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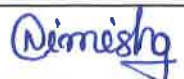
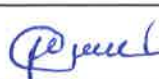
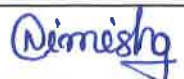
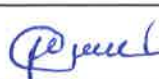
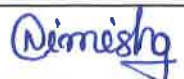
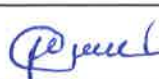
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**TEST REPORT****TC538919000010059F****SHEET NO. : 1 OF 15**

NAME & ADDRESS OF CUSTOMER M/s. Rajasthan Powergen Transformer Pvt. Ltd. Khasra No. 911-914 Karola - Bhinmal Road, Karola, Sanchoe, Rajasthan-343041	TEST REPORT NO. : RP-1819-050577 DATE : 28/03/2019 CUSTOMER REF. NO. : NIL DATED : 20/03/2019 <table border="1"> <tr> <th data-bbox="750 604 1101 672">DATE OF SAMPLE RECEIPT</th> <th data-bbox="1101 604 1495 649">DATE OF TESTING</th> </tr> <tr> <td data-bbox="750 672 1101 705">20/03/2019</td> <td data-bbox="1101 672 1495 705">28/03/2019</td> </tr> </table>		DATE OF SAMPLE RECEIPT	DATE OF TESTING	20/03/2019	28/03/2019
DATE OF SAMPLE RECEIPT	DATE OF TESTING					
20/03/2019	28/03/2019					
SAMPLE DESCRIPTION DISTRIBUTION TRANSFORMER NON-SEALED TYPE ENERGY EFFICIENCY LEVEL : 2 RATING : 25 kVA RATED VOLTS : 11000/433 V RATED CURRENT : 1.31/33.33 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-00307717					
<table border="1"> <tr> <td data-bbox="121 1176 750 1512"> 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-25KVA-RP-01/02-2019 2) RPTPL-25KVA-RP-02/02-2019 3) RPTPL-GA-25KVA-02-2019 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. </td> <td data-bbox="750 1176 1495 1512"> 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) </td> </tr> </table>			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-25KVA-RP-01/02-2019 2) RPTPL-25KVA-RP-02/02-2019 3) RPTPL-GA-25KVA-02-2019 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.	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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<table border="1"> <tr> <td data-bbox="121 1512 526 1780"> PREPARED BY  </td> <td data-bbox="526 1512 837 1780"> CHECKED BY  </td> <td data-bbox="837 1512 1495 1780"> APPROVED BY A. S. Khopkar  </td> </tr> </table>			PREPARED BY 	CHECKED BY 	APPROVED BY A. S. Khopkar 	
PREPARED BY 	CHECKED BY 	APPROVED BY A. S. Khopkar 				
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. 5. In case of any dispute, Vadodara will be the exclusive jurisdiction & shall be constructed as where the cause has arisen Caution: ERDA is not responsible for the authenticity of photocopied or reproduced test reports. ERDA provides support to customers for verification of the authenticity of test reports issued by ERDA.						



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**TC538919000010059F****TEST REPORT NO. : RP-1819-050577****SHEET NO.: 2 of 15****DATE : 28/03/2019**

Waveform	Comment	Ut / kVp	T1 / μ s	T2 / μ s	Tc / μ s
1U PHASE					
1	LI RW	-56.682	1.384	46.603	
2	100% LI FW	-94.414	1.383	46.696	
3	LI CRW	-59.392	1.409		2.331
4	110% LI CFW	-105.020	1.380		2.574
5	110% LI CFW	-103.897	1.372		2.688
6	100% LI FW	-94.217	1.386	46.697	
7	100% LI FW	-96.238	1.386	46.695	
1V PHASE					
8	LI RW	-55.434	1.371	46.630	
9	100% LI FW	-94.253	1.386	46.680	
10	LI CRW	-56.998	1.348		2.595
11	110% LI CFW	-104.882	1.388		4.225
12	110% LI CFW	-104.447	1.387		3.787
13	100% LI FW	-94.438	1.378	46.756	
14	100% LI FW	-95.334	1.381	46.754	
1W PHASE					
15	LI RW	-56.351	1.376	46.695	
16	100% LI FW	-93.761	1.380	46.776	
17	LI CRW	-56.474	1.353		2.731
18	110% LI CFW	-104.550	1.381		2.745
19	110% LI CFW	-104.976	1.386		3.703
20	100% LI FW	-95.498	1.386	46.681	
21	100% LI FW	-93.759	1.383	46.727	

*Dennis***PREPARED BY***P. Patel***CHECKED BY****TC 2743757**



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SHEET NO.: 3 of 15

DATE : 28/03/2019

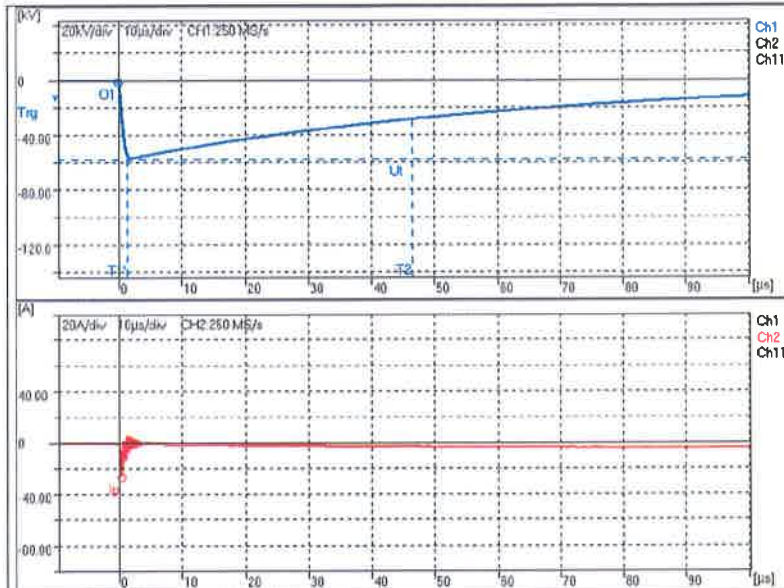


Fig.: 1

$U_p = -56.68 \text{ kV}$

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

$T_2 = 46.60 \mu\text{s}$

$T_c = \mu\text{s}$

Comment: LI RW

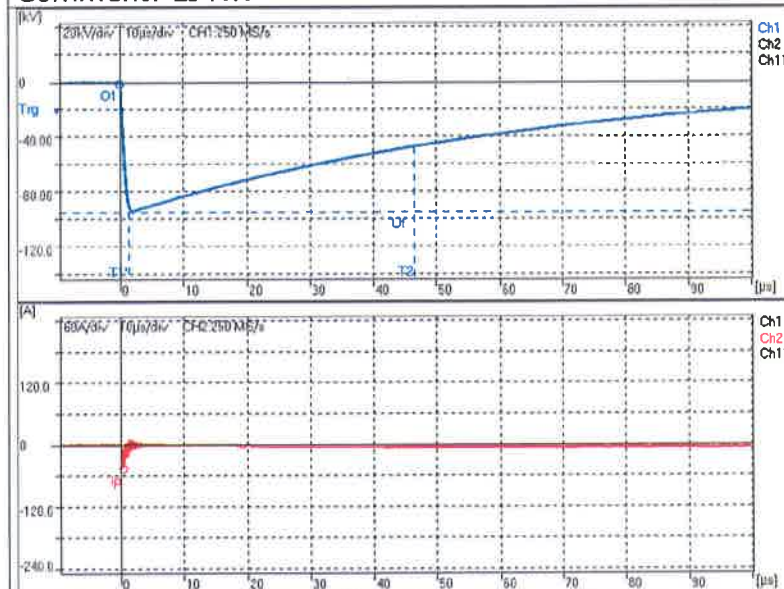


Fig.: 2

$U_p = -94.41 \text{ kV}$

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

$T_2 = 46.70 \mu\text{s}$

$T_c = \mu\text{s}$

Comment: 100% LI FW

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PREPARED BY



P. Patel

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TC538919000010059F

TEST REPORT NO. : RP-1819-050577

SHEET NO.: 4 of 15

DATE : 28/03/2019

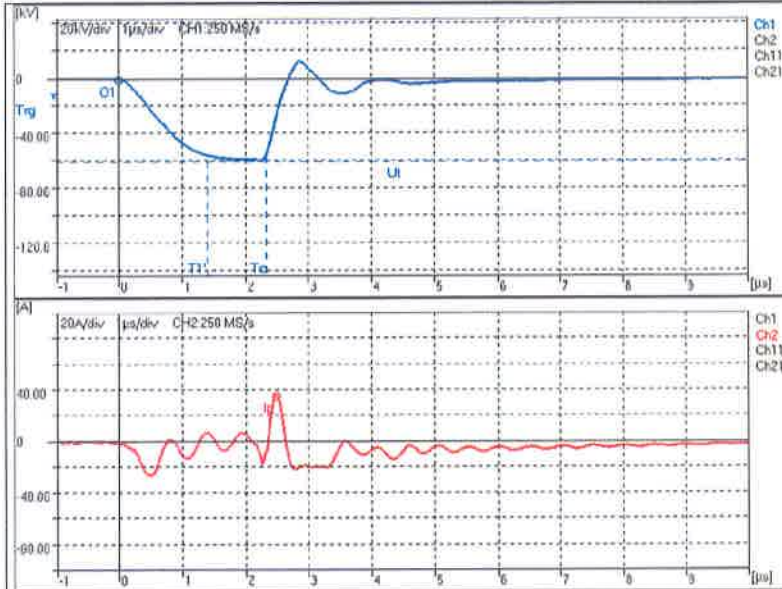


Fig.: 3

$U_p = -59.39 \text{ kV}$

$T_1 = 1.41 \mu\text{s}$

$T_2 = \mu\text{s}$

$T_c = 2.33 \mu\text{s}$

Comment: LI CRW

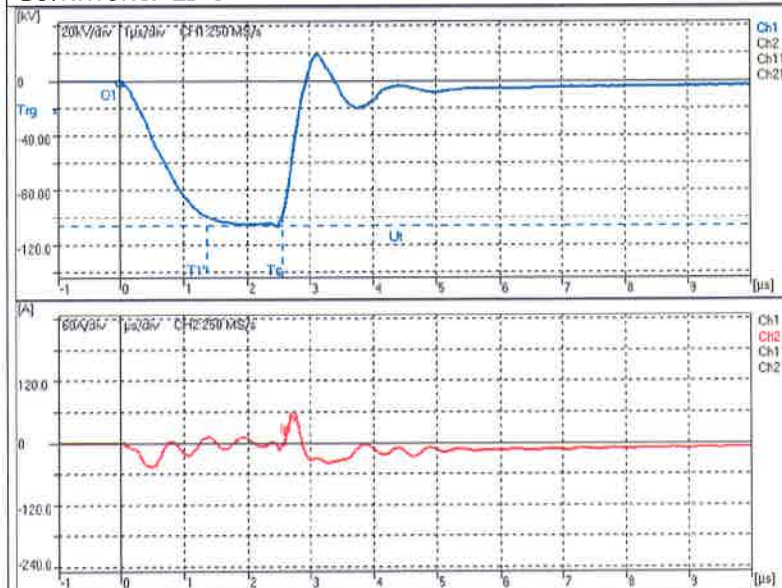


Fig.: 4

$U_p = -105.02 \text{ kV}$

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

$T_2 = \mu\text{s}$

$T_c = 2.57 \mu\text{s}$

Comment: 110% LI CFW

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PREPARED BY



Rajeev

CHECKED BY

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SHEET NO.: 5 of 15

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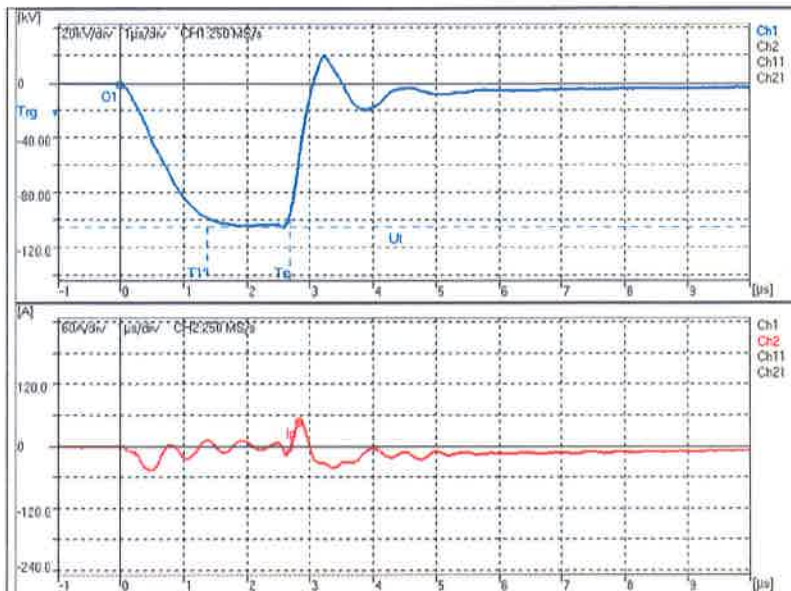


Fig.: 5

$U_p = -103.90 \text{ kV}$

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

$T_2 = \mu\text{s}$

$T_c = 2.69 \mu\text{s}$

Comment: 110% LI CFW

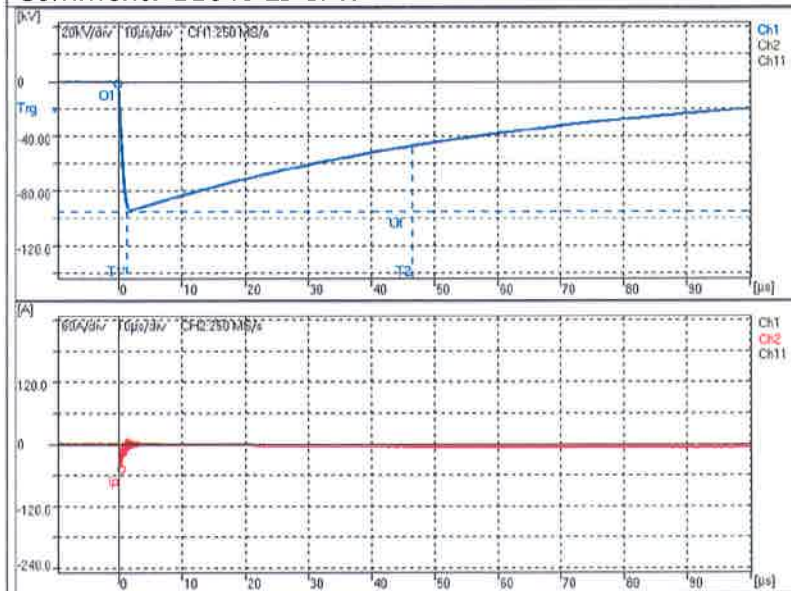


Fig.: 6

$U_p = -94.22 \text{ kV}$

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

$T_2 = 46.70 \mu\text{s}$

$T_c = \mu\text{s}$

Comment: 100% LI FW

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PREPARED BY



P. Patel
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TEST REPORT NO. : RP-1819-050577

SHEET NO.: 6 of 15

DATE : 28/03/2019

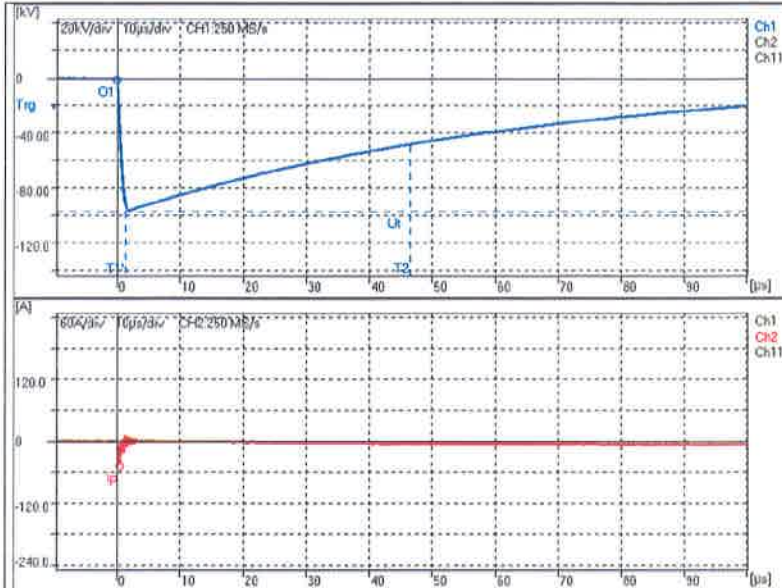


Fig.: 7

$U_p = -96.24 \text{ kV}$

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

$T_2 = 46.70 \mu\text{s}$

$T_c = \mu\text{s}$

Comment: 100% LI FW

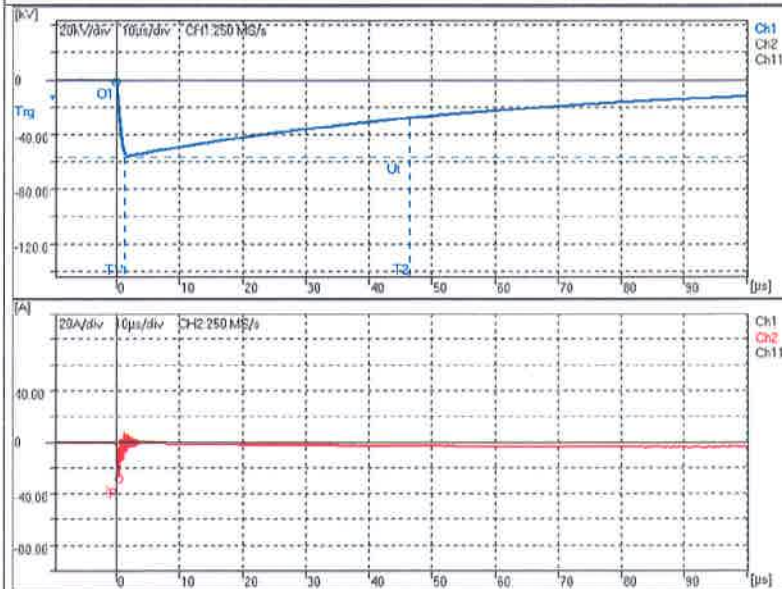


Fig.: 8

$U_p = -55.43 \text{ kV}$

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

$T_2 = 46.63 \mu\text{s}$

$T_c = \mu\text{s}$

Comment: LI RW

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SHEET NO.: 7 of 15

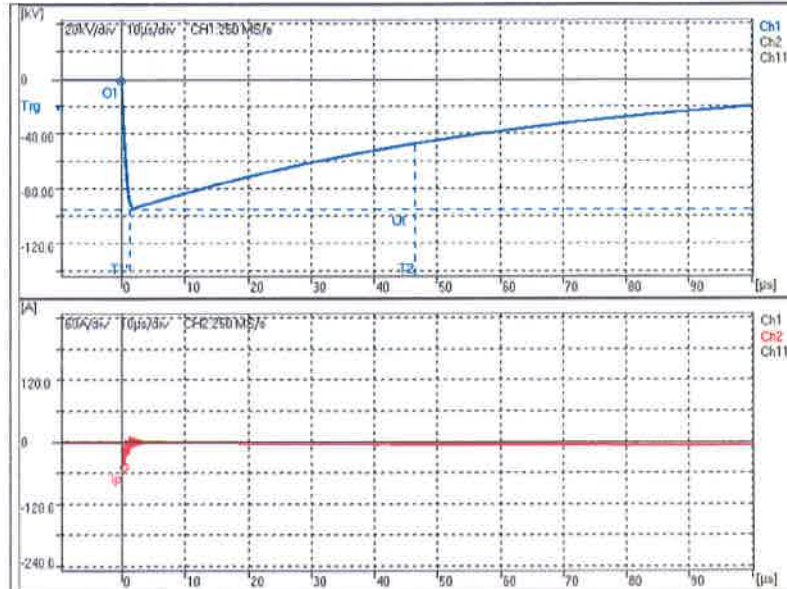


Fig.: 9

$U_p = -94.25 \text{ kV}$

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

$T_2 = 46.68 \mu\text{s}$

$T_c = \mu\text{s}$

Comment: 100% LI FW

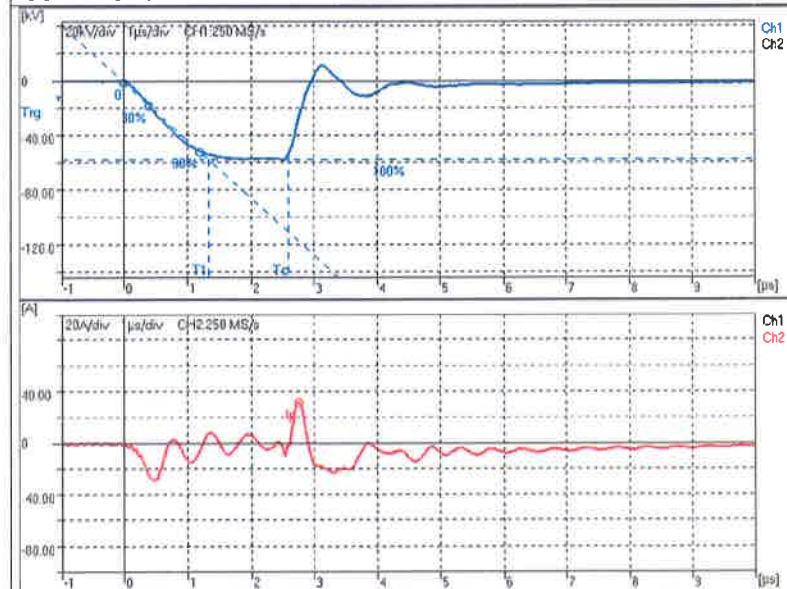


Fig.: 10

$U_p = -57.00 \text{ kV}$

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

$T_2 = \mu\text{s}$

$T_c = 2.59 \mu\text{s}$

Comment: LI CRW

Prepared by

PREPARED BY



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SHEET NO.: 8 of 15

DATE : 28/03/2019

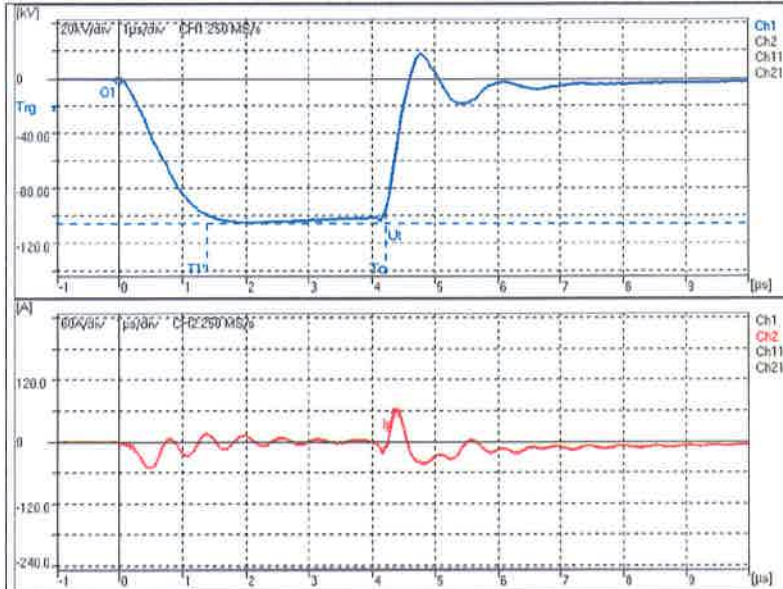


Fig.: 11

$U_p = -104.88 \text{ kV}$

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

$T_2 = \mu\text{s}$

$T_c = 4.22 \mu\text{s}$

Comment: 110% LI CFW

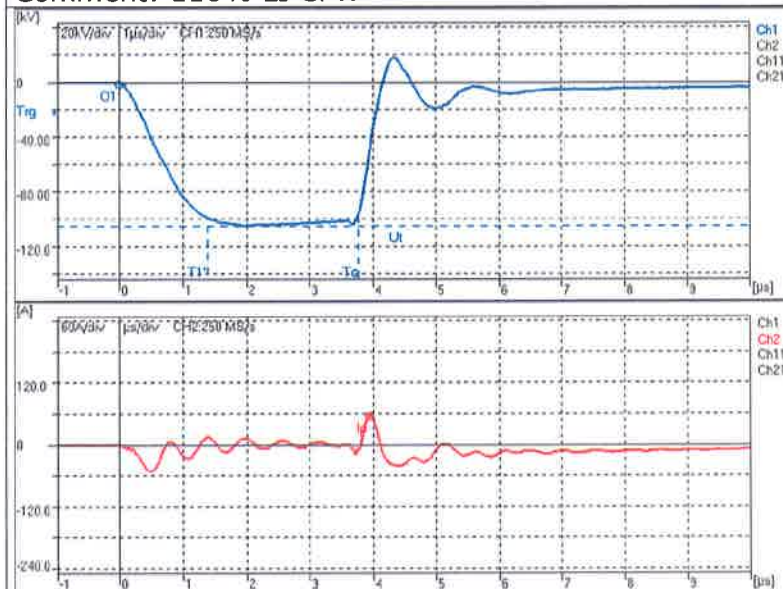


Fig.: 12

$U_p = -104.45 \text{ kV}$

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

$T_2 = \mu\text{s}$

$T_c = 3.79 \mu\text{s}$

Comment: 110% LI CFW

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PREPARED BY



Rajul
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SHEET NO.: 9 of 15

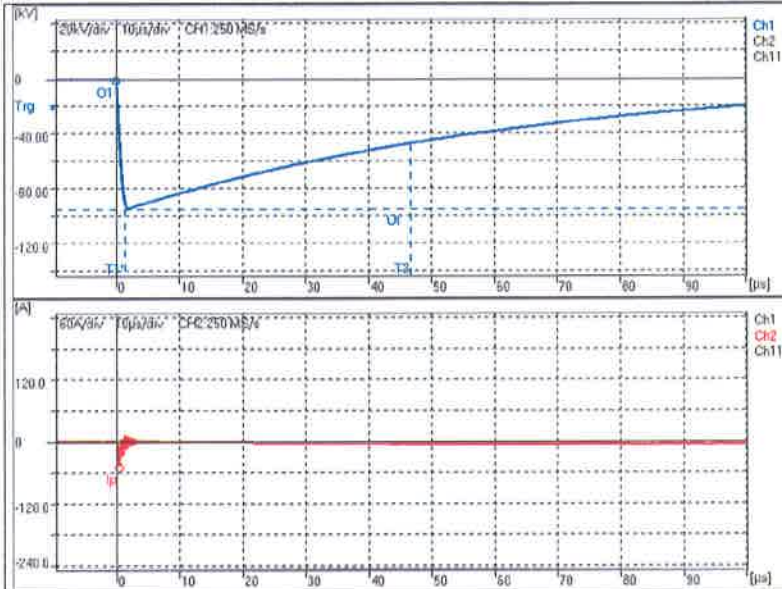


Fig.: 13

$U_p = -94.44 \text{ kV}$

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

$T_2 = 46.76 \text{ } \mu\text{s}$

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

Comment: 100% LI FW

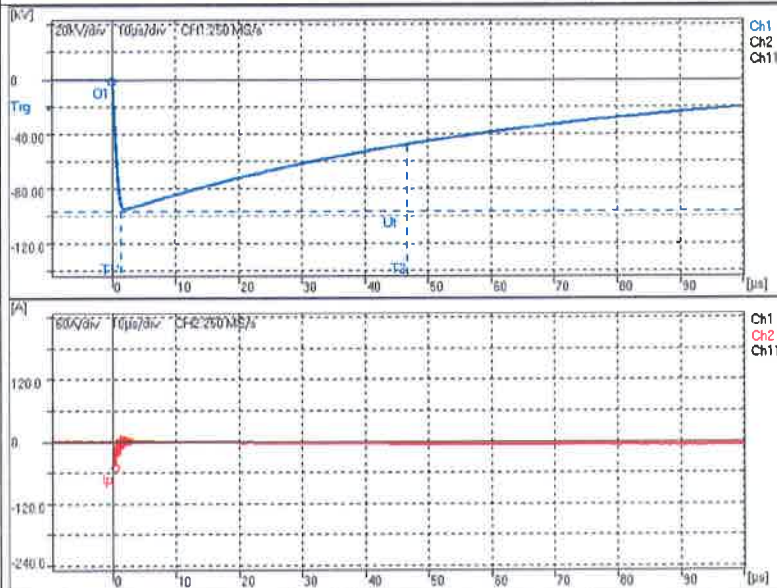


Fig.: 14

$U_p = -95.33 \text{ kV}$

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

$T_2 = 46.75 \text{ } \mu\text{s}$

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

Comment: 100% LI FW

TC 2743764

PREPARED BY
Dinmishq



CHECKED BY
P. Patel



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SHEET NO.: 10 of 15

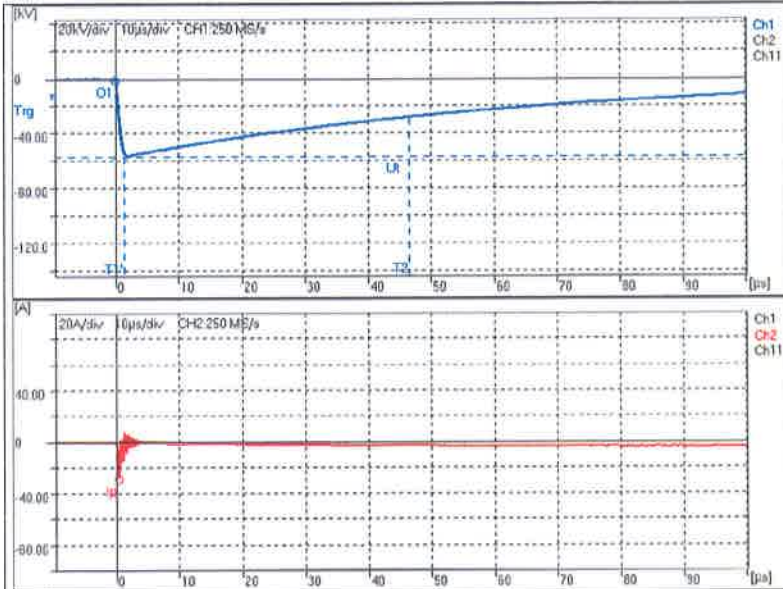


Fig.: 15
 $U_p = -56.35 \text{ kV}$
 $T_1 = 1.38 \mu\text{s}$
 $T_2 = 46.70 \mu\text{s}$
 $T_c = \mu\text{s}$

Comment: LI RW

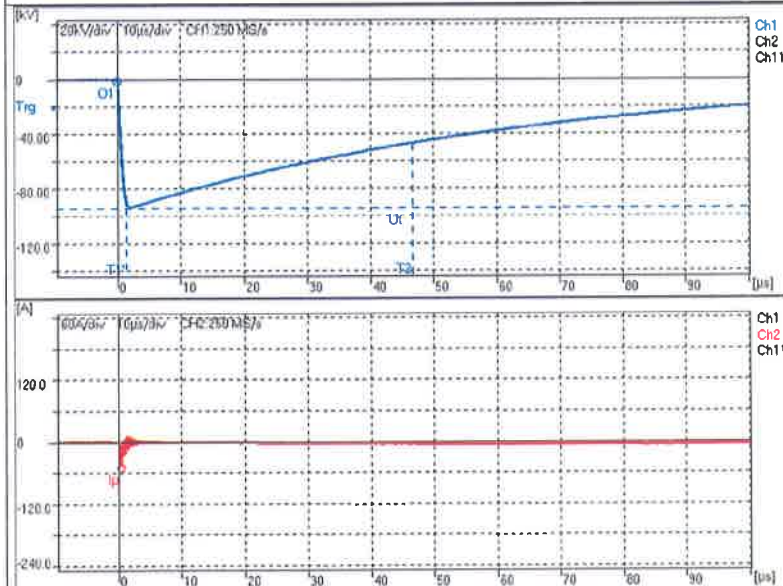


Fig.: 16
 $U_p = -93.76 \text{ kV}$
 $T_1 = 1.38 \mu\text{s}$
 $T_2 = 46.78 \mu\text{s}$
 $T_c = \mu\text{s}$

Comment: 100% LI FW

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SHEET NO.: 11 of 15

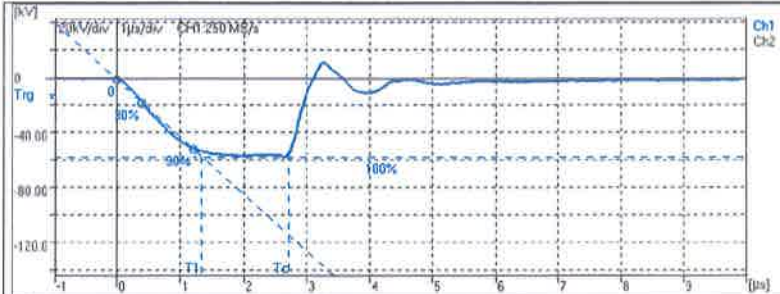


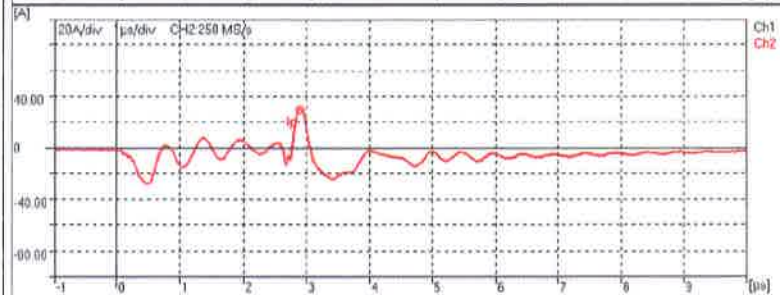
Fig.: 17

$U_p = -56.47 \text{ kV}$

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

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

$T_c = 2.73 \text{ } \mu\text{s}$



Comment: LI CRW

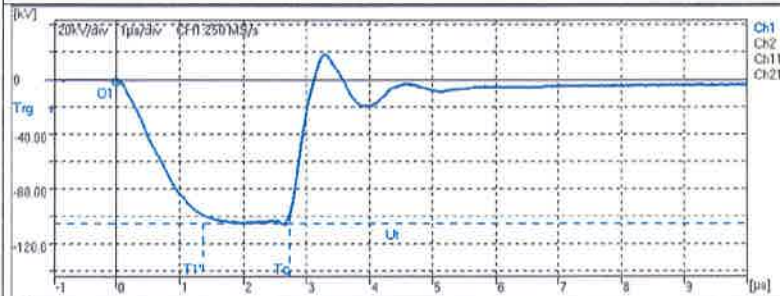


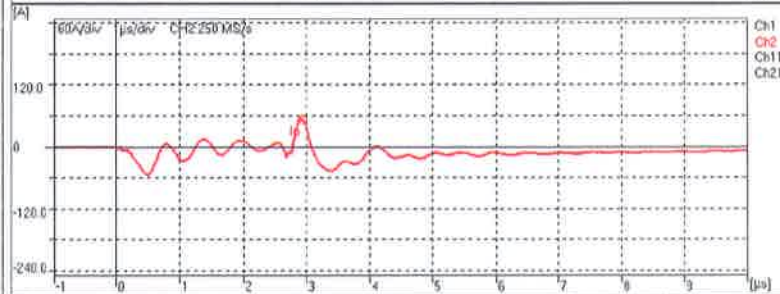
Fig.: 18

$U_p = -104.55 \text{ kV}$

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

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

$T_c = 2.74 \text{ } \mu\text{s}$



Comment: 110% LI CFW

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PREPARED BY



P. Patel

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DATE : 28/03/2019

SHEET NO.: 12 of 15

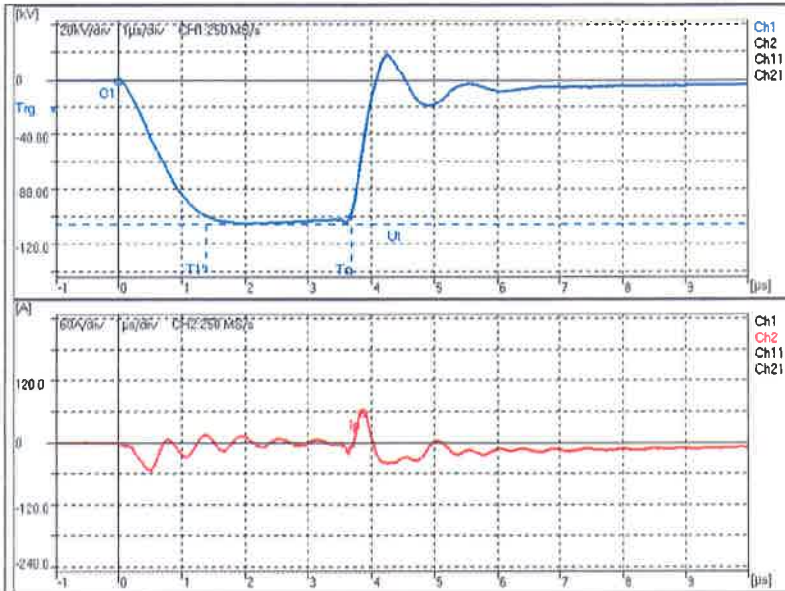


Fig.: 19

$U_p = -104.98 \text{ kV}$

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

$T_2 = \mu\text{s}$

$T_c = 3.70 \mu\text{s}$

Comment: 110% LI CFW

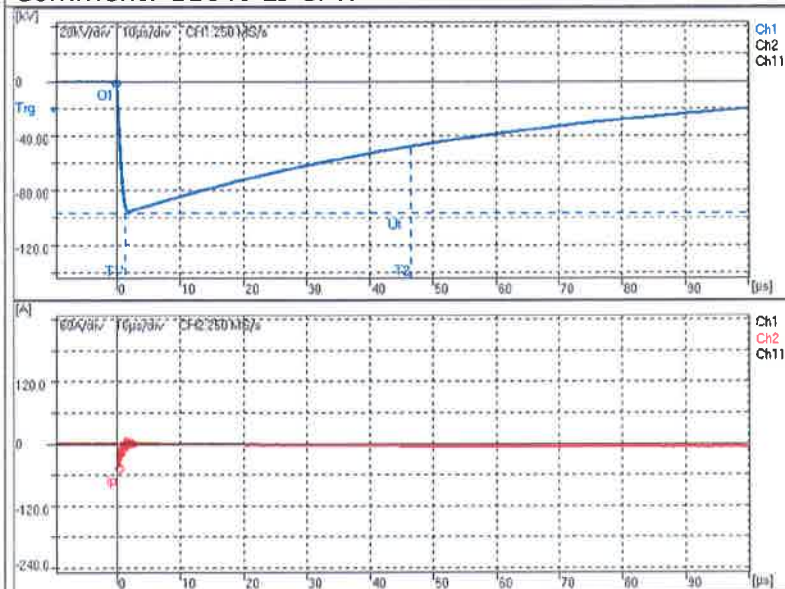


Fig.: 20

$U_p = -95.50 \text{ kV}$

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

$T_2 = 46.68 \mu\text{s}$

$T_c = \mu\text{s}$

Comment: 100% LI FW

TC 2743767

PREPARED BY
Nimishg



CHECKED BY
Pranav



Certificate No. : TC-5389

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

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

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E-mail : erda@erda.org

Web : http://www.erda.org

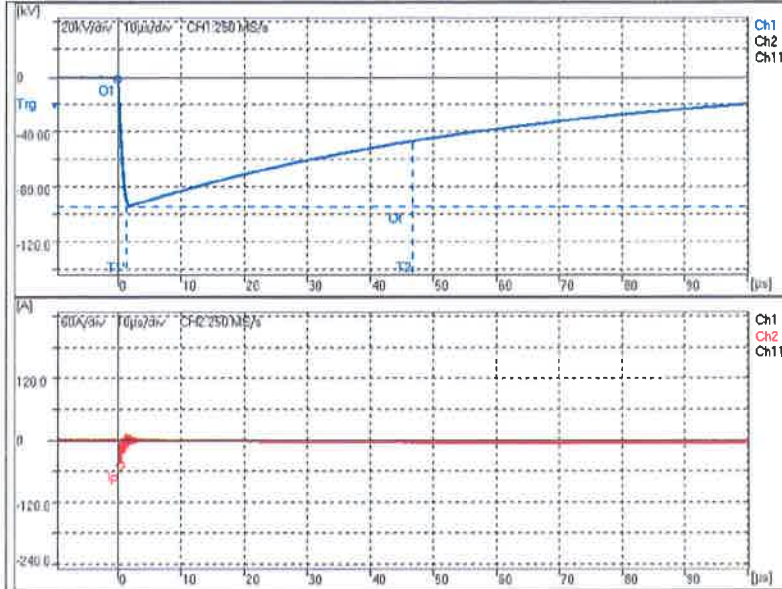


TC538919000010059F

TEST REPORT NO. : RP-1819-050577

SHEET NO.: 13 of 15

DATE : 28/03/2019



Comment: 100% LI FW

Fig.: 21

$U_p = -93.76 \text{ kV}$

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

$T_2 = 46.73 \text{ } \mu\text{s}$

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

TC 2743768

Amishg
PREPARED BY



P. Patel
CHECKED BY



Certificate No. : TC-5389

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TC538919000010059F

TEST REPORT NO. : RP-1819-050577

SHEET NO.: 14 of 15

DATE : 28/03/2019

PHOTOGRAPH OF TEST SAMPLE



TC 2743769

Omishy
PREPARED BY



Rajesh
CHECKED BY



Certificate No. : TC-5389

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TC538919000010059F

TEST REPORT NO. : RP-1819-050577

SHEET NO.: 15 of 15

DATE : 28/03/2019

PHOTOGRAPH OF RATING AND TERMINAL MARKING PLATE

DISTRIBUTION TRANSFORMER			
RAJASTHAN POWERGEN		TRANSFORMER PVT. LTD.	
Karola-Bhinmal Road, Sanchoe		Dist - Jalore, Rajasthan	
IS:1180		PART 1	
CMIL-8400030105			
3 PHASE TRANSFORMER	ENERGY EFFICIENCY LEVEL	2	
STANDARD	5	MAX. TOTAL LOSSES	
KVA	25	AT 50% RATED LOAD W	130
VOLTS AT NO LOAD	H.V. 11000	MAX. TOTAL LOSSES	
	L.V. 440	AT 100% RATED LOAD W	135
BIL	H.V. 35KV/25	TYPE OF COOLING	ANAN
	L.V. 1/3KV	TEMP RISE OIL DEG C	35
AMPERES	H.V. 1.31	TEMP RISE WDG DEG C	40
	L.V. 123.42	MASS OF OIL KGS	67
FREQUENCY Hz	50	TOTAL MASS KGS	300
VECTOR GROUP REF.	AYN	VOL. OF OIL L	80
IMPEDANCE VOLT %	4.5	MONTH & YEAR OF MFG	MARCH/19
TAPPING		SERIAL NO.	RP/PPL-001
FOR HV VARIATION			
IN STEP FROM		TO	%
CUSTOMER			
ORDER NO.			
MADE IN INDIA			

TC 2743770

PREPARED BY



CHECKED BY

Test Report No. RP-1819-050511
 Date: 28/08/2019
 Product: 25 kVA x 11000 V
 Verified by: Anurag
 Verified by: This is a limited liability company. Verified dimensions are marked with *.

DISTRIBUTION TRANSFORMER			
RAJASTHAN POWERGEN TRANSFORMER PVT. LTD.			
KAROLA-BHINMAL ROAD KAROLA SANCHORE-343041 RAJASTHAN.(INDIA)			
IS: 1180		PART-I CM/L-84.00030105	
3 PHASE TRANSFORMER	STANDARD IS: 1180 (2014)	ENERGY EFFICIENCY LEVEL	2
KVA	25	MAX. TOTAL LOSSES	
VOLTS AT NO LOAD	HV 11000 LV 433	AT 50% RATED LOAD W	190
BIL	HV 15kVp/28kVrms LV -/3kVrms	MAX. TOTAL LOSSES	
AMPERES	HV 1.31 LV 33.33	AT 100% RATED LOAD W	635
FREQUENCY	50 Hz	TYPE OF COOLING	ONAN
VECTOR GROUP REF.	Dyn-11	TEMP RISE OIL DEG C	35
IMPEDANCE VOLT %	4.5	TEMP RISE WDG DEG C	40
TAPPING	-	MASS OF OIL KGS	67
FOR HV VARIATION		TOTAL MASS KGS	300
IN STEP FROM TO %		VOL. OF OIL L	80
CUSTOMER		MONTH & YEAR OF MFG.	MAR-2019
ORDER NO.		SERIAL NO.	RPTPL-001
MADE IN INDIA			

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

CHD BY

APPD BY

RATING & TERMINAL MARKING PLATE FOR

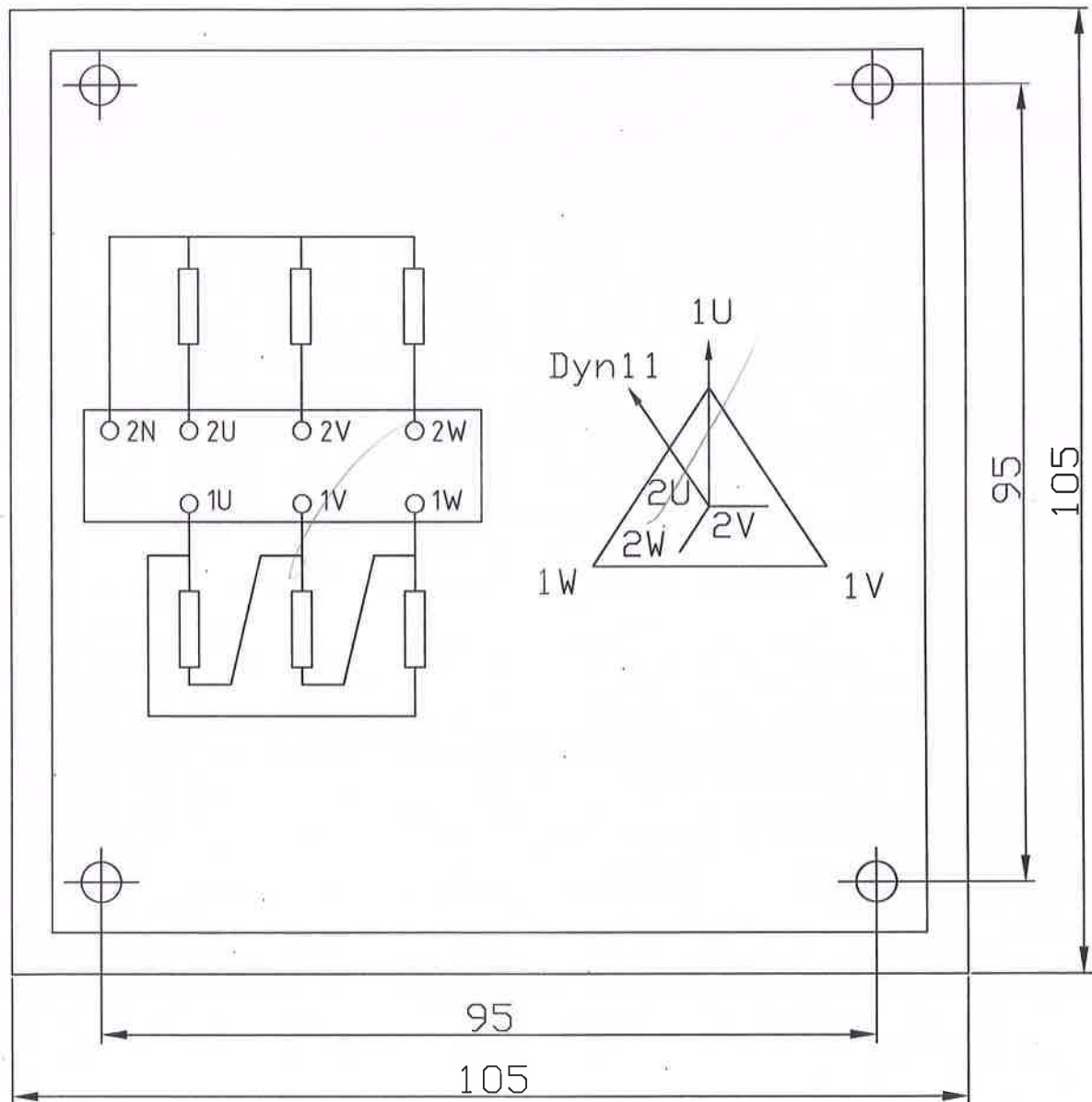
25 KVA, 11/0.433 KV DISTRIBUTION TRANSFORMER
 3 PHASE, ENERGY EFFICIENCY LEVEL-2

DRG. NO. RPTPL-25KVA-RP-01/02-2019

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



Test Report No. RP-1819-050377
 Date : 28/03/2019
 Product : 25 KVA xmer
 Verified By : *Amish*
 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

CHD BY

APPD BY

RATING & TERMINAL MARKING PLATE FOR
 25 KVA, 11/0.433 KV DISTRIBUTION TRANSFORMER
 3 PHASE , ENERGY EFFICIENCY LEVEL-2

DRG. NO. RPTPL-25KVA-RP-02/02-2019

REV.
 NO.

DATE
 SIGN

BRIEF
 DESCRIPTION

