

CPRI

TEST REPORT



Central Power Research Institute

**(A Govt. of India Society,
P.B. No. 8066, Sadashivanagar, S.P.O.
Prof. Sir. C.V. Raman Road,
Bangalore - 560 080**



CPRI

HIGH VOLTAGE DIVISION
CENTRAL POWER RESEARCH INSTITUTE
P.B. NO. 8066, SADHASHIVNAGAR SUB P.O.
Prof. SIR. C.V. RAMAN ROAD, BANGALORE - 560 080, INDIA.
Phone : +91 (0)80-23601917 Fax : +91 (0)80-23601917



NABL Accredited
Laboratory
Certificate No. T-0010

MEMBER STL

Sheet 1 of 3

TEST REPORT

Test Report Number : No.43/1/2010-HV/7678/KEPL **Dated:** 02-03-2010

Name & Address of the Customer : M/s. Krishna Energy Pvt Ltd,
DP-69, Sidco Industrial Estate,
Thirumudivakkam, Chennai-44.
Ref: Nil **Dated:** 10-02-2010

Name & Address of the Manufacturer : M/s. Krishna Energy Pvt Ltd,
DP-69, Sidco Industrial Estate,
Thirumudivakkam, Chennai-44.

Particulars of sample tested

Condition of the sample on Receipt : New.

Type : Resin Cast (Indoor).

Designation : 11kV Resin Cast Wound Primary Current Transformer.

Serial Number : 314/10.

Number of samples tested : One.

Date (s) of Test (s) : 10-02-2010.

CPRI sample code no(s). : HVML 2010 S0115.

Particulars of tests conducted : Lightning Impulse Voltage Withstand Test.

Test in accordance with Standard / specification : IS 2705/(Part I)1992 RA 2007.

Sampling plan : Not Applicable.

Customer's requirement : Nil.

Deviations if any : Nil.

Name of the witnessing persons

Customer's representative : Mr. K.S Suresh Kumar, Manager Production.
Mr.P.Ramachandran, Manager R&D.

Other than customer's representatives : None.

Test subcontracted with address of the laboratory : None.

Documents constituting this report (In words)

Number of sheets : Three.

Number of oscillogram/s : Twelve.

Number of graphs : Nil.

Number of photos : Nil.

Number of test circuit diagrams : Nil.

Number of drawings : One. {Drawing No.KEPL-11RCT-001 }.


(K.R.DASHARATHI)
Test Engineer


(P.V.VASUDEVAN NAMBU DIRI)
Additional Director

AUTHORISED SIGNATORIES



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Test Report No. No.43/1/2010-HV/7678/KEPL

Dated: 02-03-2010

1. LIGHTNING IMPULSE VOLTAGE WITHSTAND TEST

Wave Type	Shot No.	Positive Polarity		Negative Polarity		Remark
		Test Voltage KV (Peak) *	Osc. No.	Test Voltage KV (Peak) *	Osc. No.	
RFW	-	53	007	53	001	Withstood
FW(1 st shot)	1	75	008	75	002	Withstood
FW(5 th shot)	2	75	012	75	006	Withstood

Note: RFW - Reduced Full Wave, FW - Full Wave.

* These voltages are applied under ambient conditions which are as given below:

Temperature in Degree Celsius		Atmospheric Pressure in mm of Hg
Dry	Wet	
* 25	20	683

(K.R.DASHARATHI)
Test Engineer



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Sheet 3 of 3

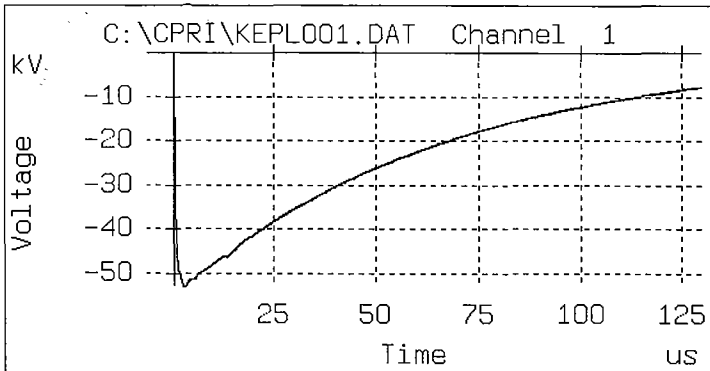
Test Report No.43/1/2010-HV/7678/KEPL

Dated: 02-03-2010

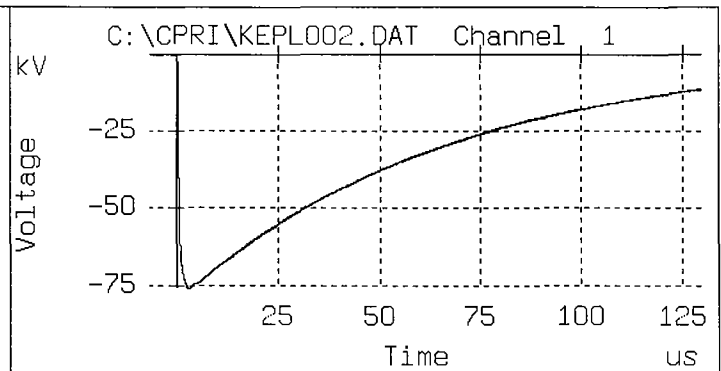
NOTE:

- a) The test results relate only to the items tested.
- b) Publication or reproduction of this report in any form other than by complete set of the whole report and in the language written is not permitted without the written consent of CPRI.
- c) Any Corrections/erasures invalidate this test report/certificate.
- d) Any anomaly/discrepancy in this test report/certificate should be brought to our notice within 45 days from the date of issue.
- e) The verification of the sample drawings by CPRI is limited to dimensional checks only wherever possible.

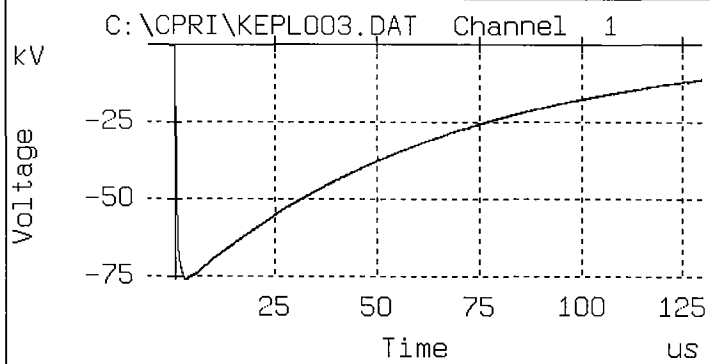
(K.R.DASHARATHI)
Test Engineer



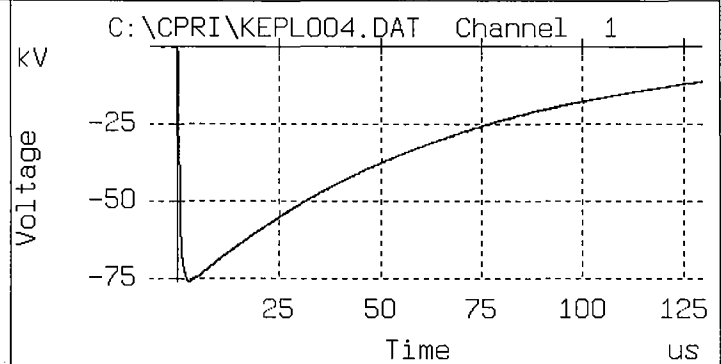
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-52.95kV T1=1.12us T2=49.2us



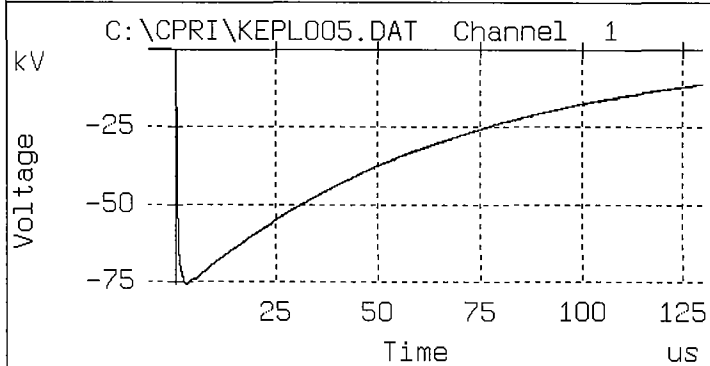
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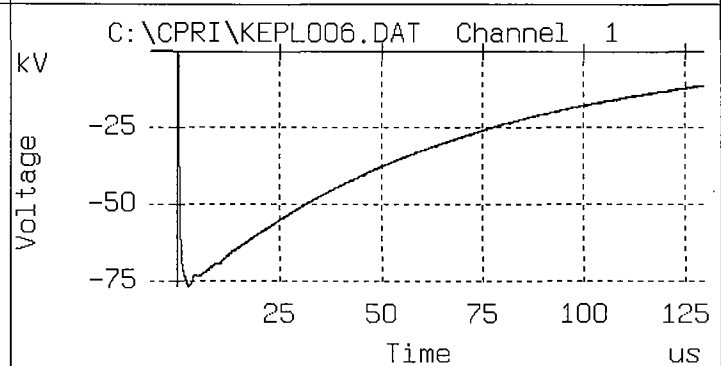
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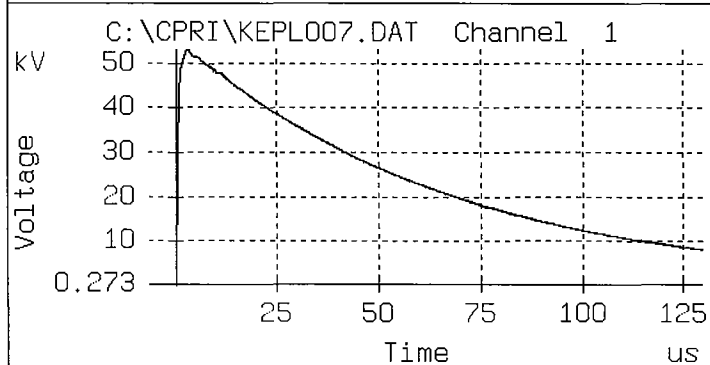
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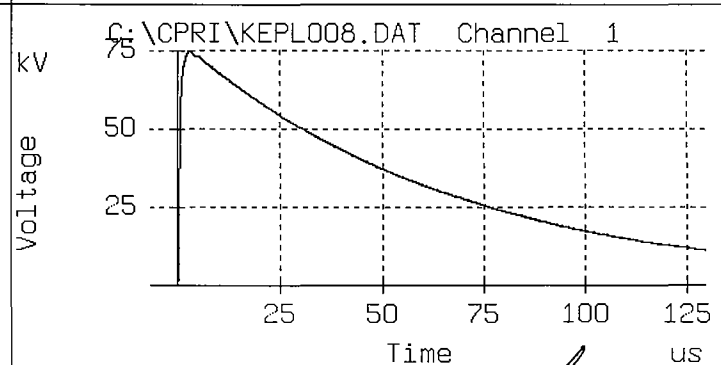
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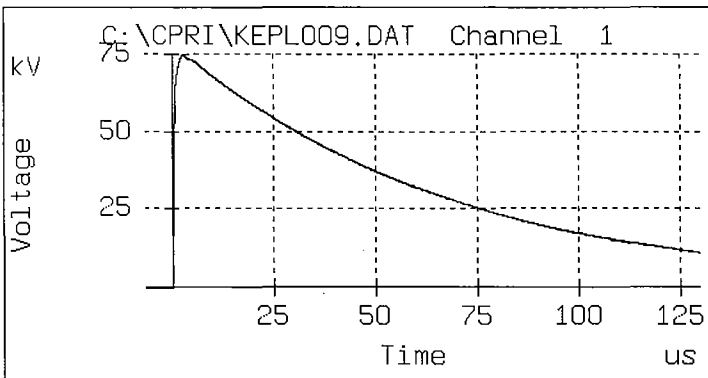
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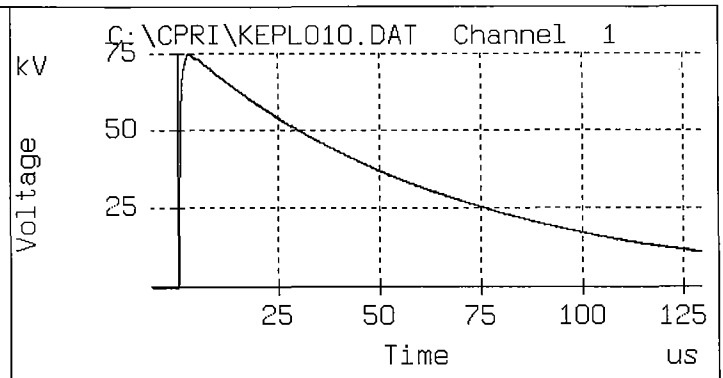
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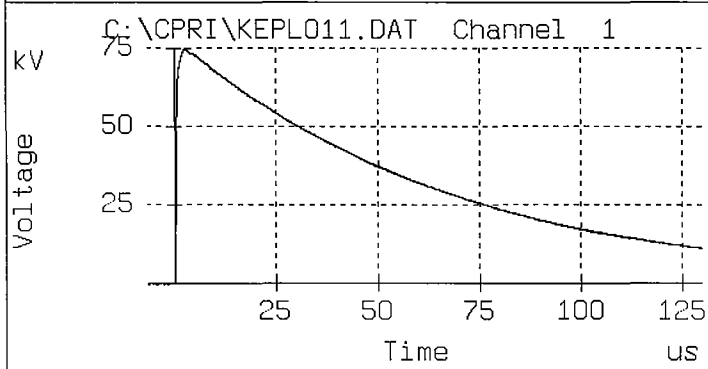
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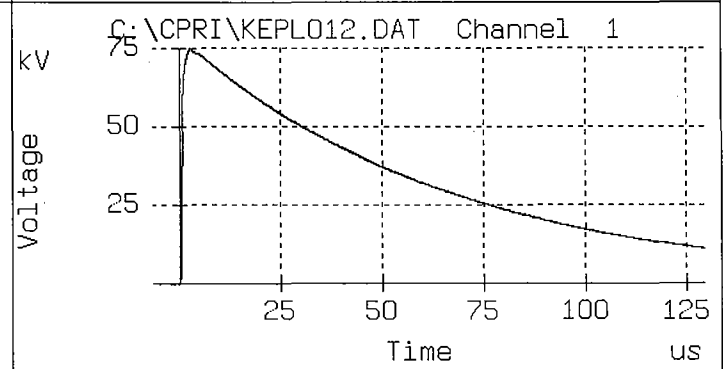
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75.08kV T1=1.3us T2=49.8us



100% LI full
75.12kV T1=1.29us T2=49.8us

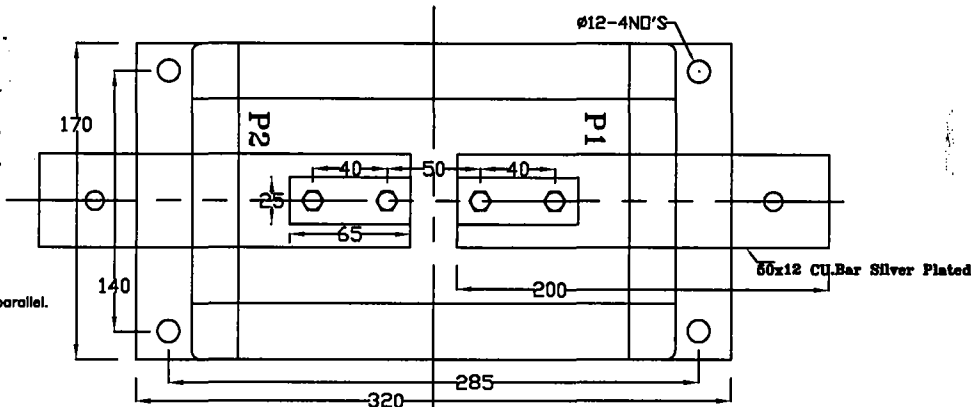
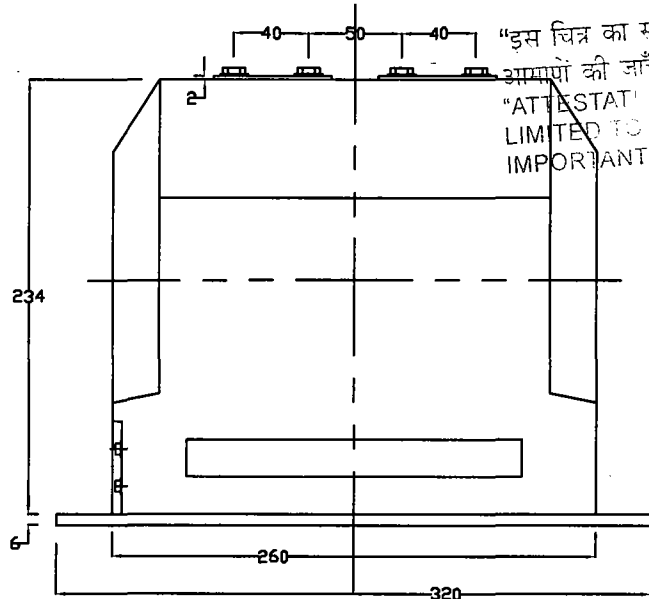
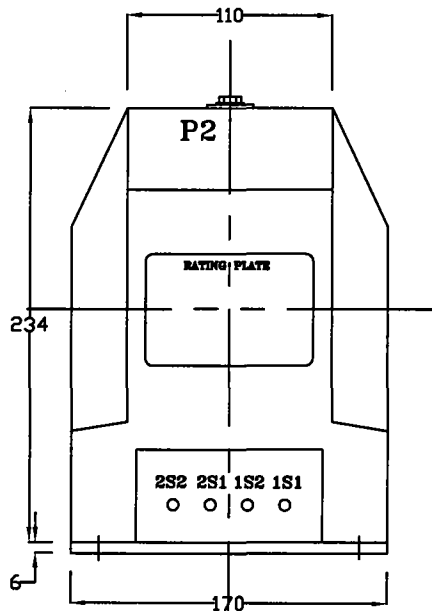


100% LI full
75.08kV T1=1.28us T2=49.8us



100% LI full
75.04kV T1=1.3us T2=49.8us

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यह चित्र परीक्षण प्रस्ताव सं. 43/1/.....
 एच.बी.के. प्रा. लि. में
 THIS DRAWING PERTAINS TO REPORT
 43/1/2010..... 7678/KEPL.....
 Dated..... 02/03/2010.....

WINDING DETAIL'S:

Primary Winding :-
 2 - Turns 20x1 (240Sq.mm) Electrolyte Copper strip 12 in parallel.
 Covered with Polyester Film & Polyester Tape

Secondary Windings:-
 Metering :- 60 Turns, 18 swg 3 in Parallel Super Enameled
 Copper Conductor.
 Protection :- 60 Turns, 14 swg single Parallel Super Enameled
 Copper Conductor.

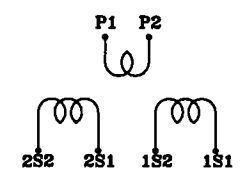
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 आपसों की जांच से सीमित है।
 “ATTESTATION OF THIS DRAWING IS
 LIMITED TO THE CHECKING OF
 IMPORTANT DIMENSIONS ONLY”

RATING PLATE

CURRENT TRANSFORMER	
RATIO : 150 / 5-5A	BURDEN :
SYSTEM VOLTAGE : 11 KV	CORE I : 15 VA/CL 0.5
ILV : 12/28/75	CORE II : 15 VA/CL 5p10
STR : 25 KA/ 3 SEC	FREQ, : 50 Hz
SL.NO. : 314/10	IS2705/1992/IEC 60044-1
MFD.BY : KRISHNAA ENERGY PVT LTD., CHENNAI - 44	

इंजीनियरी अधिकारी
 ENGINEERING OFFICER
 सी पी एन आई/CPRI
 बेंगलूर/ BANGALORE-560 080

CONNECTION DIAGRAM



TYPE: INDOOR RESIN CAST		QTY: -		ALL DIMENSION ARE IN mm		TITLE: 11 KV WOUND PRIMARY CURRENT TRANSFORMER		SCALE : NTS	
0		BJM	K.S.S.KK.S.S.K		21/9/08	MFG BY: KRISHNAA ENERGY PRIVATE LIMITED., DP:69, SIDCO Industrial Estate, Thirumudivakkam, Chennai-44 www.krishnaenergy.net		 SHT.No. 1 OF 1 DRAWING No. KEPL-11RCT-001	
REV.	DATE	DESCRIPTION	DRAWN	CHD.	APPD.	SIGN	DATE.		
CUSTOMER : -									

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