

**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: 345EATDIP12S0174**

**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	..	STREET LIGHT JUNCTION BOX
Serial Number	..	LEW/JN/003/2012
Number of samples tested	..	One only
Date (s) of Test (s)	..	13.06.2012 and 14.06.2012
CPRI sample code no(s)	..	EATDIP12S0174

### Particulars of tests conducted

Test in accordance with Standard / specification	:	IP 54 (IP 5X Category 2) Tests as per IS/IEC 60947-1:2004 Standard.
Sampling Plan	:	Not applicable
Customer's requirement	:	1. IP 54 (IP 5X Category 2) 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 Street Light 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	..	Three only. Drg. No.: LEW/CL/TRY/SJB/B001/2012-2013 Rev. 0, Page No. 1 of 3, Page No. 2 of 3, and Page No. 3 of 3.

  
(NAGARAJA RAO V. N.)  
Test Engineer



  
(M. SIDDHARTHA BHATT)  
Additional Director

Sheet No. 1 of 3

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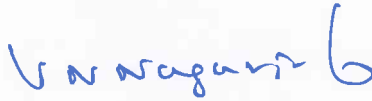
**Date: 22.06.2012**

**Sample Description:** Street Light Junction Box, fitted with Fuse and Connector inside.

## TEST RESULTS:

SL. NO.	PARTICULARS		OBSERVATIONS/VALUES OBTAINED		
	TESTS CONDUCTED	REFERENCE CLAUSE			
1.0	IP 5X Category 2 test as per IS/IEC 60947-1: 2004 Standard	<b>Clause C.13.4 &amp; 13.5.2</b> Protection against ingress of solid foreign objects – Dust test.	<ul style="list-style-type: none"> <li>No dust found inside the Street Light Junction Box.</li> <li>No water found inside the Street Light Junction Box.</li> </ul>		
2.0	IP X4 test as per IS/IEC 60947-1: 2004 Standard.	<b>Clause C.14.0</b> Protection against harmful ingress of water – Splashing of water from all Practicable directions.			
3.0	<b>ELECTRICAL TESTS CONDUCTED</b>		<b>Before IP 5X Test</b>	<b>After IP 5X Test / Before IP X4 Test</b>	<b>After IP X4 Test</b>
3.1	Insulation Resistance Test at 500V DC applied for one minute between all terminals of terminal block shorted together and body of Street Light 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 Street Light Junction Box.		Withstood	Withstood	Withstood

**Compliance Note:** The sample "Street Light Junction Box" Submitted for IP 54(IP 5X Category 2) test Complies with the requirement of tests as per IS/IEC 60947-1: 2004 Standard.

  
**Test Engineer**