

सी पी आर आई
भारत

**CPRI
INDIA**

परीक्षण रिपोर्ट
TEST REPORT





परीक्षण रिपोर्ट TEST REPORT

केन्द्रीय विद्युत अनुसंधान संस्थान

(विद्युत मंत्रालय, भारत सरकार के अधीन एक स्वायत्त सोसायटी)

CENTRAL POWER RESEARCH INSTITUTE

(An Autonomous Society under the Ministry of Power, Govt. of India)

एस टी एल के सदस्य

Member of STL

स्विचगियर परीक्षण तथा विकास केन्द्र

SWITCHGEAR TESTING & DEVELOPMENT STATION

गोविन्दपुरा, भोपाल - 462 023

GOVINDPURA, BHOPAL - 462 023

फोन : + 91 (0)755 2586682 फैक्स : +91 (0)755-2587774

Phone : + 91 (0)755 2586682 Fax : +91 (0)755-2587774

CENTRAL POWER RESEARCH INSTITUTE
(Member of STL)



CPRI

TEST REPORT

Test Report No. : 2015/STL/1032 Dated: 11 SEP 2015

Name and Address of the Customer : M/s Sia Sales Corporation,
4/A, Neev Bungalow, Motinagar Soc.,
Nr. Rambali Hindi School, Paldi,
Ahmedabad – 380 007.

Name and Address of the Manufacturer : M/s Sia Sales Corporation,
Shivam 2 Estate, GO No. B106,
Nr. Sangam Park Society, Sarkhej,
Ahmedabad – 380 052


Particulars of Sample(s) Tested : 415 V, 400A, L.T. Panel
Condition of sample(s) on receipt : New
Type : Outdoor
Designation : NIL
Serial Number(s) : NIL
Number of Sample(s) Tested : One
CPRI sample code number(s) : STDSST215S0712
Sealing of the sample, if any : No

Particulars of test(s) conducted : Degree of Protection IP-65 (Category-I)


Date(s) of Test(s) : 24/07/2015 & 25/07/2015
Test(s) in accordance with : As per Cl. C13.4 & Cl. C 14 of IS/IEC: 60947 (Part-1),2004
Standard/specification
Sampling Plan : NIL
Customer's Requirement : NIL
Deviations, if any : NIL

Name of the witnessing persons
Customer's Representatives : NIL
Other than Customer's Representatives : NIL
Test subcontracted with name and address of : NONE
the laboratory

Documents constituting this report (in words)
No. of Sheet(s) : FIVE
No. of Oscillogram(s) : NIL
No. of Graph(s) : NIL
No. of Photograph(s) : NIL
No. of Test Circuit Diagram(s) : NIL
No. of drawing(s) : ONE


(LEENA H. ROY)
TEST ENGINEER




(A. AWASTHI)
JOINT DIRECTOR

**CENTRAL POWER RESEARCH INSTITUTE
(Member of STL)**



TEST REPORT

Test Report No: 2015/STL/1032

Date : 11 SEP 2015

SUMMARY OF TEST

1. Test conducted : Degree of Protection IP - 65 (Category-I)
2. Rating for which tested : 1) Ingress protection against solid particles IP-6X
2) Ingress protection against liquid IP-X5
3. DOCUMENTS CONSTITUTING THIS REPORT :
 - 3.1 Supplementary test report : NIL
 - 3.2 Oscillogram No(s) : NIL
 - 3.3 Drawing of the equipment tested : ssc/CPRI/IP/00
 - 3.4 Test circuit drawing No(s). : NIL
 - 3.5 Photograph No(s). : NIL


(LEENA H. ROY)
TEST ENGINEER

**CENTRAL POWER RESEARCH INSTITUTE
(Member of STL)**



TEST REPORT

CPRI

Test Report No: 2015/STL/1032

Date :

11 SEP 2015

DESCRIPTION OF THE SAMPLE TESTED
(As assigned by the manufacturer)

Sample	:	L.T. Panel
Rated voltage (Volts)	:	415
Rated current (Amps)	:	400
Frequency (Hz)	:	50
Insulation level (V)	:	660
No. of phases	:	3 Ph+N
No. of poles	:	4
Contacts terminal material	:	-
Isolating distance (mm)	:	-
Phase to earth distance (mm)	:	-
Creepage distance (mm)	:	-
Tripping current (mm)	:	-
Dimensions of the sample	:	As per drawing
Rated short time current (KA _{rms} / KA _{pk})	:	-
Category of enclosure	:	-


(LEENA H. ROY)
TEST ENGINEER

SWITCHGEAR TESTING & DEVELOPMENT STATION
GOVINDPURA, BHOPAL 462023
Phone : +91(0)755 2586682 Fax : +91(0)755 2587774

**CENTRAL POWER RESEARCH INSTITUTE
(Member of STL)**



TEST REPORT

Test Report No: 2015/STL/1032

Date :

CPRI
11 SEP 2015

SCHEDULE OF TESTS

1) Test conducted : Degree of Protection IP-6X
Date of test : 24/07/2015 & 27/07/2015
Condition of sample before test : New
Test Details : As per Standard

The test wire of 1.0mm diameter was applied on all possible openings with a force of 1N as per standard
The test object was placed inside closed chamber in which talcum powder (unscented) was maintained in suspension by air current as per standard. The other parameters maintained were as follows :

Differential Pressure maintained	Duration of the test
200 mm of water column	8 hours

Observations : No traces of talcum powder observed inside the sample after IP6X test and the test wire of 1.0 mm diameter did not enclosure.

2) Test conducted : Degree of Protection IP -X5
Date of test : 27/07/2015
Condition of sample before test : As such after IP 6X test.
Test details : As per standard

Size of the nozzle used (mm)	Distance of the nozzle from the sample(mtr)	Water Delivery rate(litre/minute)	Duration of the test (minute)
6.3	3.0	12.5	3.0

Observations : No traces of water observed inside the sample.

CONCLUSION : The test results indicate that the sample tested complies with the requirements of Cl. C 13.4 & Cl. C 14 of IS/IEC: 60947 (Part-1), 2004.


(LEENA H. ROY)
TEST ENGINEER

**CENTRAL POWER RESEARCH INSTITUTE
(Member of STL)**



TEST REPORT

Test Report No: 2015/STL/1032

Date :

CPRI
11 SEP 2015

NOTE

- a) The Test results relate only to the item(s) tested.
- b) Publication or reproduction of the test report /Certificate in any form other than by complete set of the whole test report /Certificate and in the language written is not permitted without the written consent of CPRI.
- c) Any Corrections/erasure invalidates the test Report/Certificate.
- d) NABL has Accredited this laboratory as per ISO 17025-2005 standard, vide certificate no. T-0011 for the tests carried out.
- e) Any anomaly/discrepancy in the test report /Certificate should be brought to the notice of CPRI within 45 days from the date of issue.
- f) The verification of the sample drawings by CPRI is limited to dimensional checks only wherever possible.
- g) CPRI Issues two kinds of documents:

Test Report:

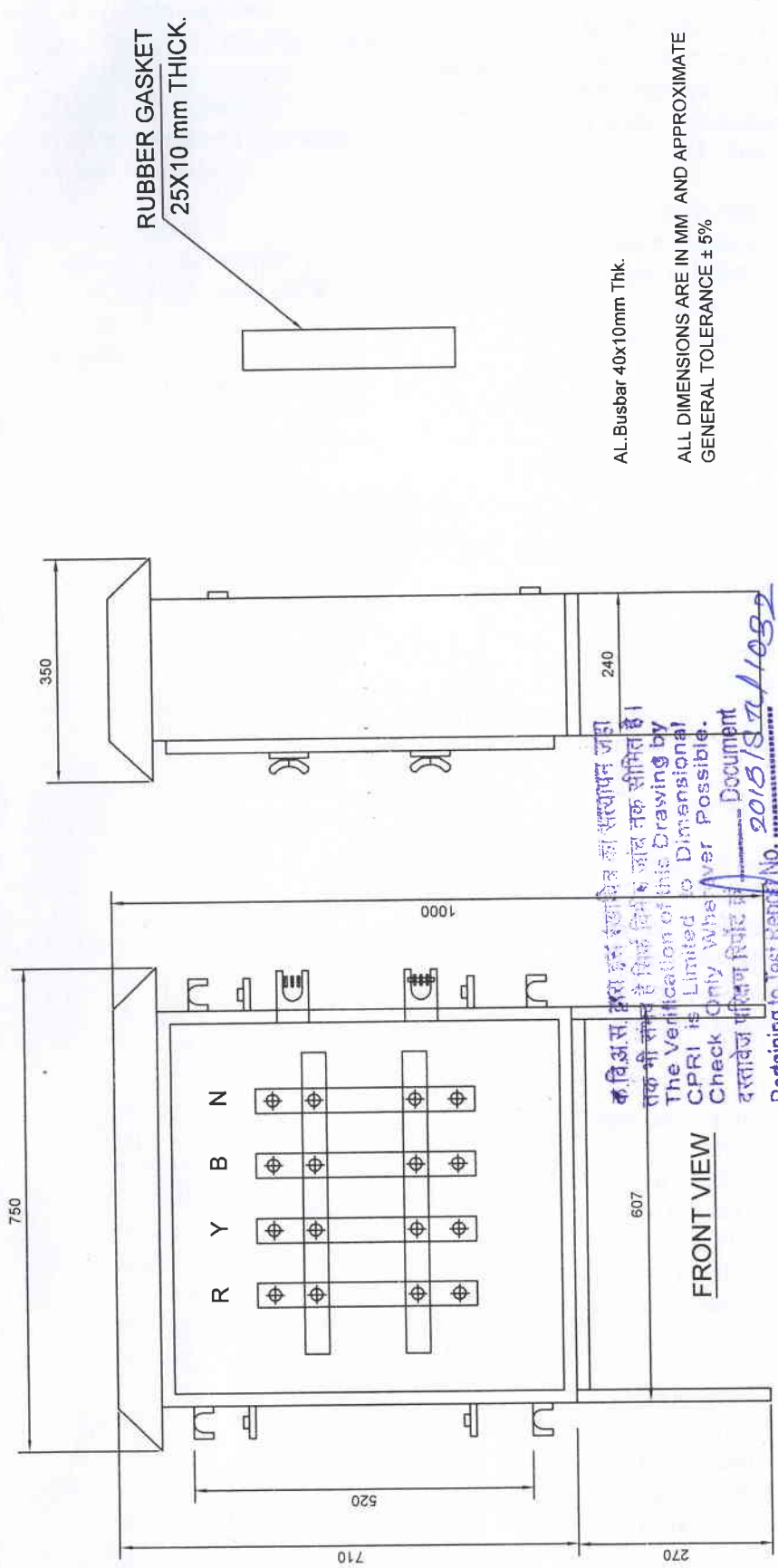
The test report is issued when the sample is tested for specific test required by the customer either in accordance with National/International standards or as per customer's requirements but no certification on the performance of the sample tested. The test report will contain the record of the values of test parameters as obtained during testing, the physical condition of the apparatus during testing, the physical condition of the apparatus during/after the test(s), copy(ies) of Oscillogram(s), record of supplementary test(s) if any conducted but no certification on the performance of the apparatus tested.

Test Certificate:

The test certificate is issued on request and payment of the prescribed charges only when the apparatus of particular type and rating has satisfactorily passed all the specified tests in compliance with condition stipulated in a published National/International Standards.

- h) All Documents constituting this test report/certificate are stitched together with a Continuous silk thread/silk ribbon, the two ends of which have been brought over the front sheet of this test report/certificate and sealed with a CPRI logo printed paper sticker/embossed.


(LEENA H. ROY)
TEST ENGINEER



RUBBER GASKET
25X10 mm THICK.

AL. Busbar 40x10mm Thk.

ALL DIMENSIONS ARE IN MM AND APPROXIMATE
GENERAL TOLERANCE $\pm 5\%$

FRONT VIEW

SIDE VIEW

क.वि.अ.स. द्वारा इस दस्तावेज़ का सत्यापन नहीं
किया गया है कि यह दस्तावेज़ वास्तविक सही है।
The Verification of this Dimensional
CPRI is Limited to Dimensional
Check Only Wherever Possible.
दस्तावेज़ परमाणु रूप में Document
Pertaining to Test Report No. 2015/S/11052

ALL DIMENSIONS ARE IN MM AND APPROXIMATE
GENERAL TOLERANCE $\pm 5\%$

TITLE- L.T PANEL 400 AMPS 415 V	DRG BY- D.K.S.	SCALE- N.T.S.	DATE 15/07/2015	SIA SALES CORPORATION SHIVAM 2 ESTATE, GO NO. B106, NR SANGAM PARK SOCIETY SARKHEJ TA AHMEDABAD, -380052
	CHD BY- P.K.G.		DRG NO :- ssc/CPRI/IP/00	
APP.BY	P.K.G.			

सी पी आर आई संगठन

केन्द्रीय विद्युत अनुसंधान संस्थान

प्रो. सर सी.वी. रामन रोड, पो. बा. सं. 8066

सदाशिवनगर, बेंगलूर - 560 080. भारत

ई पी ए बी एक्स : 23601454, 23601905, 23600921

23602919, 23602829, 23600825, 23601258, 23602061

फैक्स : 080-23601213, 23602277

वेब साइट : <http://powersearch.cpri.res.in>

<http://www.cpri.in>

स्विचगियर परीक्षण एवं विकास केन्द्र

गोविन्दपुरा, भोपाल - 462 023. मध्यप्रदेश

फोन : 0755-2586682, 2587349, 2586343, 25869997

फैक्स : 0755-2587774

ई-मेल : stds@cpri.in

ad_cpri@dataone.in

अति उच्च वोल्टता अनुसंधान प्रयोगशाला

पो. बा. सं. 9

उपल पो. ऑ. वारंगल राजमार्ग, हैदराबाद - 500 039. (आं.प्र.)

ई पी ए बी एक्स : 040-27203112, 27208067, 27203622

फैक्स : 040-27203378, 27201127

ई-मेल : uhvac@cprihyderabad.com

ताप अनुसंधान केन्द्र

सी पी आर आई कॉलोनी, विद्युत विहार

कोराडी - 441 111. नागपुर (महाराष्ट्र)

फोन : 07109-262170

फैक्स : 07109-262170

ई-मेल : cpri@nagpur.dot.net.in

क्षेत्रीय परीक्षण प्रयोगशाला

उ-ए, इंस्टीट्यूशनल एरिया,

सेक्टर - 62 नोएडा - 201 309 (उ.प्र.)

फोन : 0120-2402823, 2402058

फैक्स : 0120-2402824

ई-मेल : rtlnoida@gmail.com

क्षेत्रीय परीक्षण प्रयोगशाला

प्रथम तल सी टी डी कार्यशाला

WBSEB, अभिक्षण बिल्डिंग (भवन)

'बी एन' ब्लॉक, सेक्टर - V

साल्ट लेक सिटी, कोलकाता - 700 091

टेलीफैक्स : 033-64511887

ई-मेल : prabhatmaiti@rediffmail.com

मोबाइल : 98311 24456

क्षेत्रीय परीक्षण प्रयोगशाला

क्र. 4, टाइप III (पुराना ए टी)

ए एस ई.बी. कॉलोनी, नारंगी,

गोवाहाटी - 781 026. (असम)

टेलीफैक्स : 0361-2650299

फोन : 98647 16561

ई-मेल : gk@cpri.in, manas@cpri.in, rtl_g@cpri.in

CPRI FORMATIONS

CENTRAL POWER RESEARCH INSTITUTE

PROF. SIR C.V. RAMAN ROAD, P.B No 8066.

SADASHIVANAGAR, BANGALORÉ - 560 080 INDIA

EPABX : 23601454, 23601905, 23600921

23602919, 23602829, 23600825, 23601258, 23602061

Fax : 080-23601213, 23602277

Website : <http://powersearch.cpri.res.in>

<http://www.cpri.in>

SWITCHGEAR TESTING & DEVELOPMENT STATION

GOVINDPURA, BHOPAL - 462 023. MADHYA PRADESH

PHONE : 0755-2586682, 2587349, 2586343, 2586997

FAX : 0755-2587774

E-mail : stds@cpri.in

ad_cpri@dataone.in

ULTRA HIGH VOLTAGE RESEARCH LABORATORY

P.B. NO. 9, UPPAL P.O. WARANGAL HIGHWAY

HYDERABAD - 500 039 (A.P.)

EPABX : 040-27203112, 27208067, 27203622

FAX : 040-27203378, 27201127

E-mail : uhvac@cprihyderabad.com

THERMAL RESEARCH CENTRE

CPRI Colony, Vidyut Vihar

KORADI - 441 111, NAGPUR (MAHARASHTRA)

PHONE : 07109-262251-53

FAX : 07109-262170

E-mail : cpri@nagpur.dot.net.in

REGIONAL TESTING LABORATORY

3-A, INSTITUTIONAL AREA,

SECTOR 62, NOIDA - 201 309 (U.P.)

PHONE : 0120-2402823, 2402058

FAX : 0120-2402824

E-mail : rtlnoida@gmail.com

REGIONAL TESTING LABORATORY

1st FLOOR, CTD WORKSHOP,

WBSEB, ABHIKSHAN BUILDING,

'BN' BLOCK, SECTOR - V,

SALT LAKE CITY, KOLKATA - 700 091

TELEFAX : 033-64511887

E-mail : prabhatmaiti@rediffmail.com

Mobile : 98311 24456

REGIONAL TESTING LABORATORY

NO. 4, TYPE III (OLD A.T.)

A.S.E.B. COLONY, NARANGI

GUWAHATI - 781 026. (ASSAM)

TELEFAX : 0361 - 2650299

TELEPHONE (M) : 98647 16561

E-mail : gk@cpri.in, manas@cpri.in, rtl_g@cpri.in