

CPRI

TEST REPORT



CENTRAL POWER RESEARCH INSTITUTE
(A Govt. of India Society)
Regional Testing Laboratory
3A, Institutional Area, Sector - 62
Noida - 201 309

CENTRAL POWER RESEARCH INSTITUTE



TEST REPORT

CPRI

Test Report Number : CPRINOAHVMISC20T0049 Date : 21.February.2020

Name and Address of the Customer : M/s. Allied Engineers
84/18, 19, 20, Maya Ram Ka Hata, Maqboolganj,
Lucknow, U.P.-226018

Name and Address of the Manufacturer : M/s. Allied Engineers
E161, UPSIDC, Kursi Road, Barabanki, U.P.

Particulars of Sample tested : 415Volts, 6Amps, Loop in Loop Junction Box

Type : Order No. : DMRC/TENDER/O&M/OEW/-601/2019/639/1859

Description of test sample : Refer Sheet 2 of 5

Serial Number : AE/KR/TESTING/IP-65-17360

Number of Sample tested : One

Date(s) of Test(s) : 13 & 14 February 2020

CPRI sample code number(s) : NOAHVMISC20S045

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

Test in accordance with Standard/specification : IS: 61439(Part-1), 2011 & IS: 61439(Part-2), 2011

Sampling Plan : NIL

Customer's Requirement : NIL

Deviations, if any : NIL

Name of the witnessing persons

Customer's Representatives : Mr. Anjani Pandey

Other than Customer's Representatives : NIL

Test subcontracted with 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) : ONE

No. of Test Circuit Diagram(s) : NIL

No. of drawing(s) : ONE

(M.K.Jaiswal)
Test Engineer

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Plot No.-3A, Institutional Area, Sec-62, Noida-201309 (U.P.)



(S. Bhattacharyya)
Head of Division
Approved by

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Regional Testing Laboratory

High Voltage laboratory
Regional Testing Laboratory, Plot No. 3A,
Institutional Area, Sector-62, Noida-201309, (UP), India.
Fax 0120-2402824 and Phone No. 0120-2402823

प्लॉट नं० 3A, संस्थान क्षेत्र, सेक्टर-62, नोएडा-201309
Plot No.-3A, Institutional Area, Sec-62, Noida-201309 (U.P.)

Sheet 1 of 5

CENTRAL POWER RESEARCH INSTITUTE

TEST REPORT



Test Report Number: CPRINOAHVMISC20T0049

Date : 21.February.2020

DESCRIPTION OF THE SAMPLE TESTED

(As assigned by the manufacturer)

Sample	: Loop in Loop Junction Box
Rated voltage(Volts)	: 415
Rated current(Amps)	: 6
Frequency (Hz)	: 50
Insulation Level	: 660Volts
No. of Phases	: 1-ph + N
Dimension of Equipment (HxWxD)	: 250mm x 200mm x 100mm
Rated Short Time Current	: NIL

(M.K.Jaiswal)
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Date: 21.February.2020

SUMMARY OF TESTS CONDUCTED

1. Tests conducted : Degree of Protection: IP-65
2. Rating for which tested : 1). Protection against solid foreign body: IP-6X
2). Protection against Ingress of water: IP-X5
3. Schedule of tests

Tests Conducted	Clause Numbers	Sheet
Degree of Protection :IP-65	10.3 of IS: 61439(Part-1) & IS: 61439(Part-2)	4 of 5

4. Oscillogram Numbers : NA
5. Graph Numbers : NA
6. Photograph Numbers : CPRINOAHVMIISC20T0049P01
7. Test Circuit Diagram Numbers : NIL
8. Drawing Numbers : As given bellow

The manufacturer has guaranteed that the sample submitted for the test(s) has been manufactured in accordance with the following drawings

Sl. No.	Drawing Number	Sheet Number	Revision Number
1	AE/KR-150220/21	01 of 01	Nil

It is verified that these drawings adequately represent the sample tested. Verification of this drawing by CPRI is limited to dimensional check only wherever possible.

(M.K.Jaiswal)
Test Engineer

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Test Report Number: CPRINOAHVMISC20T0049

Date : 21.February.2020

TEST RESULTLS

Test conducted : Degree of Protection- 65

Degree of Protection IP-6X

Date of test : 21.February.2020

Condition of the sample before test : New

Test Details

Test Description	Differential Pressure	Test Duration
The test object is placed inside a closed chamber in which talcum powder (unscented) is maintained in suspension by air current as per standard. The test object was connected vacuum pump to maintain the differential pressure of 200mm of water column,	200mm	2 Hours

Observations : No Traces of telecom powder was observed inside the sample after IP-6X.

Degree of Protection IP -X5

Date of test : 21.February 2020

Test details : The sample was watted from all the direction by means of hose nozzle with a diameter of 6.3mm held at distance of 3 meters, delivery rate being maintained at 12.5 litres for minutes as per standard. Test duration 3.0 minutes

Observations : No traces of water observed inside the sample after IPX5 test.

CONCLUSION : The sample tested complies with the requirement of cl. 10.3 of IS: 61439((Part-1), 2011 & IS: 61439(Part-2), 2011.

(M.K.Jaiswal)
Test Engineer

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CENTRAL POWER RESEARCH INSTITUTE
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Date : 21.February.2020

NOTE

- a) The Test results relate only to the item(s) tested.
- b) Publication or reproduction of this 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) Any anomaly/discrepancy in the test report /Certificate should be brought to the notice of CPRI within 45 days from the date of issue.

(M.K.Jaiswal)
Test Engineer

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Date : 21.February.2020



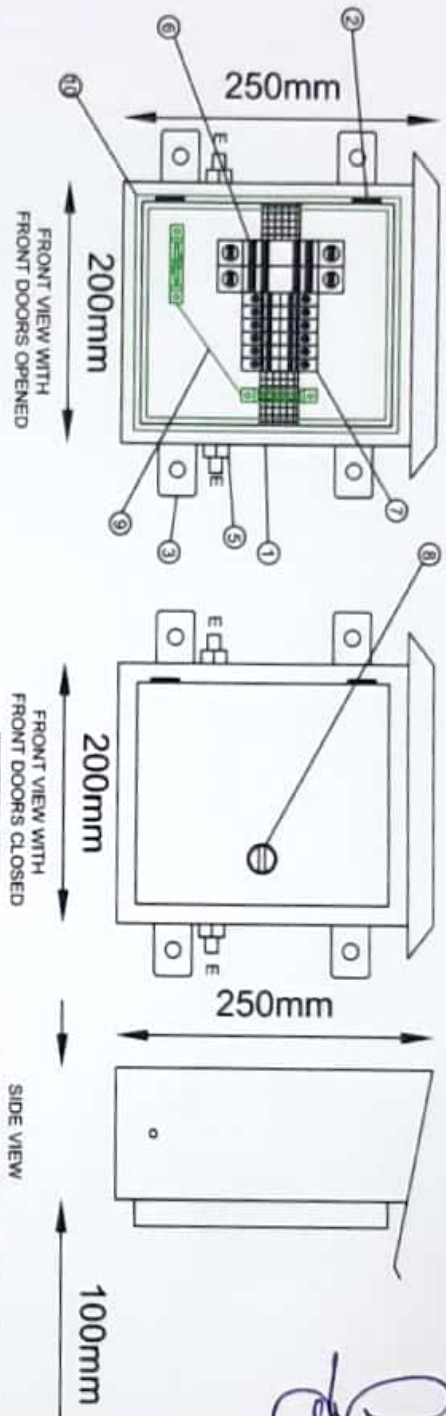
Photograph Numbers: CPRINOAHVMIISC20T0049P01

(M.K.Jaiswal)
Test Engineer

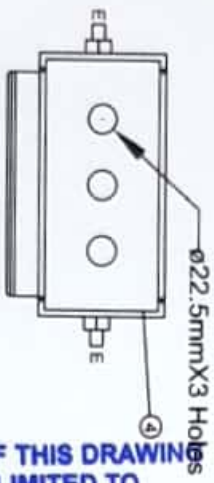
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Plot No.-3A, Industrial Area, Sec-02, Noida-201309 (U.P.)

LOOP IN LOOP JUNCTION BOX (OUTDOOR TYPE)

**THIS DRAWING PERTAINS TO CPRI
TEST REPORT NUMBER : CPRI/NT/HT/MISC/207R/09
Date : 21.02.2020**



[Signature]
**Test Engineers
RTL, CPRI,
NOIDA**



SPECIFICATION

ENCLOSURE : CRCA WITH POWDER COATED
SHEET THICKNESS : 1.6mm
DIMENSION : 250X200X100 mm
DEGREE OF PROTECTION : IP65
MOUNTING : WALL MOUNTING
PAINTING : SIEMENS GREY (RAL 7032)
WITH 7 TANK TREATMENT PROCESS.

**VERIFICATION OF THIS DRAWING
BY CPRI IS LIMITED TO
DIMENSIONAL CHECK ONLY
WHEREVER POSSIBLE**

SIZE - H-250 x W-200 x D-100 mm.

NOTE: ALL DIMENSIONS IN MM.

DETAILS OF ENCLOSURE				
S.NO.	DESCRIPTION	SIZE	QTY.	MAKE
1	ENCLOSURE	250X200X100mm	01 NO.	
2	HINGE		02 NOS.	
3	MOUNTING LEG	3mm	04 NOS.	
4	GLAND PLATE	THICKNESS - 2mm)	01 NO.	
5	EARTH STUD	MBX30MM SS 304	2 NOS.	
6	RCBO	6A DP, 30mA	01 NO.	ABB/L&T/SCHNEIDER
7	TERMINAL	10Sq. mm	8NOS.	ELMEC/CONNECTWELL
8	CHROME LOCK	PVC	01 NO.	POWERMAT
9	NEUTRAL BAR ASSEMBLY (Rail Channel OR Base Mounting)	32A	01 NO.	POWERMAT
10	NEOPRENE GASKET	DOOR & GLAND PLATE		



ALLIED ENGINEERS

ISO 9001 - 2008 CERTIFIED COMPANY CPRI TESTED & PMD APPROVED
MANUFACTURER & DESIGNER OF ALL TYPES OF HT/LT PANELS
(APFC, AMF, PCC, MCC, FEEDER PILLAR, BUS DUCTS ETC.,)
OFFICE ADDRESS: BA/1E, 1B/20 MAYAPUR KA HATA MANDIRI (OLD), LUCKNOW, UTTAR PRADESH,
INDIA, ZIP CODE - 226018
FACTORY ADDRESS: E/161 UPSIDC KURSI ROAD BARABANKI, UTTAR PRADESH, INDIA.
CONTACT NO. 0522-4079482, 491-241-510-8878
WEBSITE: www.alliedengineers.co.in
Email: allied_eng01@gmail.com

DRAWN BY:	PROJECT NAME: DMRC	QTY: 990 NOS.	DWG. NO.: AE/KR-150220/21
CHECKED BY:	CONTRACTOR: KRISHNA REFRIGERATION	DATE: 15/02/2020	LOCATION: UPSIDC, KURSI RD. BARABANKI
APPROVED BY:	SUB CONTRACTOR:	SITE:	REVISION NO:
			SHEET: 1/1