

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)

CENTRAL POWER RESEARCH INSTITUTE



CPRI

TEST REPORT

Test Report Number: 343EATDIP12S0172

Dated: 22.06.2012

Name & Address of the Customer : M/s LAKSHMI ELECTRICAL WORKS,
PU – 1, Electrical & Electronics Industrial Estate,
Thuvakudi, Trichy - 15.

Name & Address of the Manufacturer : M/s LAKSHMI ELECTRICAL WORKS,
PU – 1, Electrical & Electronics Industrial Estate,
Thuvakudi, Trichy - 15.

Particulars of sample tested

Condition of the sample on Receipt : New
Type : Outdoor (415V AC/DC)
Designation : POWER JUNCTION BOX
Serial Number : LEW/JN/001/2012
Number of samples tested : One only
Date (s) of Test (s) : 13.06.2012 and 14.06.2012
CPRI sample code no(s) : EATDIP12S0172

Particulars of tests conducted

Test in accordance with : IP 55 Tests as per IS/IEC 60947-1:2004 Standard.
Standard / specification : Not applicable
Sampling Plan :
Customer's requirement : 1. IP 55 Tests as per IS/IEC 60947-1: 2004 Standard.
2. Insulation Resistance Measurement at 500V DC and
3. Power frequency High Voltage test at 2.0kV AC to be applied for one minute between all live terminals shorted together and body of Power Junction Box, to be conducted before and after IP Test.

Deviations if any : -Nil-

Name of the witnessing persons

Customer's representative : Mr. P. Ramesh and Mr. S. Lino
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 : Six Only Drg. No.: LEW/BHEL/RPT/JB/B084/2011-2012, Rev. 0, Page No. 1 of 5, Page No. 2 of 5, Page No. 3 of 5, Page No. 4 of 5, Page No. 5 of 5 and a Note Sheet.

V N Nagaraj - 6
(NAGARAJA RAO V. N.)
Test Engineer



M. Siddhartha Bhatt
(M. SIDDHARTHA BHATT)
Additional Director

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Sample Description: Power Junction Box - fitted with Connector and terminal block inside.

TEST RESULTS:

SL. NO.	PARTICULARS		OBSERVATIONS/VALUES OBTAINED		
	TESTS CONDUCTED	REFERENCE CLAUSE			
1.0	IP 5X test as per IS/IEC 60947-1: 2004 Standard.	Clause C.13.4 & 13.5.2 Protection against ingress of solid foreign objects – Dust test.	<ul style="list-style-type: none"> Fine layer of dust uniformly spread all over the bottom gland plate inside the Power Junction Box Fine layer of dust found on terminal block, Connector, inside surface of front door and on all the vertical surfaces inside the power Junction Box. 		
2.0	IP X5 test as per IS/IEC 60947-1: 2004 Standard.	Clause C.14.0 Protection against harmful ingress of water – Hose jet of 6.3 mm dia, from 3 m distance with water flow at 0.3 bar pressure.			
3.0	ELECTRICAL TESTS CONDUCTED		Before IP 5X Test	After IP 5X Test / Before IP X5 Test	After IP X5 Test
3.1	Insulation Resistance Test at 500V DC applied for one minute between all terminals of terminal block shorted together and body of Power Junction Box.		>1.0 GΩ	>1.0 GΩ	>1.0 GΩ
3.2	Power frequency High Voltage Test at 2.0kV AC applied for one minute between all terminals of terminal block shorted together and body of Power Junction Box.		Withstood	Withstood	Withstood


Test Engineer