

केन्द्रीय विद्युत अनुसंधान संस्थान
CENTRAL POWER RESEARCH INSTITUTE
स्विचगियर परिक्षण तथा विकास केन्द्र
Switchgear Testing & Development Station,
गोविन्दपुरा, Govindpura, भोपाल BHOPAL- 462 023

तिब्र डाक द्वारा/ BY SPEED POST

दूरभाष / Telephone : 0755 - 2586944

फैक्स नं./Fax No. : 0755 - 2587774

संदर्भ क्र. एस.टी.डी.एस./एसटीएल/ 190
Reference No. STDS/STL(16)/

दिनांक : 17.03.2016

Date : _____

प्रति,

में. युनिक ट्रान्सफार्मर सर्विस इन्डस्ट्रिज,
जीएफ-2, रेवा अपार्टमेंट, एलआयसी
कार्यालय के पास, डॉ. जिवराज मेहता हास्पिटल
रोड, वसना, अहमदाबाद-380 007

To,

M/s Unique Transformer Service Industries,
GF-2, Reva Appartment, Near LIC Office,
Dr. Jivraj Mehta Hospital Road, Vasna,
AHMEDABAD- 380 007

विषय :- अंतिम परीक्षण रिपोर्ट का प्रेषण क्र. एसटीएल/

Sub :- Despatch of Final Test Report No. STL/2016/055,074

महोदय/Dear Sir,

कृपया इस पत्र के साथ हमारी प्रयोगशाला में (1) Degree of Protection IP-55 (Category-1)
(2) Verification of temperature rise limits दिनांक 15/01/2016 एवं 18/01/2016 को किये गये परीक्षण की
उर्पयुक्त दर्शायी गयी अंतिम परीक्षण रिपोर्ट संलग्न है ।

Please find enclosed herewith the above mentioned final test report for the test conducted on
_____ at our Laboratory during the month.

अगर इस रिपोर्ट में कोई विसंगति है तो इसकी सूचना हमें रिपोर्ट जारी करने के 45 दिन के अन्दर लिखित में
दी जाए ताकि हम आवश्यक सुधार कर सकें, जिसके लिए रिपोर्ट की सभी प्रतियाँ वापस की जाय । कृपया ध्यान दिया
जाए कि इस दिनांक के बाद मिलने वाले निवेदन पर विचार नहीं किया जाएगा ।

Discrepancies in this rpeort must be brought to our notice in writing within 45 days of the date of issue
of this report for effecting necessary corrections for which all the copies of report must be returned please note
that request received beyond this date will not be entertained.

धन्यवाद / Thanking You,

भवदीय / Yours faithfully,



अभियांत्रिकी अधिकारी ग्रेड-4 एसटीएल
Engineerring Officer Gr-4, STL

CENTRAL POWER RESEARCH INSTITUTE
(Member of STL)



CPRI

TEST REPORT

Test Report No.

: 2016/STL/055

Dated :

17 MAR 2016

Name and Address of the Customer

: M/s Unique Transformer Service Industries,
GF-2, Reva Appartment, Near LIC Office,
Dr. Jivraj Mehta Hospital Road, Vasna,
Ahmedabad - 380 007

Name and Address of the Manufacturer

: M/s Unique Transformer Service Industries,
GF-2, Reva Appartment, Near LIC Office,
Dr. Jivraj Mehta Hospital Road, Vasna,
Ahmedabad - 380 007

Particulars of Sample(s) Tested

: 415V, 400A, LT Panel

Condition of sample(s) on receipt
Type

: New
: Outdoor

Designation

: NIL

Serial Number(s)

: NIL

Number of Sample(s) Tested

: One

CPRI sample code number(s)

: STDSST215S1205

Sealing of the sample, if any

: NIL

Particulars of test(s) conducted

: Degree of Protection IP-55 (Category -1)

Date(s) of Test(s)

: 11/01/2016 & 12/01/2016

Test(s) in accordance with

: Cl. C 13.4 & C 14.2 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

: Mr. Avinash Singh

Other than Customer's Representatives

: NIL

Test subcontracted with name and address of
the laboratory

: NONE

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


(A.K. KHANRA)

TEST ENGINEER




(A. AWASTHI)
JOINT DIRECTOR

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



CPRI


TEST REPORT

Test Report No: 2016/STL/055

Date : 17 MAR 2016

SUMMARY OF TEST

1. Test conducted : Degree of Protection IP - 55 (Category -1)
2. Rating for which tested : 1) Ingress protection against solid particles IP-5X
2) Ingress protection against liquids 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 : UTSI/CPRI/IP/00 Rev 01
 - 3.4 Test circuit drawing No(s). : NIL
 - 3.5 Photograph No(s). : NIL


(A.K. KHANRA)
TEST ENGINEER

CENTRAL POWER RESEARCH INSTITUTE
(Member of STL)



CPRI

TEST REPORT


Test Report No: 2016/STL/055

Date : 17 MAR 2016

DESCRIPTION OF THE SAMPLE TESTED

(As assigned by the manufacturer)

Sample	: LT Panel
Rated voltage (VAC)	: 415
Rated current (Amps)	: 400
Frequency (Hz)	: 50
Insulation level (V)	: 660
No. of phases	: 3 Phase + N
Dimensions of the sample	: As per drawing
Rated short time current	: -
Category of enclosure	: 1


(A.K. KHANRA)
TEST ENGINEER

CENTRAL POWER RESEARCH INSTITUTE
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CPRI

TEST REPORT

Test Report No: 2016/STL/055

Date : 17 MAR 2016

SCHEDULE OF TESTS

- 1) Test conducted : Degree of Protection IP-5X (Category -2)
Date of test : 11/01/2016 & 12/01/2016
Condition of sample before test : New
Test Details : As per Standard
i) The test wire of 1.0mm diameter was applied on all possible openings with a force of 1N as per standard
ii) 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
200mm of water column	8 hours


- Observations : (i) The wire of specified diameter did not enter the enclosure
: (ii) No traces of powder observed inside the sample after 5X test

- 2) Test conducted : Degree of Protection IP -X5
Date of test : 12/01/2016
Condition of sample before test : As such after IP 5X test.
Test details : Sample was placed in normal position and test was conducted by spraying the enclosure from all practicable directions with a stream of water from a standard test nozzle 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 after X5 test.

CONCLUSION : The test results indicate that the sample tested complies with the requirement of the Cl. C 13.4 & C 14.2 of IS / IEC : 60947 (Part-1), 2004.


(A.K. KHANRA)
TEST ENGINEER

CENTRAL POWER RESEARCH INSTITUTE
(Member of STL)



CPRI

TEST REPORT

Test Report No: 2016/STL/055

Date : 17 MAR 2016

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:

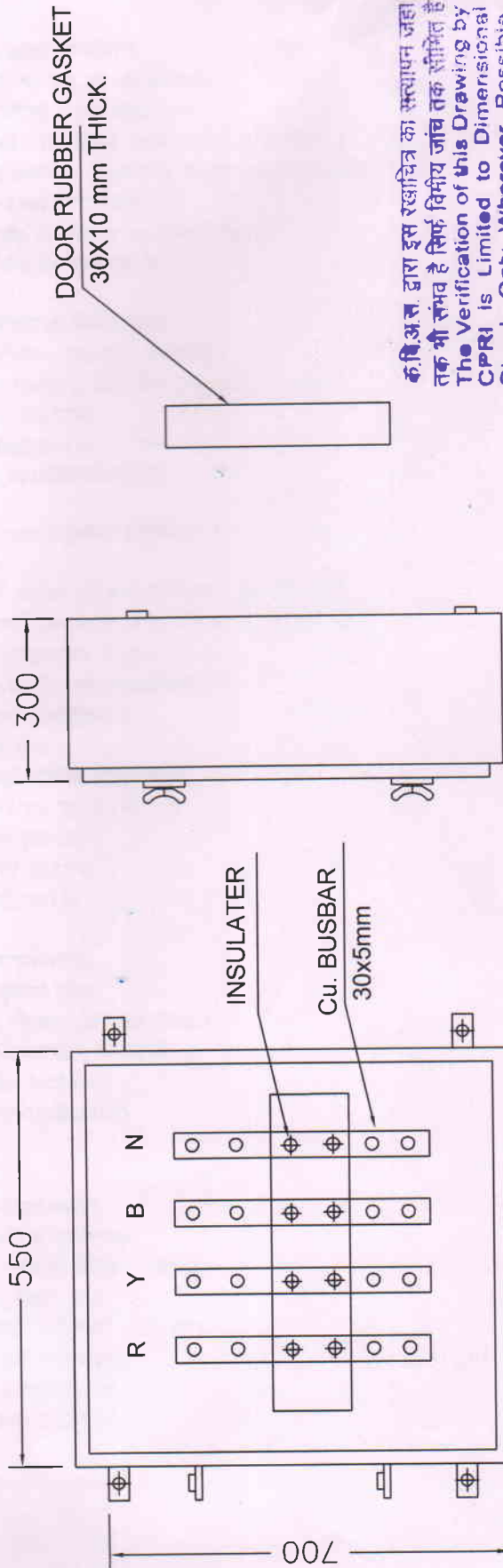
The test report is issued when the sample is tested for specific test required by the customer either in accordance with National/International standards or as per customer's requirements but no certification on the performance of the sample tested. The test report will contain the record of the values 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.


(A.K. KHANRA)
TEST ENGINEER




क.वि.अ.स. द्वारा इस रेखाचित्र का स्त्यापन जहाँ तक भी संभव है सिर्फ विमीय जांच तक सीमित है।
The Verification of this Drawing by CPRI is Limited to Dimensional Check Only Wherever Possible.
दस्तावेज परिक्षण रिपोर्ट क्र. 2016/574053
Pertaining to Test Report No. 2016/574053

अभियंत्रिकी अभियंता
Engineering Officer
सी.बी.आर.आई. / C.B.I.
भोपाल / Bhopal

SIDE VIEW

FRONT VIEW

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

T PANEL 400 AMPS 415 V				UNIQUE TRANSFORMER SERVICE INDUSTRIES GF-2 REVA APPARMENT NEAR L.I.C. OFFICE, DR. JIVRAJ MEHTA HOSPITAL ROAD VASNA AHMEDABAD-380 007	
DRG BY-	NAME	SCALE-	N.T.S	REV. NO. 01	DATE 15/11/2015
CHD BY-	D.K.S.			UTS/CPRI/IP/00	DRG NO
APP BY	P.K.G.				

सी पी आर आई संगठन

केन्द्रीय विद्युत अनुसंधान संस्थान

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

सदाशिवनगर, बंगलूर - 560 080, भारत

ई पी ए बी एक्स : 23601454, 23601905, 2, 23600921

23602919, 23602829, 23600825, 23601258, 23602061

फैक्स : 080-23601213, 23602277

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

<http://www.cpri.in>

स्विचगियर परीक्षण एवं विकास केन्द्र

गोविन्दपुरा, भोपाल - 462 023. मध्यप्रदेश

फोन : 0755-2586682, 2587349, 2586343, 2586997

फैक्स : 0755-2587774

ई-मेल : stds@cpri.in

ad_cpri@dataone.in

अति उच्च वोल्टता अनुसंधान प्रयोगशाला

पो.बा.सं. 9

उप्पल पो. ऑ. वारंगल राज मार्ग, हैदराबाद - 500 039. (ऑ.प्र.)

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

फैक्स : 040-27203378, 27201127

ई-मेल : uhvac@cprihyderabad.com

uhvrl.cpri@nic.in

ताप अनुसंधान केन्द्र

सी पी आर आई कॉलोनी, विद्युत विहार

कोराडी - 441 111 नागपुर (महाराष्ट्र)

फोन : 07109-262170

फैक्स : 07109-262170

ई-मेल : trc@cpri.in

क्षेत्रीय परीक्षण प्रयोगशाला

3-ए, इंस्टीट्यूशनल एरिया,

सेक्टर - 62, नोएडा - 201 309 (उ.प्र.)

फोन : 0120-2402823, 2402058

फैक्स : 0120-2402824

ई-मेल : rtlnoida@cpri.in

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 : maiti@cpri.in

मोबाइल : 9831124456

क्षेत्रीय परीक्षण प्रयोगशाला

क्र. 4. टाइप 111 (पुराना ए टी)

ए.एस.ई.बी. कॉलोनी, नारंगी

गोवाहाटी - 781 026 (असम)

टेलीफैक्स : 0361-2650299

फोन : 98647 16561

CPRI FORMATIONS

CENTRAL POWER RESEARCH INSTITUTE

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

SADASHIVANAGAR, BANGALORE - 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, 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

uhvrl.cpri@nic.in

THERMAL RESEARCH CENTRE

CPRI COLONY, Vidyut Vihar

KORADI - 441 111, NAGPUR (MAHARASHTRA)

PHONE : 07109-262251-53

FAX : 07109-262170

E-mail : trc@cpri.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@cpri.in

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 : maiti@cpri.in

Mobile : 9831124456

REGIONAL TESTING LABORATORY

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

A.S.E.B. COLONY, NARANGI

GUWAHATI - 781 026 (ASSAM)

TELEFAX : 361-2650299

TELEPHONE (M) : 98647 16561

Email : gk@cpri.in, rtlg@cpri.in