




# ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

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## TEST REPORT

Sheet 1 of 5

<b>NAME &amp; ADDRESS OF CUSTOMER</b>  Rishabh Instruments Pvt. Ltd. F - 31, MIDC, Satpur, Nashik - 422 004.	<b>REPORT NO.</b> T.03/11/020-1 <b>DATE</b> : 18.05.2006	
	<b>CUSTOMER REF. NO.:</b> Email dtd.06.03.2006	
	<b>DATE OF SAMPLE RECEIPT</b> 04.05.2006	<b>DATE OF TESTING</b> 04.05.2006 to 18.05.2006
	<b>SAMPLE DESCRIPTION</b>  High Voltage Insulation Tester. Make:RISHABH Model: Rish Insu 5000 A/AK Range: 100 k - 100 M ohm , 100 V,250 V , 500 V,1000 V,1500 V , 2000 V , 2500 V , 5000 V. 10 k- 1 Tohm , 100 V,250 V , 500 V,1000 V,1500 V 2000 V , 2500 V , 5000 V. 0- 2500 V AC/DC (Measure) Accuracy: ± 2.5 % of Scale Length 100 k-100 M ohm, 100 V, 250 V, 500V,1000 V , 1500 V , 2000 V 2500 V , 5000 V. ± 5 % of Scale Length 10 k-1 T ohm, 100 V, 250 V, 500V,1000 V,1500 V,2000 V , 2500 V, 5000 V. Sr No :050194 Scale length : 111.5 mm Meter Size:24 X 24 X 16 Qty : 1 no	
<b>SAMPLE IDENTIFICATION</b>  ERDA Id. No: TDCCALWO 004762-1		
<b>TEST DETAILS</b>  As per sheet no. 2 of 5		
<b>TEST SPECIFICATION</b>		
 <b>PREPARED BY</b>	 <b>CHECKED BY</b>	 <b>APPROVED BY</b>

- Note: 1. This report relates only to the particular sample received in good condition for testing at ERDA.  
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.

T.03/11/020-1



Nº 1362868

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TEST DETAILS	TEST SPECIFICATION
1. Dry Heat Test. 2. Dry Cold Test. 3. Damp Heat Cycling Test. 4. Error due to variation of level. 5. Error due to stray field .	Test procedure as per IS 2992 : 1987 and as per customer requirement  Clause no.11.11  Clause no.11.12  Clause no.11.13  Clause no.11.6.1  Clause no. 11.6.4
 PREPARED BY	 CHECKED BY

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Sr. No.	Particulars of test and clause no.	Requirement as per specification.	Obtained value	Remarks
1.	Dry Heat Test.  [Test procedure as per clause no 11.11 of IS 2992 : 1987 and as per customer requirement.]	<p>The test shall be carried out in accordance with IS:9000 (Part 3/ Sec 1 to 4 ) -1977, the meter shall be subjected to a temperature of <math>55\pm 3^{\circ}\text{C}</math> for a period of 24 hours.</p> <p>After recovery period of 24 hours , the error shall be within the limits specified as per clause no. 9.</p> <p>The deviation of the pointer from the true value marked shall be within <math>\pm 5\%</math> in the first effective range and <math>\pm 10\%</math> in the second effective range</p> <p>The deviation of the pointer at the infinity and zero or minimum value marked shall not exceed <math>\pm 0.7\%</math> of the scale length.</p>	<p>The deviation of the pointer observed was within <math>\pm 5\%</math> of first effective range and within <math>\pm 10\%</math> of second effective range.</p> <p>The deviation of pointer observed was less than <math>\pm 0.7\%</math> of the scale length.</p>	Conforms

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Sr. No.	Particulars of test and clause no.	Requirement as per specification.	Obtained value	Remarks
2.	Dry Cold Test. [Test procedure as per clause no 11.12 of IS 2992 : 1987 and as per customer requirement.]	<p>This test shall be carried out in accordance with IS:9000 (Part 2 /Sec 1 to 3)- 1977. The meter shall be subjected to a temperature of <math>-10^{\circ}\pm 3^{\circ}</math> C for a period of 24 hours .</p> <p>After a recovery period of 24 hours the limits of error shall not exceed the values specified in clause no. 9.</p> <p>The deviation of the pointer from the true value marked shall be within <math>\pm 5</math> % in the first effective range and <math>\pm 10</math> % in the second effective range</p> <p>The deviation of the pointer at the infinity and zero or minimum value marked shall not exceed <math>\pm 0.7</math> % of the scale length.</p>	<p>The deviation of the pointer observed was within <math>\pm 5</math> % of first effective range and within <math>\pm 10</math> % of second effective range.</p> <p>The deviation of pointer observed was less than <math>\pm 0.7</math> % of the scale length.</p>	Conforms
3.	Damp Heat Cycling Test. [Test procedure as per clause no 11.13 IS 2992 : 1987 and as per customer requirement.]	<p>This test shall be carried out in accordance with IS:9000 (Part 5 /Sec 1)- 1981. The number of cycles shall be 2 and after a recovery period of 24 hours the test shall be carried out for a period of <math>16 + 8</math> h cycles, and the error shall not exceed the limits specified in clause no. 9.</p>		Conforms

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Sr. No.	Particulars of test and clause no.	Requirement as per specification.	Obtained value	Remarks
		The deviation of the pointer from the true value marked shall be within $\pm 5\%$ in the first effective range and $\pm 10\%$ in the second effective range.  The deviation of the pointer at the infinity and zero or minimum value marked shall not exceed $\pm 0.7\%$ of the scale length.	The deviation of the pointer observed was within $\pm 5\%$ of first effective range and within $\pm 10\%$ of second effective range.  The deviation of pointer observed was less than $\pm 0.7\%$ of the scale length.	
4.	Error due to variation of level. [Test procedure as per clause no 11.6.1 IS 2992 : 1987 and as per customer requirement.]	A change of 5 degrees in the level of the tester, in any direction, shall not results in the deviation of the pointer from its initial position exceeding 0.5 mm.	The deviation of the pointer from its initial position was found less than 0.5 mm.	Conforms
5.	Error Due Stray Field. [Test procedure as per clause no 11.6.4 of IS 2992 : 1987 and as per customer requirement.]	The error of the tester at the central mark shall not exceed $\pm 5$ percent of the indicated value when the tester is exposed to a magnetic field produced by 400 ampere- turns (dc) in a coil of one meter diameter The tester shall be so placed as to make the influence of the field maximum.	The error of the tester observed was less than $\pm 5$ percent of the indicated value at the central mark.	Conforms

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