



Certificate No. : TC-5389

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

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ERDA Road, Makarpura Industrial Estate, Vadodara-390 010, India.

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ULR-TC538919000024521F

TEST REPORT

SHEET No. 1 of 7

NAME & ADDRESS OF CUSTOMER Rajasthan Powergen Transformer Pvt. Ltd. Khasra No. 911-914, Karola-Bhinmal Road, Karola, Sanchole - 343041 RJ	REPORT NO.: RP-1920-017592 DATE : 09 Aug 2019	
SAMPLE DESCRIPTION DISTRIBUTION TRANSFORMER (NON SEALED TYPE) Make: Rajasthan Powergen Transformer Pvt. Ltd. Rating: 100 kVA 11000 / 433 Volts 5.25 / 133.34 Amp. Vector Group: Dyn11 Energy efficiency level: 2 Further details as per sheet No. 2.	CUSTOMER REF NO. NIL	DATE 22 Jul 2019
	DATE OF SAMPLE RECEIPT 12 Jul 2019	DATE OF TESTING 06 Aug 2019 to 09 Aug 2019
	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)RPTPL-OGA-07	
TEST DETAILS As per sheet 3.	TEST SPECIFICATION As per sheet 3.	
TEST RESULTS: As per sheets from 4 to 5		
ENCLOSURE: Photographs of test sample - As per sheets from 6 to 7		
TESTS WITNESSED BY:		
1) Mr. IRFAN KHATRI (TESTING ENGG., RAJASTHAN POWERGEN TRANSFORMER PVT. LTD.)		
REMARKS: 1) The transformer conforms to the guaranteed requirement as per above mentioned test specification for above mentioned test nos. 3, 4. 2) Criteria limit has not been specified for test nos. 1, 2.		
PREPARED BY	CHECKED BY	APPROVED BY (Kapil J. Sharma)
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SHEET No. 2 of 7

REPORT NO.: RP-1920-017592

Date: 09 Aug 2019

TECHNICAL SPECIFICATIONS OF TEST OBJECT ASSIGNED BY CUSTOMER

1	Name of manufacturer	Rajasthan Powergen Transformer Pvt. Ltd.
2	Serial 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
11	Vector group	Dyn11
12	Winding material	Aluminium
13	Type of cooling	ONAN
14	Frequency (Hz.)	50
15	Guaranteed percentage impedance(%)	4.5
16	Total losses at 50% load (Watts)	475
17	Total losses at 100% load (Watts)	1650
18	Guaranteed temperature rise of oil/winding	35°C /40°C
19	Year of manufacture	2019
20	Standard No.	IS: 1180 PART 1-2014 WITH AMENDMENT NO. 1,2 & 3

PREPARED BY

CHECKED BY



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SHEET No. 3 of 7

REPORT NO.: RP-1920-017592

Date: 09 Aug 2019

Sr. No.	TEST DETAILS	TEST SPECIFICATION
1	Measurement of short-circuit impedance and load loss at 50 percent and 100 percent load	As per cl.no.21.2.c of IS: 1180 PART 1-2014
2	Measurement of no-load loss and current	As per cl.no.21.2.d of IS: 1180 PART 1-2014
3	Total losses at 50% load	As per cl.no. 6.8 of IS: 1180 PART 1-2014
4	Total losses at 100% load	As per cl.no. 6.8 of IS: 1180 PART 1-2014
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SHEET No. 5 of 7

REPORT NO.: RP-1920-017592		Date: 09 Aug 2019		
Sr. No.	Particular of Tests & Cl.No.	Requirement as per Specification	Obtained Value	Remarks
	At 75°C	--	1086.437	---
2	Measurement of no-load loss and current (As per cl.no.21.2.d of IS: 1180 PART 1-2014) Tested with mean value of voltage 433.381 volts (On LV side) Frequency : 50.010 Hz RMS Voltage (Volts) No-load current (Amps) Measured no-load loss (Watts) Corrected no-load loss (Watts)	--	434.091 0.4964 189.74 189.429	---
3	Total losses at 50% load (As per cl.no. 6.8 of IS: 1180 PART 1-2014)	Max. 475	460.301	Conforms
4	Total losses at 100% load (As per cl.no. 6.8 of IS: 1180 PART 1-2014)	Max. 1650	1275.866	Conforms
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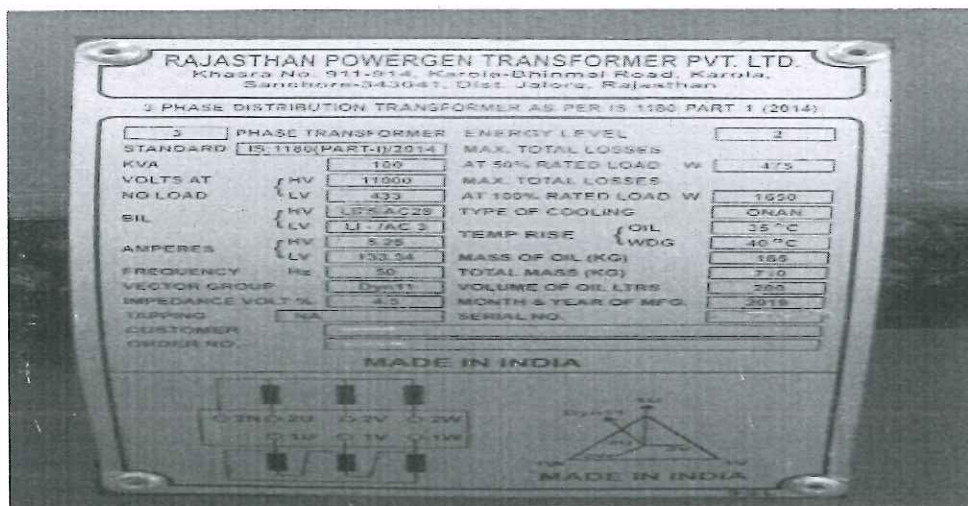
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SHEET No. 6 of 7

REPORT NO.: RP-1920-017592

Date: 09 Aug 2019

PHOTOGRAPHS OF TEST SAMPLE



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SHEET No. 7 of 7

REPORT NO.: RP-1920-017592

Date: 09 Aug 2019

PHOTOGRAPHS OF TEST SAMPLE



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105

95

DISTRIBUTION TRANSFORMER

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

3 PHASE TRANSFORMER		ENERGY LEVEL		2
STANDARD		MAX. TOTAL LOSS W/		475
		AT 50% LOAD		
KVA	100	MAX. TOTAL LOSS W/		1650
		AT 100% LOAD		
VOLTS AT	HV 11000	TYPE OF COOLING		ONAN
NO LOAD	LV 433	TEMP. RISE		35° C
		OIL		WDG. 40° C
BIL	HV 1195/AC28	MASS OF OIL(KG)		165
	LV 11-/AC3			
AMPERES	HV 5.25	TOTAL MASS (KG)		710
	LV 133.34			
FREQUENCY HZ	50	VOLUME OF OIL LTRS		200
VECTOR GROUP	Dyn11	MONTH&YEAR OF MFG		2019
IMPEDANCE VOLT %	4.5	SERIAL NO.		RPTPL/01
TAPPING	NA			
CUSTOMER	----			
ORDER NO.	----			

MADE IN INDIA

175

165

MADE IN INDIA

Test Report No. RP-1920-017592
Date: 09-08-2019
Product: 100KVA D.T
Verified by: [Signature]
Verification of this drawing by ERDA is
limited to relevant dimensional checks only.
Verified dimensions are marked with ***

RAJASTHAN POWERGEN TRANSFORMER PVT. LTD KHASRA No. 911-914, KAROLA-BHINMAL ROAD, KAROLA, SANCHOreshore-343041, DIST. JALORE, RAJASTHAN	
TITLE:— NAME PLATE DRAWING OF 100KVA,11/0.433KV ALUMINIUM WOUND ENERGY EFFICIENCY LEVEL-2 TRANSFORMER	
CUSTOMER	----
T.S.No.	----
SCALE	N T S
DRG. No.	NP/100/07

