

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

MEMBER STL



NABL Accredited
Laboratory
Certificate No. T-0010

Sheet 1 of 4

TEST REPORT

Test Report Number : No.43/1/2011-HV/9269/KEPL **Dated:** 07/06/2011.

Name & Address of the Customer : M/s. Krishna Energy Pvt Ltd,
DP - 69, SIDCO Industrial Estate,
Thirumudivakkam, Chennai - 600 044.
Ref: Nil **Dated:** 06/06/2011.

Name & Address of the Manufacturer : M/s. Krishna Energy Pvt Ltd,
DP - 69, SIDCO Industrial Estate,
Thirumudivakkam, Chennai - 600 044.

Particulars of Sample tested.
Condition of sample on Receipt. : New.
Type : Nil.

Designation : 11kV, 630A, 16 kA/3 Sec, 3 Phase Outdoor Vacuum Circuit
Breaker Panel (without CT, PT).

Serial Number : Nil.

Number of samples tested : One.
Date(s) of Test(s) : 06/06/2011.
CPRI Sample Code Number : HVML2011S0383.

Particulars of tests conducted : 1) Power frequency voltage withstand test (Dry).
2) Power frequency voltage withstand test (Wet).

Test in accordance with standard/Specification. : IEC 62271-200/2003-11.

Sampling plan : Not Applicable.
Customer's requirement : Test Voltage.
Deviations if any : Test Voltage.

Name of the witnessing persons
Customer's representatives : Mr. P.Ramachandran, Manager R&D.
Other than Customer's representatives : None.
Test/subcontracted with : None.
Address of the laboratory. : None.

Documents constituting this report (In words).
Number of Sheets : Four.
Number of oscillogram/s : Nil.
Number of graphs : Nil.
Number of photo/s : Nil.
Number of Test Circuit Diagrams : Nil.
Number of Drawings : Three. {Drawing Nos. 1) KE - JVVNL - 65 REV.0.
2) KEVCB - 11 - 205 &
3) KEPL - P - 001.}

(Signature)
13.06.11
(U.R. SHESHAGIRI RAO)
Test Engineer



(Signature)
13/6/11
(Dr.R.S.SHIVAKUMARA ARADHYA)
Additional Director



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Sheet 2 of 4
Dated: 07/06/2011.

Test Arrangement for the Tests:

Test Arrangement	Breaker Position	H.V. connected to	Earth connected to
1	Closed	Aa	BCbcF
2	Closed	Bb	ACacF
3	Closed	Cc	ABabF
4	Open	A	BCabcF
5	Open	a	ABCbcF
6	Open	B	ACabcF
7	Open	b	ABCacF
8	Open	C	ABabcF
9	Open	c	ABCabF


(U.R. SHESHAGIRI RAO)
Test Engineer



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Sheet 3 of 4

Test Report No.43/1/2011-HV/9269/KEPL

Dated: 07/06/2011.

1. Power Frequency Voltage Withstand Test (Dry).

Test Arrangement	Test Voltage kV(rms) *	Remarks
1	35	Withstood
2	35	Withstood
3	35	Withstood
4	35	Withstood
5	35	Withstood
6	35	Withstood
7	35	Withstood
8	35	Withstood
9	35	Withstood

2. Power Frequency Voltage Withstand Test (Wet).

Test Arrangement	Test Voltage kV(rms) *	Remarks
1	35	Withstood
2	35	Withstood
3	35	Withstood
4	35	Withstood
5	35	Withstood
6	35	Withstood
7	35	Withstood
8	35	Withstood
9	35	Withstood

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

Temperature in Degree Celsius			Atmospheric Pressure in mm of Hg.
	Dry Bulb	Wet Bulb	
*	27	22	682

(U.R. SHESHAGIRI RAO)
Test Engineer



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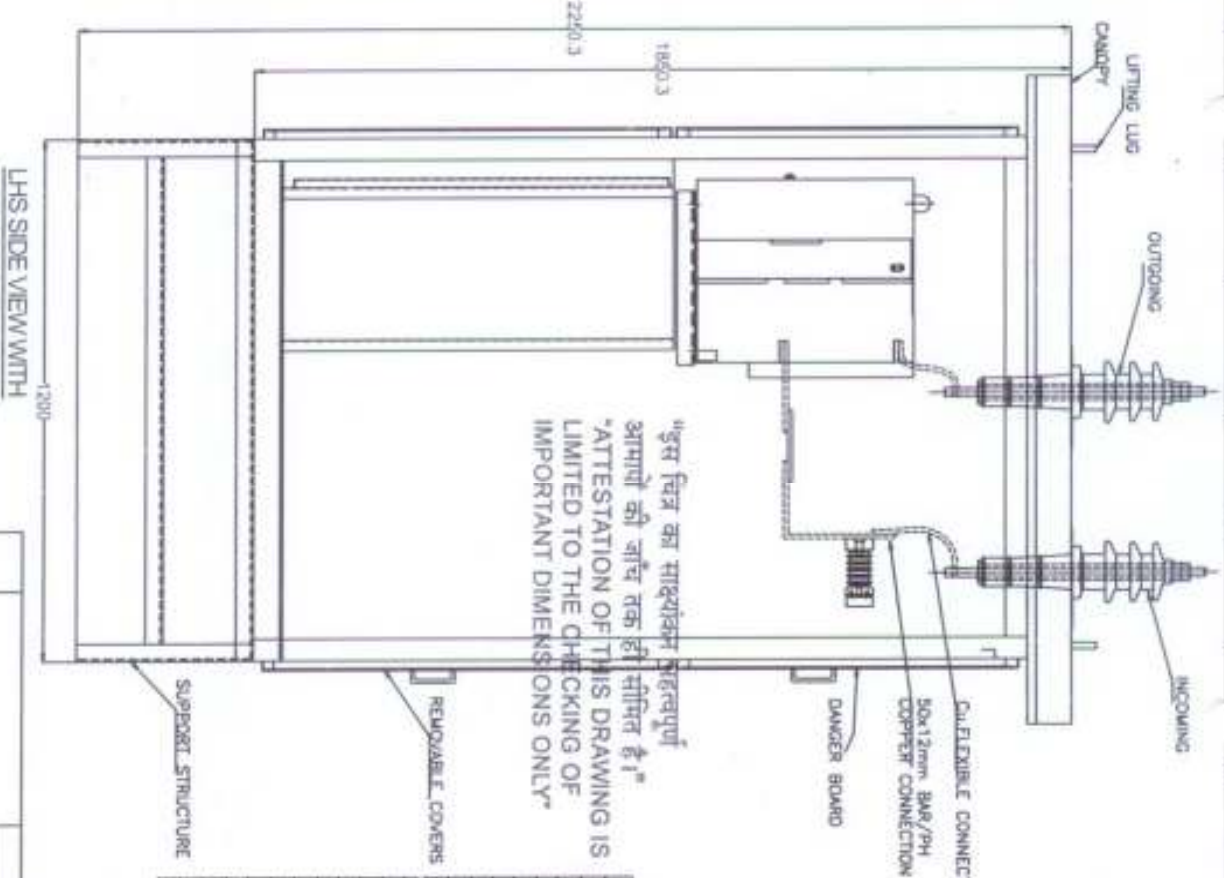
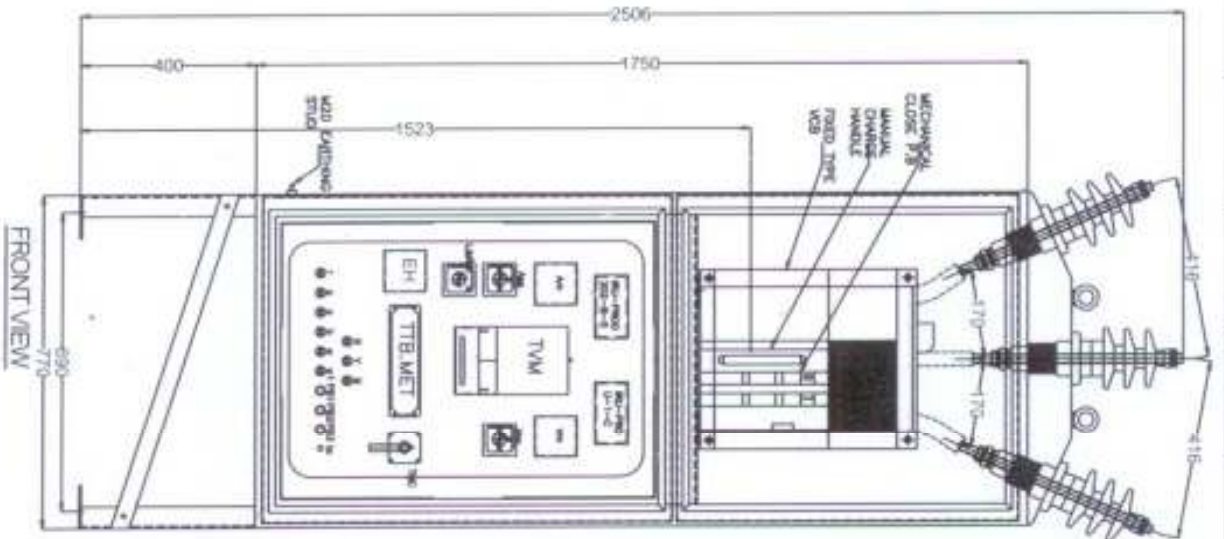
Test Report No.43/1/2011-HV/9269/KEPL

Sheet 4 of 4
Dated: 07/06/2011.

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.


(U.R. SHESHAGIRI RAO)
Test Engineer



“इस चित्र का संक्षिप्त संस्करण
अभ्यास को बीच तक ही सीमित है।”
“ATTESATION OF THIS DRAWING IS
LIMITED TO THE CHECKING OF
IMPORTANT DIMENSIONS ONLY”

यह चित्र प्रोफ़ेसर संतोष चं. 45/11/
प्रवाह मं. सं संतोष है।
THIS DRAWING PERTAINS TO TEST REPORT
45/11/ 2011 -HV/ 9269/KEPL.
Dated 07/06/2011

W. D. M.
संयोजक संतोष
JOINT DIRECTOR
HIGH VOLTAGE DIVISION
एच. वी. डी. सं. सं संतोष है।
प्रो. संतोष

LEGENDS USED.

LEGENDS	DESCRIPTION
51RTM	30/C-1E/F SELF POWERED COMMUNICABLE RELAY
27/59	UNDER / OVER VOLTAGE RELAY
TVM	TRAVELER METER
A	AMMETER
V	VOLTMETER
DH	ELECTRONIC HOOTER
TIB	TEST TERMINAL BLOCK
R.Y.B	PHASE HEALTHY LAMPS FOR R,Y,B PHASES
F	VCB ON INDICATION
Q	VCB OFF INDICATION
o	AUTO TRIP
b	SPRING CHARGE INDICATION
w	TRIP CIRCUIT HEALTHY INDICATION
w1	COMMON ALARM INDICATION (CLEAR)
ph1	TRIP CIRCUIT HEALTHY PUSH BUTTON
ph2	ACCEPT PUSH BUTTON FOR ALARM CIRCUIT
ph3	RESET PUSH BUTTON FOR ALARM CIRCUIT
TS	TOGGLE SWITCH FOR HEATER
ASS	AMMETER SELECTOR SWITCH
VSS	VOLTMETER SELECTOR SWITCH WITH SIX POSITION

LHS SIDE VIEW WITH
SIDE SHIT REMOVED

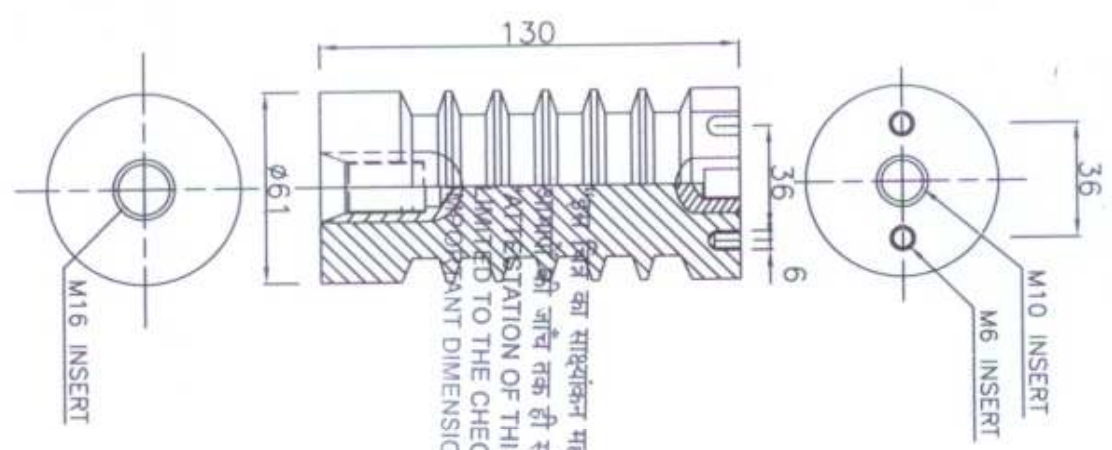
FRONT VIEW

NOTE: INSTRUMENT LAYOUT SHOWN TENTATIVELY SUBJECT
TO CHANGE IN DETAIL DESIGN

NO	REVISION	DATE	BY	CHKD	DATE

Drawn by Krishna SPECIAL DESIGN SECTION, H.V. DIVISION DATE: 01 / 04 / 10 DRAWN: BLM O-CHECKED: M.V. APPROVED: SN	Krishna Energy Pvt Ltd SPECIAL DESIGN SECTION, H.V. DIVISION DATE: 01 / 04 / 10 DRAWN: BLM O-CHECKED: M.V. APPROVED: SN	Krishna Energy Pvt Ltd SPECIAL DESIGN SECTION, H.V. DIVISION DATE: 01 / 04 / 10 DRAWN: BLM O-CHECKED: M.V. APPROVED: SN
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RATED VOLTAGE : 11 KV
 RATED CURRENT : 630A
 RATED IMPULSE VOLTAGE : 75 KV
 POWER FREQUENCY VOLTAGE : 35 KV
 RATED SHORT CIRCUIT CURRENT : 25 KA / 3SEC



यह चित्र का संश्लेषण महत्वपूर्ण
 शर्तों को जोड़ तक ही सीमित है।
 VERIFICATION OF THIS DRAWING IS
 LIMITED TO THE CHECKING OF
 DIMENSIONAL DIMENSIONS ONLY*

यह चित्र परीक्षण दस्तावेज सं. 43/1 /
 एचवी नं. से संबंधित है।
 THIS DRAWING PERTAINS TO TEST REPORT
 43/1 / 2011 HV/9269/KEPL
 Dated 03/06/2011

Joint Director
 उच्च वोल्टेज विभाग
 High Voltage Division
 केन्द्रीय विद्युत प्रणाली संशोधन संस्थान
 Central Power Research Institute
 बंगलूर - 560 080
 Bangalore-560 080

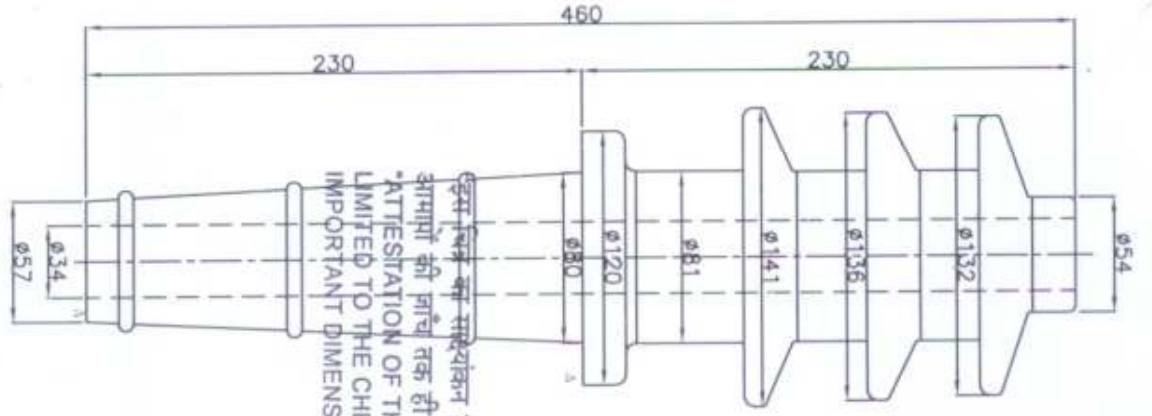
GENERAL TOLERANCE: ±2mm

MATL: EPOXY RESIN	QTY: 1NO	ALL DIMENSION ARE IN mm
REV. DATE	DESCRIPTION	BY: PR SN
CUSTOMER : ENERCOR-ENG	DRAWN CHD. APPD. SIGN	DATE: 16.4.10

TITLE: 11 KV EPOXY INSULATOR
 MFG BY: KRISHNAA ENERGY PRIVATE LIMITED,
 2P-69, SIIICO Industrial Estate, Thiruvudikakon, Chennai-44
 www.krishnaenergy.net

SCALE : NTS	SHT.No.	DRAWING No.
		KEYCB-11-205


 JOINT DIRECTOR
 HIGH VOLTAGE DIVISION
 07/06/2011




ATTESATION OF THIS DRAWING IS LIMITED TO THE CHECKING OF IMPORTANT DIMENSIONS ONLY
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यह चित्र परीक्षण दस्तावेज सं. 43/1/.....
 द्वारा बनाया गया है।
 THIS DRAWING PERTAINS TO TEST REPORT
 43/1/2011-HV-9269/KEPL
 Dated: 07/06/2011

NOTES:

1. 'V' Surface ground flat & perpendicular
2. *Uniglazed.
3. All dimensions are in mm.
4. Material brown glazed porcelain
5. Unless otherwise mentioned the tolerance on the porcelain part shall be + (0.03d+0.3)mm, d being the the dimensions in mm.
6. Total creepage distance 300mm (min)
7. Rated voltage -12KV
8. Standard applicable IS:5621&is-2099
9. Power frequency withstand voltage Dry&Wet 35KV/r.m.s 1(min)
10. Lightning impulse withstand voltage 75KV (peak)

MAKE: ASSOCIATION PORCELAIN PVT.LTD 83/1A SARAI BOSE ROAD KOLKATA -700025 AP-DRC.NO. AP/12KV WITHKBI/460/001		QTY:1No	ALL DIMENSION ARE IN mm	DESCRIPTION: 12 KV WALL THROUGH ROOF ENTRY BUSH	MFG BY:  KRISHNAA ENERGY PRIVATE LIMITED., DP-69, SIDCO Industrial Estate, Thirumudivokkam, Chennai-44 www.krishnaenergy.net	DATE: 8.6.10
MATERIAL: PORCELAIN	REV. 0	JMR	PR	SN	SIGN	DATE: 8.6.10
CUSTOMER : M/s.	REV. DATE	DRAWN	CHD.	APPD.	SIGN	DATE:
P.O.REF :	CONSULTANT :	JOB REF:	SHT.No.	DRAWING No.	SCALE : NTS	KEPL-P-001