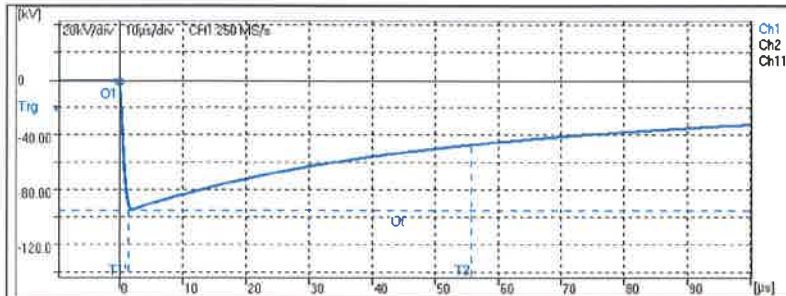


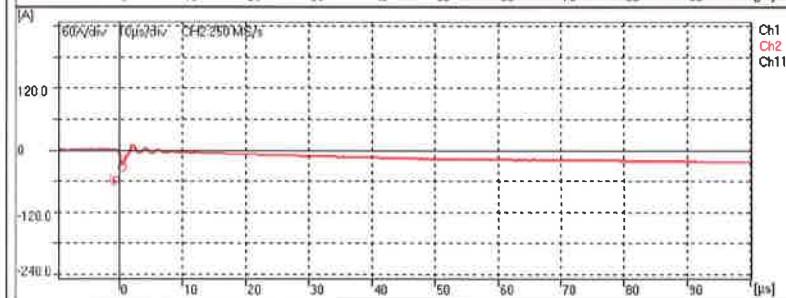
Fig.: 9

$U_p = -94.31 \text{ kV}$

$T_1 = 1.35 \mu\text{s}$

$T_2 = 55.80 \mu\text{s}$

$T_c = \mu\text{s}$



Comment: 100% LI FW

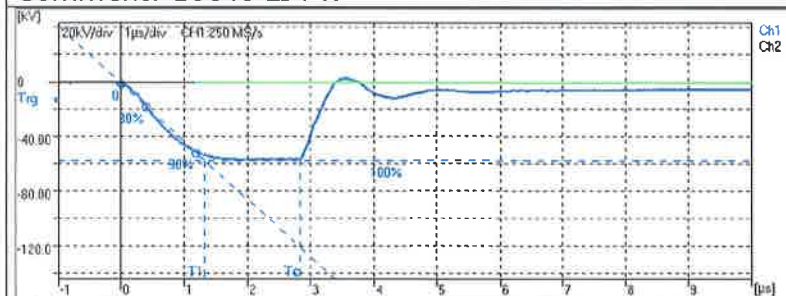


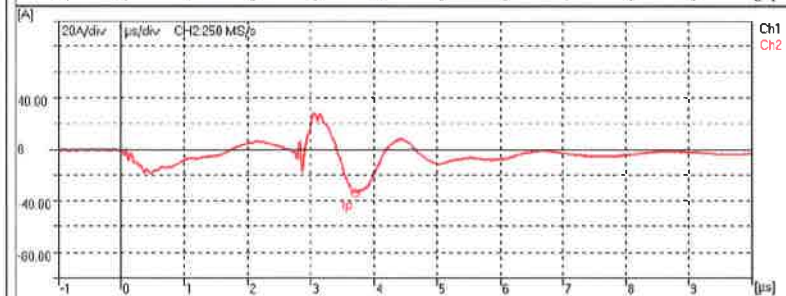
Fig.: 10

$U_p = -56.55 \text{ kV}$

$T_1 = 1.33 \mu\text{s}$

$T_2 = \mu\text{s}$

$T_c = 2.84 \mu\text{s}$



Comment: LI CRW

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Nirmishg
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Deepak
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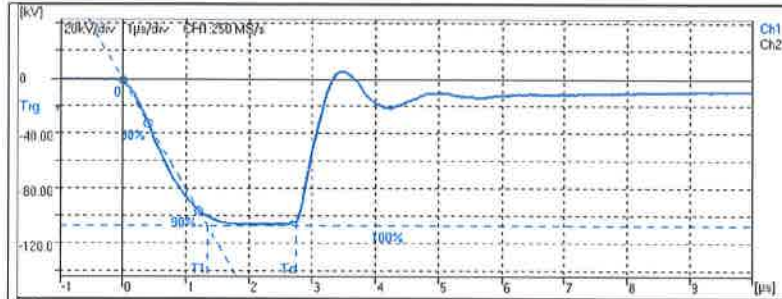


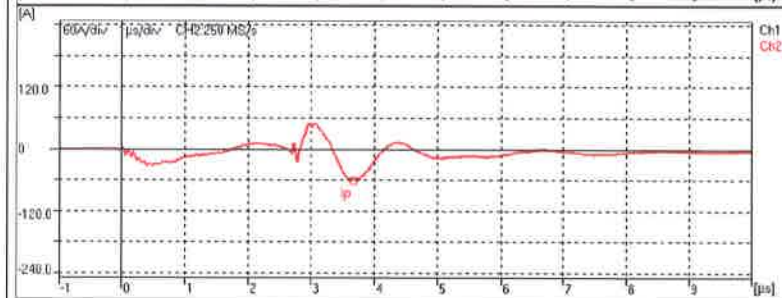
Fig.: 11

$U_p = -106.20 \text{ kV}$

$T_1 = 1.34 \text{ } \mu\text{s}$

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

$T_c = 2.76 \text{ } \mu\text{s}$



Comment: 110% LI CFW

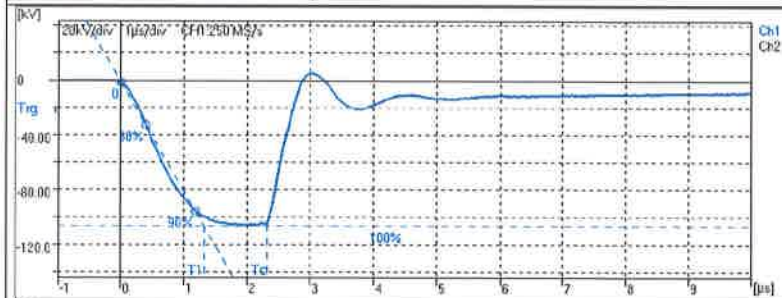


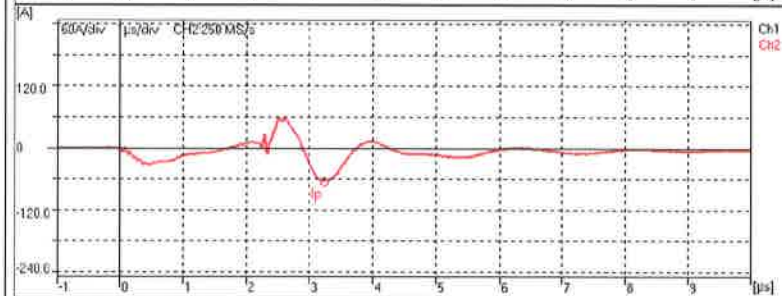
Fig.: 12

$U_p = -105.49 \text{ kV}$

$T_1 = 1.33 \text{ } \mu\text{s}$

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

$T_c = 2.32 \text{ } \mu\text{s}$



Comment: 110% LI CFW

TC 2811971

PREPARED BY
Dinmishra



CHECKED BY
Rajesh



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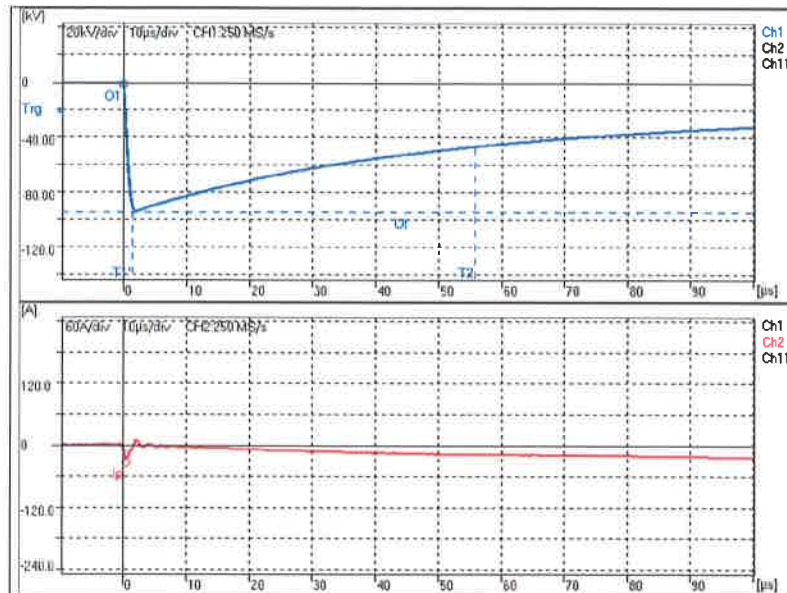


Fig.: 13

$U_p = -93.43 \text{ kV}$

$T_1 = 1.35 \mu\text{s}$

$T_2 = 55.75 \mu\text{s}$

$T_c = \mu\text{s}$

Comment: 100% LI FW

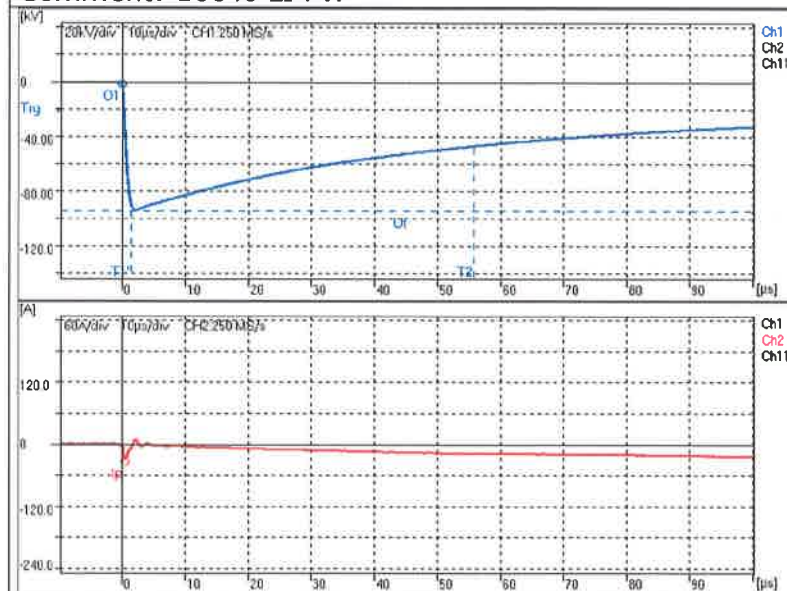


Fig.: 14

$U_p = -93.39 \text{ kV}$

$T_1 = 1.35 \mu\text{s}$

$T_2 = 55.76 \mu\text{s}$

$T_c = \mu\text{s}$

Comment: 100% LI FW

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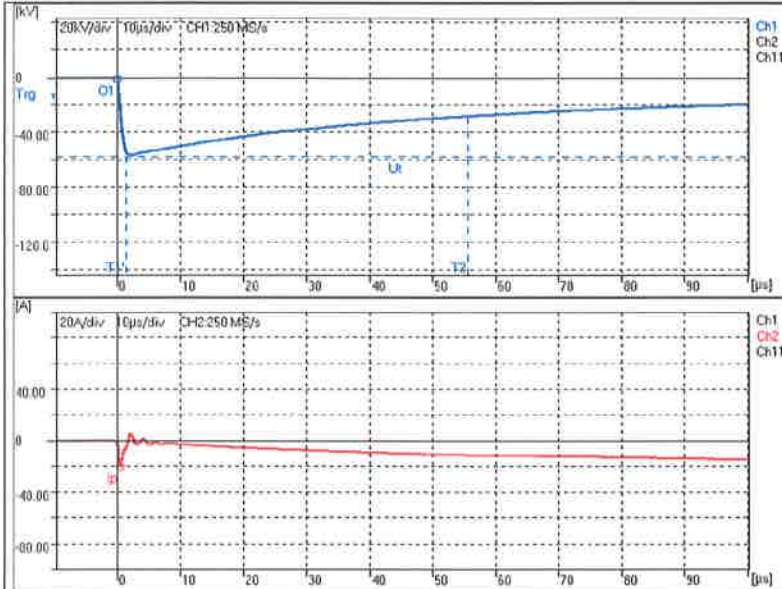


Fig.: 15

$U_p = -56.61 \text{ kV}$

$T_1 = 1.35 \mu\text{s}$

$T_2 = 55.68 \mu\text{s}$

$T_c = \mu\text{s}$

Comment: LI RW

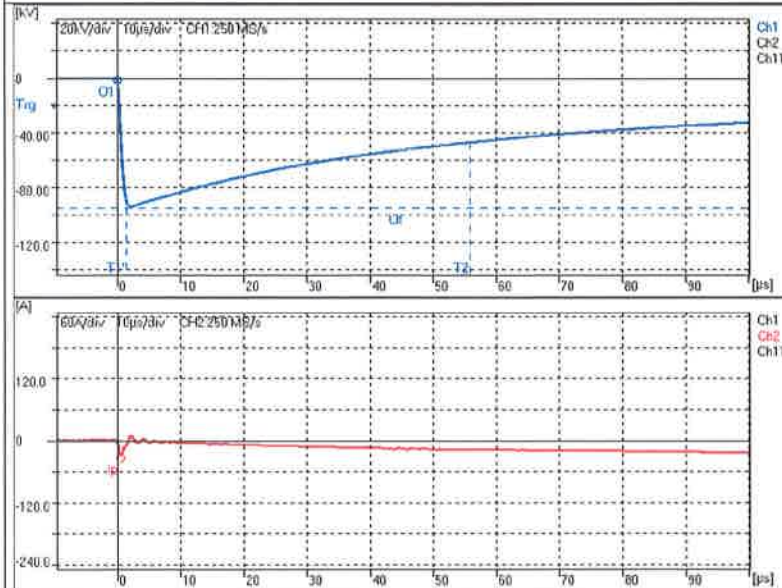


Fig.: 16

$U_p = -94.05 \text{ kV}$

$T_1 = 1.36 \mu\text{s}$

$T_2 = 55.86 \mu\text{s}$

$T_c = \mu\text{s}$

Comment: 100% LI FW

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PREPARED BY

Nemishg



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P. Jeeva



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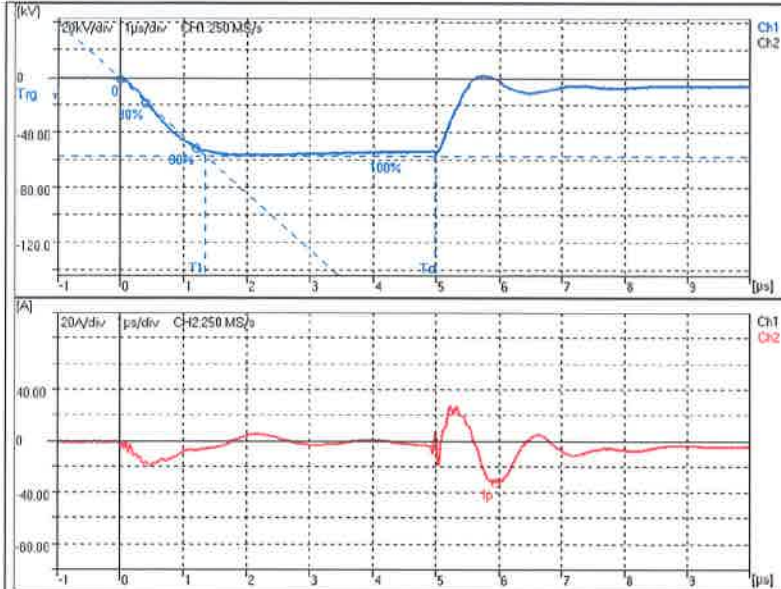


Fig.: 17

$U_p = -56.05 \text{ kV}$

$T_1 = 1.35 \mu\text{s}$

$T_2 = \mu\text{s}$

$T_c = 5.00 \mu\text{s}$

Comment: LI CRW

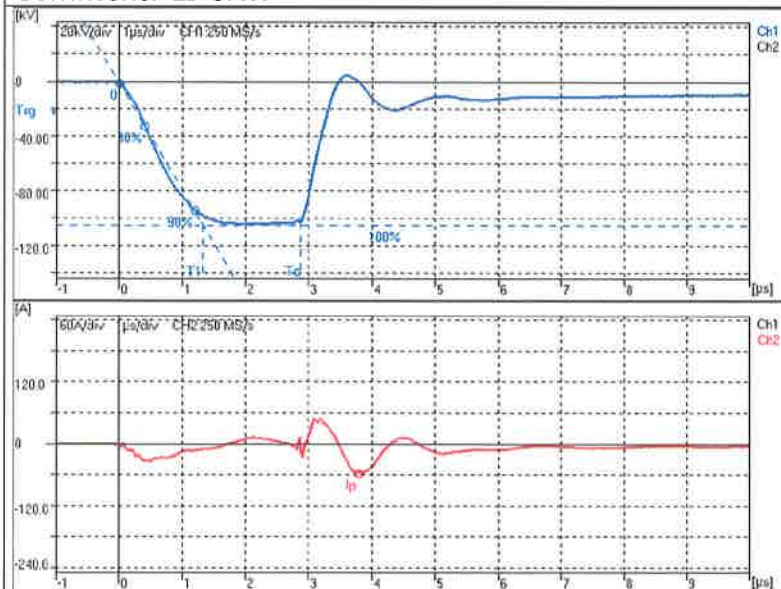


Fig.: 18

$U_p = -103.98 \text{ kV}$

$T_1 = 1.34 \mu\text{s}$

$T_2 = \mu\text{s}$

$T_c = 2.89 \mu\text{s}$

Comment: 110% LI CFW

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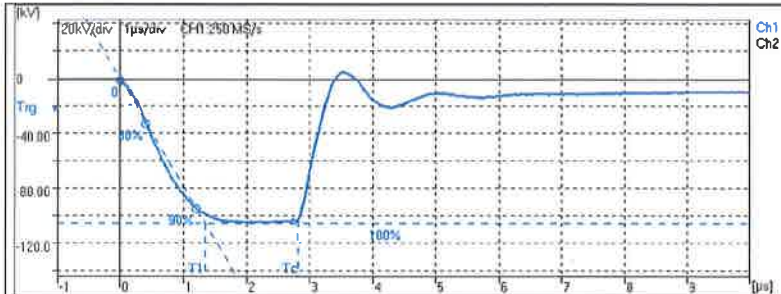


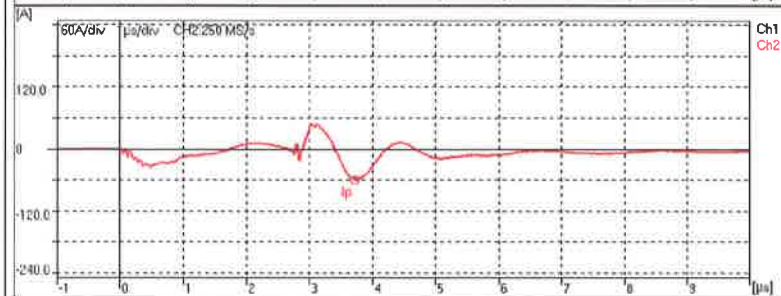
Fig.: 19

$U_p = -104.71 \text{ kV}$

$T_1 = 1.34 \mu\text{s}$

$T_2 = \mu\text{s}$

$T_c = 2.82 \mu\text{s}$



Comment: 110% LI CFW

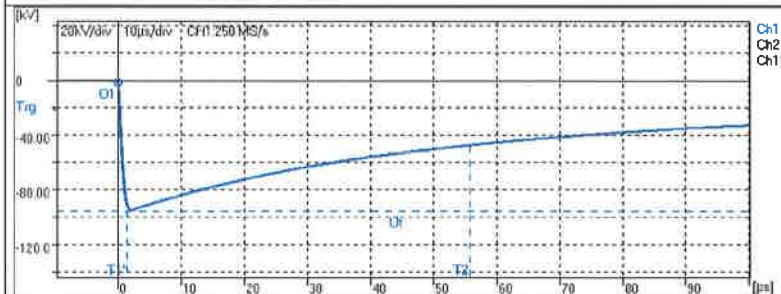


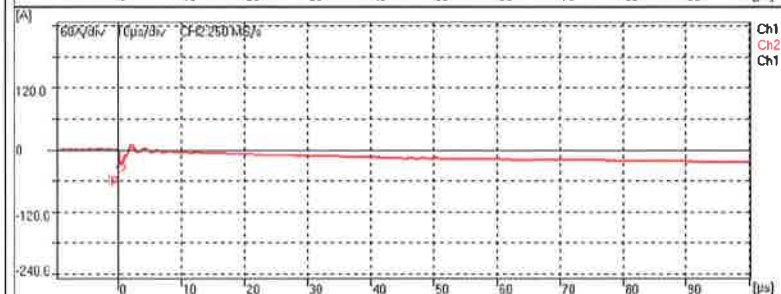
Fig.: 20

$U_p = -94.77 \text{ kV}$

$T_1 = 1.36 \mu\text{s}$

$T_2 = 55.79 \mu\text{s}$

$T_c = \mu\text{s}$



Comment: 100% LI FW

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

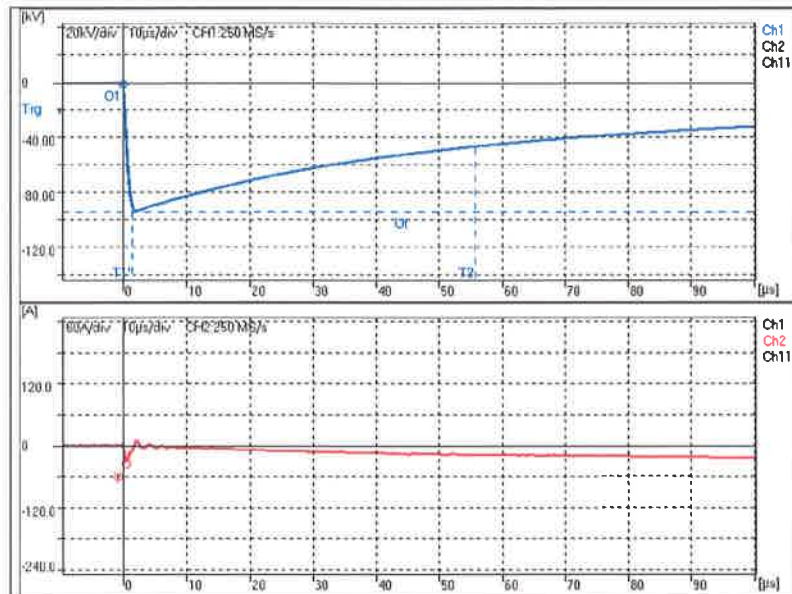


TC538919000022631F

TEST REPORT NO. : RP-1920-015140

DATE : 20/07/2019

SHEET NO.: 13 of 15



Comment: 100% LI FW

Fig.: 21

$U_p = -93.51 \text{ kV}$

$T_1 = 1.36 \mu\text{s}$

$T_2 = 55.80 \mu\text{s}$

$T_c = \mu\text{s}$

TC 2811976

Demishg

PREPARED BY



P. Patel

CHECKED BY



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>



TC538919000022631F

TEST REPORT NO. : RP-1920-015140

DATE : 20/07/2019

SHEET NO.: 14 of 15

PHOTOGRAPH OF TEST SAMPLE



TC 2811977

Nimishg.

PREPARED BY



P. Patel

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TC538919000022631F

TEST REPORT NO. : RP-1920-015140

SHEET NO.: 15 of 15

DATE : 20/07/2019

PHOTOGRAPH OF RATING AND TERMINAL MARKING PLATE

RAJASTHAN POWERGEN TRANSFORMER PVT. LTD.
Khasra No. 911-914, Karola-Bhinmal Road, Karola,
Sanchole-343041, Dist. Jalore, Rajasthan

3 PHASE DISTRIBUTION TRANSFORMER AS PER IS 1180 PART 1 (2014)

3	PHASE TRANSFORMER	ENERGY LEVEL	2
STANDARD	IS:1180(PART-1)/2014	MAX. TOTAL LOSSES	
KVA	100	AT 50% RATED LOAD W	475
VOLTS AT	HV 11000	MAX. TOTAL LOSSES	
NO LOAD	LV 433	AT 100% RATED LOAD W	1650
BIL	HV 415 AC28	TYPE OF COOLING	ONAN
	LV LI-JAC 3	TEMP RISE	OIL 35°C
AMPERES	HV 5.25	WDG	40°C
	LV 133.34	MASS OF OIL (KG)	165
FREQUENCY	Hz 50	TOTAL MASS (KG)	710
VECTOR GROUP	Dyn11	VOLUME OF OIL LTRS	200
IMPEDANCE VOLT %	4.5	MONTH & YEAR OF MFG.	2019
TAPPING	NA	SERIAL NO.	
CUSTOMER			
ORDER NO.			

MADE IN INDIA

Diagram showing terminal markings: 2N0, 2U, 2V, 2W, 1U, 1V, 1W. A vector group diagram (Dyn11) is also shown.

MADE IN INDIA

TC 2811978

Dimishy
PREPARED BY



Puneet
CHECKED BY

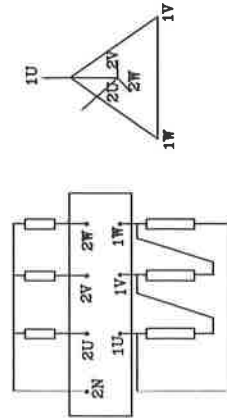
105
95

DISTRIBUTION TRANSFORMER

Rajasthan Powergen Transformer Pvt. Ltd.
Khasra No. 911-914, Karola-Bhinmal Road, Karola,
Sanchole-343041, Dist. Jalore, Rajasthan

[3] PHASE TRANSFORMER	ENERGY LEVEL	2	
STANDARD	MAX. TOTAL LOSS W	475	
	AT 50% LOAD		
KVA	MAX. TOTAL LOSS W	1650	
	AT 100% LOAD		
VOLTS AT	[HV] 11000	TYPE OF COOLING	ONAN
NO LOAD	[LV] 433	[OIL]	35° C
		TEMP. RISE	WDG. 40° C
BIL	[HV] 1105/AC28	MASS OF OIL (KG)	165
	[LV] 11-AC3		
AMPERES	[HV] 5.25	TOTAL MASS (KG)	710
	[LV] 133.34		
FREQUENCY HZ	50	VOLUME OF OIL LTRS	200
VECTOR GROUP	Dyn11	MONTHLY YEAR OF MFG	2019
IMPEDANCE VOLT %	4.5	SERIAL NO.	RPTPL/01
TAPPING	NA		
CUSTOMER	----		
ORDER NO.	----		

MADE IN INDIA



Test Report No. RP-1920-015100
Date: 2010.7.12.01.9
Product: 100KVA XT.MALL
Verified By: Q. J. J. J. J. J.
Verification of this drawing by ERDA is limited to relevant dimensional checks only. *
Verified dimensions are marked with. *

RAJASTHAN POWERGEN TRANSFORMER PVT. LTD
KHASRA No. 911-914, KAROLA-BHINMAL ROAD, KAROLA,
SANCHOLE-343041, DIST. JALORE, RAJASTHAN

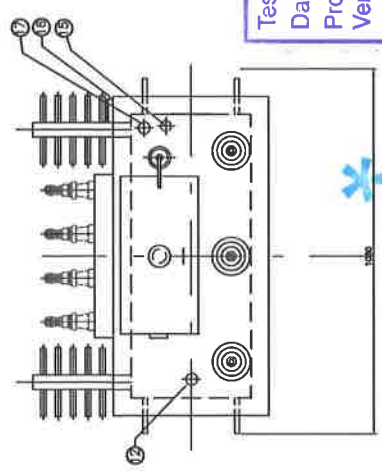
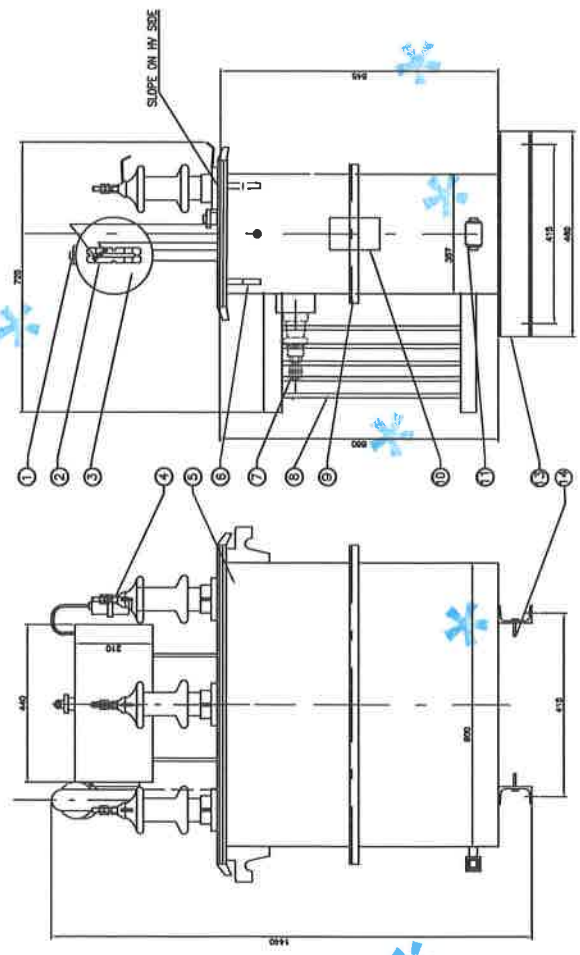
TITLE: - NAME PLATE DRAWING OF 100KVA, 11/0.433KV
ALUMINIUM WOUND ENERGY EFFICIENCY LEVEL-2 TRANSFORMER

CUSTOMER	---
T.S.No.	---
SCALE	N T S
DRG. No.	NP/100/07

MIN ELECTRICAL CLEARANCE IN AIR	
PH. TO PH. FH. TO EARTH	
HV	255
LV	45
LV	20

WEIGHT CHART	
1. CORE & WINDING	385 Kgs.
2. TANK & FITTING	160 Kgs.
3. WEIGHT OF OIL	165 Kgs.
4. TOTAL WEIGHT	710 Kgs.
5. VOLUME OF OIL	200 Ltrs.

TANK THICKNESS	
SIDE WALL	3.15mm
TOP&BOTTOM	5.0mm



17. THERMOMETER POCKET	1
16. IDENTITY PLATE	1
15. AIR RELEASE PLUG	1
14. EARTHING TERMINALS	2
13. UNDER BASE CHANNELS (75mm x 40 mm)	2
12. EXPLOSION VENT	1
11. DRAIN VALVE 20 mm CUM SAMPLING VALVE	1
10. NAME RATING & DIAGRAM PLATE	1
9. STIFFNER (50 mm x 50 mm x 6 mm THICK)	1
8. PRESS STEEL RADIATOR (600C/CX226W)-5FINS	2
7. L.V. BUSHING	4
6. TRANSFORMER LIFTING LUGS 8 mm THICK	4
5. H.V. BUSHING WITH ARCKING HORN & BIMETALIC CONNECTOR	3
4. SILICAGEL BREATHHER 500 Grm.	1
3. OIL CONSERVATOR WITH DRAIN PLUG	1
2. OIL LEVEL INDICATORS	1
1. OIL FILLING HOLE WITH CAP	1

S.No.	D E S C R I P T I O N S	QTY.
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RAJASTHAN POWERGEN TRANSFORMER PVT LTD
 KHASRA NO. 911-914, KAROLA-BHINMAL ROAD, KAROLA
 SANCHORE, DIST. JALORE - 343041, RAJASTHAN

TITLE:- OUTLINE G.A. DRAWING OF 100KVA,11/0.433KV ALUMINIUM WOUND ENERGY EFFICIENCY LEVEL-2 TRANSFORMER	
DRN. 2222	CUSTOMER ---
	T.S.No. ---
	SCALE N T S
DATE 10-07-2019	DRG. No. RPTL-OGA-07

Test Report No. RP-1920-015110.
 Date : 20.10.19
 Product : 100kva 11/0.433kv
 Verified By : *[Signature]*
 Verification of this drawing by ERDA is limited to relevant dimensional checks only. Verified dimensions are marked with. *

- NOTES:-
1. ALL DIMENSIONS ARE IN mm.
 2. TOLERANCES ON OVERALL DIMENSION, TANK & WEIGHT ARE $\pm 10\%$
 3. (*)FITTINGS NOT PROVIDED DURING TESTING