

CPRI

## TEST REPORT



**Central Power Research Institute**

(A Govt. of India Society)

P.B.No. 8066, Sadashivanagar Post Office,  
Sir C.V. Raman Road,  
Bangalore - 560 080 (INDIA)



**HEAT RUN TEST LABORATORY  
DIAGNOSTIC, CABLES & CAPACITORS DIVISION  
CENTRAL POWER RESEARCH INSTITUTE**  
P.B.NO.8066, SADASHIVANAGAR SUB P.O  
PROF.SIR.C.V.RAMAN ROAD, BANGALORE - 560 080, INDIA  
Phone: + 91 (0) 80-2360 4435 Fax: 080 – 2360 4435



NABL Accredited  
Laboratory  
Cert.No.T- 0010

**CPRI**

Sheet 1 of 4

**TEST REPORT**

**Test Report Number** : DCCD – 10931      **Dated:** 25.05.2009

**Name & Address of the Customer** : M/s. Krishnaa Energy Private Limited,  
DP 69, SIDCO Industrial Estate,  
Thirumudivakkam,  
Chennai-600 044  
Ref: Letter No.: Nil Dated: 13.05.2009

**Name & Address of the Manufacturer** : M/s. Krishnaa Energy Private Limited,  
DP 69, SIDCO Industrial Estate,  
Thirumudivakkam,  
Chennai-600 044

**Particulars of sample tested** : 11KV, 1250Amps, 25kA, LBS Panel.

**Condition of the Sample on Receipt** : After SC Test  
**Type** : Sample KEPL  
**Designation** : Load Break Switch Panel  
**Serial Number** : Nil  
**Number of samples tested** : One  
**Date(s) of Test(s)** : 13.05.2009  
**CPRI sample code no** : SC09RS0742

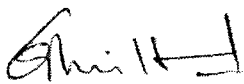
**Particulars of tests conducted** : Milli Volt Drop Test & Temperature Rise Test.

**Test in accordance with standard/specification** : As per IS: 3427-1997 / IEC: 60298-1-1990,  
IS: 9920-1-1992/IEC-60265-1-1988 & IEC: 62271-1-2007

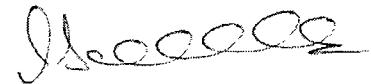
**Sampling plan** : NA  
**Customers requirement** : Milli Volt Drop Test & Temperature Rise Test.  
**Deviations if any** : Nil

**Name of the witnessing persons**  
**Customers representatives** : Mr. P.Ramachandran (R & D Manger)  
**Other than Customers representatives** : Nil  
**Test subcontracted with address of the laboratory** : NA

**Documents constituting this report (in words)**  
**Number of Sheets** : Four  
**Number of oscillograms** : Nil  
**Number of graphs** : Nil  
**Number of photos** : Nil  
**Number of Test Circuit Diagrams** : Nil  
**Number of Drawings** : Two: (1) KELBS 03-002 Sheet 1 of 1  
(2) KELBS 03-001 Sheet 1 of 2

  
(G.P.VITTAL)  
Test Engineer



  
(A.SUDHINDRA)  
Additional Director

AUTHORISED SIGNATORIES



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TEST REPORT

Test Report No.: DCCD - 10931

Dated: 25.05.2009

TEST RESULTS

1. Milli volt drop test (Resistance measurement of the main circuit): As per IS: 3427-1997 / IEC: 60298-1-1990, IS: 9920-1-1992/IEC-60265-1-1988 & IEC: 62271-1-2007

Magnitude of current passed: 100 Amperes dc

Test condition: At room temperature

Point of measurement: dc voltage drop across the terminals of the Panel, breaker in closed position.

Table with columns: Specified values as per Cl. 6.4 of IEC Pub: 62271-1-2007, Voltage drop (mV) (Before temperature rise test °C, After temperature rise test °C), Results / Remarks. Rows include Ambient temperature, R phase, Y phase, and B phase.

2. Temperature Rise Test: As per IS: 3427-1997 / IEC: 60298-1-1990, IS: 9920-1-1992/IEC-60265-1-1988 & IEC: 62271-1-2007

Temporary connections:

Table with columns: Connections, Material, Quantity (Numbers), Length (mm), Section mm², Remarks. Rows describe incoming and outgoing side connections.

3. Magnitude of current passed:

Table showing current values: R phase: 1250 Amps, Y Phase: 1250 Amps, B Phase: 1250 Amps. Frequency: 49.2 Hz to 49.6 Hz.

Signature of G.P. Vittal
(G.P.VITTAL)
Test Engineer



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**TEST REPORT**

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Average ambient temperature: 35.8°C  
 Temperature rise of the various parts at steady state:

Parts of Assemblies	Temperature rise at ambient air temperature not exceeding 40°C (as per Table 3 & Cl.6.5 of IEC : (62271-1- 2007)-(K)	Temperature rise (K)			Results / Remarks		
		R Phase	Y Phase	B Phase	R Phase	Y Phase	B Phase
VCB Contacts : (Silver Plated)							
a) Moving Contacts	65	57.2	52.9	58.8	Within limit	Within limit	Within limit
b) Fixed Contacts	65	58.5	52.2	48.1	Within limit	Within limit	Within limit
Terminals: Breaker-(Silver Plated)							
a) Incoming	65	57.9	59.7	65.5	Within limit	Within limit	Out of limit
b) Outgoing	65	58.0	57.4	68.1	Within limit	Within limit	Out of limit
Panel -(Bare Copper)							
a) Incoming	50	37.9	46.5	45.6	Within limit	Within limit	Within limit
b) Outgoing	50	57.6	52.8	51.9	Out of limit	Out of limit	Out of limit
Accessible external enclosures and covers: Enclosure Side	30	10.8			Within limit		

  
 (G.P.VITTAL)  
 Test Engineer



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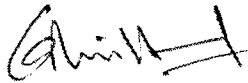
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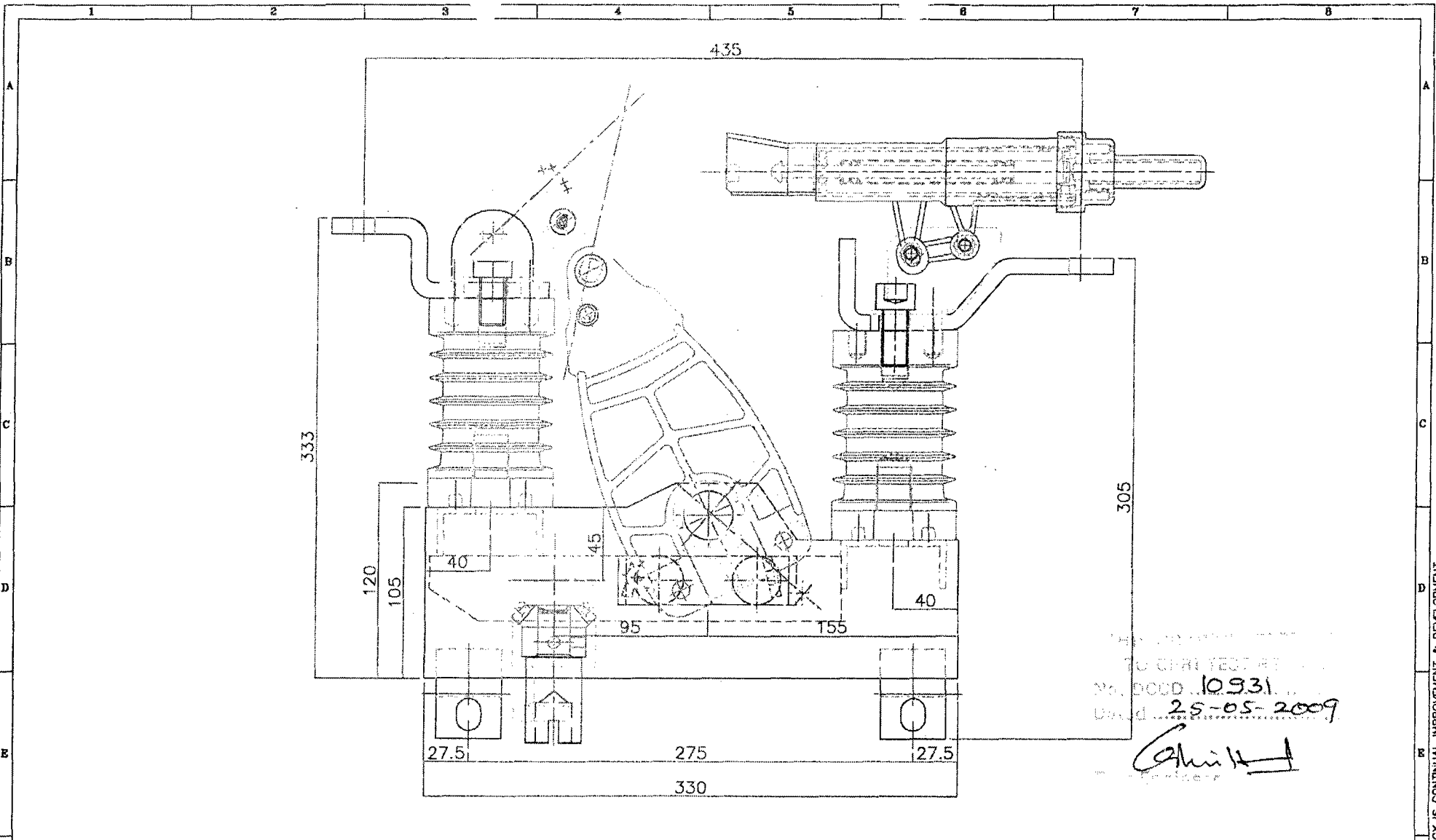
Dated: 25.05.2009

**NOTE**

- a) The test results relate only to the item(s) tested.
- b) Publication or reproduction of this test report in any form other than by complete set of the whole report and in the language written, is not permitted with out the written consent of CPRI
- c) Any correction/erasure invalidates this test report.
- d) Any anomaly/discrepancy in this test report should be brought to our notice within 45 days from the date of issue.

  
(G.P.VITTAL)  
Test Engineer

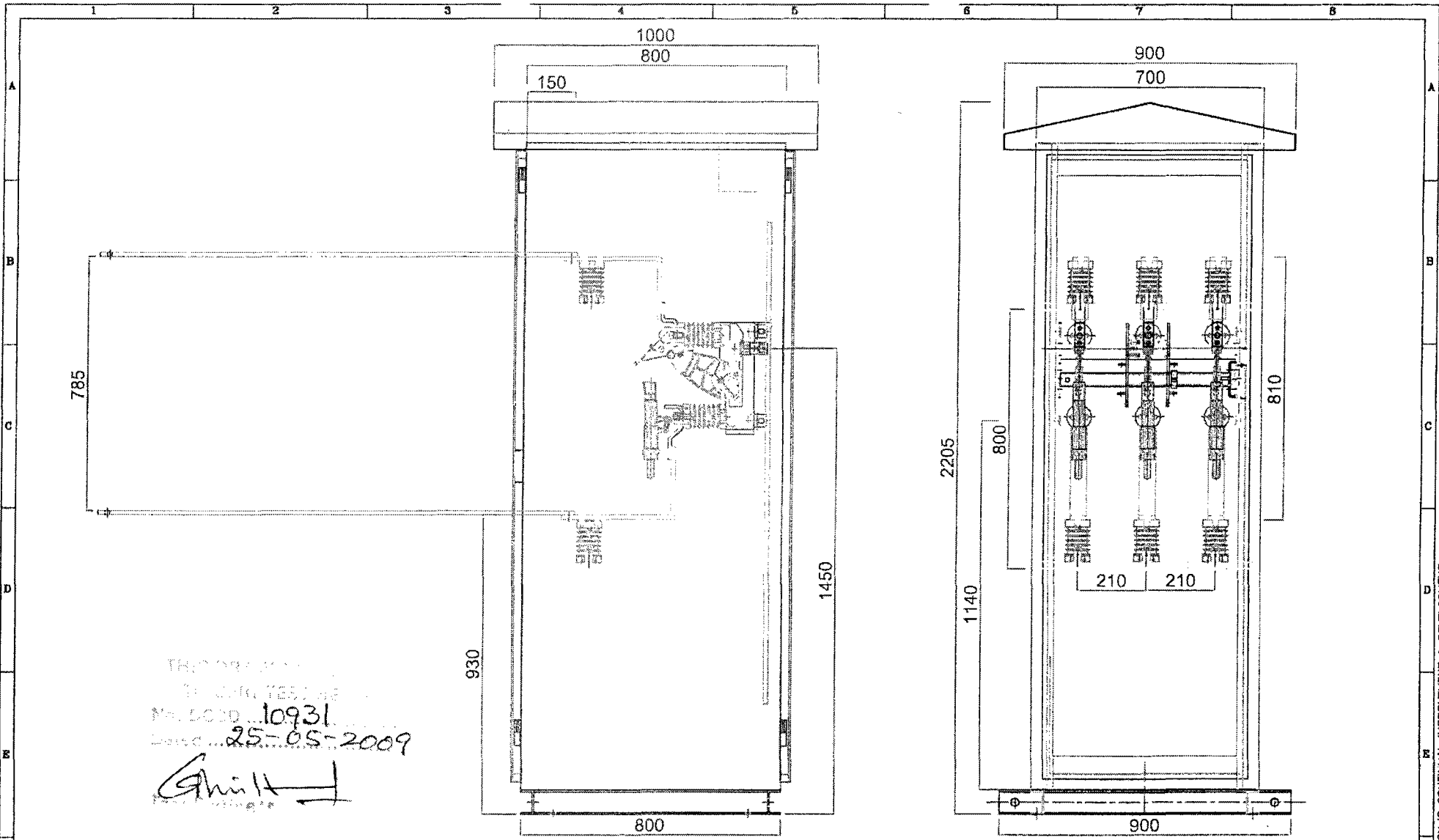
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MATL :		QTY: 1NO.		ALL DIMENSIONS ARE IN mm		DESCRIPTION: SWITCH ASSEMBLY		SHEET.No.	
FINISH: NATURAL						MFG BY:		SCALE : N.T.S.	
						KRISHNAA ENERGY PVT LTD.,		1 OF 1	
						DR: 09, SIDCO Industrial Estate, Thirumudlvakkam, Chennai-44		DRAWING NO:	
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FINISH: NATURAL								MFG BY:		SCALE : N.T.S.	
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