



केन्द्रीय विद्युत अनुसंधान संस्थान

(भारत सरकार, विद्युत मंत्रालय)

क्षेत्रीय परीक्षण प्रयोगशाला

3 ए, इंस्टीट्यूशनल एरिया, सेक्टर- 62, नोएडा- 201 309, गौतम बुद्ध नगर, उत्तर प्रदेश, भारत

CENTRAL POWER RESEARCH INSTITUTE

(Govt. of India, Ministry of Power)

REGIONAL TESTING LABORATORY

3 A, Institutional Area, Sector - 62, Noida - 201 309, Gautam Buddha Nagar, Uttar Pradesh, India

वेबसाइट website : www.cpri.res.in

संदर्भ क्रमांक : सीपीआरआई/आरटीएल/एचवी/2026-27/ 2351
सेवा में/To,

दिनांक (Date) : 03 AUG 2026

मेसर्स- टेलीपावर इंजीनियर्स

पहला, एफ44, 156ए, लेनिन सरानी, वेलिंगटन,

कोलकाता, बेस्ट बंगाल-700 013.

Contact No.-9831274287

M/s. Telepower Engineers

1st, F44, 156A, Lenin Sarani, Waylington,

Kolkata, West Bengal-700 013.

विषय (Sub): परीक्षण प्रमाणपत्र (Test Report): CPRINOAHVMISC26T0455

Dt.:24.07.2026

महोदय / Dear sir,

हमारी प्रयोगशाला में आपके सैंपल पर दिनांक 20.07.2026 को संचालित परीक्षण के संबंध में विषयानुसार दस्तावेज संलग्न है।

Please find attached the subjected documents in respect of the test(s) conducted on your sample on 20.07.2026 at our laboratory.

रिपोर्ट में यदि असंगतियां हो तो इस रिपोर्ट के जारी होने की तारीख से 45 दिन के अंदर लिखित रूप में हमारे ध्यान में लाई जाय ताकि आवश्यक संसोधन किया जा सके और इसके लिए रिपोर्ट की सभी मूल प्रतियां लौटाई जाय। कृपया नोट करें कि इस तारीख के बाद प्राप्त अनुरोधों पर कोई कार्यवाही नहीं की जायेगी।

Any discrepancies in the test report must be brought to our notice in writing within 45 days of the date of issue of this test report for effecting necessary corrections for which all the original copies of the test report must be returned.

Please note that request received beyond this date will not be entertained.

दस्तावेजों की प्राप्ति की पावती भेजे।

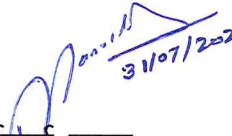
Please acknowledge receipt of the documents.

सधन्यवाद, Thanking you,

संलग्न : उपरोक्त

Encl : As above

भवदीय (Yours sincerely)


31/07/2026
ईकाई- प्रमुख
Unit-Head

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



Test Report Number : CPRINOAHVMISC26T0455 **Date:** 24 July 2026

Name and Address of the Customer : M/s. Telepower Engineers
1st, F44, 156A, Lenin Sarani, Waylington,
Kolkata, West Bengal-700 013.

Name and Address of the Manufacturer : M/s. Telepower Engineers
1st, F44, 156A, Lenin Sarani, Waylington,
Kolkata, West Bengal-700 013.

Particulars of sample tested : 415 V, 4000 A, 3 Phase, LT Panel

Type : Main Distribution Panel

Description of test sample : Refer Sheet 2 of 5

Serial Number : TE/TEST/702

Number of samples tested : One

Date of receipt of sample : 10 July 2026

Date(s) of Test(s) : 20 July 2026

CPRI Sample code Number(s) : NOAHV26S0403

Particulars of tests conducted : Refer sheet 3 of 5

Test in accordance with Standard/Specification : As per customer requirements

Sampling Plan : Nil

Customer's Requirement : 1). Impulse withstand voltage test to be conducted at 8 kV_{peak}
2). Power frequency withstand voltage test to be conducted at 2.2 kV_{rms}
3). P.F. withstand voltage test & impulse withstand voltage tests to be conducted as per IS/IEC 61439-1: 2020 & IS/IEC 61439-2: 2020

Deviations if any : Nil

Name of the witnessing persons : Nil

Customers representative : Mr. Tarun Kumar Bhattacharjee

Other than customer's representatives : Nil

Name and Address of External Service Provider (if applicable) : Nil

Documents constituting this report (in words)

Number of Sheets : Five

Number of Oscillogram(s) : Nil

Number of Graph(s) : Nil

Number of Photograph(s) : Two

Number of Test Circuit Diagram(s) : Nil

Number of Drawing(s) : Four


(Satish Kumar)
Test Engineer




(L.N. GIRI)
Engineering Officer Gr. 4
Reviewed and Authorized by

CENTRAL POWER RESEARCH INSTITUTE

TEST REPORT



Test Report Number: CPRINOAHVMISC26T0455

Date: 24 July 2026

DESCRIPTION OF SAMPLE TESTED

(As assigned by the manufacturer)

Sample	: LT Panel
Rated voltage (Volts)	: 415
Rated current (Amps)	: 4000
Frequency (Hz)	: 50
Insulation level	: 690 V
No. of Phase	: 3 PH+N
Rated Short Time Current	: 70 kA _{rms} for one second with initial peak of 154 kA _{peak}
Pollution Degree	: 3
Material Group	: IIIa


(Satish Kumar)
Test Engineer

CENTRAL POWER RESEARCH INSTITUTE

TEST REPORT



Test Report Number: CPRINOAHVMIISC26T0455

Date: 24 July 2026

SUMMARY OF TESTS CONDUCTED

1. Tests conducted : Verification of Di-electric Property
2. Rating for which tested : (a). Power frequency withstand voltage test at 2.2 kV_{rms} for 60 seconds
(b). Impulse withstand voltage test as per clause no. 10.9.3.3 at 6.9 kV_{rms} corrected to 200 m of sea level i.e. 6.8 kV_{rms} for 1 second for 8 kV_{peak} Impulse voltage level as per table 10 of the IEC 61439-1: 2020
3. Schedule of tests

Tests Conducted	Clause Numbers	Sheet
Verification of Di-electric Property	As per customer requirement	4 of 5

4. Oscillogram Numbers : Nil
5. Graph Numbers : Nil
6. Photograph Numbers : CPRINOAHVMIISC26T0455P01 & MISC26T0455P02
7. Test Circuit Diagram Numbers : Nil
8. Drawing Numbers : As given below

Drawing Numbers

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	TE/TEST/702	1 of 4	0
2	TE/TEST/702	2 of 4	0
3	TE/TEST/702	3 of 4	0
4	TE/TEST/702	4 of 4	0

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


(Satish Kumar)
Test Engineer

CENTRAL POWER RESEARCH INSTITUTE

TEST REPORT



Test Report Number: CPRINOAHVMISC26T0455

Date: 24 July 2026

TEST RESULTS

Laboratory conditions		
Dry bulb temperature : 35 °C,	Wet bulb temperature : 28 °C,	Atmospheric pressure : 978 mbar

Test conducted: Dielectric Properties

a). Power frequency withstand voltage test

Test Details:

Sl. No.	Voltage applied to	Connected to earth	Voltage applied kV _{rms}	Remarks
1	RYBN	Frame	2.2	Withstood for 60 sec.
2	R	YBN & Frame	2.2	Withstood for 60 sec.
3	Y	RBN & Frame	2.2	Withstood for 60 sec.
4	B	RYN & Frame	2.2	Withstood for 60 sec.
5	N	RYB & Frame	2.2	Withstood for 60 sec.

b). Impulse withstand voltage test as per clause no. 10.9.3.3, i.e. Alternative power frequency voltage test at 6.9 kV_{rms} corrected to 200 m of sea level i.e. 6.8 kV_{rms} for 1 second for 8 kV_{peak} Impulse voltage level as per table 10 of the IEC 61439-1: 2020

Test Details:

Sl. No.	Voltage applied to	Connected to earth	Voltage applied kV _{rms}	Remarks
1	RYBN	Frame	6.8	Withstood for 1 sec.
2	R	YBN & Frame	6.8	Withstood for 1 sec.
3	Y	RBN & Frame	6.8	Withstood for 1 sec.
4	B	RYN & Frame	6.8	Withstood for 1 sec.
5	N	RYB & Frame	6.8	Withstood for 1 sec.

Conclusion: The sample tested complies with the requirement of customer for the tests conducted.


(Satish Kumar)
Test Engineer

CENTRAL POWER RESEARCH INSTITUTE

TEST REPORT



CPRI

Test Report Number: CPRINOAHVMISC26T0455

Date: 24 July 2026

NOTE

- a) The Test results relate only to the sample(s) tested.
- b) Publication or reproduction of this Test Report in any form other than by complete set of the whole Test Report and in the language written is not permitted without the written consent of CPRI.
- c) Any Corrections / erasure invalidate the Test Report.
- d) Any anomaly/discrepancy in the Test Report / Test Certificate should be brought to the notice of CPRI within 45 days from the date of issue.
- e) The laboratory is responsible for all the information provided in the report, except for the information provided by the customer. Data provided by a customer is clearly identified.


(Satish Kumar)
Test Engineer

-----End of Test Report-----

CENTRAL POWER RESEARCH INSTITUTE

TEST REPORT



CPRI

Test Report Number: CPRINOAHVMIISC26T0455

Date: 24 July 2026



Photograph Number: CPRINOAHVMIISC26T0455P01 (During Test)


(Satish Kumar)
Test Engineer

CENTRAL POWER RESEARCH INSTITUTE

TEST REPORT



CPRI

Test Report Number: CPRINOAHVMISC26T0455

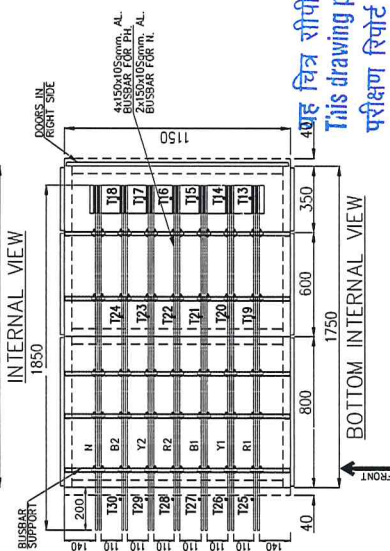
Date: 24 July 2026



Photograph Number: CPRINOAHVMISC26T0455P02 (During Test)


(Satish Kumar)
Test Engineer

1112131415161718										
A										
B										
C										
D										
150										
TELEPOWER ENGINEERS										
KOLKATA, WEST BENGAL-700013										
EQUIPMENT : LT PANEL										
SR.NO. : TE/TEST/702										
RATED VOLTAGE : 415V										
RATED CURRENT : 4000A										
RATED FREQUENCY : 50HZ										
NAME PLATE : यह चित्र सीपीआरआई स संबंधित है। परीक्षण रिपोर्ट सं./Test Report No. CPRI/NOAHY misc26 TOYSS दिनांक/Date 24 July 2026										
GENERAL TOLERANCE ± 2%										
SR.NO. TE/TEST/702										
DRAWING NO. TE/TEST/702										
REV. 0 SHEET 1 OF 4										
ALL DIMENSION ARE IN mm										
TELEPOWER ENGINEERS										
1st, F44, 156A LENIN SARANI, WAYLINGTON, KOLKATA, WEST BENGAL-700013										
This Drawing & any information or descriptive matter set out hereon are the confidential property of TELEPOWER ENGINEERS & must not be disclosed, loaned, copied or used for manufacturing, tendering or for any other purpose without their written permission										
DRWN. TARUN										
CHKD. CHKD.										
DRWN. DRWN.										
DATE DATE										
REV. REV.										
APPD. TARUN										
DATE 03.07.26										
VERIFICATION OF THIS DRAWING BY CPRI IS LIMITED TO DIMENSIONAL CHECK ONLY, WHEREVER POSSIBLE										
सीपीआरआई द्वारा इस चित्र का सत्यापन जहाँ भी संभव हो, यह केवल आयामी जाँच तक ही सीमित है।										
VERIFICATION OF THIS DRAWING BY CPRI IS LIMITED TO DIMENSIONAL CHECK ONLY, WHEREVER POSSIBLE										
परीक्षण अभियंता आरटीएल सीपीआरआई नोएडा TEST ENGINEER RTL, CPRI, NOIDA										



VIEW

THERMOCOUPLES INCOMING : T1, T2, T3, T4, T5, T6 VBB MID T7, T8, T9, T10, T11, T12 VBB+HBB JOINT : T13, T14, T15, T16, T17, T18 HBB JOINT : T19, T20, T21, T22, T23, T24 OUTGOING : T25, T26, T27, T28, T29, T30 ENCLOSURE (TOP/SIDE) : T31, T32	MAIN BUS BAR SIZE (ALUMINIUM) :- FOR PHASE :- 4X150X10MM, FOR NEUTRAL :- 2X150X10MM, COLOUR BODY :- RAL-7032 COLOUR DOORS :- RAL-7032 MOUNTING PLATE :- RAL-7032 COLOUR OF BASE :- BLACK
--	---

यह चित्र सीपीआरआई से संग्रहित है।
This drawing pertains to CPRI

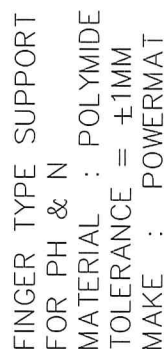
परिक्षण रिपोर्ट सं/ Test Report No. **CPRFNOAHVMISC2670457**
दिनांक/Date **24 July 2026**
RATING : 4000A 415V CRCA SHEET THICKNESS: STRUCTURE: 2MM, DOOR/PARTITION: 1.6MM

NOTE: -

- (1). BUSBAR CHAMBER DOORS SHALL BE LEFT SIDE HINGES & RIGHT SIDE LOCK
- (2). VENTILATION LOUVERS SHALL BE PROVIDED IN REAR SIDE DOORS.
- (3). INSULATOR SUPPORT SHALL BE USED OF POLYAMIDE MATERIAL.
- (4). HT HARDWARE SHALL BE USED FOR JOINTING BUSBAR.

GENERAL TOLERANCE $\pm 2\%$

[illegible]



सीमा क्षेत्र में इस चित्र का सत्यापन
जहाँ भी आवश्यक हो, यह केवल आयामी
जाँच तक ही सीमित है।
VERIFICATION OF THIS DRAWING
BY CPRI IS LIMITED TO
DIMENSIONAL CHECK ONLY WHEREVER DESCRIBED

यह चित्र सीपीआरआई से संबंधित है।
This drawing pertains to CPRI
परीक्षण रिपोर्ट सं./Test Report No. CPRI/2024/07/001
दिनांक/Date... 24 July 2024

Dumac
परीक्षण अभियंता
आरटीएल, सीपीआरआई नोएडा
TEST ENGINEER
RTL, CPRI, NIDA

[illegible]