

CPRI

TEST REPORT



Central Power Research Institute

(A Govt. of India Society)

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Bangalore - 560 080 (INDIA)

CENTRAL POWER RESEARCH INSTITUTE

TEST REPORT



CPRI

Test Report Number: 641EATDSC13S2618

Dated: 21.12.2013

Name & Address of the Customer : M/s. Lakshmi Electricals,
PU-1, Electricals and Electronics Estate,
Thuvakudi, Trichy -15.

Name & Address of the Manufacturer : M/s. Lakshmi Electricals,
PU-1, Electricals and Electronics Estate,
Thuvakudi, Trichy -15.

Particulars of sample tested

Condition of the sample on Receipt : New
Type : Indoor
Designation : LT Panel 50KA, 5000A, 415RV
Serial Number : 1213
Number of samples tested : One only
Date (s) of Test (s) : 19.12.2013 and 20.12.2013
CPRI sample code no(s) : SC13S2618

Particulars of tests conducted

Test in accordance with Standard / specification : IP 54, Category 2 Test as per IS/IEC 60529 Edition 2.1, 2001-02 Standard, Clause 13.4.

Sampling Plan : Not applicable

Customer's requirement : 1. IP 54, Category 2 Test as per IS/IEC 60529 Edition 2.1, 2001-02 Standard, Clause 13.4.
2. Insulation Resistance Measurement at 500V DC and
3. Power Frequency High Voltage withstand test at 2.5kV AC to be applied for one minute between R, Y, B and N terminals shorted together and the body of LT Panel 50KA, 5000A, 415RV Enclosure, To be conducted before and after IP Test.

Deviations if any : -Nil-

Name of the witnessing persons

Customer's representative : Mr. P. Ramesh.

Other than customer's representatives : None

Test subcontracted with address of the laboratory : None

Documents constituting this report (In words)

Number of sheets : Three Only
Number of oscillograms : -Nil-
Number of graphs : -Nil-
Number of photos : -Nil-
Number of test circuit diagrams : -Nil-
Number of drawings : Two only. Drg. No. LEW/1003/2013-14, Sheet 01 of 02 and Sheet 02 of 02.

(GUJJALA B. BALARAJU)
Test Engineer



(M. SIDDHARTHA BHATT)
Additional Director

CENTRAL POWER RESEARCH INSTITUTE



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TEST RESULTS:

SL. NO.	PARTICULARS		OBSERVATIONS/VALUES OBTAINED		
	TESTS CONDUCTED	REFERENCE CLAUSE			
1.0	IP 5X, Category 2 test as per IS/IEC 60529 Edition 2.1, 2001-02 standard.	Clause 13.4 Protection against Ingress of solid foreign objects – dust test.	No entry of dust found observed inside the LT Panel 50KA, 5000A, 415RV Enclosure.		
2.0	IP X4 test as per IS/IEC 60529 Edition 2.1, 2001-02 standard.	Clause 14.2.4 (b) Protection against ingress of water – Hand held Spray, water flow rate 10 Ltrs/min \pm 5% and from a distance of 3 m.	No entry of water found observed inside the LT Panel 50KA, 5000A, 415RV Enclosure.		
3.0	Electrical Tests Conducted		Before IP5X Test	After IP 5X Test / Before X4Test	After IP X4 Test
3.1	Insulation Resistance Measurement at 500V DC, to be applied for one minute between R, Y, B and N terminals shorted together and the body of LT Panel 50KA, 5000A, 415RV Enclosure		>1.0 G Ω	>1.0 G Ω	>1.0 G Ω
3.2	Power Frequency High Voltage withstand test at 2.5kV AC to be applied for one minute between R, Y, B and N terminals shorted together and the body of LT Panel 50KA, 5000A, 415RV Enclosure.		Withstood	Withstood	Withstood


 Test Engineer