



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.

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TEST REPORT

ULR-TC538919000024656F

Sheet : 1 of 4

NAME AND ADDRESS OF CUSTOMER RAJASTHAN POWERGEN TRANSFORMER PVT. LTD. KHASRA NO. 911-914, KAROLA-BHINMAL ROAD, KAROLA, SANCHORE, RAJASTHAN-343041	REPORT NO.: RP-1920-017748 DATE : 10.08.2019	
	CUSTOMER REF. NO. LETTER	DATE 22.07.2019
	DATE OF SAMPLE RECEIPT 12.07.2019	DATE OF TESTING 09.08.2019
	SAMPLE DESCRIPTION DISTRIBUTION TRANSFORMER (NON-SEALED TYPE) Manufactured by : RAJASTHAN POWERGEN TRANSFORMER PVT. LTD. Rating : 100 kVA Volts : 11000/433 V (at no-load) Current : 5.25/133.34 Amps Phases : 3/3 Vector group : Dyn11 Energy efficiency level : 2 Further details as per sheet no.2	
SAMPLE IDENTIFICATION ERDA sample code number : ERDA-00324651 Manufacturer serial number: RPTPL/01 Year of manufacture : 2019 Enclosed drawing numbers : 1) NP/100/07 2) RPTL-OGA-07		
TEST DETAILS Temperature rise test	TEST SPECIFICATION As per customer's requirement ,testing procedure followed as per cl.no.21.3.b of IS 1180 (Part 1):2014	
TEST RESULTS : As per sheets from 3 of 4.		
TESTS WITNESSED BY: Mr. IRFAN KHATRI [Testing engineer, M/s. Rajasthan Powergen Transformer Pvt. Ltd.]		
ENCLOSURE : Phctographs of test sample – As per sheet 4 of 4.		
REMARKS : 1) The transformer conforms to the guaranteed requirement as per above mentioned test specification for above mentioned test no. 1.		
PREPARED BY 	CHECKED BY 	APPROVED BY  (Kapil J. Sharma)
Note :1. This report relates only to the particular sample received for testing in good condition at E.R.D.A.,Makarpura. 2. This report cannot be reproduced in part under any circumstances. 3. Publication of this report requires prior permission in writing from Director , E.R.D.A. 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 construed as where the cause has arisen.		
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TC 2841089





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REPORT NO.: RP-1920-017748

Sheet : 2 of 4

DATE : 10.08.2019

TECHNICAL SPECIFICATIONS OF TEST OBJECT ASSIGNED BY CUSTOMER

1.	Name of Manufacturer	RAJASTHAN POWERGEN TRANSFORMER PVT. LTD.
2.	Sr.No.	RPTPL/01
3.	kVA rating	100
4.	Rated Voltage H.V.(Volts)	11000
5.	Rated Voltage L.V.(Volts)	433
6.	Rated Current H.V.(Amp.)	5.25
7.	Rated Current L.V.(Amp.)	133.34
8.	Number of phases	3
9.	Energy Efficiency level	2
10.	Vector Group	Dyn11
11.	Winding Material	Aluminium
12.	Type of Cooling	ONAN
13.	Frequency (Hz)	50
14.	Guaranteed Percentage impedance (%)	4.5
15.	Total losses at 50 % load (Watts)	475
16.	Total losses at 100 % load (Watts)	1650
17.	Guaranteed temperature rise of oil/Winding	35/40°C
18.	Year of Manufacture	2019
19.	Standard no.	IS 1180 (PART-1) 2014 with amendment no. 1,2 & 3.

PREPARED BY

CHECKED BY

TC 2832867





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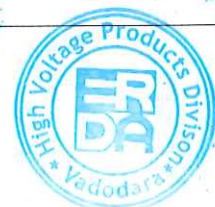
**ULR-TC538919000024656F****REPORT NO.:** RP-1920-017748**Sheet : 3 of 4****DATE** : 10.08.2019

Sr. No.	Particulars of test and Cl. No.	Requirement as per specification	Obtained value	Remarks
1.	Temperature-rise test : (As per customer's requirement ,testing procedure followed as per cl.no.21.3.b of IS 1180 (Part 1):2014) Before starting test, the dimensions of tank with radiators were measured & recorded. Size of tank : L1-900 mm, W1-357 mm, H1-845 mm, H2-880 mm Size of fins : L-600 mm, W-226 mm Number of radiators : 02 Total Number of fins : 05 Specified losses fed for temperature-rise test were 1650 Watts. Specified losses were fed to the transformer (i.e. Supply was connected to HV winding and LV winding kept short-circuited) till steady state temperature-rise was attained. Top oil temperature was recorded hourly. After steady state condition, the losses were brought down in reference to the rated current one hour prior to shut down. At the shutdown, the hot windings resistance were measured and temperature-rise calculated. A) Top oil temperature-Rise : Max. 35°C B) Winding Temperature Rise (Resistance method) 1) HV Winding : Max. 40°C 2) LV Winding : Max. 40°C C) Ambient temperature at shutdown : 26.7°C D) Time of Shutdown(HRS) : 22:00			Conforms

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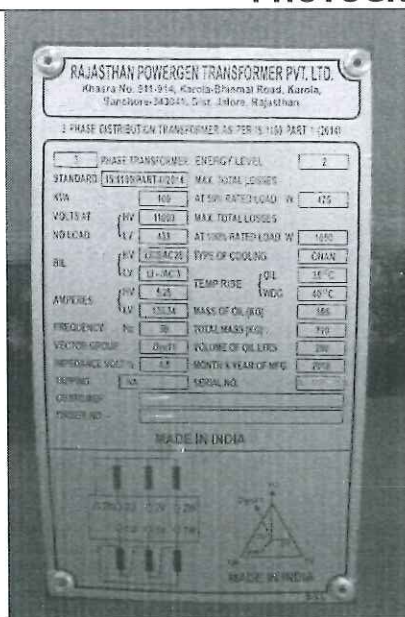
ULR-TC538919000024656F

REPORT NO.: RP-1920-017748

Sheet : 4 of 4

DATE : 10.08.2019

PHOTOGRAPHS OF TEST SAMPLE



TC 2832869

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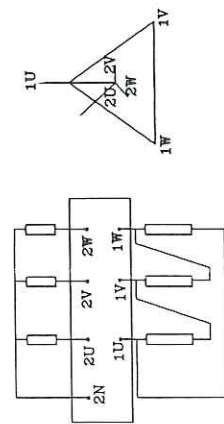
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Rajasthan Powergen Transformer Pvt. Ltd
Khasra No. 911-914, Karola-Bhimmal Road, Karola,
Sanchole-343041, Dist. Jalore, Rajasthan

MADE IN INDIA



MADE IN INDIA



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

SANCHORE-343041, DIST. JALORE, RAJASTHAN

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

CUSTOMER	---
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T.S.No. ---

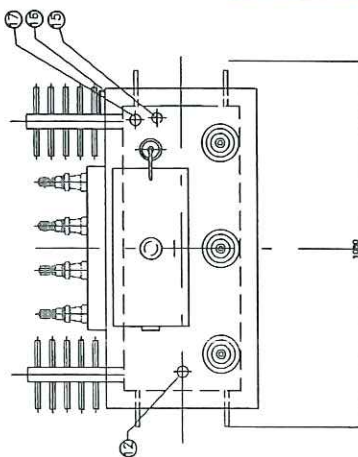
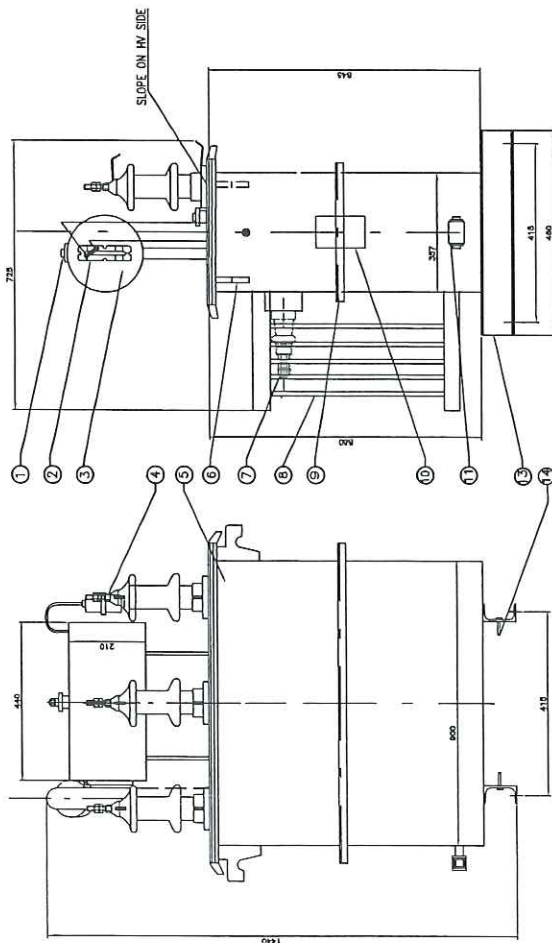
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DRG. No.	NP/100/07
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MIN ELECTRICAL CLEARANCE IN AIR				
PH. TO PH.	PH. TO EARTH			
HV	255	HV	140	
LV	45	LV	20	

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



Test Report No. 10-08-2019
 Date: 10-08-2019
 Product: 100KVA, 0.433KV
 Verification of this drawing by L&D is limited to relevant dimensions are marked on drawing.

NOTES:-

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

S.No.	DESCRIPTION	QTY.
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.	STIFFENER (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 ARKING HORN & BIMETALIC 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

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

TITLE:- OUTLINE G.A. DRAWING OF 100KVA, 11/0.433KV ALUMINIUM WOUND ENERGY EFFICIENCY LEVEL-2 TRANSFORMER

DRN.	2828	CUSTOMER	---
		T.S.No.	---
		SCALE	N T S
DATE	10-07-2019	DRG. No.	RPTL-OGA-07