



ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

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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, Sanchoe, Rajasthan-343041 (India)	TEST REPORT NO. : RP-1718-050029 DATE : 08/01/2018 CUSTOMER REF. NO. : RPTPL/ERDA/TT/37/2017-18 DATED : 01/01/2018 <table border="1"> <tr> <th>DATE OF SAMPLE RECEIPT</th> <th>DATE OF TESTING</th> </tr> <tr> <td>02/01/2018</td> <td>08/01/2018</td> </tr> </table>	DATE OF SAMPLE RECEIPT	DATE OF TESTING	02/01/2018	08/01/2018
DATE OF SAMPLE RECEIPT	DATE OF TESTING				
02/01/2018	08/01/2018				
SAMPLE DESCRIPTION : DISTRIBUTION TRANSFORMER ENERGY EFFICIENCY LEVEL : 2 RATING : 16 kVA RATED VOLTS : 11000/433 V RATED CURRENT : 0.84/21.33 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 / 75 kVp L. V. : 3 kVrms /----	SAMPLE IDENTIFICATION : SR. NO. : RPTPL-001 YEAR OF MFG. : 2018 MFG. BY : M/s. Rajasthan Powergen Transformer Pvt. Ltd. ERDA Sample Code No.: ERDA-00234414				
TEST DETAIL : Lightning Impulse Test with Chopped on the Tail on all the three phases of HV Terminals at 75 kVp. ENCLOSURE : DRG. NO.: 1) RPTPL/RP16/01/02/18 2) RPTPL/RP16/02/02/18 3) RPTPL-GA-16-02-18 REV.No. 00 TEST WITNESSED BY: ----	TEST SPECIFICATION : As per IS:1180 (Part-I)-2014, Cl.No. 21.3.a Amendment No.1 & 2 & (Test Procedure was followed As per IS : 2026-(Part-III)-2009, Cl. No. 14) 				
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 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.					

TC 2427505



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Waveform	Comment	Ut / kVp	T1 / μ s	T2 / μ s	Tc / μ s
1U-PHASE					
1	60% LI RW	-47.928	1.303	45.781	
2	100% LI FW	-73.773	1.303	45.862	
3	60% LI CRW	-50.409	1.348		3.476
4	110% LI CFW	-81.527	1.308		2.519
5	110% LI CFW	-82.473	1.309		2.597
6	100% LI FW	-74.054	1.309	45.876	
7	100% LI FW	-74.780	1.302	45.830	
1V-PHASE					
8	60% LI RW	-46.916	1.292	45.928	
9	100% LI FW	-75.436	1.304	46.000	
10	60% LI CRW	-50.772	1.336		2.243
11	110% LI CFW	-82.899	1.313		2.482
12	110% LI CFW	-81.814	1.308		2.518
13	100% LI FW	-74.725	1.297	45.996	
14	100% LI FW	-74.307	1.297	45.967	
1W-PHASE					
15	60% LI RW	-46.373	1.298	45.918	
16	100% LI FW	-74.031	1.295	46.082	
17	60% LI CRW	-49.073	1.337		3.808
18	110% LI CFW	-82.725	1.300		2.335
19	110% LI CFW	-81.642	1.303		2.534
20	100% LI FW	-74.253	1.303	46.097	
21	100% LI FW	-74.992	1.298	46.078	

PREPARED BY
Nemishg



CHECKED BY
P. J. Patel

TC 2419656



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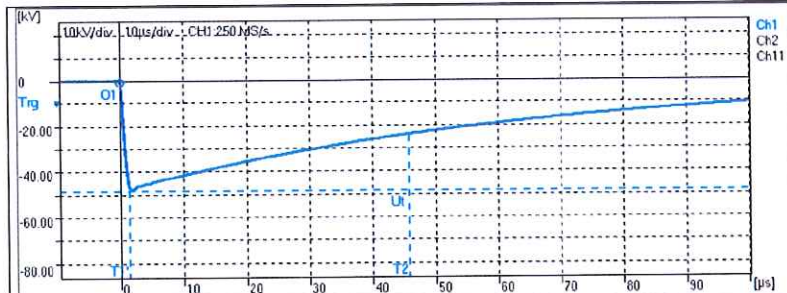
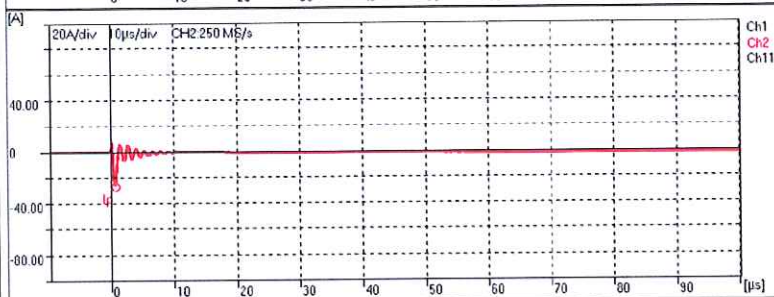


Fig.: 1
 $U_p = -47.93 \text{ kV}$
 $T_1 = 1.30 \mu\text{s}$
 $T_2 = 45.78 \mu\text{s}$
 $T_c = \mu\text{s}$



Comment: 60% LI RW

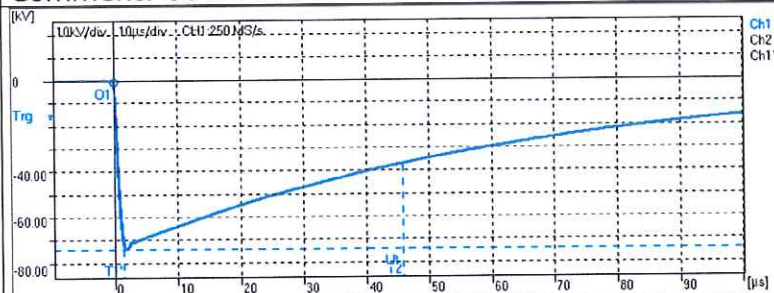
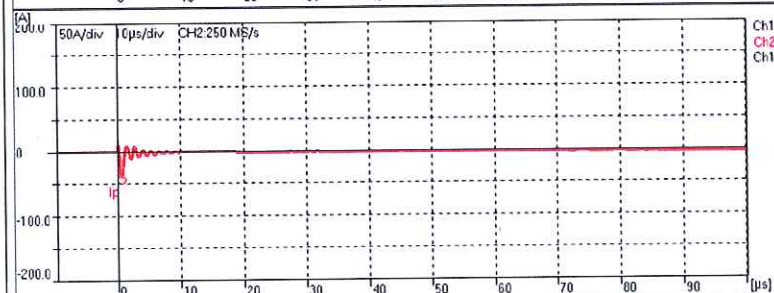


Fig.: 2
 $U_p = -73.77 \text{ kV}$
 $T_1 = 1.30 \mu\text{s}$
 $T_2 = 45.86 \mu\text{s}$
 $T_c = \mu\text{s}$



Comment: 100% LI FW

TC 2419657

Deemishg
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R. Patel
CHECKED BY



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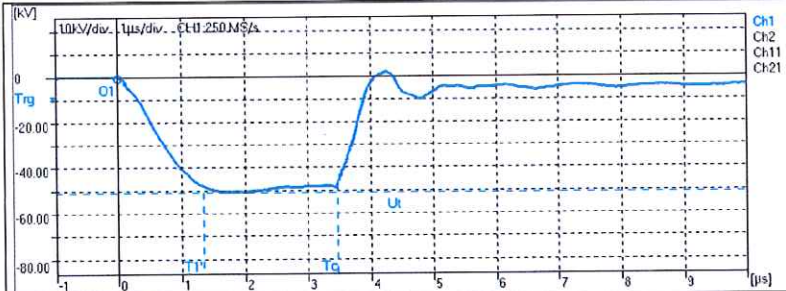


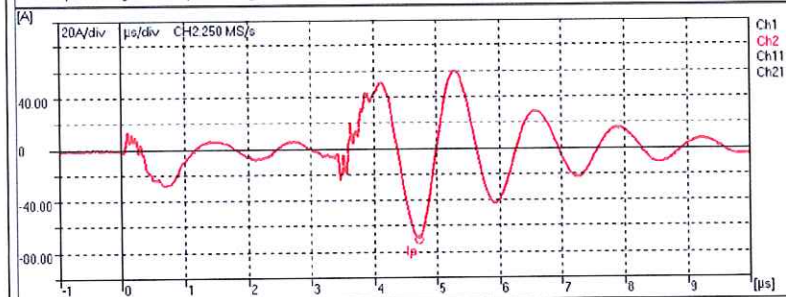
Fig.: 3

$U_p = -50.41 \text{ kV}$

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

$T_2 = \mu\text{s}$

$T_c = 3.48 \mu\text{s}$



Comment: 60% LI CRW

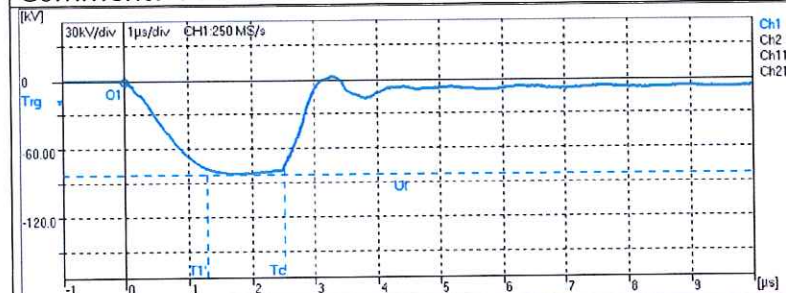


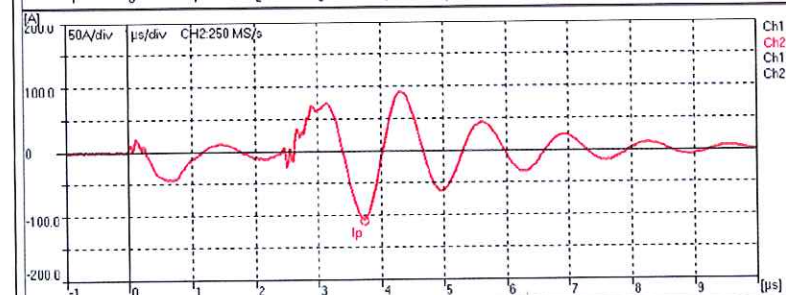
Fig.: 4

$U_p = -81.53 \text{ kV}$

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

$T_2 = \mu\text{s}$

$T_c = 2.52 \mu\text{s}$



Comment: 110% LI CFW

TC 2419658

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Dinmishg



CHECKED BY
Rajul



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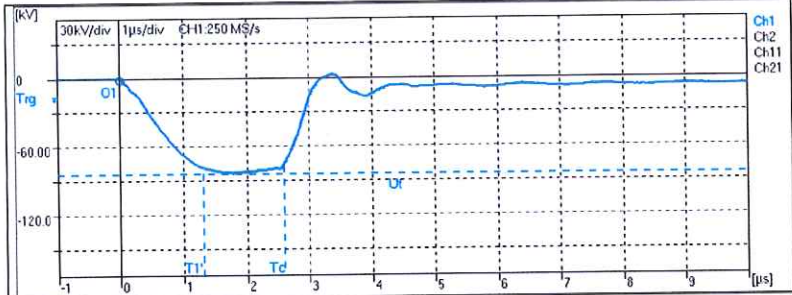


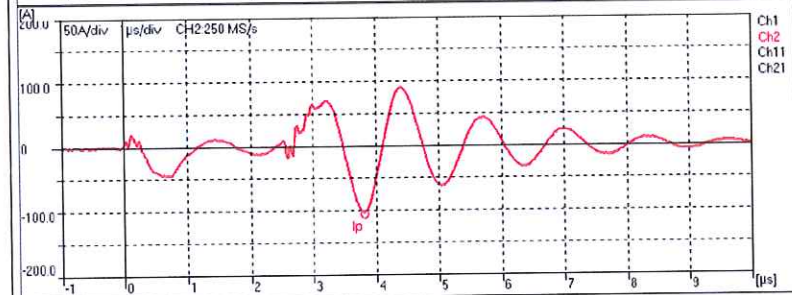
Fig.: 5

$U_p = -82.47 \text{ kV}$

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

$T_2 = \mu\text{s}$

$T_c = 2.60 \mu\text{s}$



Comment: 110% LI CFW

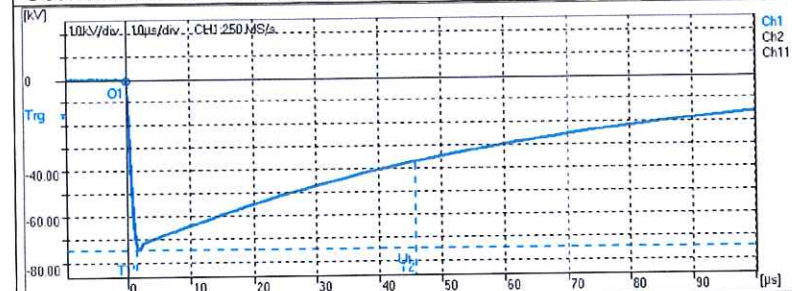


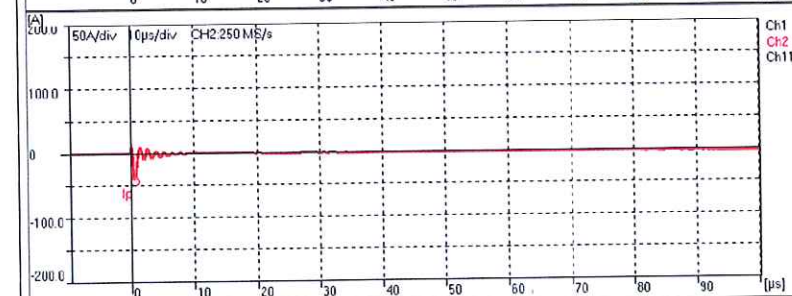
Fig.: 6

$U_p = -74.05 \text{ kV}$

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

$T_2 = 45.88 \mu\text{s}$

$T_c = \mu\text{s}$



Comment: 100% LI FW

TC 2419659

PREPARED BY
Dharmishg.



CHECKED BY
Priya

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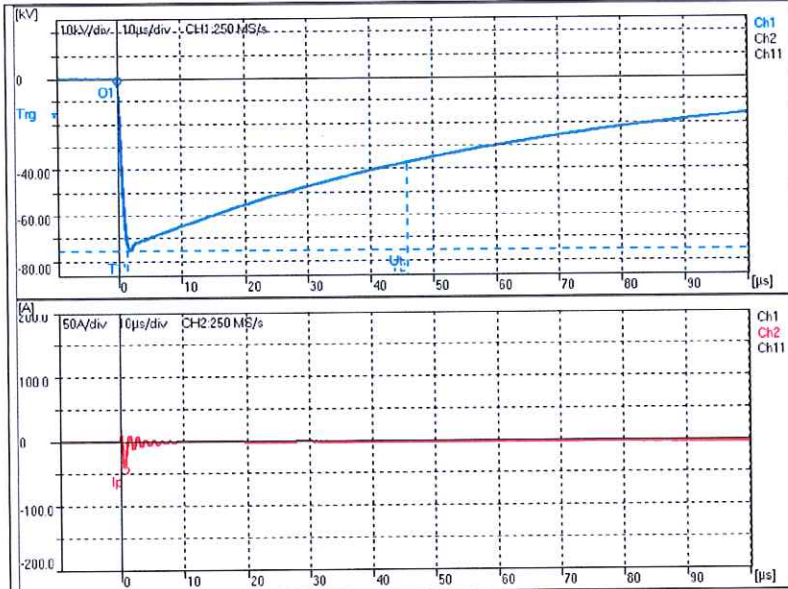


Fig.: 7
 $U_p = -74.78 \text{ kV}$
 $T_1 = 1.30 \mu\text{s}$
 $T_2 = 45.83 \mu\text{s}$
 $T_c = \mu\text{s}$

Comment: 100% LI FW

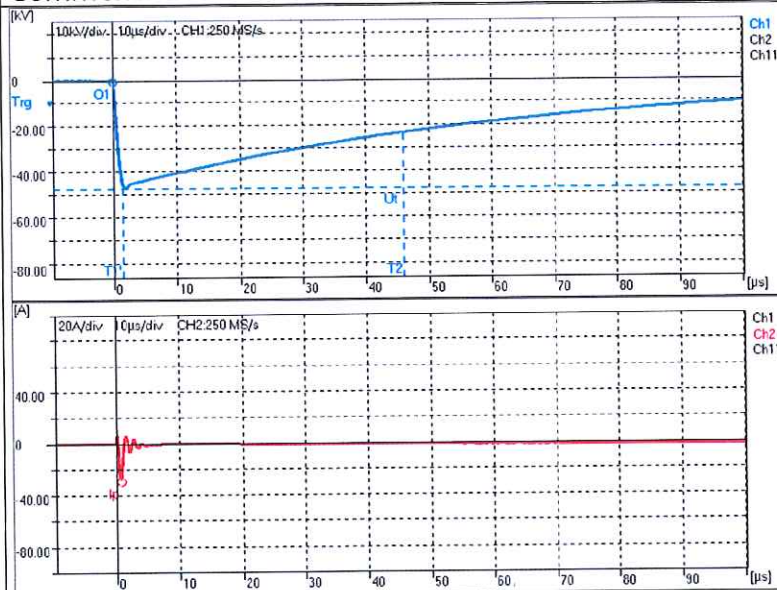


Fig.: 8
 $U_p = -46.92 \text{ kV}$
 $T_1 = 1.29 \mu\text{s}$
 $T_2 = 45.93 \mu\text{s}$
 $T_c = \mu\text{s}$

Comment: 60% LI RW

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PREPARED BY




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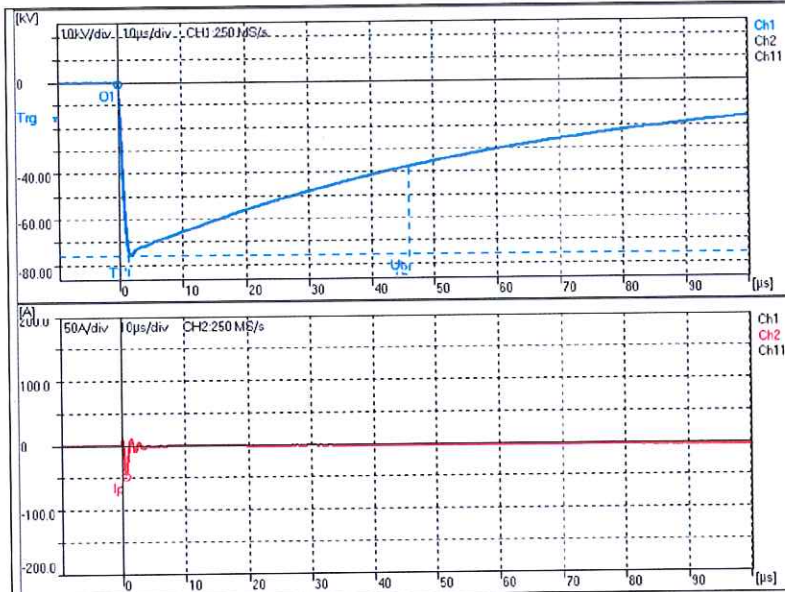


Fig.: 9

$U_p = -75.44 \text{ kV}$

$T_1 = 1.30 \text{ μs}$

$T_2 = 46.00 \text{ μs}$

$T_c = \text{μs}$

Comment: 100% LI FW

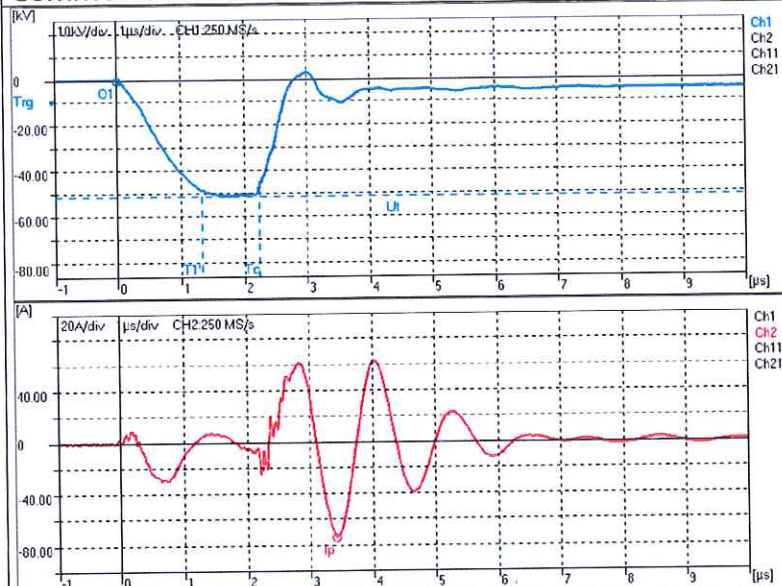


Fig.: 10

$U_p = -50.77 \text{ kV}$

$T_1 = 1.34 \text{ μs}$

$T_2 = \text{μs}$

$T_c = 2.24 \text{ μs}$

Comment: 60% LI CRW

PREPARED BY
Dharmeshg



CHECKED BY
Ramesh

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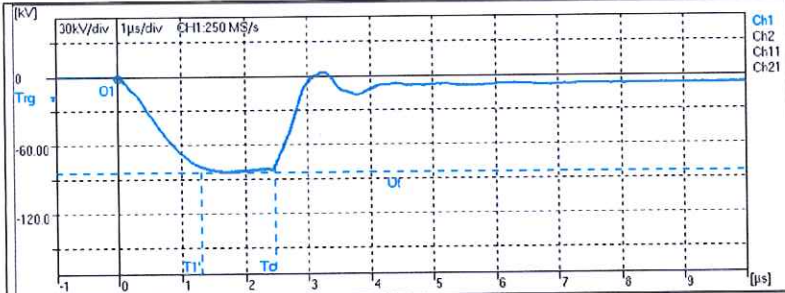


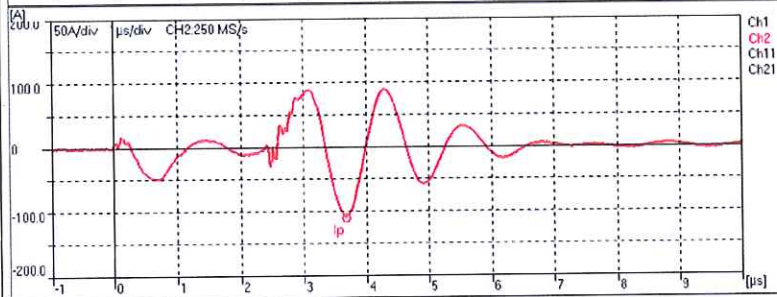
Fig.: 11

$U_p = -82.90 \text{ kV}$

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

$T_2 = \mu\text{s}$

$T_c = 2.48 \mu\text{s}$



Comment: 110% LI CFW

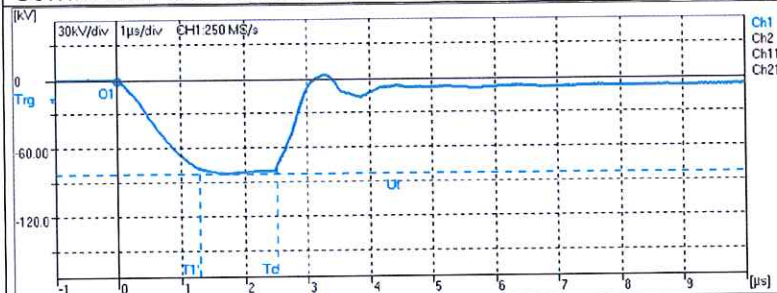


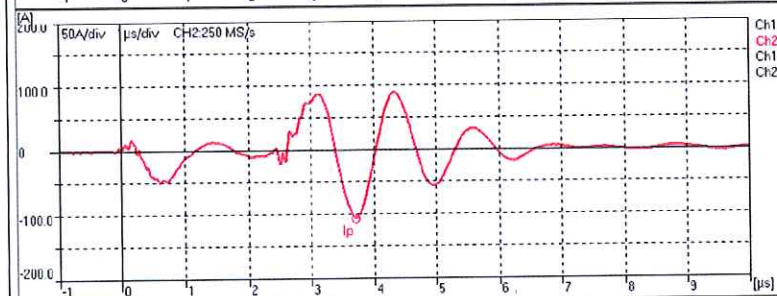
Fig.: 12

$U_p = -81.81 \text{ kV}$

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

$T_2 = \mu\text{s}$

$T_c = 2.52 \mu\text{s}$



Comment: 110% LI CFW

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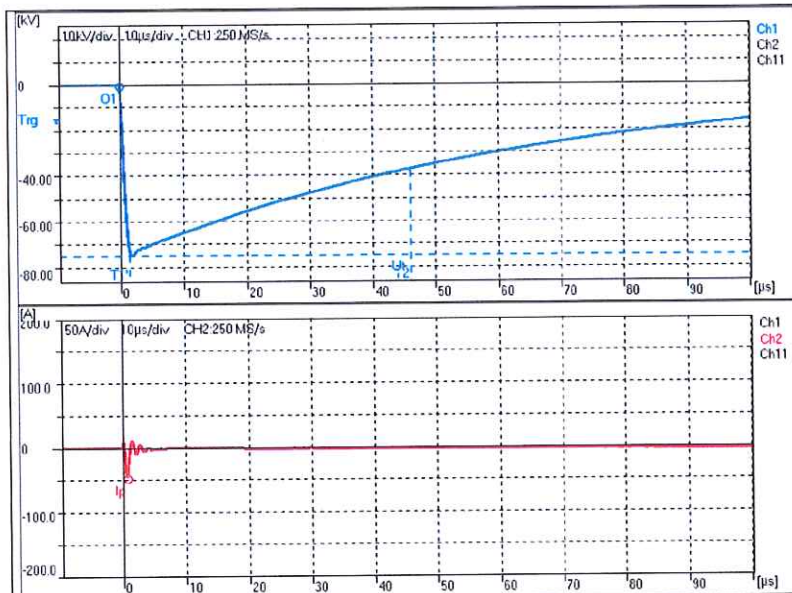


Fig.: 13
 $U_p = -74.73 \text{ kV}$
 $T_1 = 1.30 \mu\text{s}$
 $T_2 = 46.00 \mu\text{s}$
 $T_c = \mu\text{s}$

Comment: 100% LI FW

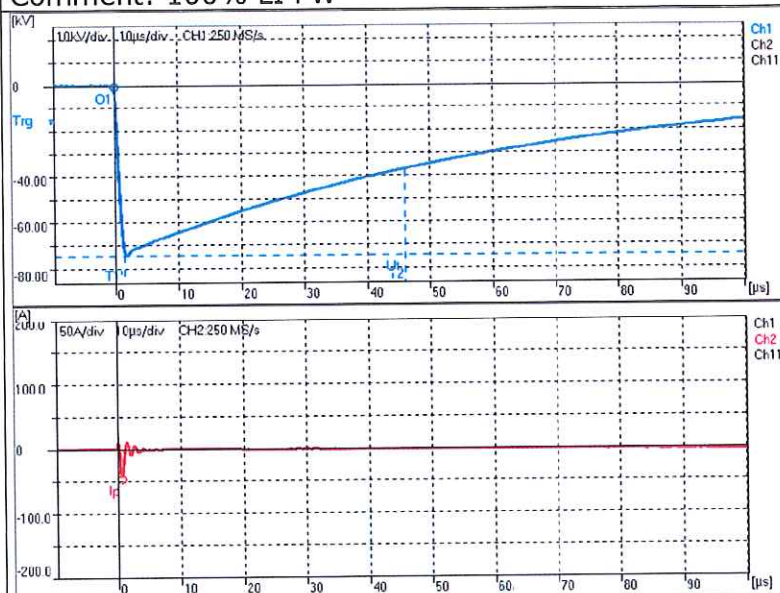


Fig.: 14
 $U_p = -74.31 \text{ kV}$
 $T_1 = 1.30 \mu\text{s}$
 $T_2 = 45.97 \mu\text{s}$
 $T_c = \mu\text{s}$

Comment: 100% LI FW

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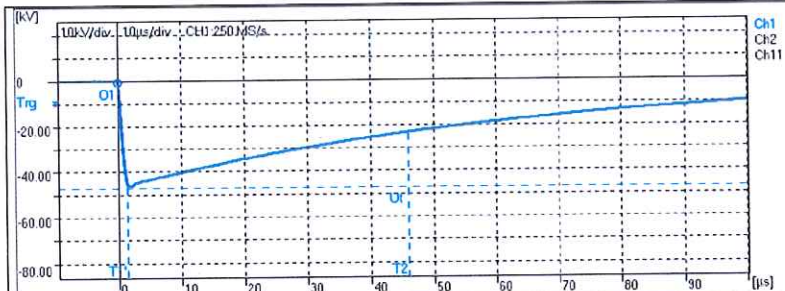


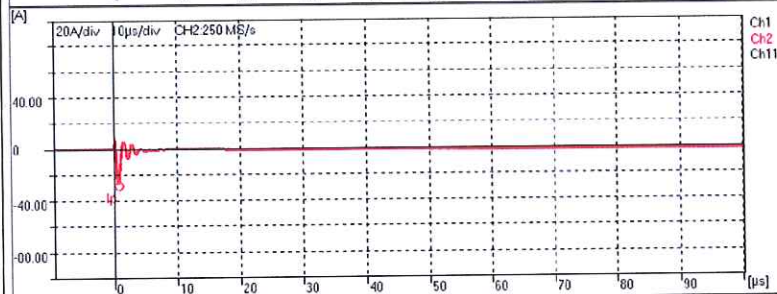
Fig.: 15

$U_p = -46.37 \text{ kV}$

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

$T_2 = 45.92 \mu\text{s}$

$T_c = \mu\text{s}$



Comment: 60% LI RW

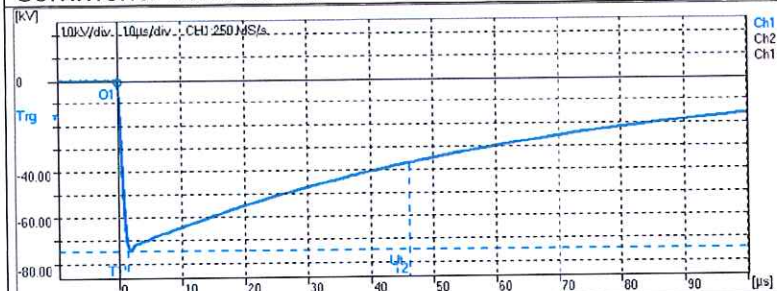


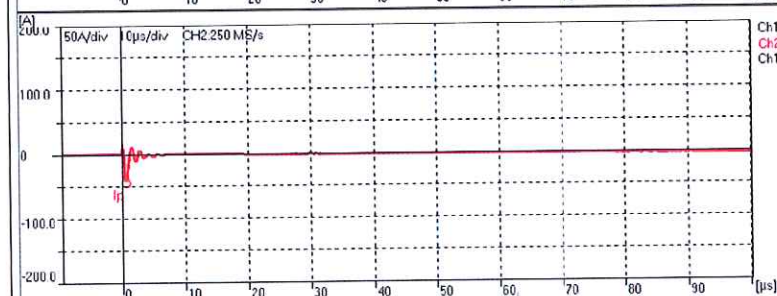
Fig.: 16

$U_p = -74.03 \text{ kV}$

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

$T_2 = 46.08 \mu\text{s}$

$T_c = \mu\text{s}$



Comment: 100% LI FW

TC 2419664

Dinmishg
PREPARED BY



Reverend
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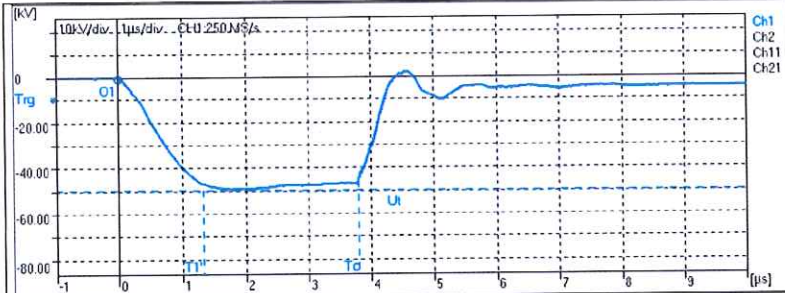


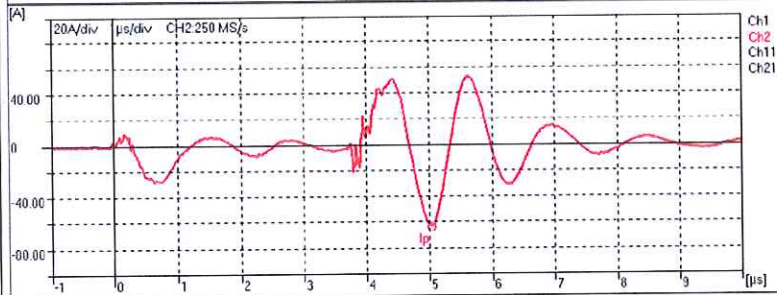
Fig.: 17

$U_p = -49.07 \text{ kV}$

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

$T_2 = \mu\text{s}$

$T_c = 3.81 \mu\text{s}$



Comment: 60% LI CRW

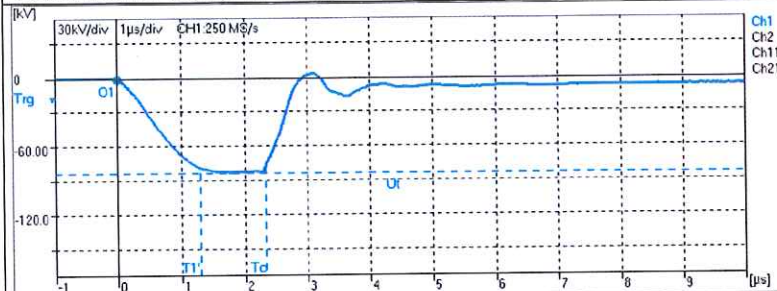


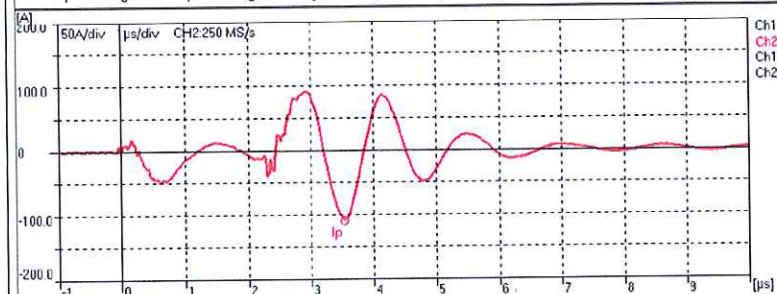
Fig.: 18

$U_p = -82.72 \text{ kV}$

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

$T_2 = \mu\text{s}$

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



Comment: 110% LI CFW

TC 2419665

PREPARED BY
Dinmishy



CHECKED BY
Rajul

TEST REPORT NO. : RP-1718-050029
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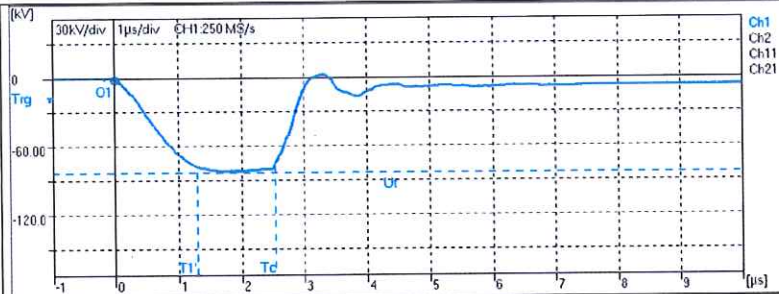
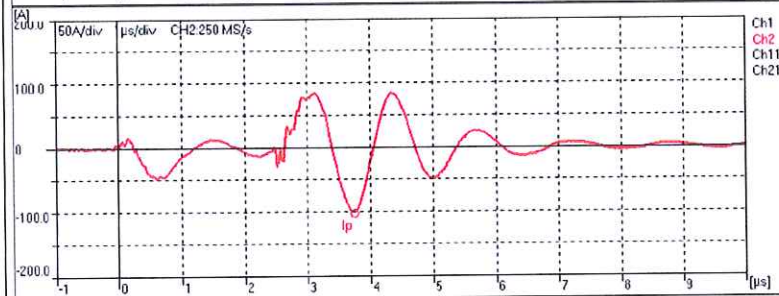


Fig.: 19
 $U_p = -81.64 \text{ kV}$
 $T_1 = 1.30 \mu\text{s}$
 $T_2 = \mu\text{s}$
 $T_c = 2.53 \mu\text{s}$



Comment: 110% LI CFW

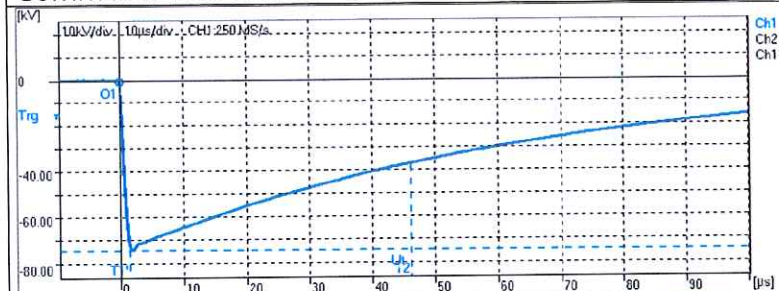
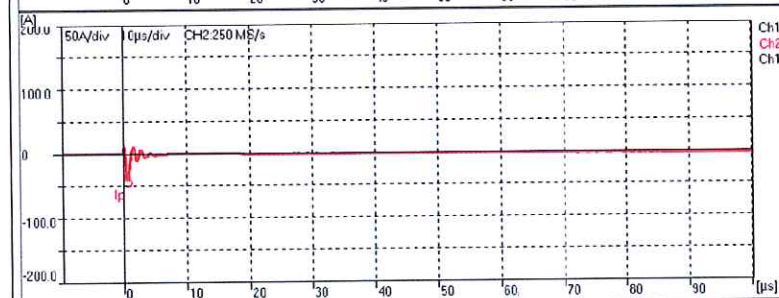


Fig.: 20
 $U_p = -74.25 \text{ kV}$
 $T_1 = 1.30 \mu\text{s}$
 $T_2 = 46.10 \mu\text{s}$
 $T_c = \mu\text{s}$



Comment: 100% LI FW

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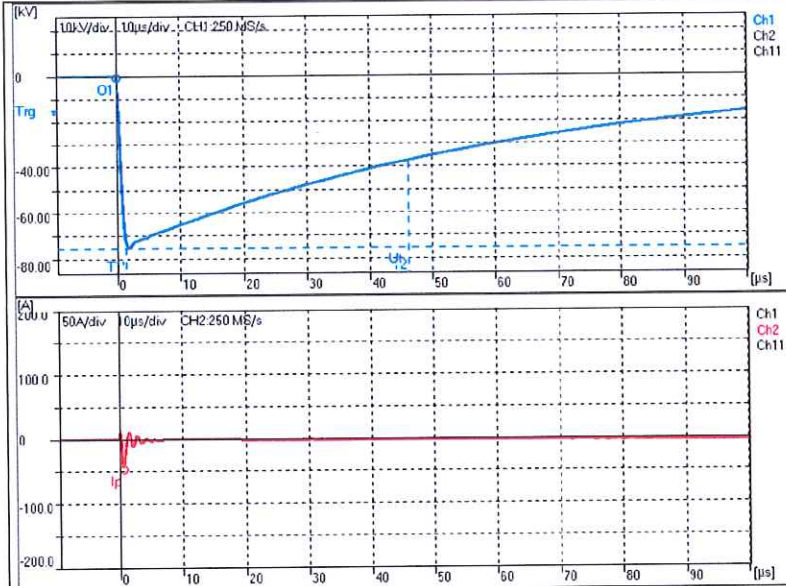


Fig.: 21
 $U_p = -74.99 \text{ kV}$
 $T_1 = 1.30 \mu\text{s}$
 $T_2 = 46.08 \mu\text{s}$
 $T_c = \mu\text{s}$

Comment: 100% LI FW



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Reena
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TEST REPORT NO. : RP-1718-050029
DATE : 08/01/2018

SHEET NO.: 14 of 15

PHOTOGRAPH OF TEST SAMPLE



Amishg.
PREPARED BY

Puneet
CHECKED BY

TC 2419668



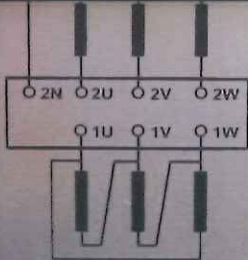
TEST REPORT NO. : RP-1718-050029

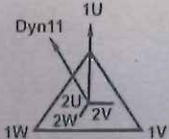
DATE : 08/01/2018

SHEET NO.: 15 of 15

PHOTOGRAPH OF RATING AND TERMINAL MARKING PLATE

DISTRIBUTION TRANSFORMER			
RAJASTHAN POWERGEN TRANSFORMER PVT. LTD.		IS 1180  PART-I CM-1-34603010	
Karota-Bhimmal Road, Karota, Sanchoor-343 041 Dist. Rajasthan INDIA			
[] PHASE TRANSFORMER			
STANDARD	IS 1180 (2014)	ENERGY EFFICIENCY LEVEL	[]
KVA	[]	MAX. TOTAL LOSSES	[]
VOLTS AT NO LOAD	HV [] LV []	AT 50% RATED LOAD W	[]
BIL	HV [] LV []	MAX TOTAL LOSSES	[]
AMPERES	HV [] LV []	AT 100% RATED LOAD W	[]
FREQUENCY	[]	TYPE OF COOLING	[]
VECTOR GROUP REF.	[]	TEMP RISE OIL DEG °C	[]
IMPEDANCE VOLT %	[]	TEMP RISE WDG DEG °C	[]
TAPPING	[]	MASS OF OIL KGS	[]
FOR HV VARIATION	[]	TOTAL MASS KGS	[]
IN [] STEP FROM [] TO [] %		VOL. OF OIL L	[]
CUSTOMER ORDER NO.	[]	MONTH & YEAR OF MFG.	[]
		SERIAL NO.	[]
			<i>RPPL-001</i>
MADE IN INDIA			







PREPARED BY Deemishy

CHECKED BY

TC 2419669

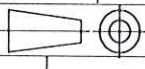
DISTRIBUTION TRANSFORMER			
RAJASTHAN POWERGEN TRANSFORMER PVT.LTD			
BHINMAL-KAROLA ROAD KAROLA SANCHORE		IS: 1180	
RAJASTHAN. (INDIA)			
3 PHASE TRANSFORMER		PART-I CM/L-8400030105	
STANDARD	IS:1180 (2014)	ENERGY EFFICIENCY LEVEL	2
KVA	16	MAX. TOTAL LOSSES	
VOLTS AT NO LOAD	HV 11000 LV 433	AT 50% RATED LOAD W	135
BIL	HV 75 KVP / 75 KV rms LV - / 3 KV rms	MAX. TOTAL LOSSES	
AMPERES	HV 0.84 LV 21.33	AT 100% RATED LOAD W	440
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	70
		TOTAL MASS KGS	303
		VOL. OF OIL L	82
		MONTH & YEAR OF MFG.	2018
		SERIAL NO.	RPTPL-001
FOR HV VARIATION			
IN STEP FROM TO %			
CUSTOMER			
ORDER NO.			
MADE IN INDIA			

SIZE: 105x105 mm HOLE CENTER: 95x95 mm

NOTE:

* SERIAL NO, ACTUAL IMPEDANCE(%) VOLTAGE, YEAR OF MANUFACTURE & MONTH OF MANUFACTURE WILL BE PUNCHED AT THE TIME OF DESPATCH
MATERIAL : ANODISED ALUMINIUM SHEET
THICKNESS : 0.9 mm

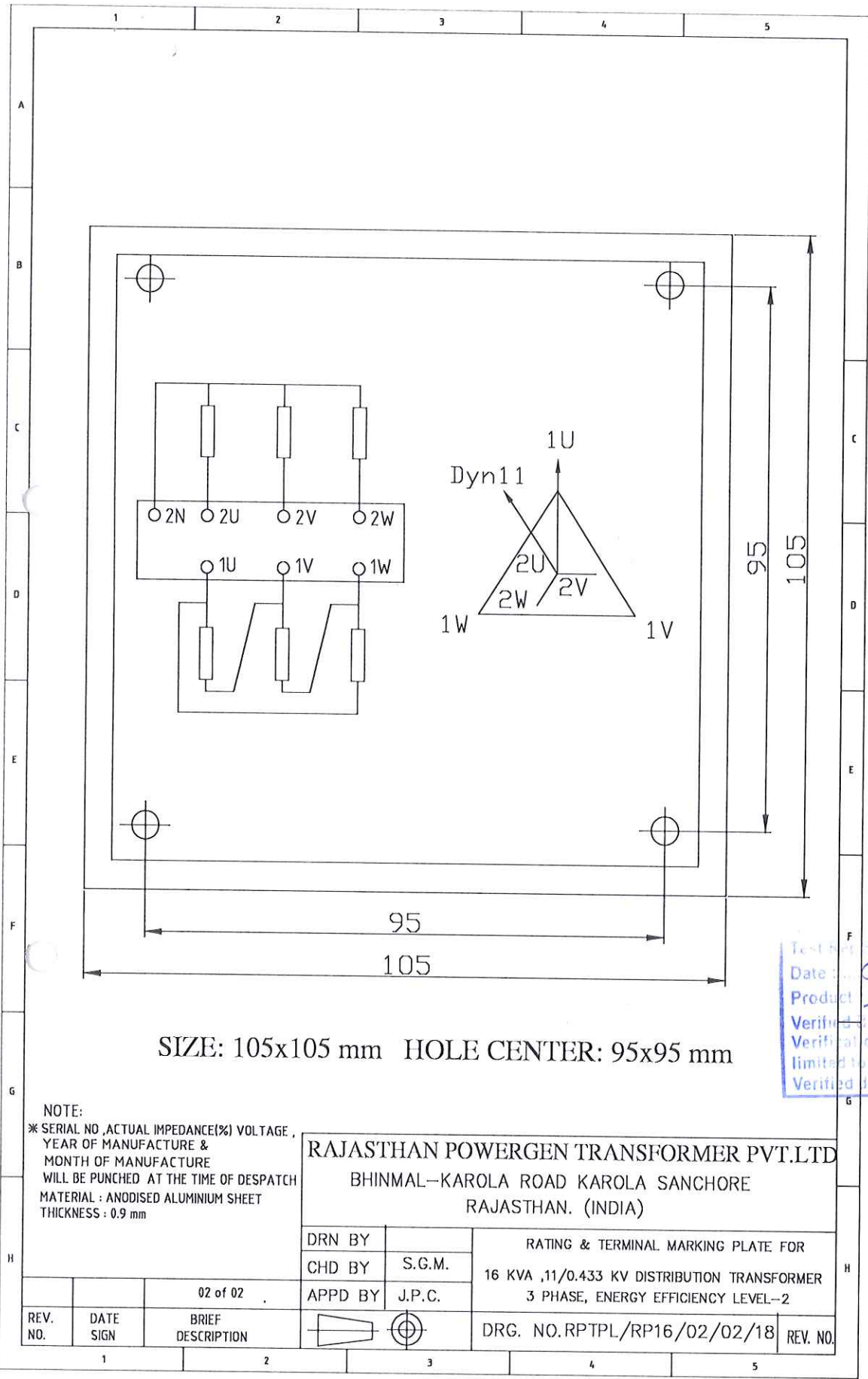
RAJASTHAN POWERGEN TRANSFORMER PVT.LTD
BHINMAL-KAROLA ROAD KAROLA SANCHORE
RAJASTHAN. (INDIA)

DRN BY		RATING & TERMINAL MARKING PLATE FOR 16 KVA ,11/0.433 KV DISTRIBUTION TRANSFORMER 3 PHASE, ENERGY EFFICIENCY LEVEL-2
CHD BY	S.G.M.	
APPD BY	J.P.C.	
		DRG. NO. RPTPL/RP16/01/02/18

REV. NO.	DATE SIGN	BRIEF DESCRIPTION
1		01 of 02

Test report No RP-1718-050029
Date : 08/01/2018
Product : 16 KVA x 1mch
Verified By @mishug
Verification of this drawing by ERDA is limited to relevant dimensional checks only.
Verified dimensions are marked with. *





Test Report No. RP-1118-05.0029....
Date : 03/01/2018
Product : 16 KVA X'mer.
Verified by : Deemeshey
Verification of this drawing by ERDA is limited to relevant dimensional checks only.
Verified dimensions are marked with. *



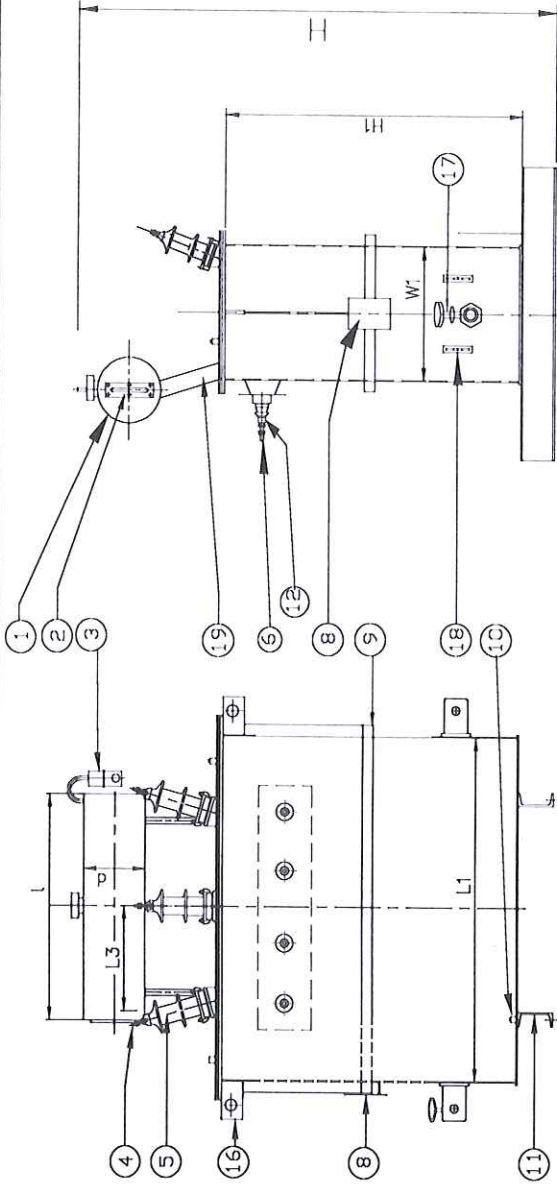
SR.NO.	ACCESSORIES	QTY.	TECHNICAL DETAILS
1	CONSERVATOR (ø30) WITH GL. FILLING HOLE (32mm) WITH CAP & DRAIN PLUG (12 mm)	1	M.S.
2	GL LEVEL GAUGE WITH 3 POSITION (-5° -37° & 98°)	1	AL
3	SILICAGE BREATHER (500 Grains)	1	AL DYE CASTAL DYE CAST
4	H.V. TERMINAL 12mm DIA WITH NUT	3	BRASS
5	H.V. BUSHING	3	PORCELAIN
6	L.V. TERMINAL 12 mm DIA	4	BRASS TINED BRASS TINED
7	COOLING RADIATOR 1/2" THICK	0	NA
8	RATING & TERMINAL MARKING PLATE	1	ANODISED
9	REIN-FORCING ANGLE SIZE 40x40x6 mm	4	M.S.
10	EARTHING TERMINAL WITH LUGS SIZE (16 Amp)	2	M.S.
11	BASE CHANNELS 75x40x460mm LONG	2	M.S.
12	L.T. BUSHING 1/2"KV/250A	2	PORCELAIN
13	THERMOMETER POCKET	1	M.S.
14	AIR RELEASE PLUG	1	M.S.
15	LIFTING LUGS FOR COVER (8 mm)	2	N.A.
16	LIFTING LUGS FOR TANK WITH FLAT (8 mm)	2	M.S.
17	DRAIN VALVE	1	M.S.
18	PULLING LUG (8 mm)	4	M.S.
19	CONSERVATOR PIPE (ø10mm W.N)	2	M.S.

COOLING DETAILS	
1	TOTAL SURFACE AREA : 11239 mm ²
2	TOTAL NUMBER OF COOLING TUBES
3	L X B X H OF TUBE

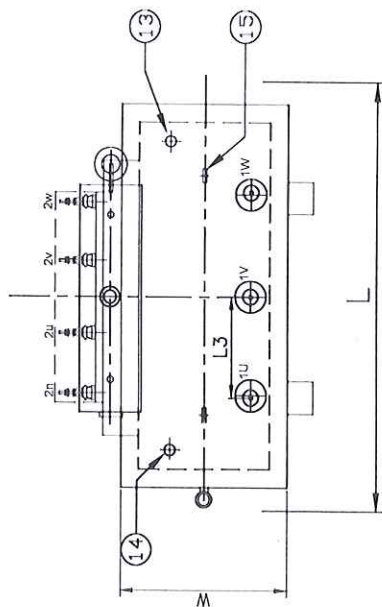
WEIGHTS IN KGS.	
CORE	70
WINDINGS	35
TANK&FITTINGS with oil access	128
OIL	70
TOTAL WEIGHT	303
THICKNESS IN mm	3.15
TANK SIDE PLATES (MIN.)	3.15
TOP & BOTTOM PLATES (MIN.)	5
TOLERANCE	±0.05
MAN TANK DIMENSIONS	13 (H.V.) 255 PHASE TO PHASE
OVERALL DIMENSIONS	±0.5 14 (H.V.) 75 PHASE TO EARTH
DIMENSIONS OF CONSERVATOR	15 (H.V.) 140 PHASE TO EARTH
INSIDE DIAMETER IN mm	130
LENGTH IN mm	600
CAPACITY IN LTRS.	7

BUSHING CLEARANCES WITH ANGLE	
13 (H.V.)	255
14 (H.V.)	75
15 (H.V.)	140
16 (H.V.)	40
BUSHING HEIGHT IN mm	130
CAPACITY IN LTRS.	7

ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE STATED.



ELEVATION



PLAN

Test Report No. RP-1418-050029.
 Date: 08/01/2018
 Product: 16 KVA, 11mch.
 Verified by: [Signature]
 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 PAINT: AS PER IS
 3 ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 # NOT PROVIDED DURING TESTING

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

DRN BY	S.G.M.	GENERAL ARRANGEMENT OF TRANSFORMER OF
CHD BY	J.P.C.	16 KVA 11/ 0.433 KV DISTRIBUTION TRANSFORMER
APPD BY	J.P.C.	Energy Efficiency Level - 2
DATE	01.01.2018	
SCALE		
REV. DATE & NO.		DRG. NO.
		RPTPL-GA-16-02-18
		REV. NO.
		00

SIGNATURE OF AUTHORISED PERSON & STAMP OF THE FIRM