



Certificate No. : TC-5389

## ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

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### TEST REPORT

TC538919000023118F

SHEET NO. : 1 of 15

<b>NAME &amp; ADDRESS OF CUSTOMER :</b>  <b>M/s. Rajasthan Powergen Transformer Pvt. Ltd.</b> Khasra No. 911-914, Karola-Bhinmal Road, Karola, Sanchore, Rajasthan-343041	<b>TEST REPORT NO. :</b> RP-1920-015707 <b>DATE :</b> 25/07/2019	
	<b>CUSTOMER REF. NO. :</b> NIL <b>DATED :</b> 24/07/2019	
	<b>DATE OF SAMPLE RECEIPT</b>	<b>DATE OF TESTING</b>
	12/07/2019	25/07/2019
<b>SAMPLE DESCRIPTION :</b> <b>DISTRIBUTION TRANSFORMER NON-SEALED TYPE</b> ENERGY EFFICIENCY LEVEL : 2 RATING : 160 kVA RATED VOLTS : 11000/433 V RATED CURRENT : 8.40/213.34 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/----	<b>SAMPLE IDENTIFICATION :</b>  SR. NO. : RPTPL/01  YEAR OF MFG. : 2019  MFG. BY : M/s. Rajasthan Powergen Transformer Pvt. Ltd.  ERDA Sample Code No.: ERDA-00324652	
<b>TEST DETAIL :</b> Lightning Impulse Test with Chopped on the Tail on all the three phases of HV Terminals at 95 kVp.	<b>TEST SPECIFICATION :</b> 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)	
<b>ENCLOSURE :</b> DRG. NO.: 1) NP/160/08 2) RPTL-OGA-160-07		
<b>TEST WITNESSED BY: ----</b>		
<b>REMARKS :</b> From the observation of enclosed oscillographic records, it is concluded that the transformer <b>conforms</b> to the requirements of the above mentioned standard with respect to the test carried out.		
 <b>PREPARED BY</b>	 <b>CHECKED BY</b>	 <b>A. S. KHOPKAR APPROVED BY</b>
<b>Note :</b> 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. 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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**TC538919000023118F**

**TEST REPORT NO. : RP-1920-015707**

**SHEET NO.: 2 of 15**

**DATE : 25/07/2019**

Waveform	Comment	Ut / kVp	T1 / $\mu$ s	T2 / $\mu$ s	Tc / $\mu$ s
<b>1U PHASE</b>					
1	LI RW	-58.743	1.304	50.753	
2	100% LI FW	-95.418	1.314	50.708	
3	LI CRW	-58.848	1.293		2.389
4	110% LI CFW	-104.286	1.301		2.502
5	110% LI CFW	-103.587	1.301		3.027
6	100% LI FW	-94.864	1.313	50.781	
7	100% LI FW	-95.146	1.312	50.841	
<b>1V PHASE</b>					
8	LI RW	-58.354	1.286	50.795	
9	100% LI FW	-95.217	1.294	50.791	
10	LI CRW	-59.133	1.279		2.546
11	110% LI CFW	-105.236	1.293		2.964
12	110% LI CFW	-103.747	1.290		2.601
13	100% LI FW	-95.555	1.294	50.833	
14	100% LI FW	-93.958	1.295	50.842	
<b>1W PHASE</b>					
15	LI RW	-60.171	1.295	50.707	
16	100% LI FW	-94.487	1.306	50.707	
17	LI CRW	-56.660	1.294		2.646
18	110% LI CFW	-104.890	1.293		2.598
19	110% LI CFW	-104.691	1.297		2.908
20	100% LI FW	-96.275	1.307	50.712	
21	100% LI FW	-95.434	1.304	50.746	



*Am*

**PREPARED BY**

*P. Patel*

**CHECKED BY**

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TEST REPORT NO. : RP-1920-015707

DATE : 25/07/2019

SHEET NO.: 3 of 15

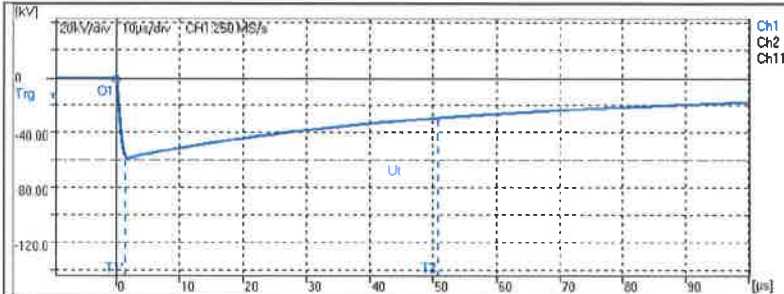
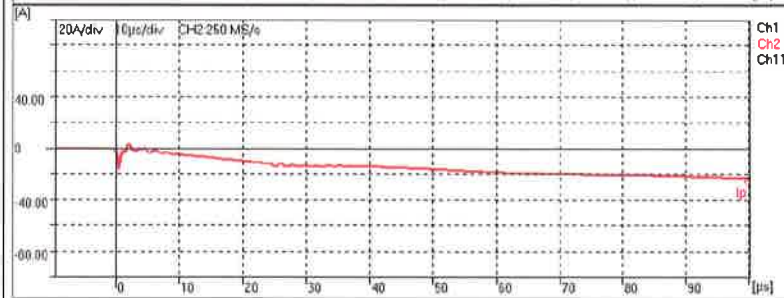


Fig.: 1  
 $U_p = -58.74 \text{ kV}$   
 $T_1 = 1.30 \text{ } \mu\text{s}$   
 $T_2 = 50.75 \text{ } \mu\text{s}$   
 $T_c = \text{ } \mu\text{s}$



Comment: LI RW

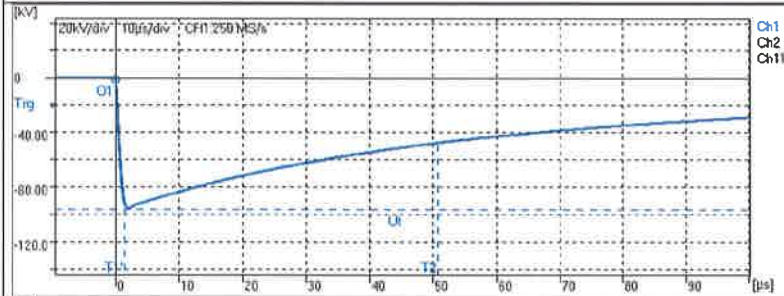
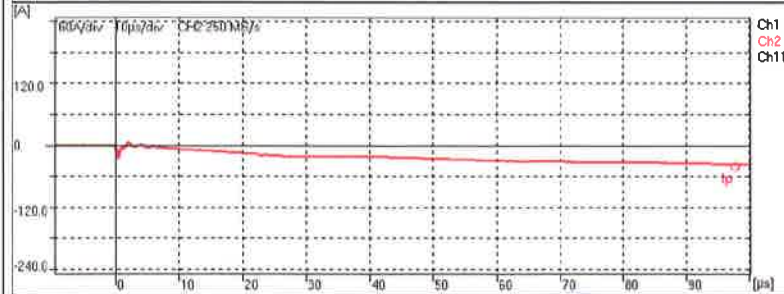


Fig.: 2  
 $U_p = -95.42 \text{ kV}$   
 $T_1 = 1.31 \text{ } \mu\text{s}$   
 $T_2 = 50.71 \text{ } \mu\text{s}$   
 $T_c = \text{ } \mu\text{s}$



Comment: 100% LI FW



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TEST REPORT NO. : RP-1920-015707

DATE : 25/07/2019

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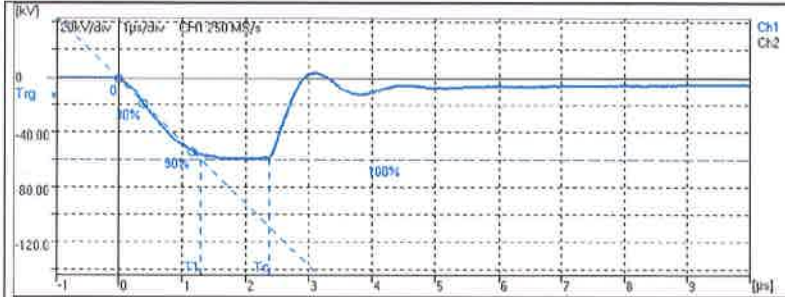


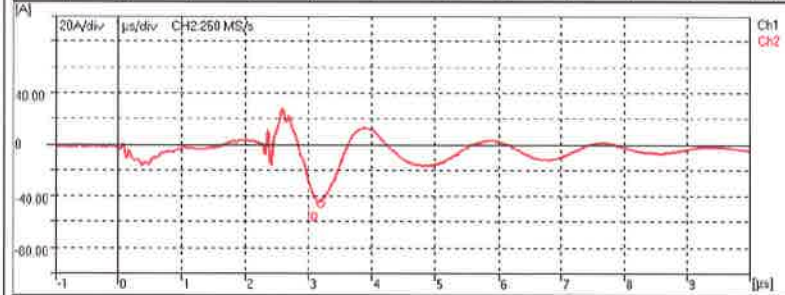
Fig.: 3

$U_p = -58.85 \text{ kV}$

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

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

$T_c = 2.39 \text{ } \mu\text{s}$



Comment: LI CRW

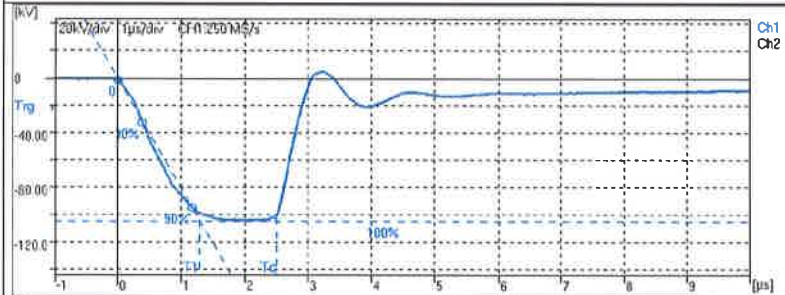


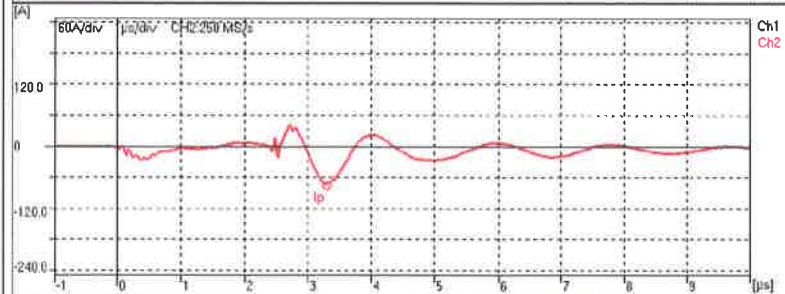
Fig.: 4

$U_p = -104.29 \text{ kV}$

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

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

$T_c = 2.50 \text{ } \mu\text{s}$



Comment: 110% LI CFW

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TEST REPORT NO. : RP-1920-015707

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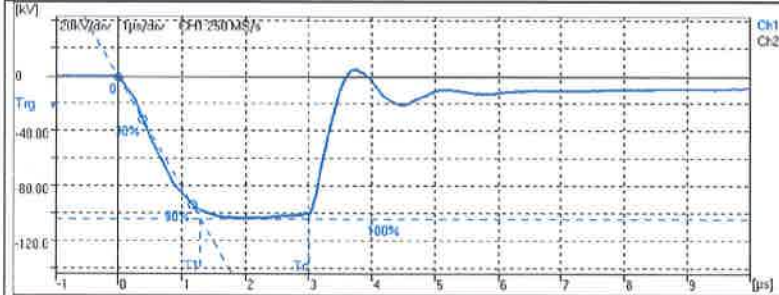


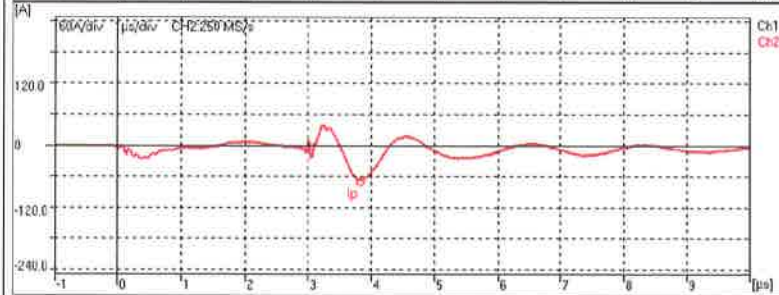
Fig.: 5

$U_p = -103.59 \text{ kV}$

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

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

$T_c = 3.03 \text{ } \mu\text{s}$



Comment: 110% LI CFW

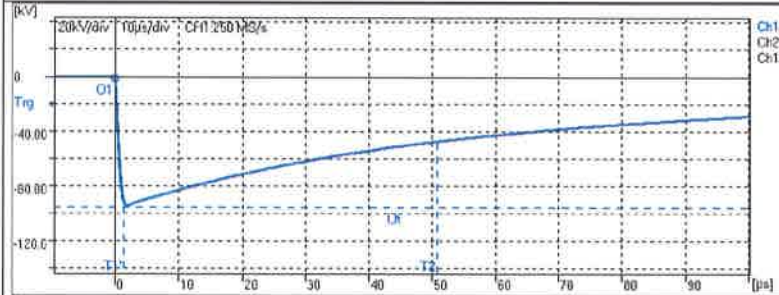


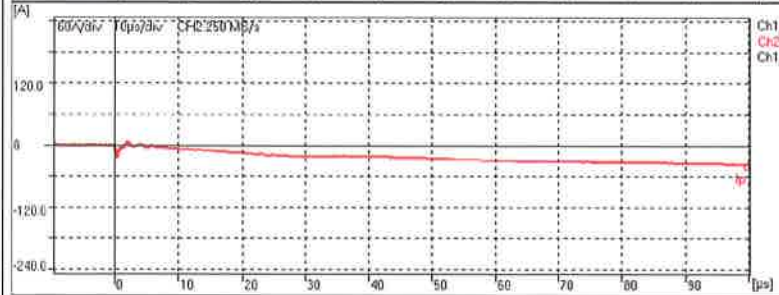
Fig.: 6

$U_p = -94.86 \text{ kV}$

$T_1 = 1.31 \text{ } \mu\text{s}$

$T_2 = 50.78 \text{ } \mu\text{s}$

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



Comment: 100% LI FW

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SHEET NO.: 6 of 15

DATE : 25/07/2019

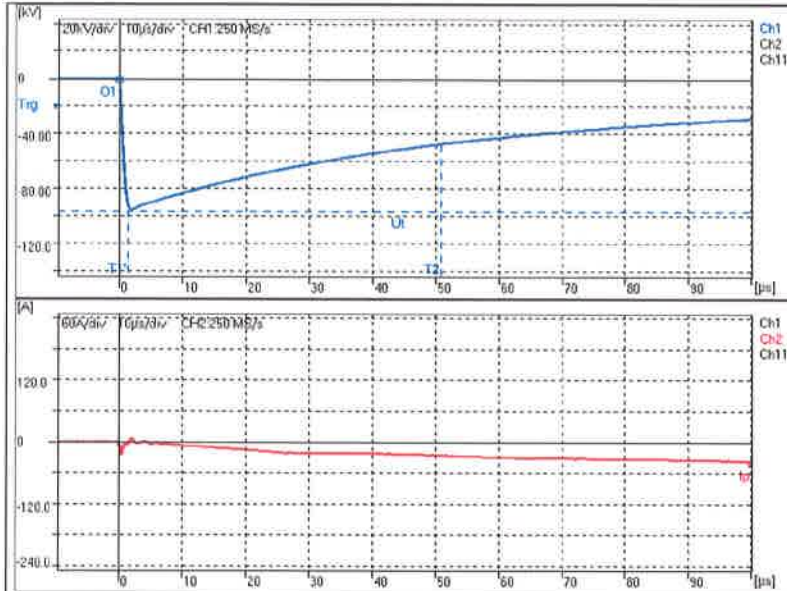


Fig.: 7

$U_p = -95.15 \text{ kV}$

$T_1 = 1.31 \text{ µs}$

$T_2 = 50.84 \text{ µs}$

$T_c = \text{µs}$

Comment: 100% LI FW

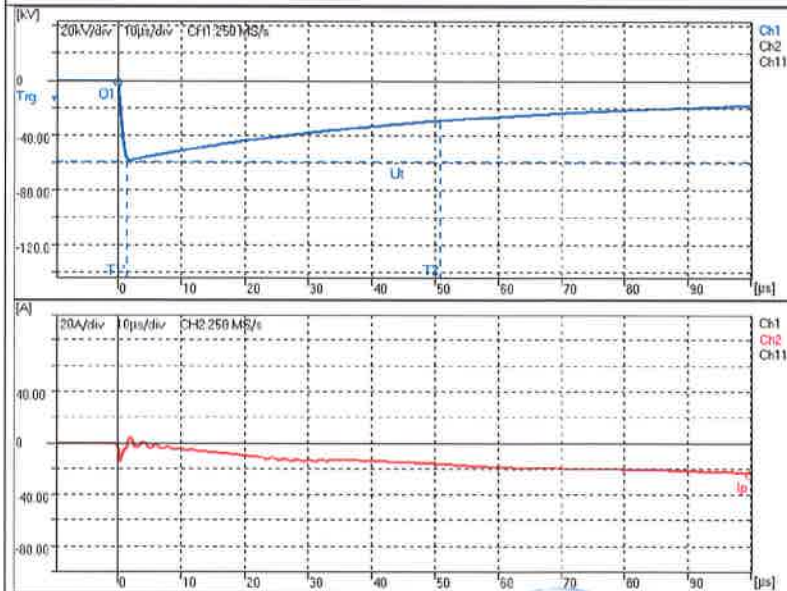


Fig.: 8

$U_p = -58.35 \text{ kV}$

$T_1 = 1.29 \text{ µs}$

$T_2 = 50.80 \text{ µs}$

$T_c = \text{µs}$

Comment: LI RW



*Ami*

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SHEET NO.: 7 of 15

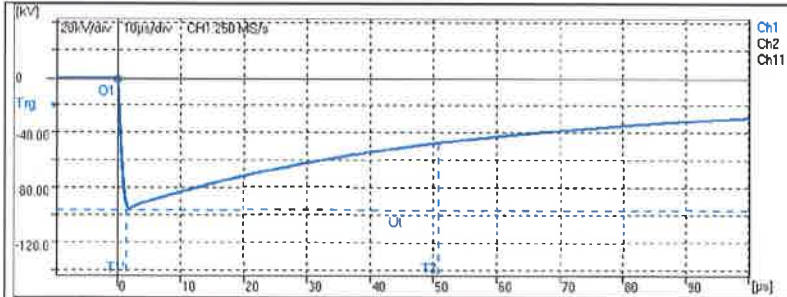


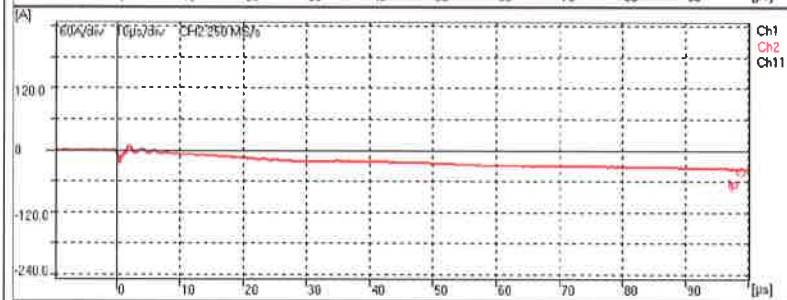
Fig.: 9

$U_p = -95.22 \text{ kV}$

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

$T_2 = 50.79 \text{ } \mu\text{s}$

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



Comment: 100% LI FW

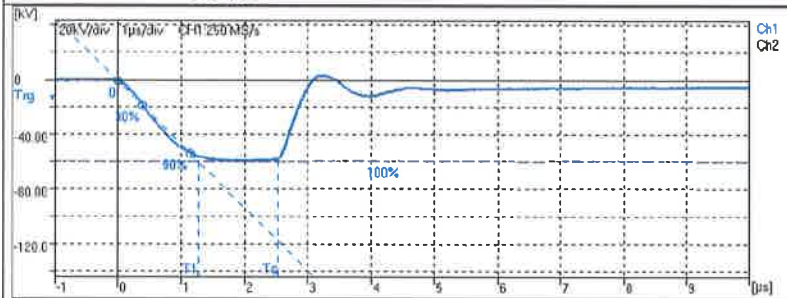


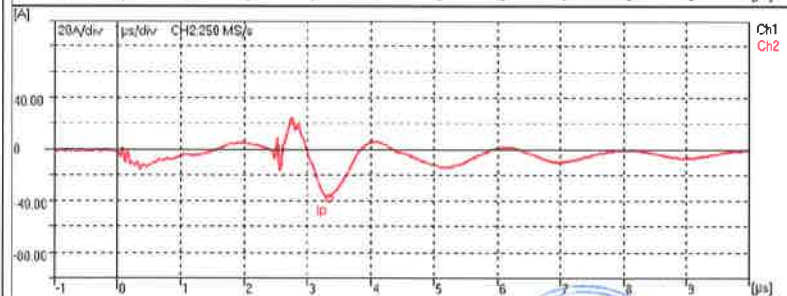
Fig.: 10

$U_p = -59.13 \text{ kV}$

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

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

$T_c = 2.55 \text{ } \mu\text{s}$



Comment: LI CRW



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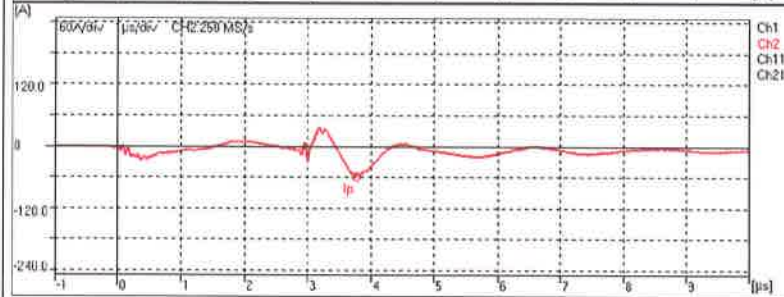
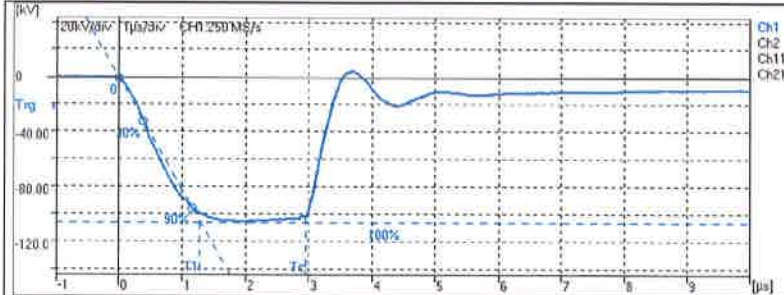


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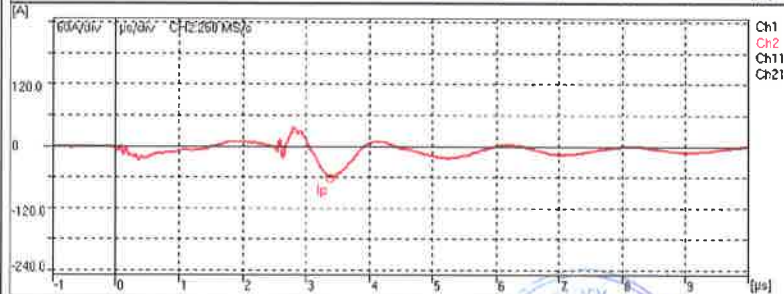
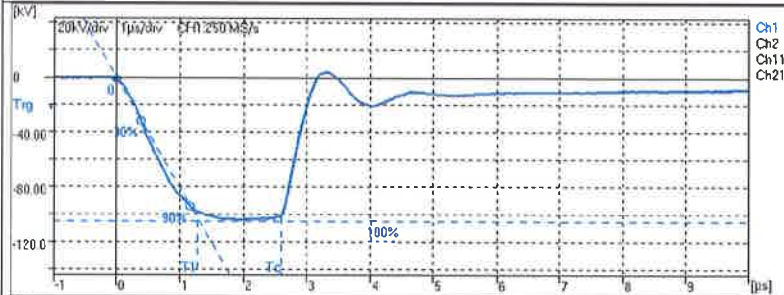
TEST REPORT NO. : RP-1920-015707

DATE : 25/07/2019

SHEET NO.: 8 of 15



Comment: 110% LI CFW



Comment: 110% LI CFW



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TEST REPORT NO. : RP-1920-015707

DATE : 25/07/2019

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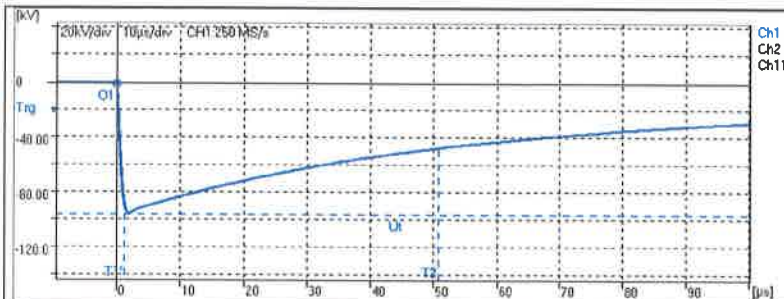


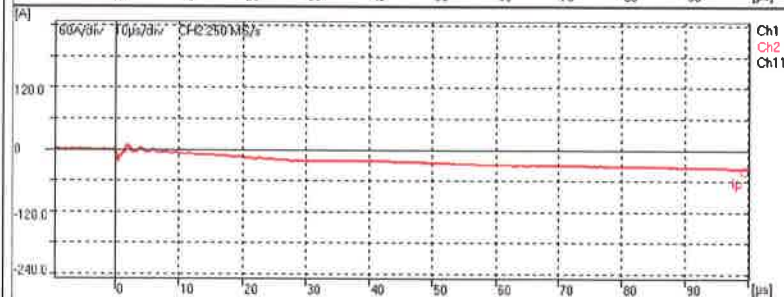
Fig.: 13

$U_p = -95.55 \text{ kV}$

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

$T_2 = 50.83 \text{ } \mu\text{s}$

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



Comment: 100% LI FW

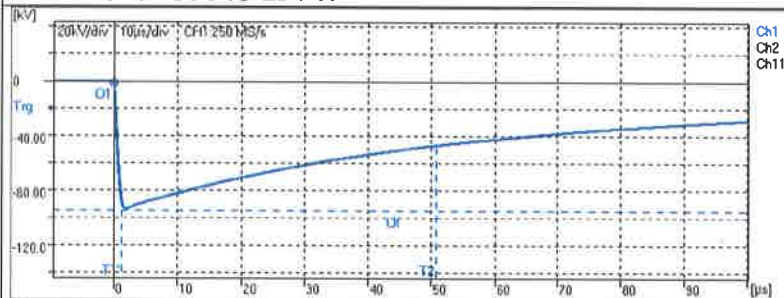


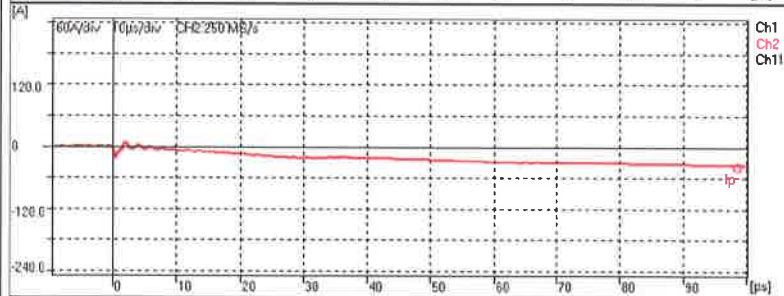
Fig.: 14

$U_p = -93.96 \text{ kV}$

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

$T_2 = 50.84 \text{ } \mu\text{s}$

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



Comment: 100% LI FW

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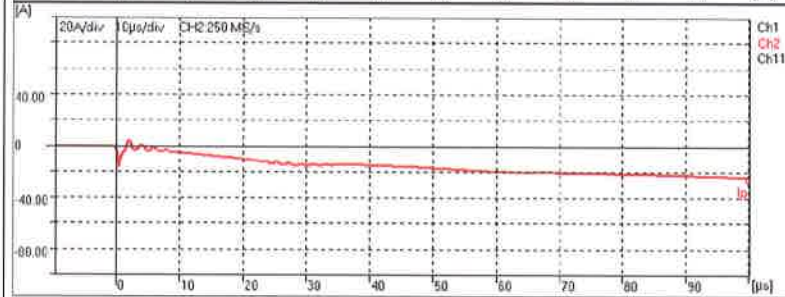
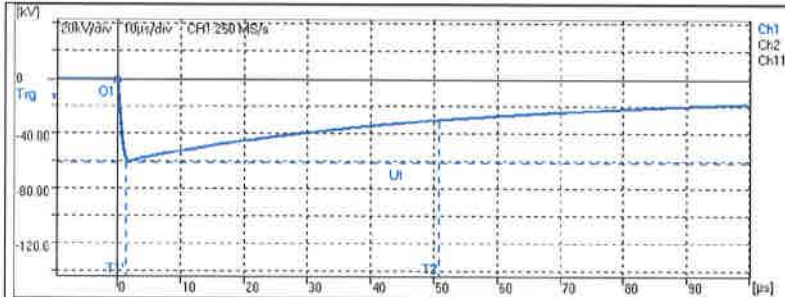


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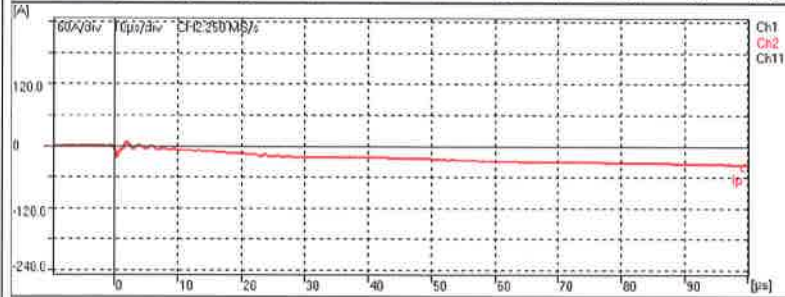
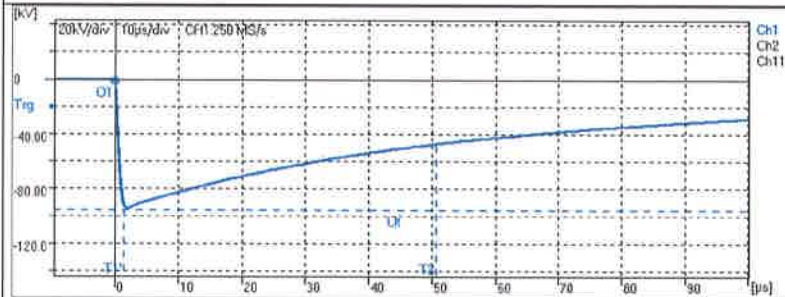
TEST REPORT NO. : RP-1920-015707

DATE : 25/07/2019

SHEET NO.: 10 of 15



Comment: LI RW



Comment: 100% LI FW

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**TC538919000023118F**

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**DATE : 25/07/2019**

**SHEET NO.:** 11 of 15

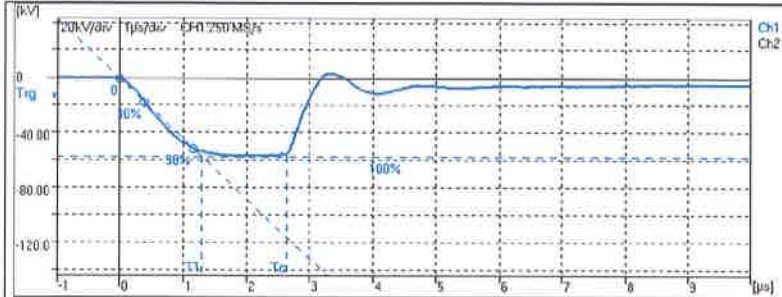


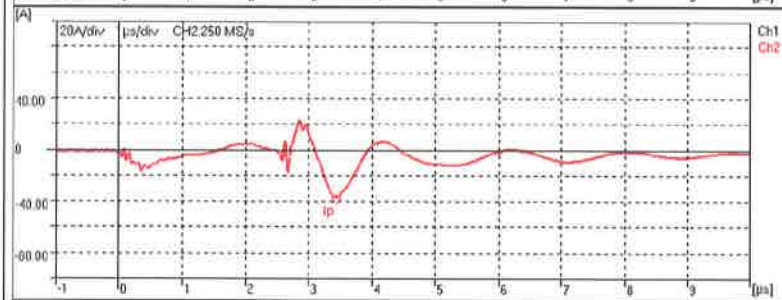
Fig.: 17

$U_p = -56.66 \text{ kV}$

$T_1 = 1.29 \text{ µs}$

$T_2 = \text{µs}$

$T_c = 2.65 \text{ µs}$



Comment: LI CRW

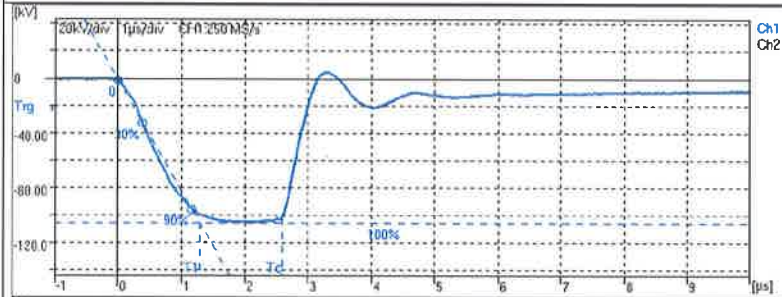


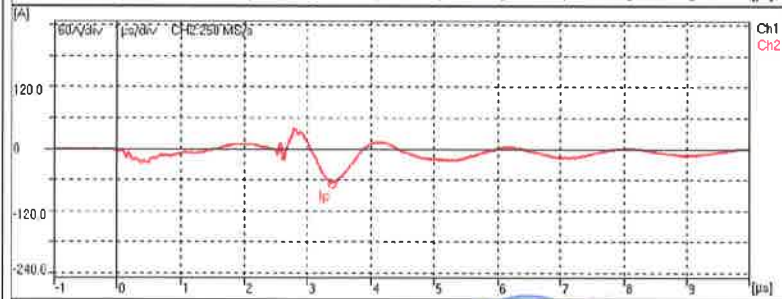
Fig.: 18

$U_p = -104.89 \text{ kV}$

$T_1 = 1.29 \text{ µs}$

$T_2 = \text{µs}$

$T_c = 2.60 \text{ µs}$



Comment: 110% LI CFW



PREPARED BY *Am*

CHECKED BY *P. Patel*

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DATE : 25/07/2019

SHEET NO.: 12 of 15

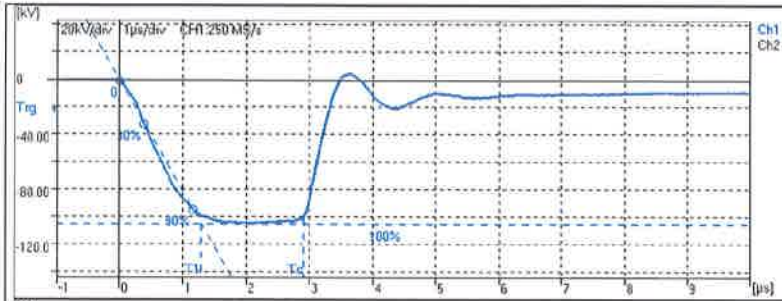


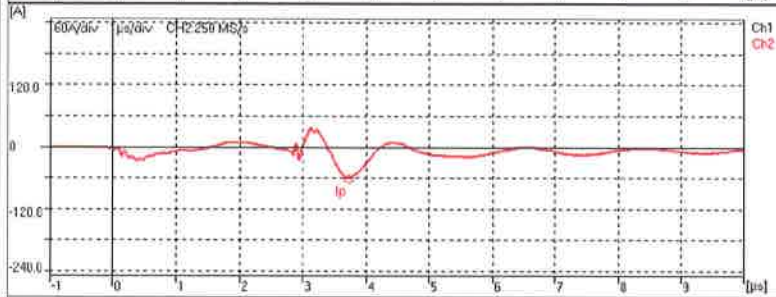
Fig.: 19

$U_p = -104.69 \text{ kV}$

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

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

$T_c = 2.91 \text{ } \mu\text{s}$



Comment: 110% LI CFW

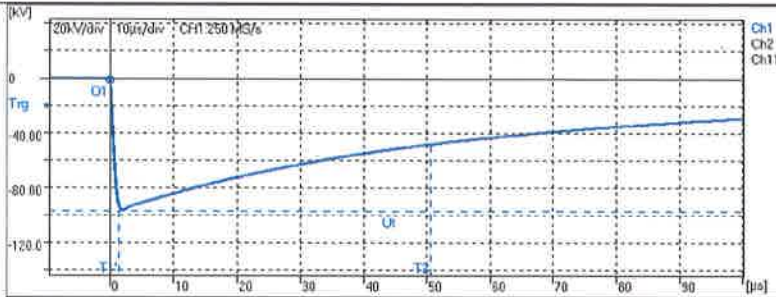


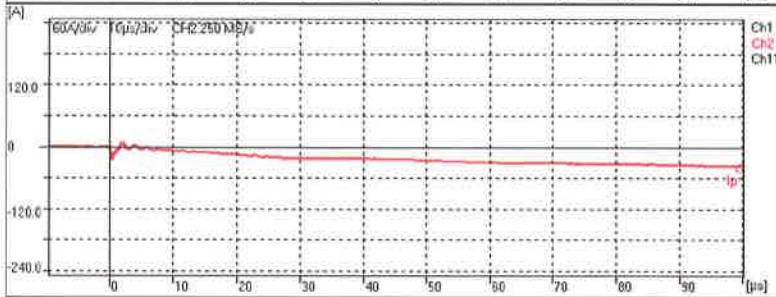
Fig.: 20

$U_p = -96.28 \text{ kV}$

$T_1 = 1.31 \text{ } \mu\text{s}$

$T_2 = 50.71 \text{ } \mu\text{s}$

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



Comment: 100% LI FW

TC 2828805

PREPARED BY



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



TC538919000023118F

TEST REPORT NO. : RP-1920-015707

SHEET NO.: 13 of 15

DATE : 25/07/2019

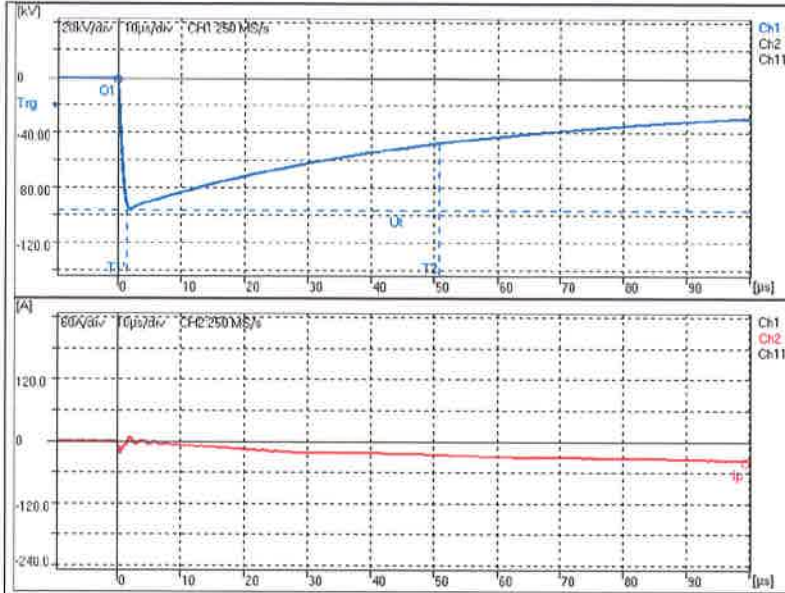


Fig.: 21  
 $U_p = -95.43 \text{ kV}$   
 $T_1 = 1.30 \text{ } \mu\text{s}$   
 $T_2 = 50.75 \text{ } \mu\text{s}$   
 $T_c = \text{ } \mu\text{s}$

Comment: 100% LI FW



PREPARED BY

CHECKED BY

TC 2828806



Certificate No. : TC-5389

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**TC538919000023118F**

**TEST REPORT NO. : RP-1920-015707**

**SHEET NO.:** 14 of 15

**DATE : 25/07/2019**

## PHOTOGRAPH OF TEST SAMPLE



**TC 2828807**

*Jm*

**PREPARED BY**



*P. Patel*

**CHECKED BY**





Certificate No. : TC-5389

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TC538919000023118F

TEST REPORT NO. : RP-1920-015707

SHEET NO.: 15 of 15

DATE : 25/07/2019

## PHOTOGRAPH OF RATING AND TERMINAL MARKING PLATE

**RAJASTHAN POWERGEN TRANSFORMER PVT. LTD.**  
 Khasra No. 911-914, Karola-Bhinmal Road, Karola,  
 Sanchore-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-I/2014	MAX. TOTAL LOSSES	
KVA	160	AT 50% RATED LOAD W	670
VOLTS AT	HV 11000	MAX. TOTAL LOSSES	
NO LOAD	LV 433	AT 100% RATED LOAD W	1950
BIL	HV 105 AC28	TYPE OF COOLING	ONAN
	LV LJ- /AC 3	TEMP RISE	OIL 35°C
AMPERES	HV 8.40	WDG	40°C
	LV 213.34	MASS OF OIL (KG)	230
FREQUENCY	Hz 50	TOTAL MASS (KG)	1035
VECTOR GROUP	Dyn11	VOLUME OF OIL LTRS	280
IMPEDANCE VOLT %	4.5	MONTH & YEAR OF MFG.	2019
TAPPING	NA	SERIAL NO.	
CUSTOMER			
ORDER NO.			

**MADE IN INDIA**

**MADE IN INDIA**



*[Signature]*

PREPARED BY

*[Signature]*

CHECKED BY

TC 2828808

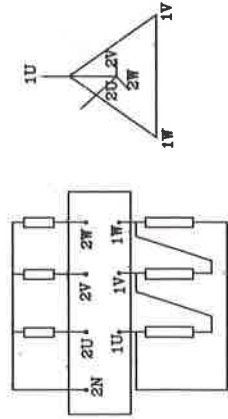
105  
95

**DISTRIBUTION TRANSFORMER**

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

③ PHASE TRANSFORMER ENERGY LEVEL 2  
STANDARD S1100(PART-1)/2014 MAX. TOTAL LOSS W/ 670  
KVA 160 AT 100% LOAD W/ 1950  
VOLTS AT HV 11000 TYPE OF COOLING ONAN  
NO LOAD LV 433 TEMP. RISE { OIL 35° C  
WDG. 40° C  
BL HV LI65/AC28  
LV LI-/AC3 MASS OF OIL(KG) 230  
AMPERES HV 8.40 TOTAL MASS (KG) 1035  
LV 213.34  
FREQUENCY HZ 50 VOLUME OF OIL LTRS 280  
VECTOR GROUP Dyn11 MONTH/YEAR OF MFG 2019  
IMPEDANCE VOLT % 4.5 SERIAL NO. RPTPL/01  
TAPPING NA  
CUSTOMER  
ORDER NO.

MADE IN INDIA



MADE IN INDIA

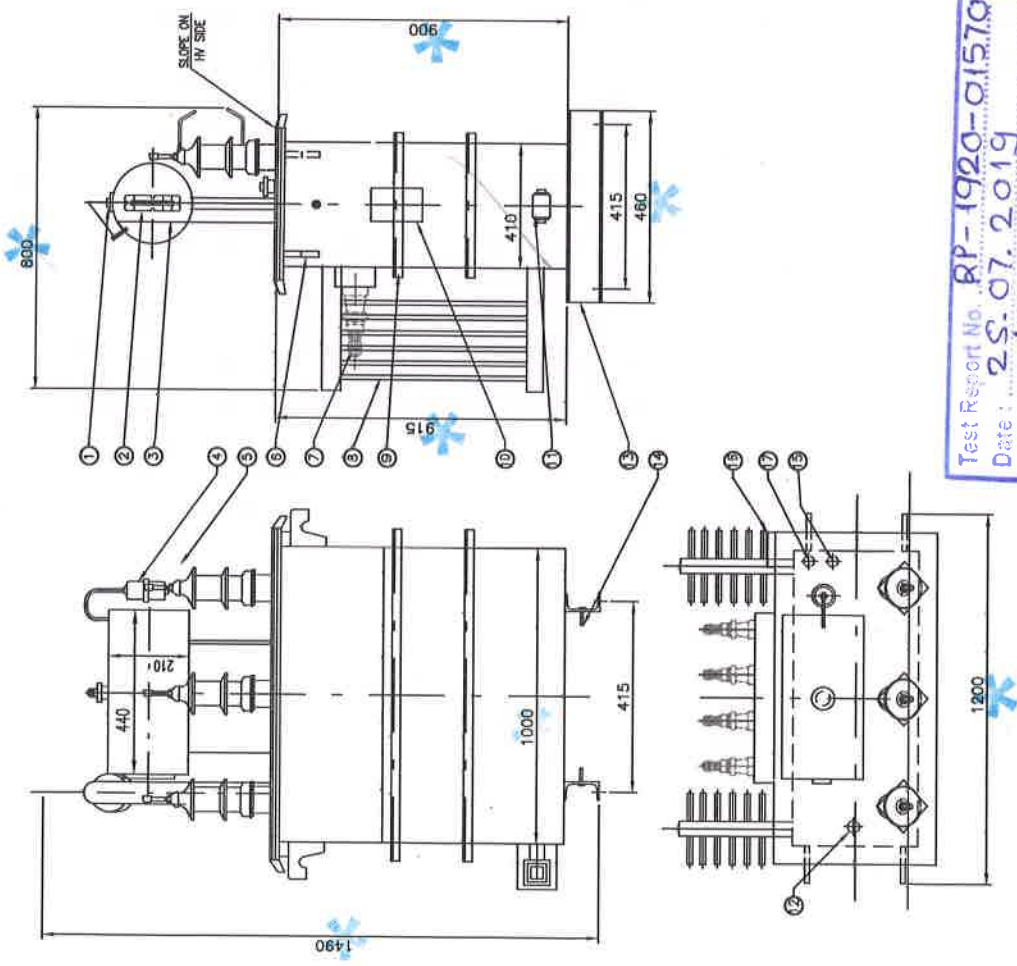
Test Report No. RP-1920-0157.97  
Date 25.07.2019  
Product 160 kVA  
Verified by this drawing by ERDA is  
limited to relevant dimensions. All checks only.  
Verified dimensions are marked with \*.

RAJASTHAN POWERGEN TRANSFORMER PVT. LTD  
KHASRA No. 911-914, KAROLA-BHINMAL ROAD, KAROLA,

SANCHORE-343041, DIST. JALORE, RAJASTHAN

**TITLE:** - NAME PLATE DRAWING OF 160 KVA, 11/0.433KV  
ALUMINIUM WOUND ENERGY EFFICIENCY LEVEL-2 TRANSFORMER

CUSTOMER	---
T.S.No.	---
SCALE	N T S
DRG. No.	NP/160/08



**WEIGHT CHART**

1. CORE & WINDING	570 Kgs.
2. TANK & FITTING	235 Kgs.
3. WEIGHT OF OIL	230 Kgs.
4. TOTAL WEIGHT	10.35Kgs.
5. VOLUME OF OIL	280 Ltrs.

**MIN ELECTRICAL CLEARANCE IN AIR**

PH. TO PH.	PH. TO EARTH
HV 255	HV 140
LV 75	LV 40

**TANK THICKNESS**

SIDE WALL	4.0mm
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 (100mm x 50 mm)	2
12.	EXPLOSION VENT	1
11.	DRAIN CUM SAMPLING VALVE 20mm	1
10.	NAME RATING & DIAGRAM PLATE	1
9.	STIFFNER (50 mm x 50 mm x 6 mm THICK)	2
8.	PRESS STEEL RADIATOR (600C/CX300W)-6FINS	2
7.	L.V. BUSHING	4
6.	TRANSFORMER LIFTING LUGS 8 mm THICK	4
5.	H.V. BUSHING WITH ARKING HORN & BIMETALLIC CONNECTOR	3
4.	SILICAGEL BREATHER 500 Grm.	1
3.	OIL CONSERVATOR WITH DRAIN PLUG	1
2.	OIL LEVEL INDICATORS	1
1.	OIL FILLING HOLE WITH CAP	1
S.No.	<b>D E S C R I P T I O N S</b>	<b>QTY.</b>

**RAJASTHAN POWERGEN TRANSFORMER PVT LTD**  
 KHASRA NO. 911-914, KAROLA-BHINMAL ROAD, KAROLA,  
 SANCHORE-343041, Dist. JALORE, RAJASTHAN

**TITLE:- OUTLINE G.A. DRAWING OF 160KVA,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-160-07

Test Report No. RP-1920-015707  
 Date: 25.07.2019  
 Product: 160 kVA Transformer  
 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 ±10%
  3. (\*) ACCESSORIES NOT PROVIDED DURING TESTING