



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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TEST REPORT

SHEET No. 1 of 10

NAME & ADDRESS OF CUSTOMER Rajasthan Powergen Transformer Pvt. Ltd. Khasra No. 911-914, Karola - Bhinmal Road, Sanchoe - 343041 RJ	REPORT NO.: RP-1718-058543 DATE : 22 Feb 2018	
	CUSTOMER REF NO. Nil	DATE 01 Jan 2018
	DATE OF SAMPLE RECEIPT 02 Jan 2018	DATE OF TESTING 18 Jan 2018 to 01 Feb 2018
	SAMPLE DESCRIPTION DISTRIBUTION TRANSFORMER (NON-SEALED TYPE) Make: RAJASTHAN POWERGEN TRANSFORMER PVT.LTD Rating: 16 kVA 11000 / 433 Volts 0.84 / 21.33 Amp. Vector Group: Dyn11 Energy efficiency level: 2 Further details as per sheet No. 2.	
SAMPLE IDENTIFICATION ERDA sample code number: ERDA-00234414 Manufacturer serial number: RPTPL-001 Year of manufacture: 2018 Enclosed drawing numbers: 1) RPTPL/RP16/01/02/18 2) RPTPL/RP16/02/02/18 3) RPTPL-GA-16-02-18 REV. NO. 00		
TEST DETAILS As per sheet 3.	TEST SPECIFICATION As per sheet 3.	
TEST RESULTS: As per sheets from 4 to 8		
ENCLOSURE: Photographs of test sample - As per sheets from 9 to 10		
REMARKS: 1) The transformer conforms to the guaranteed requirement as per above mentioned test specification for above mentioned test nos. 1, 2, 3, 4, 5. 2) Criteria limit has not been specified for test no. 6.		
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 10

REPORT NO.: RP-1718-058543		Date: 22 Feb 2018
TECHNICAL SPECIFICATIONS OF TEST OBJECT ASSIGNED BY CUSTOMER		
1	Name of manufacturer	RAJASTHAN POWERGEN TRANSFORMER PVT.LTD
2	Serial No.	RPTPL-001
3	kVA rating	16
4	Rated voltage H.V. (Volts)	11000
5	Rated voltage L.V. (Volts)	433
6	Rated current H.V. (Amp.)	0.84
7	Rated current L.V. (Amp.)	21.33
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)	135
16	Total losses at 100% load (Watts)	440
17	Guaranteed temperature rise of oil/winding	35°C /40°C
18	Year of manufacture	2018
19	Standard No.	IS: 1180 PART 1-2014 WITH AMENDMENT NO. 1 & 2, as per customer's requirement
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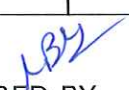
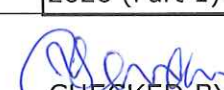
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SHEET No. 3 of 10

REPORT NO.: RP-1718-058543		Date: 22 Feb 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	Temperature-rise test	As per customer's requirement testing procedure followed as per cl.no.21.3.b of IS: 1180 PART 1-2014
3	Oil leakage test	As per cl.no.21.2.j of IS: 1180 PART 1-2014
4	Pressure test (routine test)	As per cl.no.21.2.h of IS: 1180 PART 1-2014
5	Pressure test (type test)	As per cl.no.21.3.d of IS: 1180 PART 1-2014
6	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 10

REPORT NO.: RP-1718-058543			Date: 22 Feb 2018	
Sr. No.	Particular of Tests & Cl.No.	Requirement as per Specification	Obtained Value	Remarks
1	<p>No load current at 112.5 percent voltage: (As per cl.no.21.4.c of IS: 1180 PART 1-2014)</p> <p>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.</p> <p>Test voltage (Volts) No load current (Amps) No Load Current (%)</p>	Max. 6.0	487.125 0.6246 2.928	Conforms
2	<p>Temperature-rise test (As per customer`s requirement testing procedure followed as per cl.no.21.3.b of IS: 1180 PART 1-2014)</p> <p>Before starting test, the dimensions of tank were measured & recorded.</p> <p>Size of tank: L-635 mm, W-250 mm, H-700 mm</p> <p>Losses fed for temperature-rise test were 440 Watts (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>			Conforms

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SHEET No. 5 of 10

REPORT NO.: RP-1718-058543			Date: 22 Feb 2018	
Sr. No.	Particular of Tests & Cl.No.	Requirement as per Specification	Obtained Value	Remarks
	At the shut down, the hot winding resistances were measured and temperature rise calculated. A) Top oil temperature-rise B) Winding temperature-rise (Resistance method) 			

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SHEET No. 6 of 10

REPORT NO.: RP-1718-058543			Date: 22 Feb 2018											
Sr. No.	Particular of Tests & Cl.No.	Requirement as per Specification	Obtained Value	Remarks										
	LV side 635 Side A 250 Side B 250 The transformer tank was subjected to vacuum of 250 mm of Mercury for 30 minutes. The permanent deflections of flat plates was recorded, after vacuum had been released. <table border="1"> <thead> <tr> <th>Deflection measured at</th> <th>Length of plate (mm)</th> </tr> </thead> <tbody> <tr> <td>HV side</td> <td>635</td> </tr> <tr> <td>LV side</td> <td>635</td> </tr> <tr> <td>Side A</td> <td>250</td> </tr> <tr> <td>Side B</td> <td>250</td> </tr> </tbody> </table> <div style="border: 1px solid black; padding: 10px; width: fit-content;"> <div style="text-align: center;">HV Side</div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div>Side A</div> <div>Side B</div> </div> <div style="text-align: center; margin-top: 20px;">LV Side</div> </div>	Deflection measured at	Length of plate (mm)	HV side	635	LV side	635	Side A	250	Side B	250	Max. 5.0 mm Max. 5.0 mm Max. 5.0 mm Max. 5.0 mm Max. 5.0 mm Max. 5.0 mm Max. 5.0 mm There should be no leakage at any point	0.5 mm 0.3 mm 0.3 mm 0.3 mm 0.3 mm 0.2 mm 0.2 mm No leakage observed	
Deflection measured at	Length of plate (mm)													
HV side	635													
LV side	635													
Side A	250													
Side B	250													
PREPARED BY 		CHECKED BY 												



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SHEET No. 7 of 10

REPORT NO.: RP-1718-058543			Date: 22-Feb-2018	
Sr. No.	Particulars of test and clause no.	Requirement as per specification.	Obtained value	Remarks
6	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: 17.96% Y-ph: 26.59% B-ph: 19.57% Voltage THD: R-ph: 0.85% Y-ph: 0.85% B-ph: 0.98%	---
<div> <div>Prepared by:</div> <div>Checked by:</div> </div>				

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REPORT NO.: RP-1718-058543

Date: 22-Feb-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	0.36	100.00	100.00	0.27	100.00	100.00	0.35	100.00
2	6.91	0.03	0.05	2.38	0.01	0.02	8.43	0.03	0.03
3	7.09	0.03	0.13	20.90	0.06	0.29	8.56	0.03	0.43
4	2.66	0.01	0.03	1.16	0.00	0.01	3.10	0.01	0.04
5	14.48	0.05	0.31	15.95	0.04	0.31	14.78	0.05	0.42
6	0.27	0.00	0.00	1.11	0.00	0.01	0.65	0.00	0.02
7	2.52	0.01	0.49	2.08	0.01	0.50	2.81	0.01	0.54
8	0.61	0.00	0.00	0.16	0.00	0.02	0.73	0.00	0.02
9	0.41	0.00	0.05	1.04	0.00	0.11	0.37	0.00	0.15
10	0.38	0.00	0.01	0.12	0.00	0.00	0.44	0.00	0.01
11	0.75	0.00	0.50	0.89	0.00	0.34	0.87	0.00	0.36
12	0.09	0.00	0.01	0.21	0.00	0.00	0.11	0.00	0.01
13	0.24	0.00	0.17	0.94	0.00	0.29	0.63	0.00	0.32
14	0.04	0.00	0.02	0.06	0.00	0.01	0.04	0.00	0.01
15	0.12	0.00	0.14	0.10	0.00	0.11	0.10	0.00	0.16
16	0.02	0.00	0.01	0.12	0.00	0.01	0.11	0.00	0.02
17	0.10	0.00	0.14	0.19	0.00	0.12	0.13	0.00	0.07
18	0.05	0.00	0.02	0.07	0.00	0.02	0.03	0.00	0.02
19	0.36	0.00	0.19	0.42	0.00	0.19	0.10	0.00	0.07
20	0.04	0.00	0.02	0.08	0.00	0.02	0.03	0.00	0.01
21	0.10	0.00	0.09	0.16	0.00	0.05	0.20	0.00	0.11
22	0.04	0.00	0.01	0.03	0.00	0.02	0.02	0.00	0.01
23	0.06	0.00	0.02	0.19	0.00	0.06	0.13	0.00	0.06
24	0.09	0.00	0.04	0.10	0.00	0.03	0.07	0.00	0.03
25	0.10	0.00	0.06	0.09	0.00	0.06	0.07	0.00	0.02
THD %	17.96		0.85	26.59		0.85	19.57		0.98
Parameter measured	0.37 A		435.48 V	0.28 A		436.65 V	0.36 A		433.21 V

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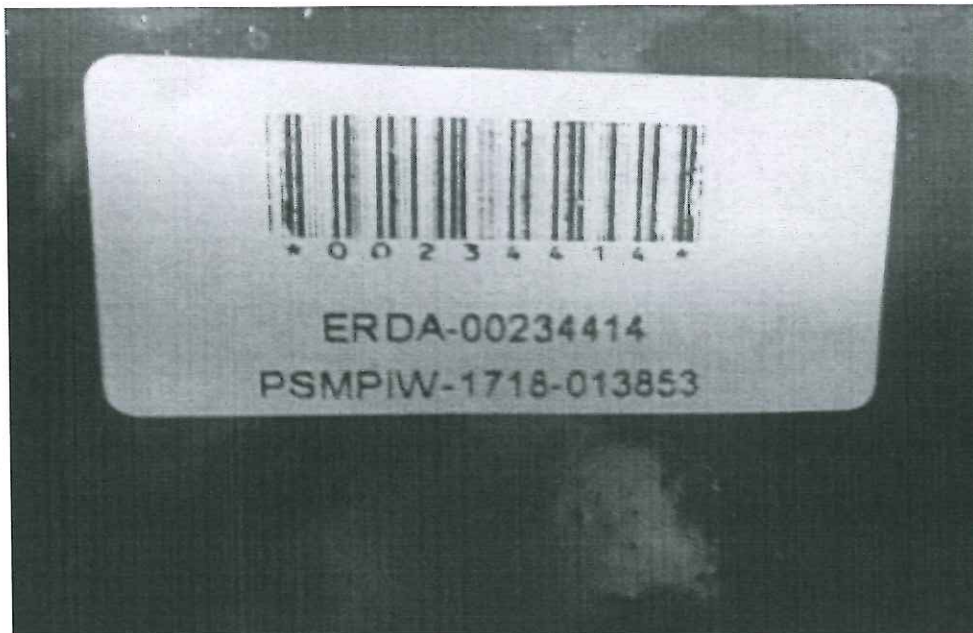


SHEET No. 9 of 10

REPORT NO.: RP-1718-058543

Date: 22 Feb 2018

PHOTOGRAPHS OF TEST SAMPLE



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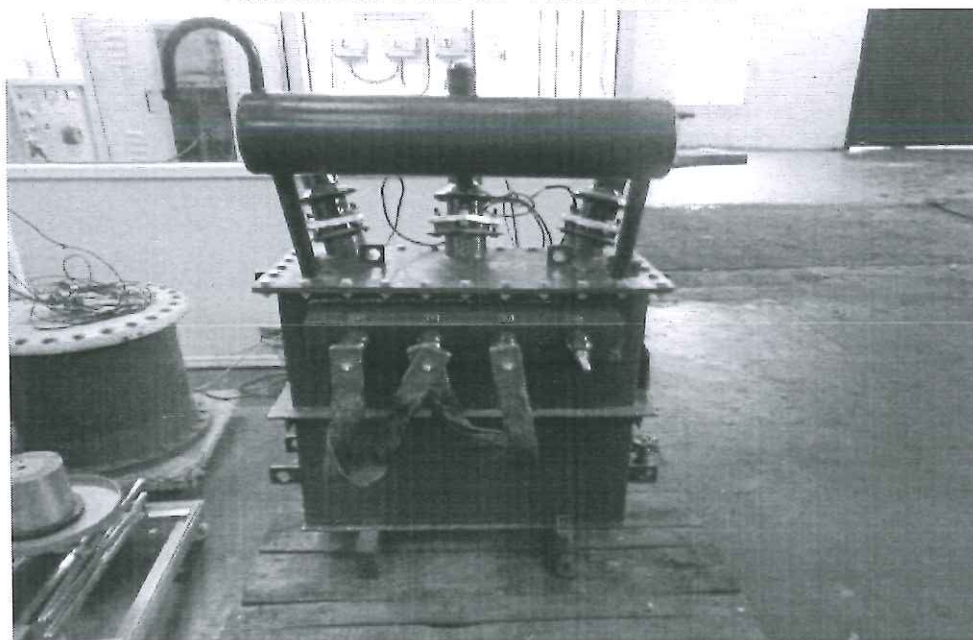


SHEET No. 10 of 10

REPORT NO.: RP-1718-058543

Date: 22 Feb 2018

PHOTOGRAPHS OF TEST SAMPLE



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DISTRIBUTION TRANSFORMER			
RAJASTHAN POWERGEN TRANSFORMER PVT.LTD			
BHINMAL-KAROLA ROAD KAROLA SANCHORE RAJASTHAN. (INDIA)			
IS: 1180		PART-I CM/L-8400030105	
3 PHASE TRANSFORMER			
STANDARD	IS:1180 (2014)	ENERGY EFFICIENCY LEVEL	2
KVA	16	MAX. TOTAL LOSSES AT 50% RATED LOAD W	135
VOLTS AT NO LOAD	HV 11000 LV 433	MAX. TOTAL LOSSES AT 100% RATED LOAD W	440
BIL	HV 75 KVP / 78 KV rms LV - / 3 KV rms	TYPE OF COOLING	ONAN
AMPERES	HV 0.84 LV 21.33	TEMP RISE OIL DEG C	35
FREQUENCY	50 Hz	TEMP RISE WDG DEG C	40
VECTOR GROUP REF.	Dyn-11	MASS OF OIL KGS	70
IMPEDANCE VOLT %	4.5	TOTAL MASS KGS	303
TAPPING	-	VOL. OF OIL L	82
FOR HV VARIATION		MONTH & YEAR OF MFG.	2018
IN STEP FROM TO %		SERIAL NO.	RPTPL-01
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.	

REV. NO.	DATE SIGN	BRIEF DESCRIPTION	DRG. NO. RPTPL/RP16/01/02/18	REV. NO.
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Test Report No.: RP-118-058543
Date: 22-2-18
Product: 16 KVA 20mV
Verified By: [Signature]
Verification of this drawing by PRC is limited to relevant dimensions only. Unverified dimensions are marked with a star.



1	2	3	4	5
A				
B				
C				C
D				D
E				E
F				F
G				G
H				H

SIZE: 105x105 mm HOLE CENTER: 95x95 mm

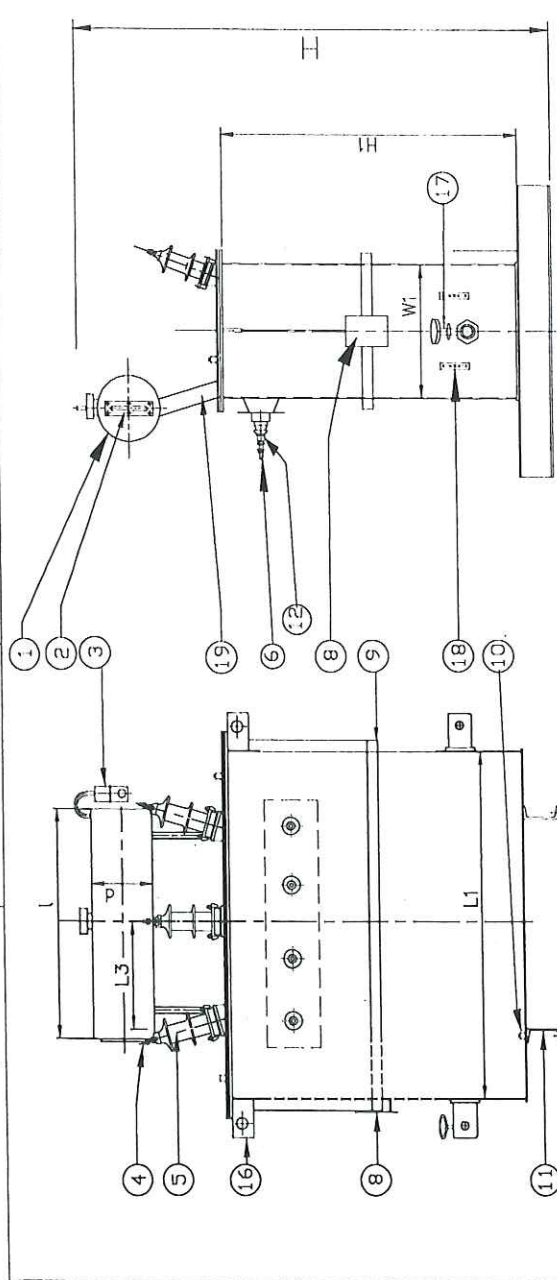
NOTE:
 * SERIAL NO, ACTUAL IMPEDANCE(%) VOLTAGE, YEAR OF MANUFACTURE & MONTH OF MANUFACTURE WILL BE PUNCHED AT THE TIME OF DESPATCH
 MATERIAL : ANODISED ALUMINIUM SHEET
 THICKNESS : 0.9 mm

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.		
REV. NO. DATE SIGN BRIEF DESCRIPTION		DRG. NO. RPTPL/RP16/02/02/18	REV. NO.
1	2	3	5

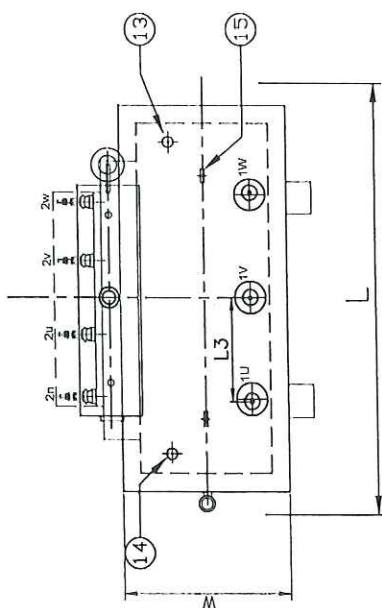
Test Report No.: RP-1718-058543
 Date: 22-2-18
 Product: 16 KVA 11/0.433 KV
 Verified By: J.P.C.
 Verification of this drawing by TQA is limited to relevant dimensions only. All other dimensions are marked with 100%



1	2	3	4	5	6	7
ACCESSORIES		TECHNICAL DETAILS				
S.R.NO.	QTY.	AS PER SPECIES PER OFFER				
1	CONSERVATOR (130) WITH OIL FILLING HOLE (32mm) WITH CAP & DRAIN PLUG (12 mm)	1	M.S.	1	M.S.	M.S.
2	CC. LVCC GAUGE WITH 3 POSITION (-5%, -20% & 90%)	1	AL DYE CASTAL DYE CAST	1	AL	AL
3	SUCAGEL BREATHER (500 Grams.)	1	BRASS	3	BRASS	BRASS
4	H.V. TERMINAL 12mm DIA WITH NUT	3	PORCELAN	3	PORCELAN	PORCELAN
5	H.V. BUSHING	4	BRASS FINED	4	BRASS FINED	BRASS FINED
6	L.V. TERMINAL 12 mm DIA	1	---	1	---	N.A.
7	COOLING RADIATOR n.n. THICK	1	ANGCISED	1	ANGCISED	ANGCISED
8	RATING ATERNUAL MARKING PLATE	1	M.S.	4	M.S.	M.S.
9	REN-FORCING ANGLE SIZE (40x45x6 mm)	2	M.S.	2	M.S.	M.S.
10	EARTHING TERMINAL WITH LUGS SIZE (16 mm)	2	M.S.	2	M.S.	M.S.
11	BASE CHANNELS 75x45x45mm LONG	4	PORCELAN	4	PORCELAN	PORCELAN
12	L.T. BUSHING 1.1KV/250A	1	M.S.	1	M.S.	M.S.
13	THERMOMETER PROBEET	1	M.S.	1	M.S.	M.S.
14	AIR RELEASE PLUG	2	M.S.	2	M.S.	M.S.
15	LIFTING LUGS FOR COVER (8 mm)	2	M.S.	2	M.S.	M.S.
16	LIFTING LUGS FOR TANK WITH FLAT (8 mm)	1	M.S.	1	M.S.	M.S.
17	DRAIN VALVE	4	M.S.	4	M.S.	M.S.
18	PULLING LUG (8 mm)	2	M.S.	2	M.S.	M.S.
19	CONSERVATOR PIPE (430mm Vx)	2	M.S.	2	M.S.	M.S.
COOLING DETAILS						
1	TOTAL SURFACE AREA : 1239 mm ²	N.A.	N.A.			
2	TOTAL NUMBER OF COOLING TUBES	N.A.	N.A.			
3	L X B X H OF TUBE	N.A.	N.A.			
WEIGHTS IN KGS.						
1	CORE	70	DIMENSIONS IN m.m.			
2	WINDINGS	35	TRANSFORMER OVERALL			
3	TANK&FITTINGS with oil excess	128	L =	860		
4	OIL	70	W =	570		
5	TOTAL WEIGHT	303	H =	1270		
6	THICKNESS IN m.m.	3.15	L1 =	635		
7	TANK SIDE PLATES (MIN.)	5	W1 =	250		
8	TOP & BOTTOM PLATES (MIN.)	5	H1 = (AVG.)	700		
9	TOLERANCE	cs per spec	BUSHING CLEARANCES WITH ANGLE			
10	T/F OIL QUANTITY	cs per spec	L3 (H.V.) 255 PHASE TO PHASE			
11	MAIN TANK DIMENSIONS	cs per spec	L4 (L.V.) 75 PHASE TO PHASE			
12	OVERALL DIMENSIONS	+/- 5 %	L5 (H.V.) 140 PHASE TO EARTH			
13	DIMENSIONS OF CONSERVATOR	130	L6 (L.V.) 40 PHASE TO EARTH			
14	INSIDE DIAMETER IN mm.	600	BUSHING HEIGHT IN mm			
15	LENGTH IN mm.	7				
16	CAPACITY IN LTRS.	7				
ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE STATED.						
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				
SCALE	01.01.2018	DRG. NO.				
SCALE	01.01.2018	RPTPL-GA-16-02-18				
SCALE	01.01.2018	REV. NO.				
SCALE	01.01.2018	00				
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						
SIGNATURE OF AUTHORISED PERSON & STAMP OF THE FIRM						
REV. DATE & NO. SIGN						
BRIEF DESCRIPTION						



ELEVATION



PLAN

SIDE VIEW

Test Report No.: RP-1708-058503
Date: 22-2-18
Product: 16 KVA oil cooled
Verified By: [Signature]
Verification of this drawing by E.R.A. is limited to relevant dimensions marked only. All dimensions are marked with 1/3.



1 SHAPE OF TANK: RECTANGULAR SHAPE
2 PAINT: AS PER IS
3 ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
NOT PROVIDED DURING TESTING