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**TEST REPORT**

TC538918000004511F

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-1819-031601	
	DATE : 15/11/2018	
	CUSTOMER REF. NO. : NIL	
	DATED : 13/11/2018	
	DATE OF SAMPLE RECEIPT	DATE OF TESTING
	13/11/2018	15/11/2018
SAMPLE DESCRIPTION : DISTRIBUTION TRANSFORMER NON-SEALED TYPE 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 CUSTOMER : M/s. MPPKVCL B.I.L. : H. V. : 75 kVp	SAMPLE IDENTIFICATION : SR. NO. : RPTPL/MP/100/01 YEAR OF MFG. : 2018 MFG. BY : M/s. Rajasthan Powergen Transformer Pvt. Ltd. ERDA Sample Code No.: ERDA-00286114	
TEST DETAIL : Lightning Impulse Test with Chopped on the Tail on all the three phases of HV Terminals at 75 kVp.	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)	
ENCLOSURE : DRG. NO.: 1) RPTPL/RP/06 REV. No. 00 2) RPTPL/OGA/06 REV. No. 00		
TEST WITNESSED BY: Mr. Khatri Irfan - 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.		
 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, 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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Waveform	Comment	Ut / kVp	T1 / μ s	T2 / μ s	Tc / μ s
1U PHASE					
1	LI RW	-51.992	1.410	54.433	
2	100% LI FW	-74.462	1.419	53.838	
3	LI CRW	-53.135	1.440		2.491
4	110% LI CFW	-83.418	1.435		2.771
5	110% LI CFW	-81.967	1.433		3.220
6	100% LI FW	-74.292	1.398	53.744	
7	100% LI FW	-75.482	1.419	53.866	
1V PHASE					
8	LI RW	-49.014	1.345	54.807	
9	100% LI FW	-74.208	1.351	54.211	
10	LI CRW	-52.282	1.379		2.924
11	110% LI CFW	-81.771	1.371		3.363
12	110% LI CFW	-81.563	1.422		3.016
13	100% LI FW	-74.605	1.350	54.200	
14	100% LI FW	-75.364	1.350	54.333	
1W PHASE					
15	LI RW	-48.481	1.316	55.293	
16	100% LI FW	-74.411	1.303	54.882	
17	LI CRW	-53.332	1.372		2.256
18	110% LI CFW	-81.802	1.264		3.200
19	110% LI CFW	-83.926	1.371		2.188
20	100% LI FW	-75.787	1.327	54.842	
21	100% LI FW	-74.708	1.322	54.928	

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TEST REPORT NO. : RP-1819-031601

SHEET NO.: 3 of 15

DATE : 15/11/2018

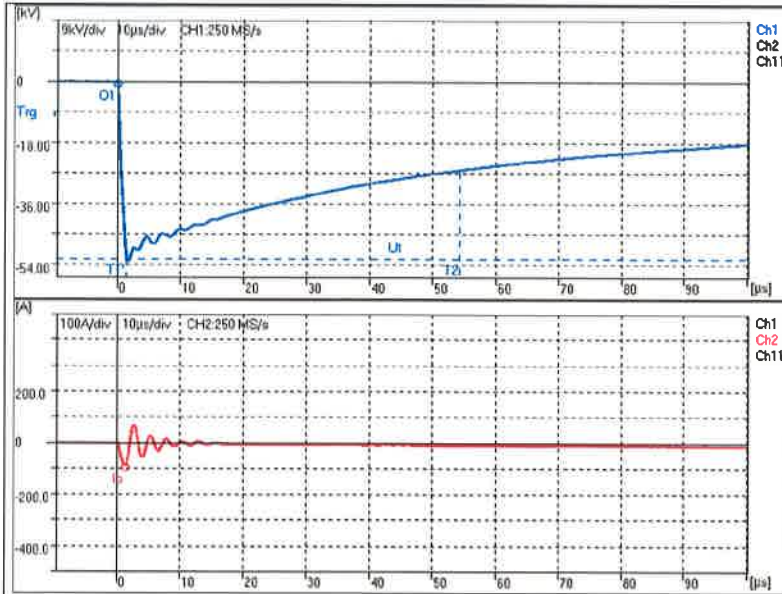


Fig.: 1

$U_p = -51.99 \text{ kV}$

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

$T_2 = 54.43 \mu\text{s}$

$T_c = \mu\text{s}$

Comment: LI RW

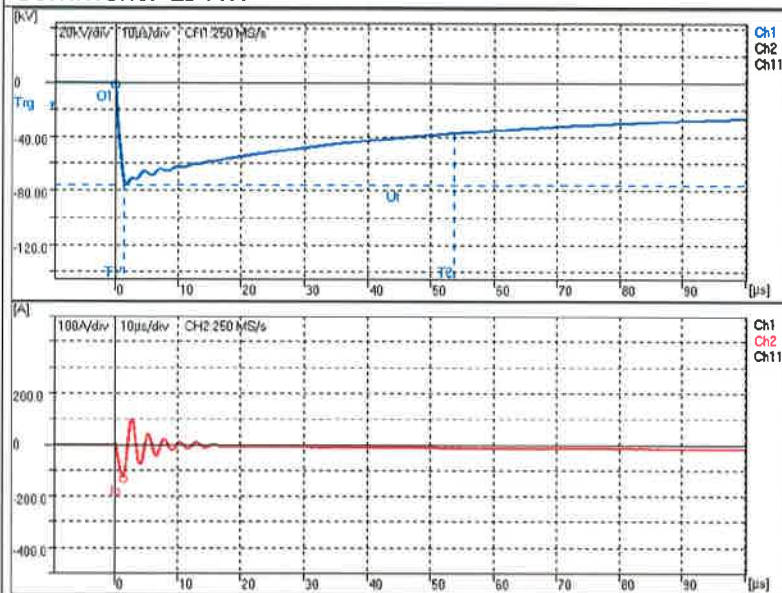


Fig.: 2

$U_p = -74.46 \text{ kV}$

$T_1 = 1.42 \mu\text{s}$

$T_2 = 53.84 \mu\text{s}$

$T_c = \mu\text{s}$

Comment: 100% LI FW

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SHEET NO.: 4 of 15

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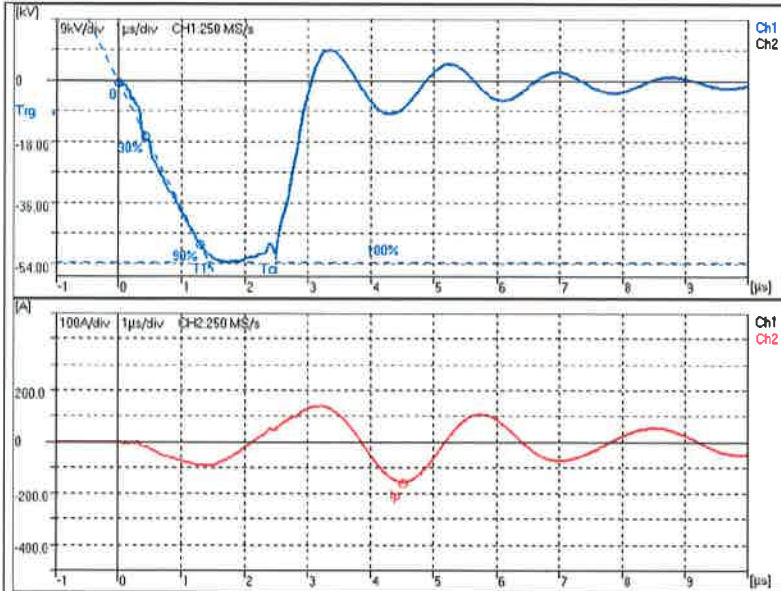


Fig.: 3

$U_p = -53.13 \text{ kV}$

$T_1 = 1.44 \text{ } \mu\text{s}$

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

$T_c = 2.49 \text{ } \mu\text{s}$

Comment: LI CRW

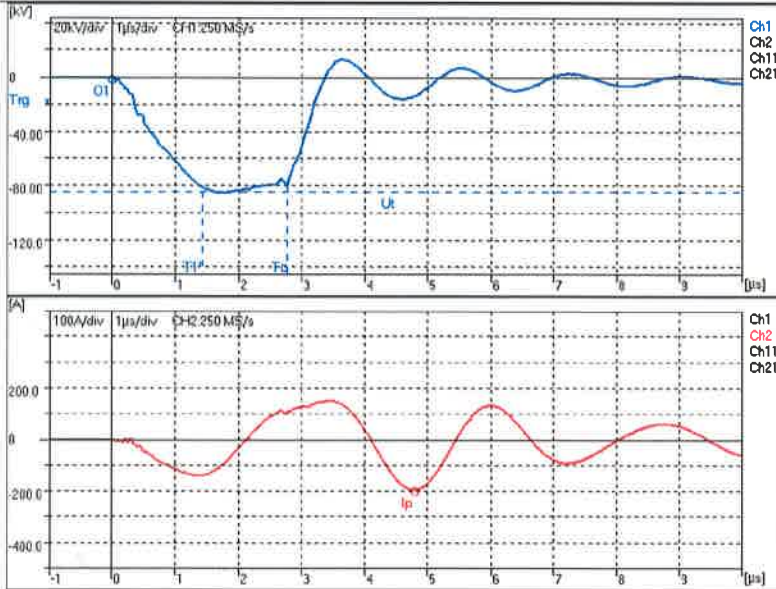


Fig.: 4

$U_p = -83.42 \text{ kV}$

$T_1 = 1.43 \text{ } \mu\text{s}$

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

$T_c = 2.77 \text{ } \mu\text{s}$

Comment: 110% LI CFW

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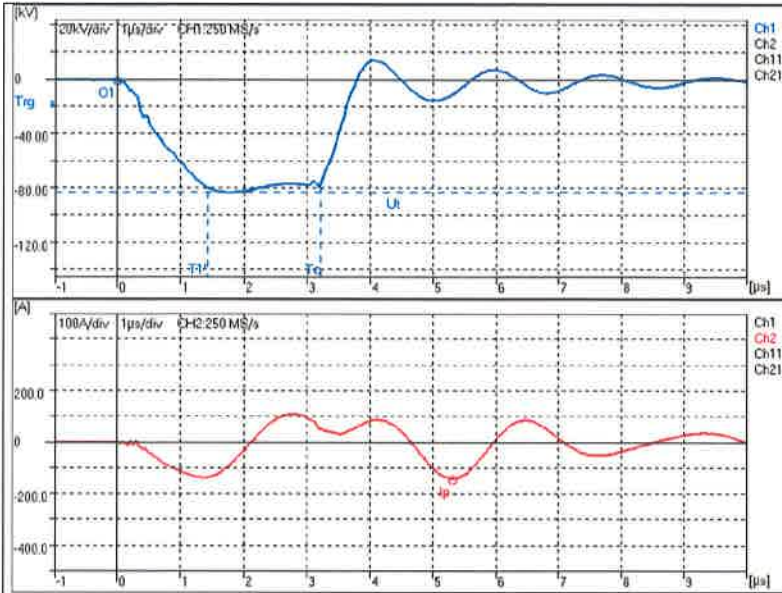


Fig. : 5
 $U_p = -81.97 \text{ kV}$
 $T_1 = 1.43 \mu\text{s}$
 $T_2 = \mu\text{s}$
 $T_c = 3.22 \mu\text{s}$

Comment: 110% LI CFW

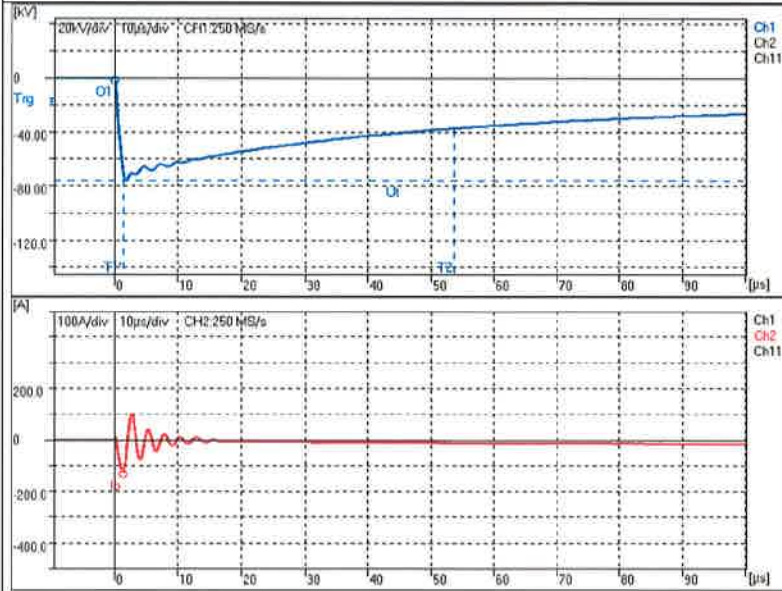


Fig. : 6
 $U_p = -74.29 \text{ kV}$
 $T_1 = 1.40 \mu\text{s}$
 $T_2 = 53.74 \mu\text{s}$
 $T_c = \mu\text{s}$

Comment: 100% LI FW

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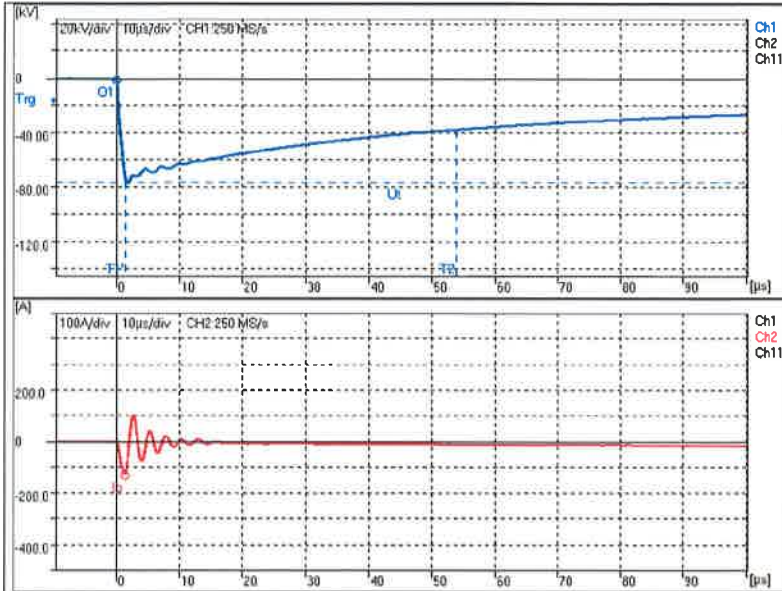


Fig.: 7

$U_p = -75.48 \text{ kV}$

$T_1 = 1.42 \text{ µs}$

$T_2 = 53.87 \text{ µs}$

$T_c = \text{µs}$

Comment: 100% LI FW

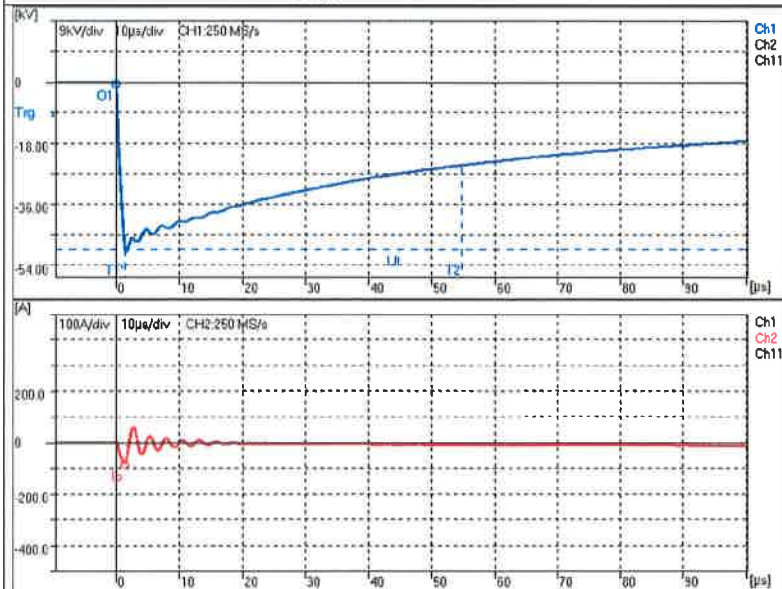


Fig.: 8

$U_p = -49.01 \text{ kV}$

$T_1 = 1.35 \text{ µs}$

$T_2 = 54.81 \text{ µs}$

$T_c = \text{µs}$

Comment: LI RW

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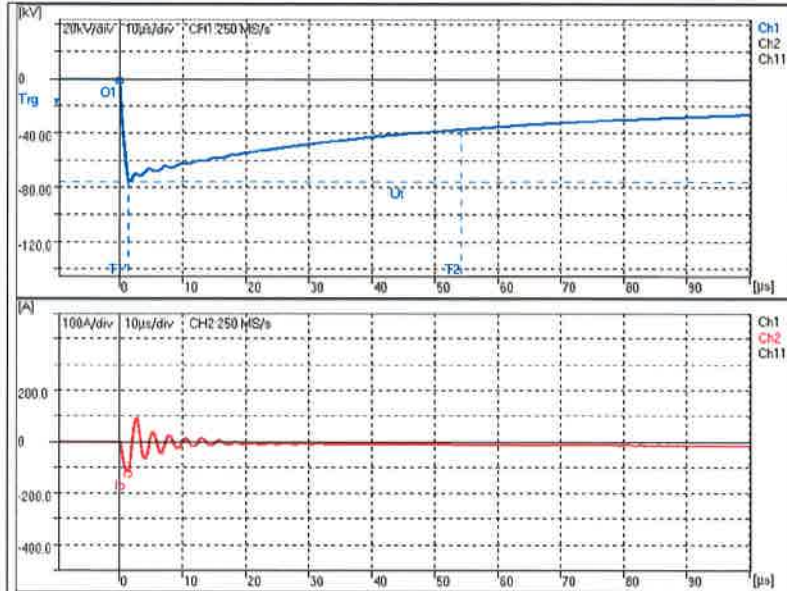


Fig.: 9

$U_p = -74.21 \text{ kV}$

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

$T_2 = 54.21 \mu\text{s}$

$T_c = \mu\text{s}$

Comment: 100% LI FW

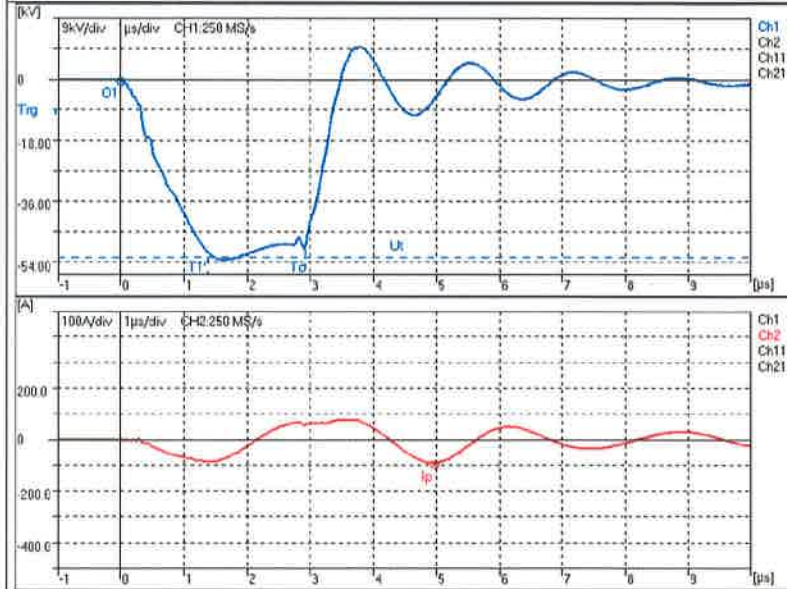


Fig.: 10

$U_p = -52.28 \text{ kV}$

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

$T_2 = \mu\text{s}$

$T_c = 2.92 \mu\text{s}$

Comment: LI CRW

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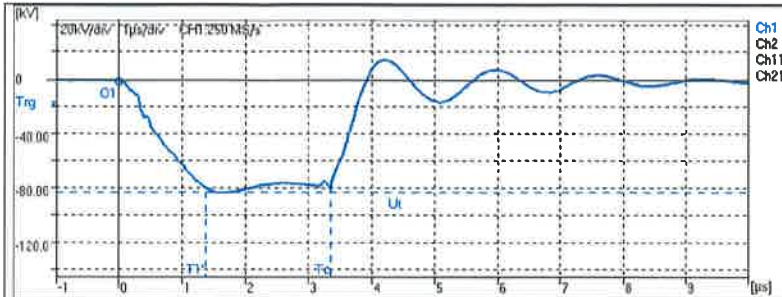
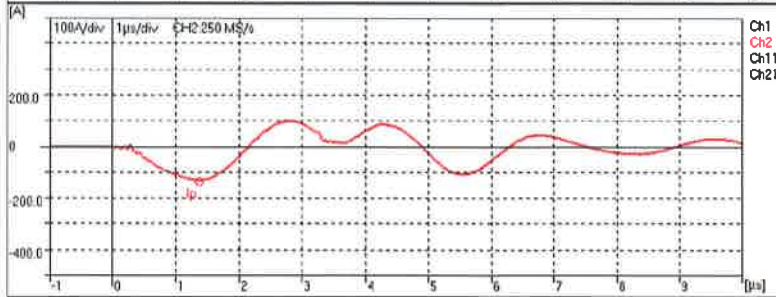


Fig.: 11
 $U_p = -81.77 \text{ kV}$
 $T_1 = 1.37 \text{ } \mu\text{s}$
 $T_2 = \text{ } \mu\text{s}$
 $T_c = 3.36 \text{ } \mu\text{s}$



Comment: 110% LI CFW

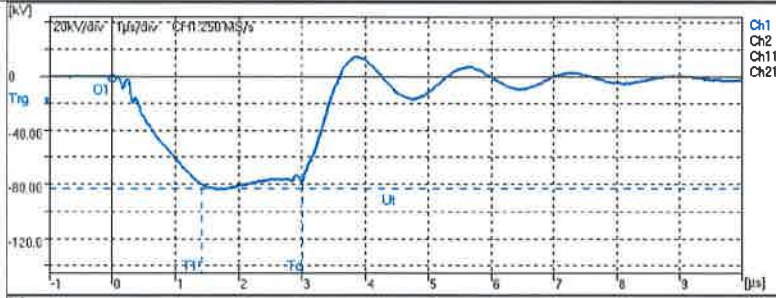
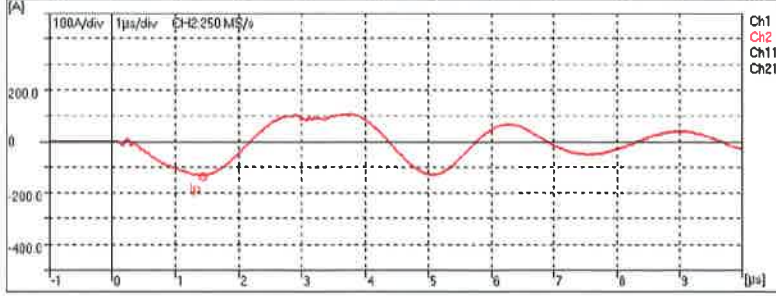


Fig.: 12
 $U_p = -81.56 \text{ kV}$
 $T_1 = 1.42 \text{ } \mu\text{s}$
 $T_2 = \text{ } \mu\text{s}$
 $T_c = 3.02 \text{ } \mu\text{s}$



Comment: 110% LI CFW

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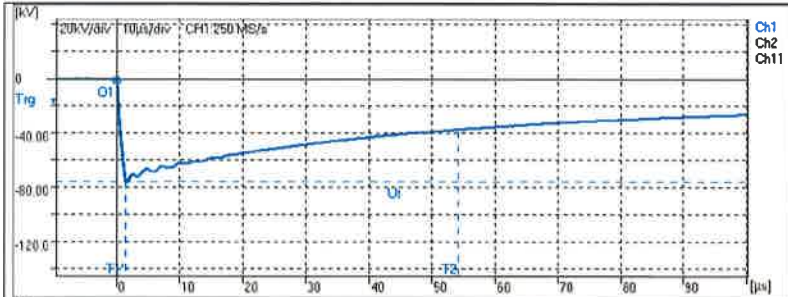


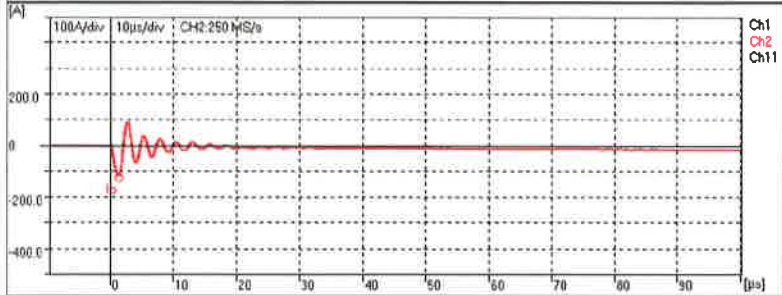
Fig.: 13

$U_p = -74.61 \text{ kV}$

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

$T_2 = 54.20 \mu\text{s}$

$T_c = \mu\text{s}$



Comment: 100% LI FW

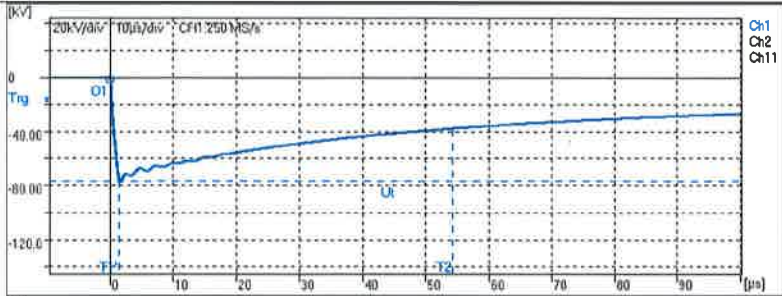


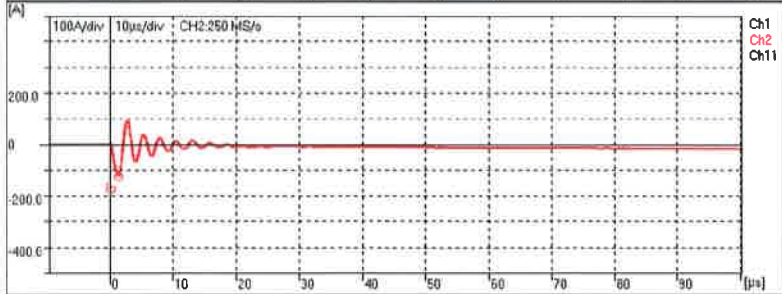
Fig.: 14

$U_p = -75.36 \text{ kV}$

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

$T_2 = 54.33 \mu\text{s}$

$T_c = \mu\text{s}$



Comment: 100% LI FW

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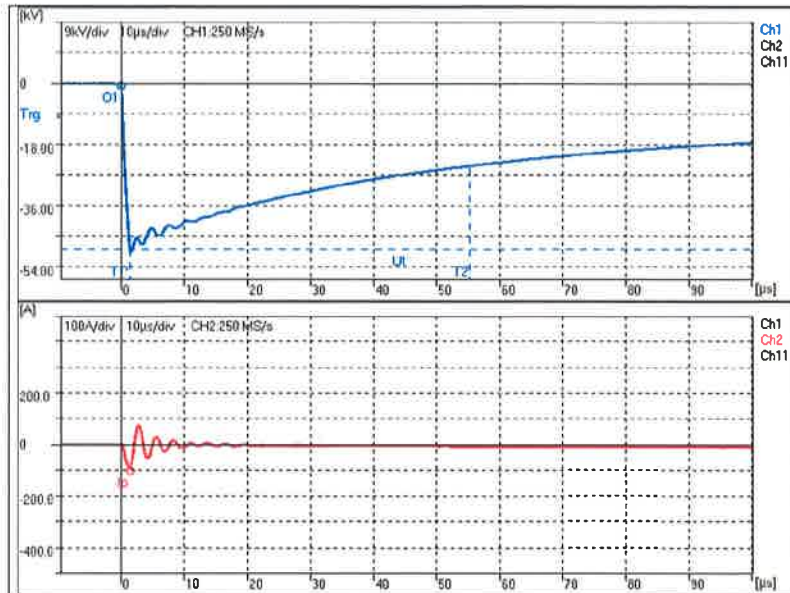


Fig.: 15
 $U_p = -48.48 \text{ kV}$
 $T_1 = 1.32 \text{ } \mu\text{s}$
 $T_2 = 55.29 \text{ } \mu\text{s}$
 $T_c = \text{ } \mu\text{s}$

Comment: LI RW

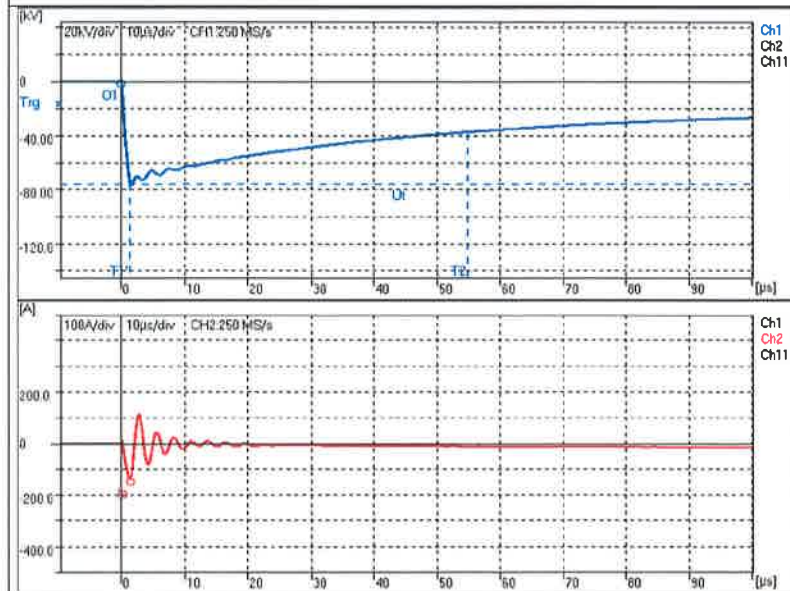


Fig.: 16
 $U_p = -74.41 \text{ kV}$
 $T_1 = 1.30 \text{ } \mu\text{s}$
 $T_2 = 54.88 \text{ } \mu\text{s}$
 $T_c = \text{ } \mu\text{s}$

Comment: 100% LI FW

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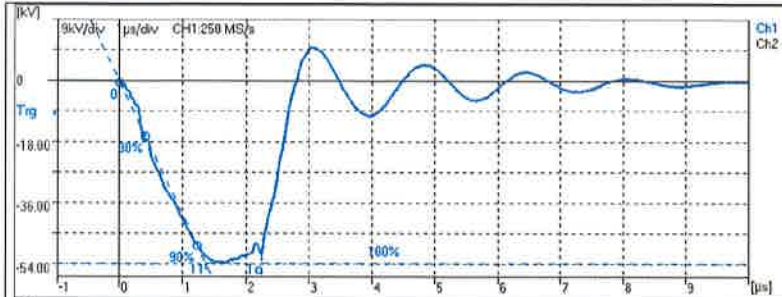


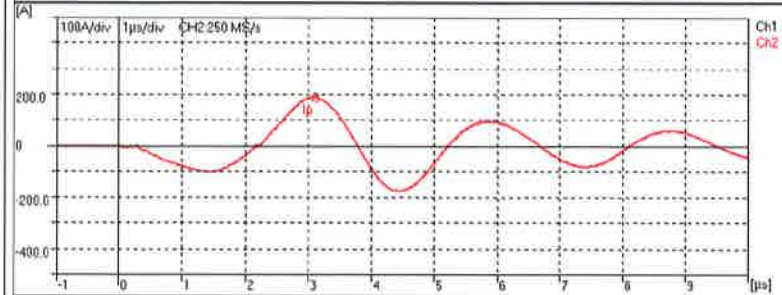
Fig.: 17

$U_p = -53.33 \text{ kV}$

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

$T_2 = \mu\text{s}$

$T_c = 2.26 \mu\text{s}$



Comment: LI CRW

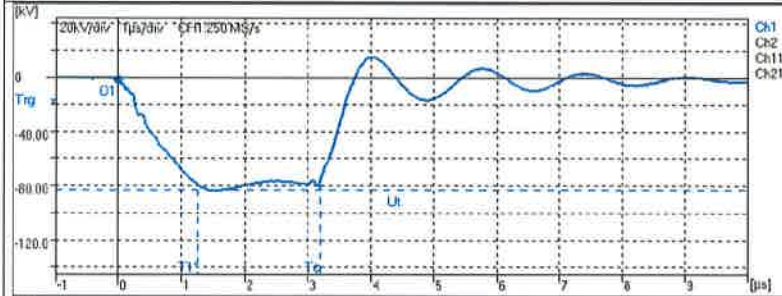


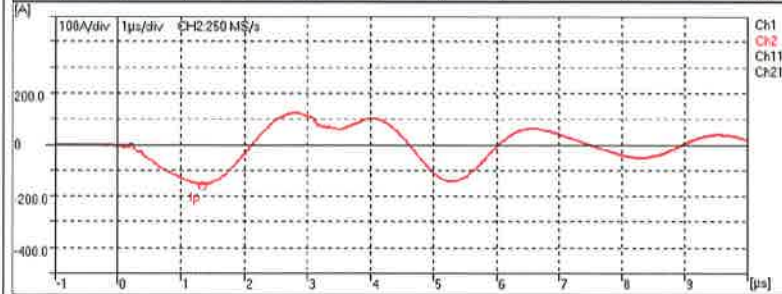
Fig.: 18

$U_p = -81.80 \text{ kV}$

$T_1 = 1.26 \mu\text{s}$

$T_2 = \mu\text{s}$

$T_c = 3.20 \mu\text{s}$



Comment: 110% LI CFW

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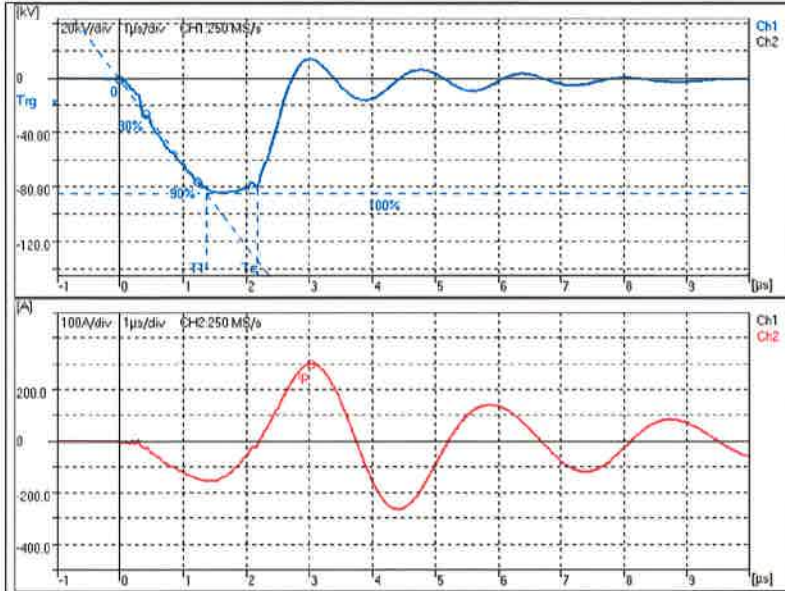


Fig. : 19
 $U_p = -83.93 \text{ kV}$
 $T_1 = 1.37 \text{ } \mu\text{s}$
 $T_2 = \text{ } \mu\text{s}$
 $T_c = 2.19 \text{ } \mu\text{s}$

Comment: 110% LI CFW

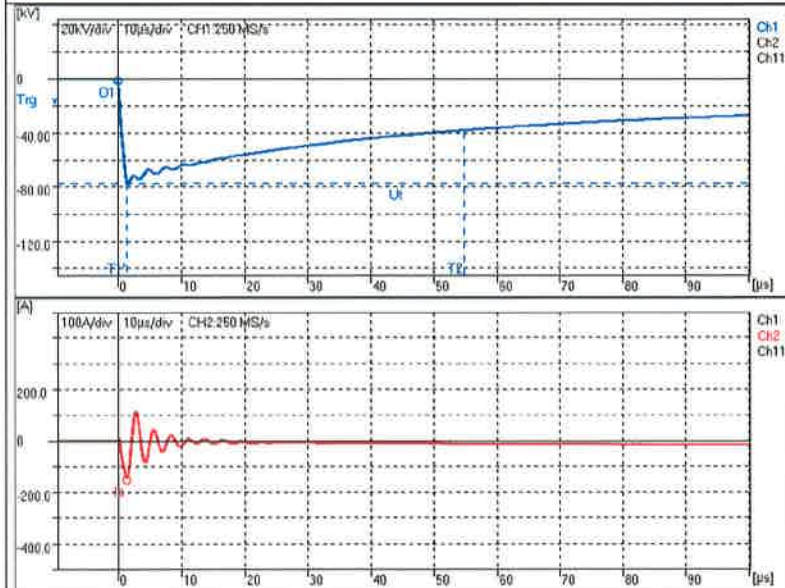


Fig. : 20
 $U_p = -75.79 \text{ kV}$
 $T_1 = 1.33 \text{ } \mu\text{s}$
 $T_2 = 54.84 \text{ } \mu\text{s}$
 $T_c = \text{ } \mu\text{s}$

Comment: 100% LI FW

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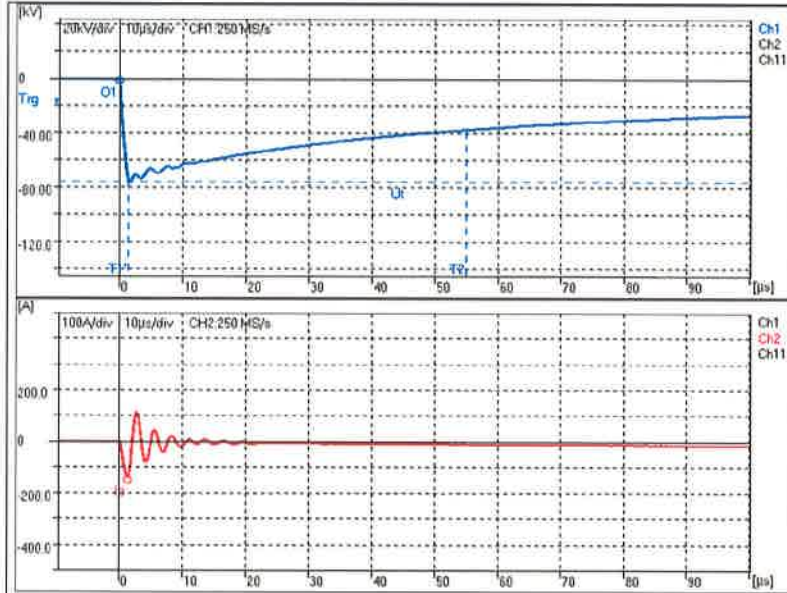


Fig. : 21

$U_p = -74.71 \text{ kV}$

$T_1 = 1.32 \text{ } \mu\text{s}$

$T_2 = 54.93 \text{ } \mu\text{s}$

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

Comment: 100% LI FW

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SHEET NO.: 14 of 15

DATE : 15/11/2018

PHOTOGRAPH OF TEST SAMPLE



TC 2654124

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)

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TC538918000004511F

TEST REPORT NO. : RP-1819-031601

SHEET NO.: 15 of 15

DATE : 15/11/2018

PHOTOGRAPH OF RATING AND TERMINAL MARKING PLATE

DISTRIBUTION TRANSFORMER
RAJASTHAN POWERGEN TRANSFORMER PVT. LTD.
JALORE, RAJASTHAN

3 PHASE TRANSFORMER

STANDARD	IS : 1180 (Part-1)/2014	ENERGY EFFICIENCY LEVEL	3
KVA	100	MAX. TOTAL LOSS AT 50% L. W	435
VOLTS AT NO LOAD(V)	HV 11000	MAX. TOTAL LOSS AT 100% L. W	1500
	LV 433	TYPE OF COOLING	ONAN
BIL (kV Peak)	HV	OIL TEMP. RISE °C	35
	LV NA	WINDING TEMP. RISE °C	40
CURRENT (A)	HV 5.25	MASS OF OIL	kg 164
	LV 133.34	TOTAL MASS	kg 707
FREQUENCY	Hz 50	VOLUME OF OIL	Ltr 198
VECTOR GROUP	Dyn11	MONTH & YEAR OF MFG	
IMPEDANCE VOLT %	4.5	SERIAL NO.	
CUSTOMER	M/s. MPPKVCL		
P.O. No.			

MADE IN INDIA

L.V. (Y)

H.V. (Δ)

VECTOR GROUP: -Dyn11

TC 2654125

PREPARED BY



CHECKED BY

105

95

DISTRIBUTION TRANSFORMER

RAJASTHAN POWERGEN TRANSFORMER PVT LTD
JALORE, RAJASTHAN

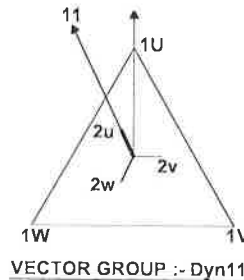
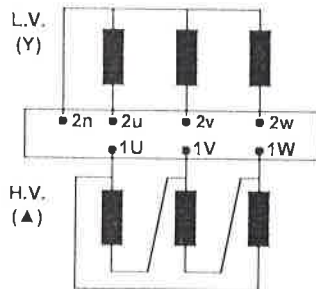
3 PHASE TRANSFORMER

STANDARD	IS : 1180 (Part-1)/2014	ENERGY EFFICIENCY LEVEL	3
KVA	100	MAX. TOTAL LOSS AT 50% L. W	435
VOLTS AT NO LOAD (V)	HV 11000	MAX. TOTAL LOSS AT 100% L. W	1500
	LV 433	TYPE OF COOLING	ONAN
BIL (kV Peak)	HV 75	OIL TEMP. RISE °C	35
	LV NA	WINDING TEMP. RISE °C	40
CURRENT (A)	HV 5.25	MASS OF OIL	164
	LV 133.34	TOTAL MASS	707
FREQUENCY	Hz 50	VOLUME OF OIL	Ltr 198
VECTOR GROUP	Dyn11	MONTH & YEAR OF MFG.	2018
IMPEDANCE VOL T %	4.5	SERIAL NO.	RPTPL/MP/100/01

CUSTOMER
P.O. No.

M/s MPPKVCL

MADE IN INDIA

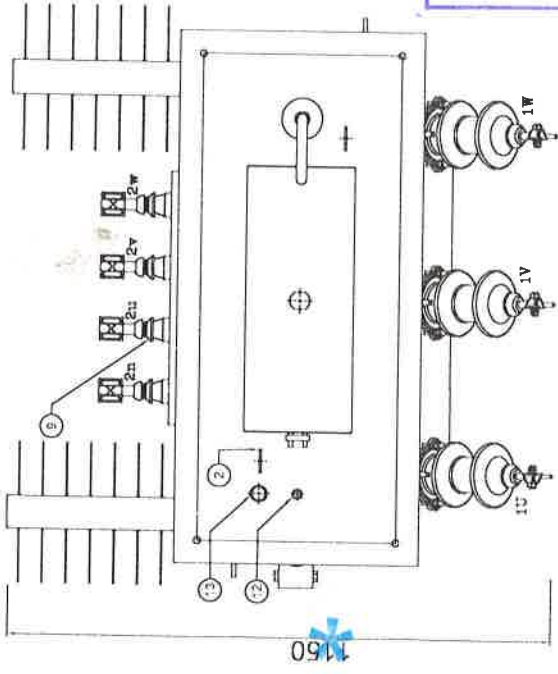
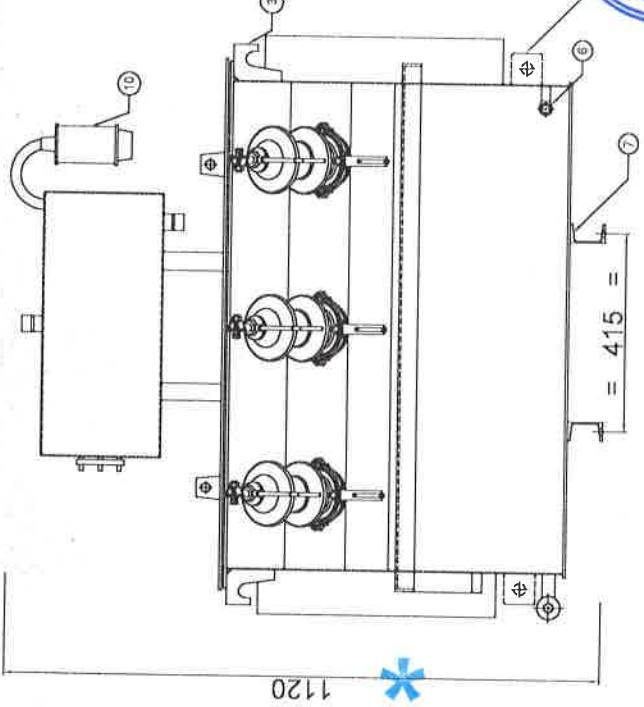
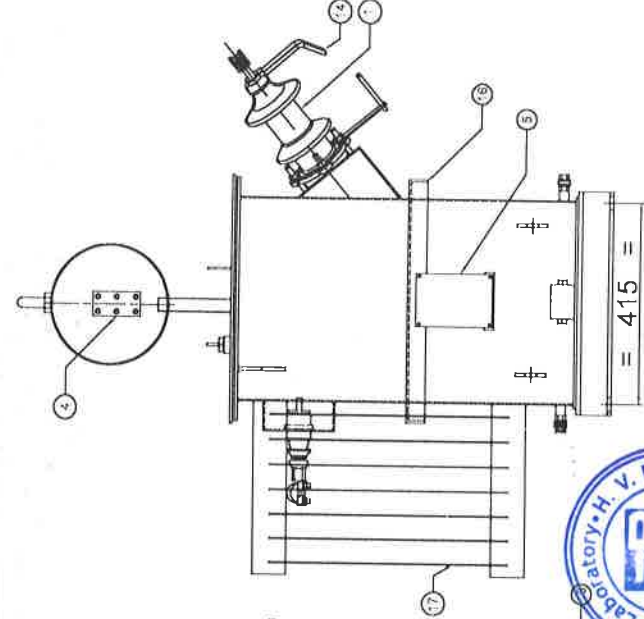
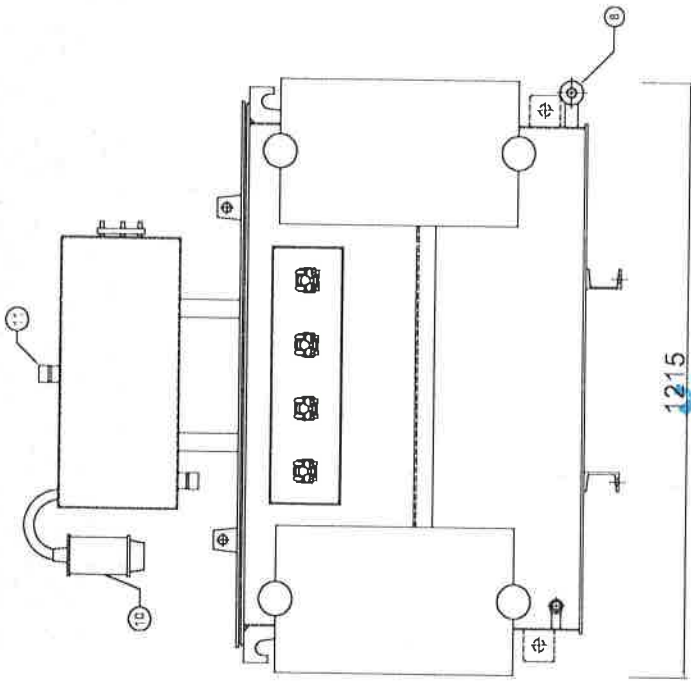


NOTES :-

- 1- ** MARKED ITEMS SHOULD BE PUNCHED AT THE TIME OF DISPATCH.
- 2- MATERIAL - ALUMINIUM ANODIZED
- 3- ALL DIMENSIONS ARE IN MM.

Test Report No. RP-18.19-03/601
 Date : 15/11/2018
 Product : 100 kVA x met
 Verified By : [Signature]
 Verification of this drawing by ERDA is limited to relevant dimensional checks only.
 Verified dimensions are marked with *

REVISIONS			RAJASTHAN POWERGEN TRANSFORMER P. LTD.		
No.	DESCRIPTION	Sign. / Date	Title: RATING AND DIAGRAM PLATE		
			Rating : 100 KVA, 11/0.433KV, 3Ø, 50 Hz, ONAN, Aluminium Wound, Amorphous core, Distribution Transformer		
			Buyer's Reference: MPPKVCL	ALUMINIUM WOUND AMORPHOUS CORE ENERGY EFFICIENCY LEVEL 3	Scale N.T.S
			DRN BY	DATE : 12.09.18	REV.No.
			DRAWING No. RPTPL/RP/06		00



Tank Inside Dimensions	
Length	1020
Width	420
Height	585/555

Conservator Dimensions	
Diameter	240
Length	480

WEIGHTS / QTY.		
TRANSFORMER OIL	Ltrs.	198
TOTAL TRANSFORMER	Kg.	707
TRANSFORMER OIL	Kg.	164
TANK & FITTINGS	Kg.	176
INTERNAL ASSEMBLY	Kg.	367

Test Report No. RP-1819-031601
 Date: 15/11/2018
 Product: 100 KVA x mer
 Verified By: [Signature]
 Verification of this drawing by ERDA is limited to recipient dimensional checks only. All other dimensions are marked with [Symbol]



S. No.	Description	Qty.	S. No.	Description	Qty.
17	Radiators 300W x 400H x 7fns	2 Set	8	Drain cum Sampling Valve	1
16	Stiffner Angle	1 Set	7	Base Channel	2
15	Pulling Lug	4	6	Earthing Terminal with Lug	2
14	Aching Horns for HV Bushings	3 set	5	Rating & Terminal Marking Plate	1
13	Air Release Plug	1	4	Oil Level Indicator	1
12	Thermometer Pocket	1	3	Lifting Lugs for Complete Unit	2
11	Oil Filling Pipe with Cap (P1 1/4)	1	2	Top Cover Lifting Lug	2
10	Breather with Silica Gel	1	1	HV Bushing with Bimetallic T.C.	3
9	LV Bushing with Bimetallic T.C.	4			

RAJASTHAN POWERGEN TRANSFORMER P. LTD.
 OUTLINE GENERAL ARRANGEMENT DETAILS
 100 KVA, 110-433KV, 3Ø, 50 Hz, ONAN,
 Aluminium wound Distribution Transformer
 MPPKVVCL
 DATE: 12.09.18
 RP/PI/OGA/06

Min. External Clearances in mm.	
H.V.	L.V.
255	75
PHASE TO PHASE	140
PHASE TO EARTH	40

Notes :-
 1) All dimensions are in mm & Weights are in kg.
 2) Paint Shade : Aircraft BLUE colour conforming to Shade No. 108 of IS: 5 of 2007.
 3) O.V. all dimensions & weights are subject to ± 10% tolerance.