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TEST REPORT

SHEET No. 1 of 11

NAME & ADDRESS OF CUSTOMER Rajasthan Powergen Transformer Pvt. Ltd. Khasra No. 911-914, Karola-Bhinmal Road, Sanchoe - 343041 RJ	REPORT NO.: RP-1718-051918 DATE : 19 Jan 2018	
	CUSTOMER REF NO. NP/ERDA/TT/39/2017-18	DATE 29 Nov 2017
	DATE OF SAMPLE RECEIPT 05 Dec 2017	DATE OF TESTING 28 Dec 2017 to 06 Jan 2018
	SAMPLE DESCRIPTION DISTRIBUTION TRANSFORMER (NON-SEALED TYPE) Make: RAJASTHAN POWERGEN TRANSFORMER PVT. LTD. Rating: 315 kVA 11000 / 433 Volts 16.53 / 420.02 Amp. Vector Group: Dyn11 Energy efficiency level: 2 Further details as per sheet No. 2.	
	SAMPLE IDENTIFICATION ERDA sample code number: ERDA-00229815 Manufacturer serial number: RPTPL/315KVA/2017-18/001 Year of manufacture: 2017 Enclosed drawing numbers: 1) RPTPL/315KVA/003 2) RPTPL/315KVA/002	
TEST DETAILS As per sheet 3.	TEST SPECIFICATION As per sheet 3.	
TEST RESULTS: As per sheets from 4 to 9		
ENCLOSURE: Photographs of test sample - As per sheets from 10 to 11		
REMARKS: 1) The transformer conforms to the guaranteed requirement as per above mentioned test specification for above mentioned test nos. 1, 3, 5, 6, 7, 8. 2) Criteria limit has not been specified for test nos. 2, 4, 9		
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 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 construed as where the cause has arisen.		
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SHEET No. 2 of 2

REPORT NO.: RP-1718-051918

Date: 19 Jan 2018

TECHNICAL SPECIFICATIONS OF TEST OBJECT ASSIGNED BY CUSTOMER

1	Name of manufacturer	RAJASTHAN POWERGEN TRANSFORMER PVT. LTD.
2	Serial No.	RPTPL/315KVA/2017-18/001
3	kVA rating	315
4	Rated voltage H.V. (Volts)	11000
5	Rated voltage L.V. (Volts)	433
6	Rated current H.V. (Amp.)	16.53
7	Rated current L.V. (Amp.)	420.02
8	Number of phases	3
9	Energy efficiency level	2
10	Vector group	Dyn11
11	Winding material	Copper
12	Type of cooling	ONAN
13	Frequency (Hz.)	50
14	Guaranteed percentage impedance(%)	4.5
15	Total losses at 50% load (Watts)	1025
16	Total losses at 100% load (Watts)	3100
17	Guaranteed temperature rise of oil/winding	40°C /45°C
18	Year of manufacture	2017
19	Standard No.	IS: 1180 PART 1-2014 WITH AMENDMENT NO. 1 & 2, as per customer's requirement, CBIP manual, IS 2026

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SHEET No.

REPORT NO.: RP-1718-051918

Date: 19 Jan 2018

Sr. No.	TEST DETAILS	TEST SPECIFICATION
1	No load current at 112.5 percent voltage:	As per cl.no.21.4.c of IS: 1180 PART 1-2014
2	Measurement of unbalance current	As per customer`s requirement
3	Magnetic balance test	As per CBIP manual; Publication no.317 - 2013
4	Measurement of zero-sequence impedance (s) on three-phase transformers	As per customer`s requirement testing procedure followed as per cl.no.10.7. of IS: 2026 PART 1-2011
5	Temperature-rise test	As per customer`s requirement testing procedure followed as per cl.no.21.3.b of IS: 1180 PART 1-2014
6	Oil leakage test	As per cl.no.21.2.j of IS: 1180 PART 1-2014
7	Pressure test (routine test)	As per cl.no.21.2.h of IS: 1180 PART 1-2014
8	Pressure test (type test)	As per cl.no.21.3.d of IS: 1180 PART 1-2014
9	Measurement of the Harmonics of the No-load current	As per customer`s requirement testing procedure followed as per cl.no.10.6. of IS: 2026 (PART 1)-2011

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SHEET No. 4 of 4

REPORT NO.: RP-1718-051918

Date: 19 Jan 2018

Sr. No.	Particular of Tests & Cl.No.			Requirement as per Specification	Obtained Value	Remarks
1	No load current at 112.5 percent voltage: (As per cl.no.21.4.c of IS: 1180 PART 1-2014) Test voltage of 112.5 percent of rated voltage at rated frequency was applied to the L.V. winding terminals and H.V. winding terminals were kept open circuited. No load current was recorded. <div>Test voltage (Volts) No load current (Amps) No Load Current (%)</div>			Max. 5.0	487.125 1.0698 0.255	Conforms
2	Measurement of unbalance current (As per customer`s requirement) All the three terminals of the secondary (LV) winding shorted together, except neutral terminal. Current measuring terminal of ammeter was connected between short circuited secondary (LV) windings and neutral terminal for measurement of unbalance current. 3-phase voltage was applied to the primary (HV) winding for circulating rated current in both the windings and measured unbalance current. a)Rated secondary (LV) winding current (Amps): b)Measured unbalance current (Amps): c)Measured unbalance current (%):			--	420.02 0.2 0.048	---
3	Magnetic balance test (As per CBIP manual; Publication no.317 - 2013)					Conforms
	Voltage Applied Between	Applied Voltage (Volts)	Measured Voltage Between			
	2u & 2n	100.01	2v & 2n			
			2w & 2n			
	2v & 2n	100.04	2u & 2n			
			50 to 90 %	74.48 V		
				25.45 V		
			30 to 70 %	49.45 V		

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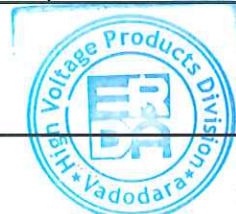
REPORT NO.: RP-1718-051918

Date: 19 Jan 2018

Sr. No.	Particular of Tests & Cl.No.			Requirement as per Specification	Obtained Value	Remarks
			2w & 2n	30 to 70 %	50.45 V	
	2w & 2n	100.05	2u & 2n		25.78 V	
			2v & 2n	50 to 90 %	74.45 V	
4	Measurement of zero-sequence impedance(s) on three-phase transformers (As per customer`s requirement testing procedure followed as per cl.no.10.7. of IS: 2026 PART 1-2011) The 2u, 2v and 2w terminals of LV winding shorted together. A test current (i.e. 1/3rd of rated current) was circulated between shorted terminals and 2n and measured a voltage across them. The obtained values are tabulated as below:					---
	Test current (Amps) Measured Voltage (Volts) Z ps = 3V/I (Ω/Phase) (3V * kVA) Z ps = ----- (%) (I * 10 (kV)2)				140.22 1.235 0.026 4.439	
5	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: L1-1165 mm, W1-450 mm, H1-940 mm, H2-955 mm Size of fins: L-700 mm, W-300 mm, No. of radiators-4, No. of fins per radiator-6 Losses fed for temperature-rise test were 3100 Watts					Conforms

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SHEET No. 6 of 11

REPORT NO.: RP-1718-051918			Date: 19 Jan 2018	
Sr. No.	Particular of Tests & Cl.No.	Requirement as per Specification	Obtained Value	Remarks
	<p>(As specified by the customer)</p> <p>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.</p> <p>At the shut down, the hot winding resistances were measured and temperature rise calculated.</p> <p>A) Top oil temperature-rise B) Winding temperature-rise (Resistance method) 1) HV winding 2) LV winding C) Ambient temperature at shutdown D) Time of shutdown (Hrs)</p>	<p>Max. 40°C</p> <p>Max. 45°C Max. 45°C</p>	<p>28.8°C</p> <p>42.4°C 40.7°C 23.5°C 01:30</p>	
6	<p>Oil leakage test (As per cl.no.21.2.j of IS: 1180 PART 1-2014)</p> <p>The assembled transformer with all fittings including bushings in position was tested at a pressure at the top equivalent to the head that was available at the base of the tank for 8 hours.</p>	There should be no leakage at any point	No leakage observed	Conforms
7	<p>Pressure test (routine test) (As per cl.no.21.2.h of IS: 1180 PART 1-2014)</p> <p>The transformer tank was tested at an air pressure of 35 kPa above atmosphere pressure maintained inside the tank for 10 min.</p>	There should be no leakage at any point	No leakage observed	Conforms

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SHEET No. 70

REPORT NO.: RP-1718-051918

Date: 19 Jan 2018

Sr. No.	Particular of Tests & Cl.No.	Requirement as per Specification	Obtained Value	Remarks																																												
8	<p>Pressure test (type test) (As per cl.no.21.3.d of IS: 1180 PART 1-2014)</p> <p>The transformer tank was subjected to air pressure of 80 kPa for 30 minutes. The permanent deflection of flat plates was recorded, after pressure had been released.</p> <table><thead><tr><th>Deflection measured at</th><th>Length of plate (mm)</th></tr></thead><tbody><tr><td>HV side</td><td>1165</td></tr><tr><td>LV side</td><td>1165</td></tr><tr><td>Side A</td><td>450</td></tr><tr><td>Side B</td><td>450</td></tr></tbody></table> <p>The transformer tank was subjected to vacuum of 500 mm of Mercury for 30 minutes. The permanent deflections of flat plates was recorded, after vacuum had been released.</p> <table><thead><tr><th>Deflection measured at</th><th>Length of plate (mm)</th></tr></thead><tbody><tr><td>HV side</td><td>1165</td></tr><tr><td>LV side</td><td>1165</td></tr><tr><td>Side A</td><td>450</td></tr><tr><td>Side B</td><td>450</td></tr></tbody></table> <div><div>HV Side</div><div>Side A<div>Side B</div></div><div>LV Side</div></div>	Deflection measured at	Length of plate (mm)	HV side	1165	LV side	1165	Side A	450	Side B	450	Deflection measured at	Length of plate (mm)	HV side	1165	LV side	1165	Side A	450	Side B	450	<table><tbody><tr><td>Max. 6.5 mm</td><td>0.3 mm</td></tr><tr><td>Max. 6.5 mm</td><td>0.3 mm</td></tr><tr><td>Max. 5.0 mm</td><td>0.2 mm</td></tr><tr><td>Max. 5.0 mm</td><td>0.1 mm</td></tr></tbody></table> <table><tbody><tr><td>Max. 6.5 mm</td><td>0.2 mm</td></tr><tr><td>Max. 6.5 mm</td><td>0.1 mm</td></tr><tr><td>Max. 5.0 mm</td><td>0.1 mm</td></tr><tr><td>Max. 5.0 mm</td><td>0.1 mm</td></tr></tbody></table> <div>There should be no leakage at any point</div>	Max. 6.5 mm	0.3 mm	Max. 6.5 mm	0.3 mm	Max. 5.0 mm	0.2 mm	Max. 5.0 mm	0.1 mm	Max. 6.5 mm	0.2 mm	Max. 6.5 mm	0.1 mm	Max. 5.0 mm	0.1 mm	Max. 5.0 mm	0.1 mm	<table><tbody><tr><td>0.3 mm</td></tr><tr><td>0.3 mm</td></tr><tr><td>0.2 mm</td></tr><tr><td>0.1 mm</td></tr></tbody></table> <table><tbody><tr><td>0.2 mm</td></tr><tr><td>0.1 mm</td></tr><tr><td>0.1 mm</td></tr><tr><td>0.1 mm</td></tr></tbody></table> <div>No leakage observed</div>	0.3 mm	0.3 mm	0.2 mm	0.1 mm	0.2 mm	0.1 mm	0.1 mm	0.1 mm	Conforms
Deflection measured at	Length of plate (mm)																																															
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SHEET No. 08 of 11

REPORT NO.: RP-1718-051918			Date: 19-Jan-2018	
Sr. No.	Particulars of test and clause no.	Requirement as per specification.	Obtained value	Remarks
9	Measurement of the Harmonics of the No-load current (As per customer's request testing procedure followed as per cl. no. 10.6 of IS 2026 (Part 1):2011)	The harmonics of the no-load current in the three phases shall be measured and magnitude of the harmonics shall be expressed as a percentage of the fundamental component.	Refer table 1 for individual current harmonics components & individual voltage harmonics components measured at LV side at rated voltage i.e. 433 V Current THD: R-ph: 11.74% Y-ph: 16.39% B-ph: 9.14% Voltage THD: R-ph: 1.59% Y-ph: 1.84% B-ph: 1.44%	---
Prepared by:		Checked by:		



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REPORT NO.: RP-1718-051918

Date: 19-Jan-2018

TABLE-1 : Harmonics in voltage and current (as a percentage of fundamental)

Harmonic order	Current I_R in %	Current I_R in Amps	Voltage V_{RY} in %	Current I_Y in %	Current I_Y in Amps	Voltage V_{YB} in %	Current I_B in %	Current I_B in Amps	Voltage V_{BR} in %
1	100.00	0.86	100.00	100.00	0.62	100.00	100.00	0.92	100.00
2	0.71	0.01	0.01	1.08	0.01	0.02	0.80	0.01	0.02
3	9.30	0.08	0.72	15.18	0.09	0.55	7.78	0.07	0.51
4	0.33	0.00	0.03	0.39	0.00	0.04	0.33	0.00	0.01
5	6.92	0.06	1.01	5.76	0.04	1.08	4.47	0.04	1.11
6	0.03	0.00	0.01	0.03	0.00	0.03	0.01	0.00	0.02
7	1.59	0.01	0.22	1.78	0.01	0.32	1.50	0.01	0.20
8	0.07	0.00	0.00	0.08	0.00	0.00	0.09	0.00	0.01
9	0.28	0.00	0.42	0.35	0.00	0.61	0.23	0.00	0.23
10	0.03	0.00	0.00	0.06	0.00	0.02	0.02	0.00	0.01
11	0.23	0.00	0.73	0.48	0.00	1.05	0.34	0.00	0.62
12	0.01	0.00	0.01	0.02	0.00	0.03	0.02	0.00	0.00
13	0.10	0.00	0.26	0.18	0.00	0.50	0.07	0.00	0.23
14	0.02	0.00	0.02	0.00	0.00	0.02	0.02	0.00	0.03
15	0.14	0.00	0.33	0.18	0.00	0.22	0.13	0.00	0.13
16	0.01	0.00	0.01	0.02	0.00	0.02	0.01	0.00	0.02
17	0.05	0.00	0.04	0.03	0.00	0.05	0.05	0.00	0.10
18	0.00	0.00	0.01	0.00	0.00	0.02	0.01	0.00	0.01
19	0.07	0.00	0.14	0.05	0.00	0.08	0.03	0.00	0.04
20	0.00	0.00	0.01	0.02	0.00	0.01	0.01	0.00	0.01
21	0.02	0.00	0.08	0.06	0.00	0.04	0.04	0.00	0.12
22	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00
23	0.01	0.00	0.01	0.02	0.00	0.04	0.01	0.00	0.04
24	0.01	0.00	0.00	0.03	0.00	0.00	0.01	0.00	0.01
25	0.01	0.00	0.04	0.03	0.00	0.06	0.02	0.00	0.03
THD %	11.74		1.59	16.39		1.84	9.14		1.44
Parameter measured	0.86 A		431.32 V	0.63 A		433.30 V	0.93 A		438.69 V

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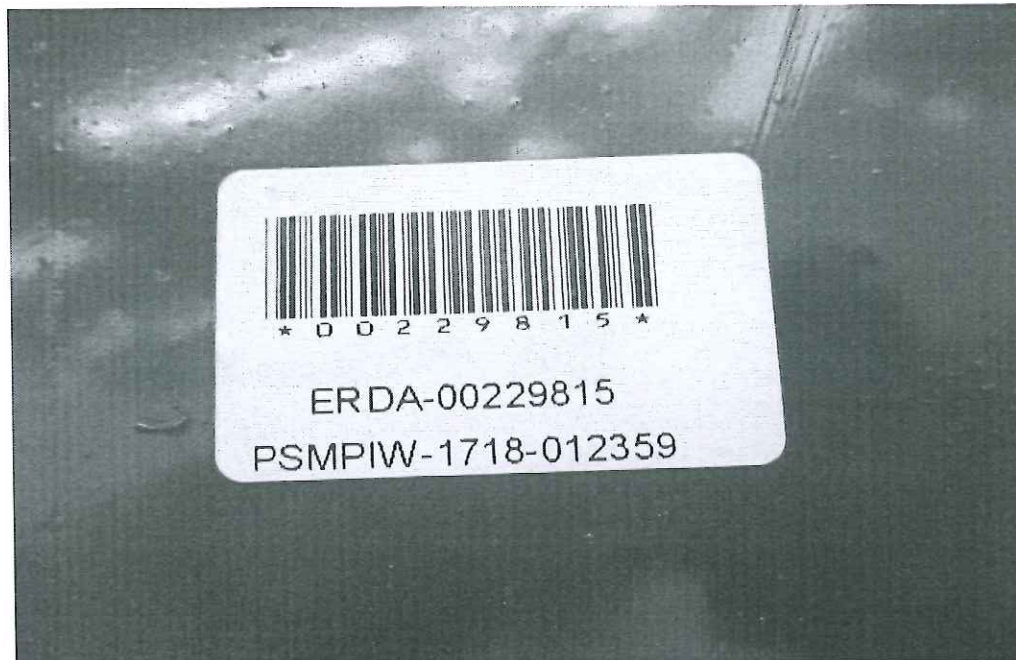
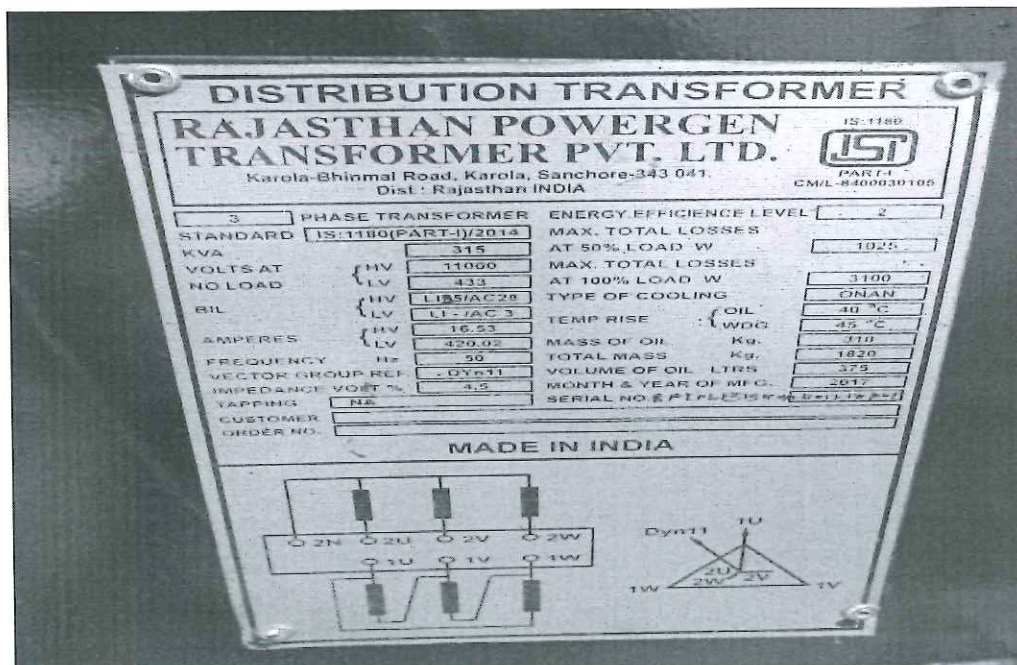


SHEET No. 10 of 11

REPORT NO.: RP-1718-051918

Date: 19 Jan 2018

PHOTOGRAPHS OF TEST SAMPLE



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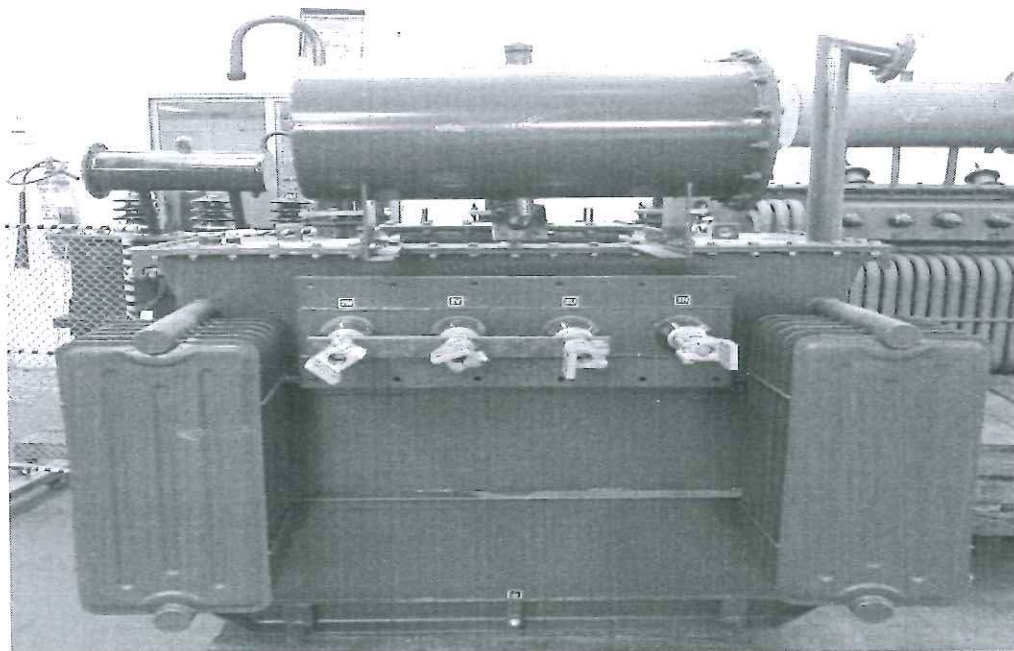


SHEET No. 11 of 11

REPORT NO.: RP-1718-051918

Date: 19 Jan 2018

PHOTOGRAPHS OF TEST SAMPLE



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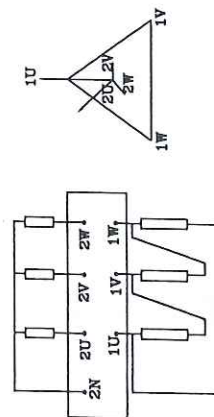
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DISTRIBUTION TRANSFORMER

RAJASTHAN POWERGEN TRANSFORMER PVT. LTD (IS:1100(Part 1))
KAROLA-BHINMAL ROAD, KAROLA, SANCHORE
RAJASTHAN (INDIA) CML-3400030105

3 PHASE TRANSFORMER ENERGY LEVEL 2
STANDARD IS:1100(PART-1)/2014 MAX. TOTAL LOSS W 1025
KVA 315 MAX. TOTAL LOSS W 3100
VOLTS AT HV 11000 TYPE OF COOLING ONAN
NO LOAD LV 433 TEMP. RISE OIL 40° C
WDG. 45° C
BIL HV LI95/AC28 LV LI-/AC3 MASS OF OIL(KG) 310
AMPERES HV 16.53 TOTAL MASS (KG) 1820
FREQUENCY HZ 50 VOLUME OF OIL LTRS 375
VECTOR GROUP Dyn11 MONTHLY YEAR OF MFG 2017
IMPEDANCE VOLT % 4.5
TAPPING NA S.NO 1077/315KVA/2017-16/201
CUSTOMER
ORDER NO.

MADE IN INDIA



MADE IN INDIA



Test Report No.: AP-2788-091918
Date: 28/Jan/2018
Product: 315KVA / 20mex
Verified By: E
Verification of this drawing by ERO is
limited to relevant dimensional checks only.
Verified dimensions are marked with red

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

TITLE: - NAME PLATE DRAWING OF 315KVA, 11/0.433KV
COPPER WOUND ENERGY EFFICIENCY LEVEL-2 TRANSFORMER

CUSTOMER

T.S.No.

RPTPL/17-18/315KVA/001

SCALE

N T S

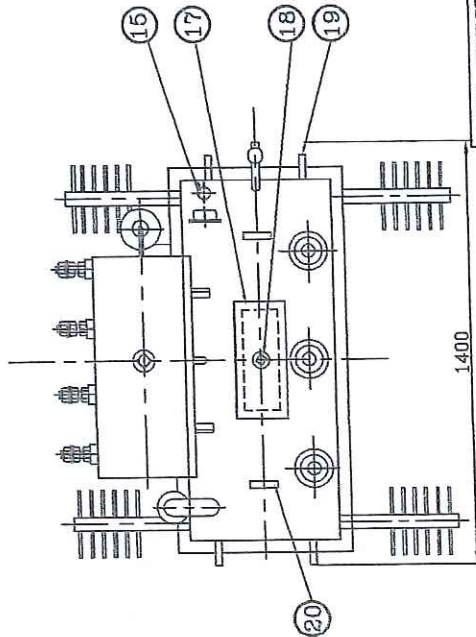
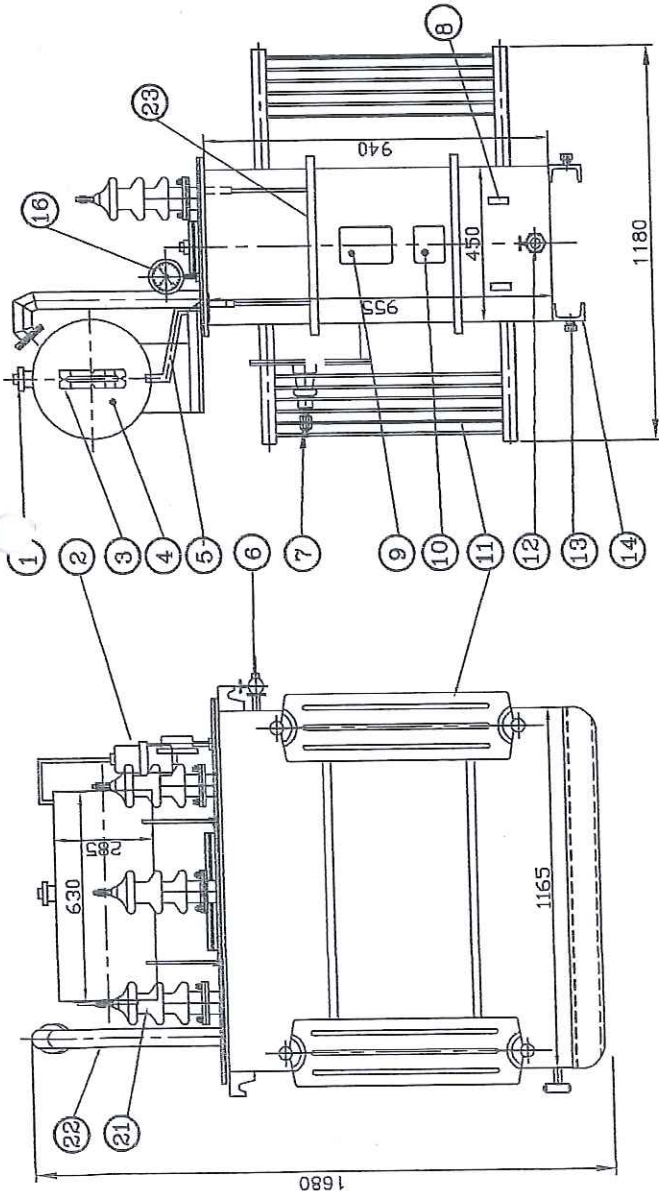
DRG. No.

RPTPL/315KVA/003

NOTES:-

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.
2. ±10% TOLERANCES ON WEIGHTS & DIMENSIONS

Test Report No. : **RT-2718-051918**
 Date : **19/05/2018**
 Product : **315 KVA, 2300V**
 Verified by : **[Signature]**
 Verification of this drawing is limited to relevant dimensional checks only. Unrelated dimensions are marked with 'IM'.



TANK DIMENSIONS	
LENGTH	1165
BREADTH	450
HEIGHT	940/955

SHEET THICKNESS	
TOP	5 mm
BOTTOM	5 mm

WEIGHT DETAILS	
Core & Windings	1110 Kgs.
Tank & Fitting	400 Kgs.
Weight of Oil	310 Kgs.
Total Weight	1820 Kgs.
Quantity of Oil	375 Ltrs.

MIN. ELECTRICAL CLEARANCE	
PHASE TO PHASE	140
PHASE TO EARTH	40
HV	255
LV	75

REV.No.	DATE	SIGN.	REMARKS

ITEM	DESCRIPTION	QTY.
23.	STIFFNER-(40X40X6)MM ANGLE	2
22.	EXPLOSION VENT	1
21.	HV OUTDOOR BUSHINGS	3
20.	LIFTING LUGS FOR TANK COVER	2
19.	TRANSFORMER LIFTING LUGS	4
18.	AIR RELEASE PLUG	1
17.	INSPECTION HOLE	1
16.	4" DIAL TYPE THERMOMETER WITH MAX. DEMAND POINTER	1
15.	THERMOMETER POCKET	1
14.	UNDERBASE CHANNELS (100X50)MM	2
13.	EARTING TERMINALS M-12X40L	2
12.	OIL DRAIN CUM SAMPLING VALVE	1
11.	COOLING PSR RADIATORS 700C/CX300W-6FINS	4
10.	IDENTITY PLATE	1
9.	NAME & RATING PLATE	1
8.	PULLING LUGS	4
7.	L.V. BUSHING	4
6.	OIL FILTER VALVE-20MM GUN METAL	1
5.	CONSERVATOR PIPE	1
4.	OIL CONSERVATOR WITH DRAIN PLUG	1
3.	OIL LEVEL GAUGE	1
2.	DEHYDRATING BREATHER	1
1.	OIL FILLING HOLE WITH CAP	1

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

Title:- OUTLINE GENERAL ARRANGEMENT DRAWING OF 315KVA
 11/0.433KV ENERGY EFFICIENCY LEVEL-2 TRANSFORMER

DRN.	CUSTOMER	---
CKD.	SPEC. No.	---
APPD.	SCALE	N T S
DATE	DRG. No.	RPTPL/315KVA/002