



# 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

SHEET No.: 1 OF 3

<b>NAME &amp; ADDRESS OF CUSTOMER</b>  <b>M/s. RISHABH INSTRUMENTS PVT. LTD.</b> F-31 M. I. D. C., Satpur, Nashik - 422 007.	<b>TEST REPORT No.:</b> HIMP/03/1234-1 <b>DATE</b> : 12/12/2011	
	<b>CUSTOMER REF. No.</b> NIL	<b>DATE</b> 12/12/2011
	<b>DATE OF SAMPLE RECEIPT</b> 12/12/2011	<b>DATE OF TESTING</b> 12/12/2011
	<b>SAMPLE IDENTIFICATION</b>  <b>SERIAL No.</b> : 001  <b>ERDA SAMPLE CODE No.</b> : HIMPWO 0098644/01  <b>TYPE</b> : Rish CT TW-1  <b>MAKE</b> : M/s. Rishabh Instruments Pvt. Ltd.	
<b>SAMPLE DESCRIPTION</b>  <b>ENCAPSULATED ROUND LT CURRENT TRANSFORMER</b>  N. S. V. : 0.6 kV M. S. V. : 0.66 kV Ratio : 50/5 A Burden : 2 VA Class : 2 B. I. L. : 4 kVrms / 10 kVp Frequency : 60 Hz Customer : Grainger Year of Mfg. : 2011	<b>ENCLOSURE:</b> <b>Drg. No.:</b> 001  <b>TEST SPECIFICATION:</b> As per IEEE Std C57.13-2008	
<b>TEST DETAIL:</b>  <b>LIGHTNING IMPULSE VOLTAGE WITHSTAND TEST.</b>		
<b>TEST WITNESSED BY:</b> Mr. Ishwar T. Ghyar - M/s. Rishabh Instruments Pvt. Ltd.		
<b>REMARKS:</b> From the observation of the enclosed oscillographic records, it is concluded that the above sample <b>CONFORMS</b> to the requirements of aforesaid reference standard with respect to the test carried out.		
R. J. Mistrey <b>PREPARED BY</b>	 <b>CHECKED BY</b>	 <b>APPROVED BY</b>
<b>NOTE:</b> 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 tests asked for by customer have been carried out.		



Certificate No. : T-0071

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**TEST REPORT No.:** HIMP/03/1234-1

**SHEET No.:** 2 OF 3

**DATE** : 12/12/2011

## LIGHTNING IMPULSE VOLTAGE WITHSTAND TEST.

(As per IEEE Std C57.13-2008, Cl. No.: 8.8.5)

**Atmospheric condition :** Dry bulb temperature : 26.0 °C  
Wet bulb temperature : 21.0 °C  
Atmospheric Pressure : 752.7 mm of Hg.

### TEST PARAMETERS:

No. of shots applied: One reduced full wave, Two chopped waves, One full wave  
(+ve Polarity)

No. of shots recorded : 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, & 4<sup>th</sup> shot

Sr. No.	Impulse Voltage Applied To	Earth Connected To	Pulse Applied	No. Of Shots Applied	Polarity	Peak Magnitude (kVp)	Report Sheet No.
1.	Primary side	Secondary & Body	Reduced full wave	One	Positive	6.058	3 OF 3
2.	Primary side	Secondary & Body	Chopped waves	Two	Positive	12 ± 3%	3 OF 3
3.	Primary side	Secondary & Body	Full wave	One	Positive	10 ± 3%	3 OF 3

R. J. Mistry  
**PREPARED BY**



*[Signature]*  
**CHECKED BY**

TE 0829081



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Certificate No. : T-0071

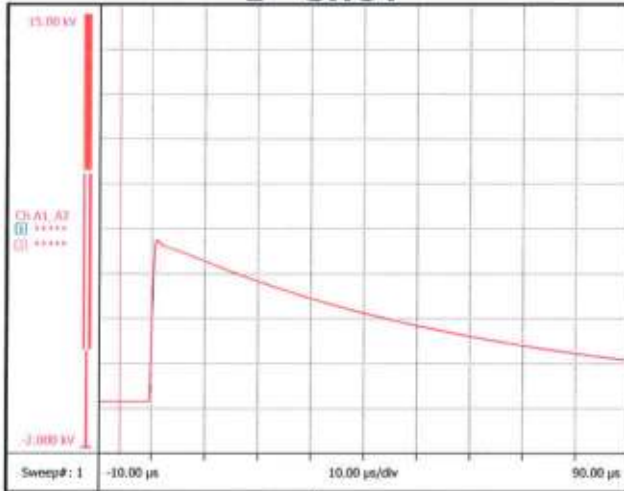
**TEST REPORT No.:** HIMP/03/1234-1  
**DATE** : 12/12/2011

**SHEET No.:** 3 OF 3

**LIGHTNING IMPULSE TEST ON CURRENT TRANSFORMER**

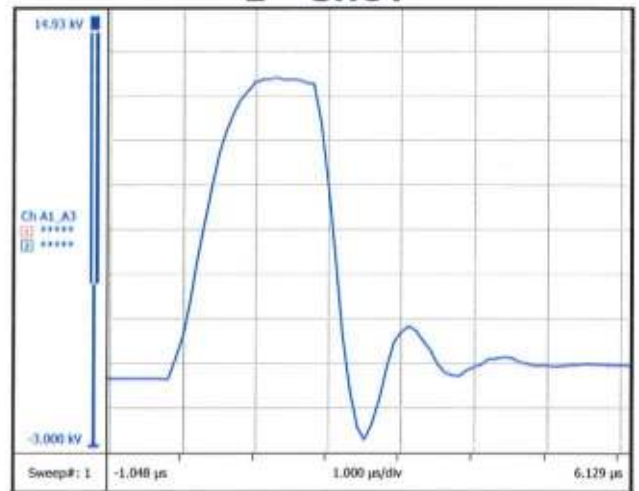
**POSITIVE POLARITY**

**1<sup>ST</sup> SHOT**



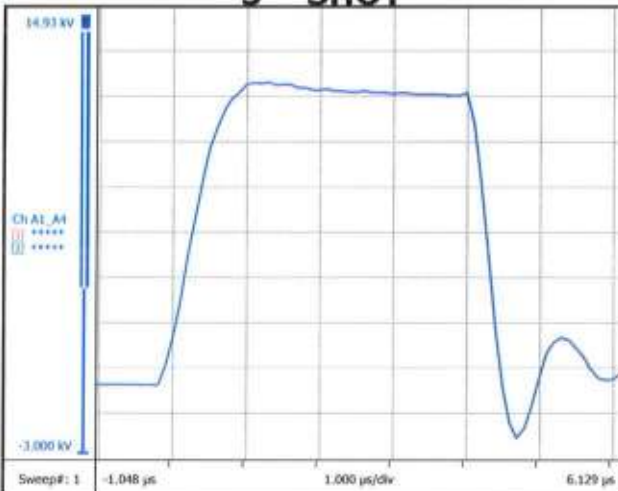
T1 1.212 μs	T2 47.12 μs
Up 6.058 kV	

**2<sup>ND</sup> SHOT**



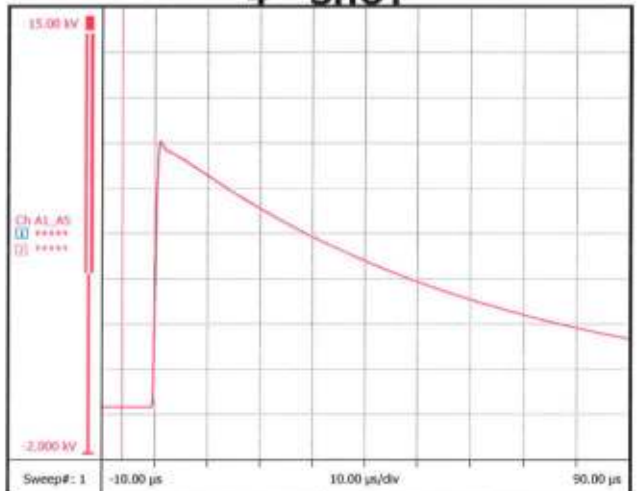
Tc 2.026 μs
Up 12.04 kV

**3<sup>RD</sup> SHOT**



Tc 4.117 μs
Up 11.89 kV

**4<sup>TH</sup> SHOT**



T1 1.209 μs	T2 47.09 μs
Up 9.901 kV	

TE 0829363

*R. J. Mishra*  
**PREPARED BY**



*Jao*  
**CHECKED BY**

