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

CPRI

NABL Accredited Laboratory
Cert.No.T- 0010

TEST REPORT

Test Report Number	:	**DCCD – 12079** **Dated: 20.05.2011**
Name & Address of the Customer	:	M/s. Ramyasri Electrical Automation, Plot No. 116, Block-"D", IDA Autonagar Visakhapatnam – 530 012, A.P, India. Ref: Letter dated 28.03.2011
Name & Address of the Manufacturer	:	M/s. Ramyasri Electrical Automation, Plot No. 116, Block-"D", IDA Autonagar Visakhapatnam – 530 012, A.P, India.
Particulars of sample tested	:	3000A, 415V, 3 Phase, & Neutral, LT Panel
Condition of the Sample on Receipt	:	New
Type	:	Indoor
Designation	:	LT Panel
Serial Number	:	112
Number of samples tested	:	One
Date(s) of Test(s)	:	18.05.2011
CPRI sample code no	:	DCCDHRT11S0048
Particulars of tests conducted	:	Temperature rise test at 3000Amps
Test in accordance with standard/specification	:	As per IS 8623 Part-1-1993/ IEC 60439 Part-1-1985.
Sampling plan	:	Nil
Customers requirement	:	Temperature Rise Test at 3000 Amps
Deviations if any	:	Nil
Name of the witnessing persons		
Customers representatives	:	Mr. C. Ramakanth & Mr. R. Apparao
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	:	One 1) REA/18/2011-112, SH.NO. 1 OF 1,

(G.P.VITTAL)
TEST ENGINEER

(S. RAMAPRASATH)
JOINT DIRECTOR

AUTHORISED SIGNATORIES

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TEST RESULTS

1. Temperature Rise Test: As per cl. 8.2.1 of IS 8623 Part-1-1993/ IEC 60439 Part-1-1985.

Temporary connections:

Connections	Material	Quantity (Numbers)	Length (mm)	Section mm^2	Remarks
Incoming side	Copper flexible braids	Four	2000	500	Each Phase
	Aluminium busbar	Four	1830	100X12	Each Phase
Outgoing side	Aluminium busbar	Four	1600	100X12	Each Phase
	Aluminium busbar (Shorting Busbar)	Four	770	100X12	Across RYB Phases

2. Magnitude of current passed:

R Phase: 3000 Amps	Y Phase: 3000 Amps	B Phase: 3000 Amps
Frequency: 49.6 Hz to 50.0 Hz		

(G.P.VITTAL)
Test Engineer

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Average ambient temperature: 32.2°C

Temperature rise of the various parts at steady state:

Parts of Assemblies	Temperature rise limits as given in Table - III & Cl.8.2.1 of IS: 8623-Part-1-1993 / IEC Pub: 60439-1-1985- (K)	Temperature rise (K)			Results / Remarks		
		R Phase	Y Phase	B Phase	R Phase	Y Phase	B Phase
Terminals for external insulated conductors :							
Incoming Terminal	70	41.4	45.0	44.2	Within limit	Within limit	Within limit
Outgoing Terminal	70	35.8	46.8	36.2	Within limit	Within limit	Within limit
Busbars and conductors, plug-in-contacts of removable or withdrawable parts which connect to busbars :	Limited by : - Mechanical strength of conducting material - Possible effect on adjacent equipment - Permissible temperature limit of the insulating materials in contact with conductor - The effect of the temperature of the conductor on the apparatus connected to it; - For plug-in contacts, nature and surface treatment of the contact material						
Vertical Busbar		50.5	59.8	53.3	----	----	----
Horizontal Busbar		55.7	62.8	54.2	----	----	----
Joints		58.8	64.2	57.2	----	----	----
Accessible external enclosures and covers: Metal surfaces							
Enclosure	30	20.8			Within limit		

(G.P.VITTAL)
Test Engineer