

# CENTRAL POWER RESEARCH INSTITUTE



**CPRI**

## TEST REPORT

Test Report Number : CPRIBPLSTNC23T0295 Date: 17 October 2023

Name and Address of the Customer : M/s. Elentric Industries Pvt. Ltd.,  
Kendukuchi Chowk, Palasbari Road,  
Bhatta Para, Guwahati-781 017, Assam.

Name and Address of the Manufacturer : M/s. Elentric Industries Pvt. Ltd.,  
Kendukuchi Chowk, Palasbari Road,  
Bhatta Para, Guwahati-781 017, Assam.  
VCB Manufacturer: M/s. Schneider Electric.

Particulars of sample tested : 12kV, 1250A, 26.3kA/03 secs, VCB Panel along with VCB

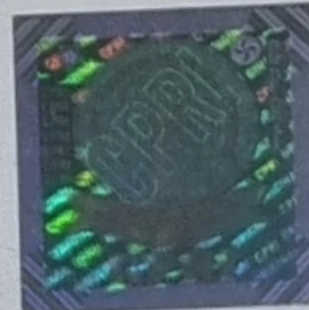
Type : Elentric-11kV, Indoor VCB Panel-Easy Pact-EXE  
Description of test sample : 12kV, 1250A, 26.3kA/03 secs, VCB Panel along with VCB  
Serial Number : Panel: Elentric/AIS/23/002 & VCB:10-2022-W11-1-0007

Number of samples tested : One set  
Date(s) of Test(s) : 24 July 2023  
CPRI Sample code Number(s). : STNC23S0264 (Panel), STNBMISC23S1537 (VCB)  
Particulars of tests conducted : Degree of Protection IP-5X(Category-II)

Test in accordance with : IEC 60529:2013.  
Standard/specification  
Sampling Plan : Nil  
Customer's Requirement : Nil  
Deviations, if any : Nil

Name of the witnessing persons :  
Customer's representative : Shri. Samsul Huda, M/s. Elentric Industries Pvt. Ltd.  
Shri. Sazid Islam, M/s. Elentric Industries Pvt. Ltd.  
Other than customer's representative : Nil  
Test subcontracted with address of the : None  
laboratory  
Documents constituting this report (in words)  
Number of Sheets : Six  
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) : Five

(K.V. Gangadhar Reddy)  
Test Engineer



(Sarita Dongre)  
Head of Division  
Reviewed and Authorized By



# CENTRAL POWER RESEARCH INSTITUTE



## TEST REPORT

Test Report Number: CPRIBPLSTNC23T0295

Date : 17 October 2023 **CPRI**

### DESCRIPTION OF THE SAMPLE TESTED

(As assigned by the manufacturer)

|                                   |   |                                                       |
|-----------------------------------|---|-------------------------------------------------------|
| Sample                            | : | 12kV, 1250A, 26.3kA/03 sec. VCB Panel along with VCB. |
| Type                              | : | Elentric-11kV, Indoor VCB Panel-Easy Pact-EXE         |
| Rated Voltage(kV)                 | : | 12                                                    |
| Rated current (A)                 | : | 1250                                                  |
| No. of phases                     | : | 3                                                     |
| No. of poles                      | : | 3                                                     |
| Frequency (Hz)                    | : | 50                                                    |
| Insulation level (kVrms/kVpeak)   | : | 28/75                                                 |
| Contacts terminal material        | : | Silver Plated Copper Contacts                         |
| Rated SC breaking current (kArms) | : | 26.3                                                  |
| Rated SC making current (kAp)     | : | 65.75                                                 |
| Rated short time current          | : | 26.3 kArms for 3 sec with 65.75 kApk                  |

(K.V. Gangadhar Reddy)  
Test Engineer



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Test Report Number: CPRIBPLSTNC23T0295

Date : 17 October 2023 **CPRI**

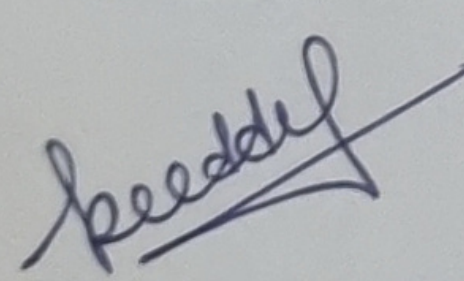
### SUMMARY OF TESTS CONDUCTED

1. Tests conducted : Degree of Protection IP-5X(Category-II)
2. Rating for which tested : 1) Protection against access to hazardous parts IP-5X  
2) Ingress protection against solid particles IP-5X

3. Schedule of tests

| Tests Conducted                          | Clause Numbers                                      | Sheet  |
|------------------------------------------|-----------------------------------------------------|--------|
| Degree of Protection IP-5X (Category-II) | Cl. 12.2, 12.3, 13.3, 13.4, 13.5 of IEC 60529:2013. | 5 of 6 |

4. Oscillogram No(s) : Nil
5. Graph Numbers : Nil
6. Photograph Numbers : CPRIBPLSTNC23T0295P01 & CPRIBPLSTNC23T0295P02
7. Test Circuit Diagram Numbers : Nil
8. Drawing Numbers : Refer sheet 4 of 6

  
(K.V. Gangadhar Reddy)  
Test Engineer



# CENTRAL POWER RESEARCH INSTITUTE

## TEST REPORT



Test Report Number: CPRIBPLSTNC23T0295

Date : 17 October 2023 **CPRI**

### LIST OF DRAWINGS

#### 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      | ELENTRIC/23-24/IP-VCB/CPRI/RATING PLATE | Nil          | 01              |
| 2      | ELENTRIC/23-24/IP-5X-VCB/CPRI/GA        | 1 of 3       | 01              |
| 3      | ELENTRIC/23-24/IP-5X-VCB/CPRI/GA        | 2 of 3       | 01              |
| 4      | ELENTRIC/23-24/IP-5X-VCB/CPRI/GA        | 3 of 3       | 01              |
| 5      | MV12KV263VCB                            | Nil          | 00              |

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.

(K.V. Gangadhar Reddy)  
Test Engineer



# CENTRAL POWER RESEARCH INSTITUTE



## TEST REPORT

Test Report Number: CPRIBPLSTNC23T0295

Date : 17 October 2023 **CPRI**

### TEST RESULTS

Test conducted : Degree of Protection IP-5X (Category –II)  
Date of test : 24 July 2023  
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 |
|----------------------------------|----------------------|
| Nil                              | 8 hours              |

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

**CONCLUSION** : The sample tested complies with the requirement of Cl. 12.2, 12.3, 13.3, 13.4, 13.5 of IEC 60529:2013 for the test(s) conducted.

(K.V. Gangadhar Reddy)  
Test Engineer



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## TEST REPORT



Test Report Number: CPRIBPLSTNC23T0295

Date : 17 October 2023 **CPRI**

### NOTE

- a) The Test results relate only to the item(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 invalidates the Test Report
- d) Any anomaly/discrepancy in the Test Report should be brought to the notice of CPRI within 45 days from the date of issue.
- e) All documents constituting the Test Report are stitched together with a continuous silk thread/silk ribbon, the two ends of which have been brought over the front sheet of the Test Report and sealed with a CPRI logo printer paper sticker/embossed.
- f) NABL has Accredited this laboratory as per ISO/IEC 17025:2017, vide certificate no. TC-5181 for the tests carried out.



TC-5181

(K.V. Gangadhar Reddy)  
Test Engineer

.....End of Test Report.....



# CENTRAL POWER RESEARCH INSTITUTE

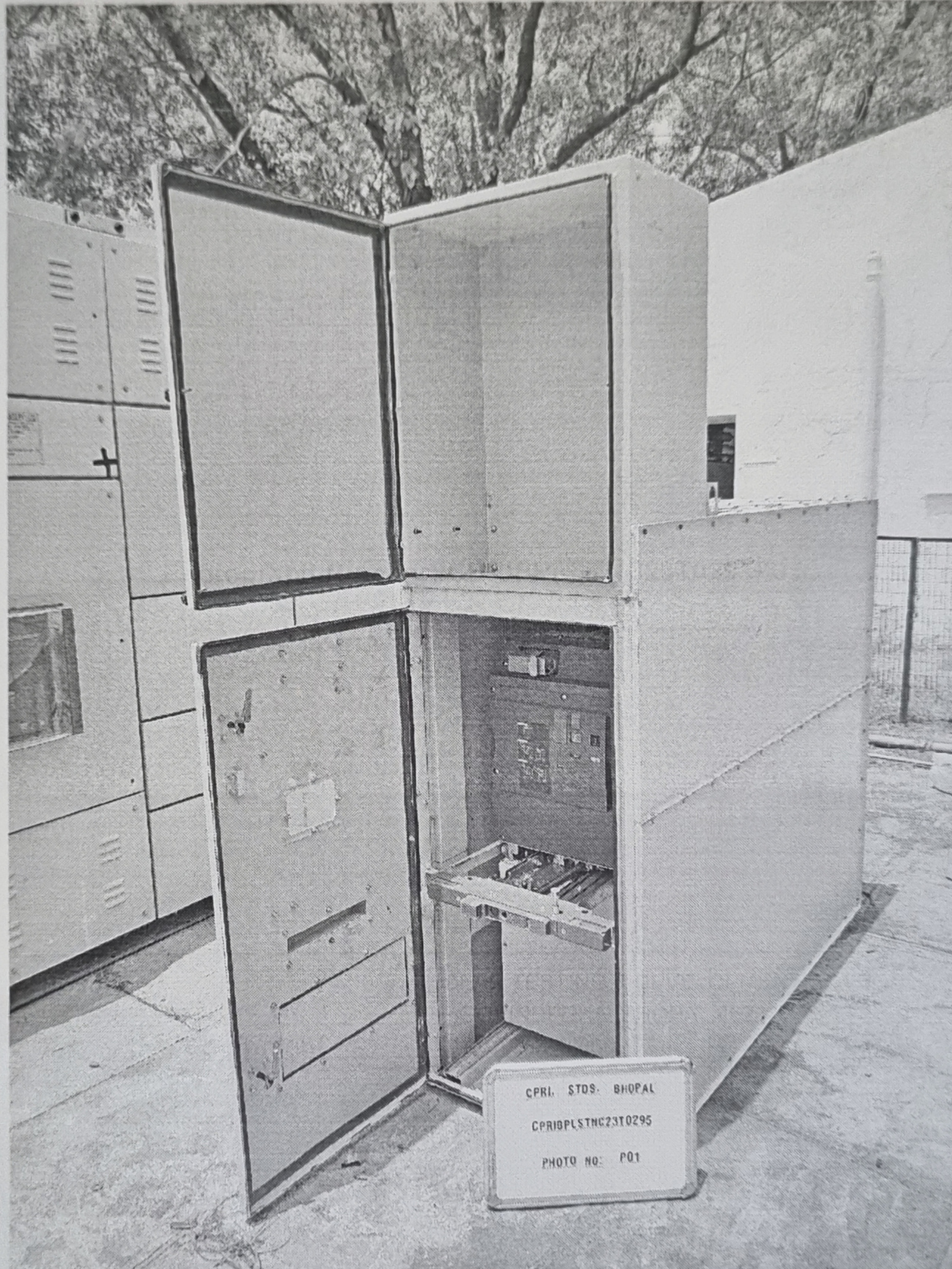
## TEST REPORT



Test Report Number: CPRIBPLSTNC23T0295

Date : 17 October 2023 **CPRI**

### TEST RESULTS



Photograph Number: CPRIBPLSTNC23T0295P01

(K.V. Gangadhar Reddy)  
Test Engineer

ULR-TC5181230STCT0295F

Discipline: Electrical

Group: Switchgear & Protective Equipment

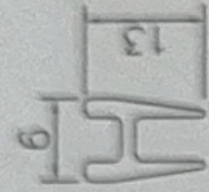
SWITCHGEAR TESTING & DEVELOPMENT STATION

GOVINDPURA, BHOPAL 462023

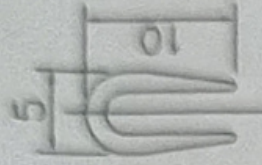
Phone : +91(0)755 2586682 Fax : +91(0)755 2587774



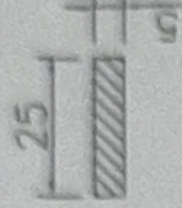
GASKET USED



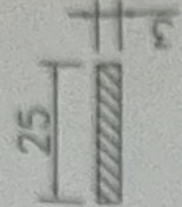
H-TYPE RUBBER GASKET



U-TYPE RUBBER GASKET



SELF ADHESIVE FLAT FOAM/XLPE GASKET



SELF ADHESIVE FLAT FOAM/XLPE GASKET

H-TYPE RUBBER GASKET(13X6)mm & (25X5)mm FLAT FOAM/XLPE SELF ADHESIVE GASKET ON DOOR AND U-TYPE RUBBER GASKET (10X5)mm ON DOOR COLLAR

DOOR LOCK

PANEL NAME PLATE

PROVISION FOR MECHANICAL OPENING OF BREAKER FILLED WITH SILICON SEALANT FROM INSIDE

PROVISION FOR MECHANICAL CLOSING OF BREAKER FILLED WITH SILICON SEALANT FROM INSIDE

H-TYPE RUBBER GASKET(13X6)mm & (25X5)mm FLAT FOAM/XLPE SELF ADHESIVE GASKET ON DOOR AND U-TYPE RUBBER GASKET (10X5)mm ON DOOR COLLAR

DOOR LOCK

VENTILATION LOUVERS BLANKING PLATE COVERED WITH SILICON SEALANT FROM OUT SIDE & COVERED WITH (25X5)mm FLAT FOAM/XLPE SELF ADHESIVE GASKET AND SILICON SEALANT FROM INSIDE

FRONT VIEW

600

1257

803

RELAY & METERING CHAMBER

TECHNICAL OVERVIEW

1. TYPE- SCHNEIDER ELECTRIC HT VCB
2. RATED VOLTAGE-12KV
3. RATED CONTINUOUS CURRENT-1250A
4. RATED FREQUENCY-50Hz
5. RATED INTERRUPTING CURRENT-26.3kA
6. RATED MAKING CURRENT-65.75 kAp
7. RATED SHORT TIME CURRENT-26.3kA FOR 3SEC
8. OPERATING DUTTY-0-0.3SEC-CO-3MIN-CO
9. APPLICABLE STANDARDS-IEC 62271-100,200 & IEC 62271-1
10. POWER FREQUENCY WITHSTAND VOLTAGE-28kV FOR 1MIN.
11. IMPULSE WITHSTAND VOLTAGE-75kVp
12. DEGREE OF PROTECTION-IP5X AS PER IEC 60529
13. TYPE OF MECHANISM-MOTOR CHARGED, STORED ENERGY, SPRING OPERATED
14. MAIN HORIZONTAL BUS -1X80X10 SILVER PLATED COPPER
15. ALL CONNECTION & BUSBAR JOINTS ARE COVERED WITH FULL VOLTAGE 11KV GRADE HT TAPE

NOTE-

ALL CORNERS & PANEL JOINTS ARE FILLED BY RTV SILICONE SEALANT ON TOP OF THE GASKET JOINTS AND OPENINGS.

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क/No.....  
क/Date.....  
17 October 2023

परीक्षण इंजीनियर  
एस.टी.के.एस. सी.पी.आर.आई., भोपाल  
Engineer  
CPRI, Bhopal

VCB MAKE-SCHNEIDER ELECTRIC  
SL NUMBER-10-2022-W11-1000000000  
PANEL MAKE:ELENTRIC INDUSTRIES PVT. LTD, GUWAHATI  
SL NUMBER- ELENTRIC/AIS/23/0002

ELENTRIC INDUSTRIES PVT. LTD  
KENDUKUCHI CHOWK, PALASBARI ROAD, BHATTA PARA  
GUWAHATI-78107, ASSAM

GA OF 12KV, 1250A 26.3KA VCB PANEL FOR  
DEGREE OF PROTECTION: IP-5X TYPE TESTING

| REV.                                     | DATE       | REV.  | DATE | REV.  | DATE |
|------------------------------------------|------------|-------|------|-------|------|
| 01                                       | 27/07/2023 |       |      |       |      |
| DRAWN -S.M                               |            | DRAWN |      | DRAWN |      |
| REVISED AS PER COMMENTS FROM CPRI BHOPAL |            | REV.  |      | REV.  |      |
| DATE                                     |            | DATE  |      | DATE  |      |
| DRAWN                                    |            | DRAWN |      | DRAWN |      |

|                                                                                                            |  |                                                                                                                                                   |  |                                                                                                                                                                        |  |
|------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| GENERAL TOLERANCES AS PER IS 2102<br>LINEAR & ANGULAR DIMENSIONS WITHOUT INDIVIDUAL TOLERANCES INDICATIONS |  | PERMISSIBLE DEVIATIONS LINEAR AS PER BASIC SIZE<br>0 TO 10 mm $\pm 0.5$<br>10 TO 50 mm $\pm 1$<br>50 TO 100 mm $\pm 1.5$<br>100 TO 300 mm $\pm 2$ |  | PERMISSIBLE DEVIATIONS FOR RANGES OF LENGTHS IN mm OF SHORTER SIZE OF ANGLE CONCERNED<br>0-10mm $\pm 1^{\circ}-30'$<br>10-50mm $\pm 1^{\circ}$<br>50-250mm $\pm 0-30'$ |  |
| UNSPECIFIED RADII OF EXTERNAL & INTERNAL CORNERS SHOWN SQUARE $\pm 0.5$ TO 1 mm                            |  | SCALE                                                                                                                                             |  | ALL SHARP CORNERS TO BE FREE FROM BURRS                                                                                                                                |  |
| DRAWN                                                                                                      |  | CHECKED                                                                                                                                           |  | APPROVED                                                                                                                                                               |  |
| NAME                                                                                                       |  | DATE                                                                                                                                              |  | DRAWING NO.                                                                                                                                                            |  |
| SM                                                                                                         |  | 17/07/23                                                                                                                                          |  | ELECTRIC/23-24/IP-5X-VCB/CPRI/GA                                                                                                                                       |  |
| AC                                                                                                         |  | 17/07/23                                                                                                                                          |  | 01                                                                                                                                                                     |  |
| AC                                                                                                         |  | 18/07/23                                                                                                                                          |  | SHEET - 1 OF 3                                                                                                                                                         |  |



# CENTRAL POWER RESEARCH INSTITUTE

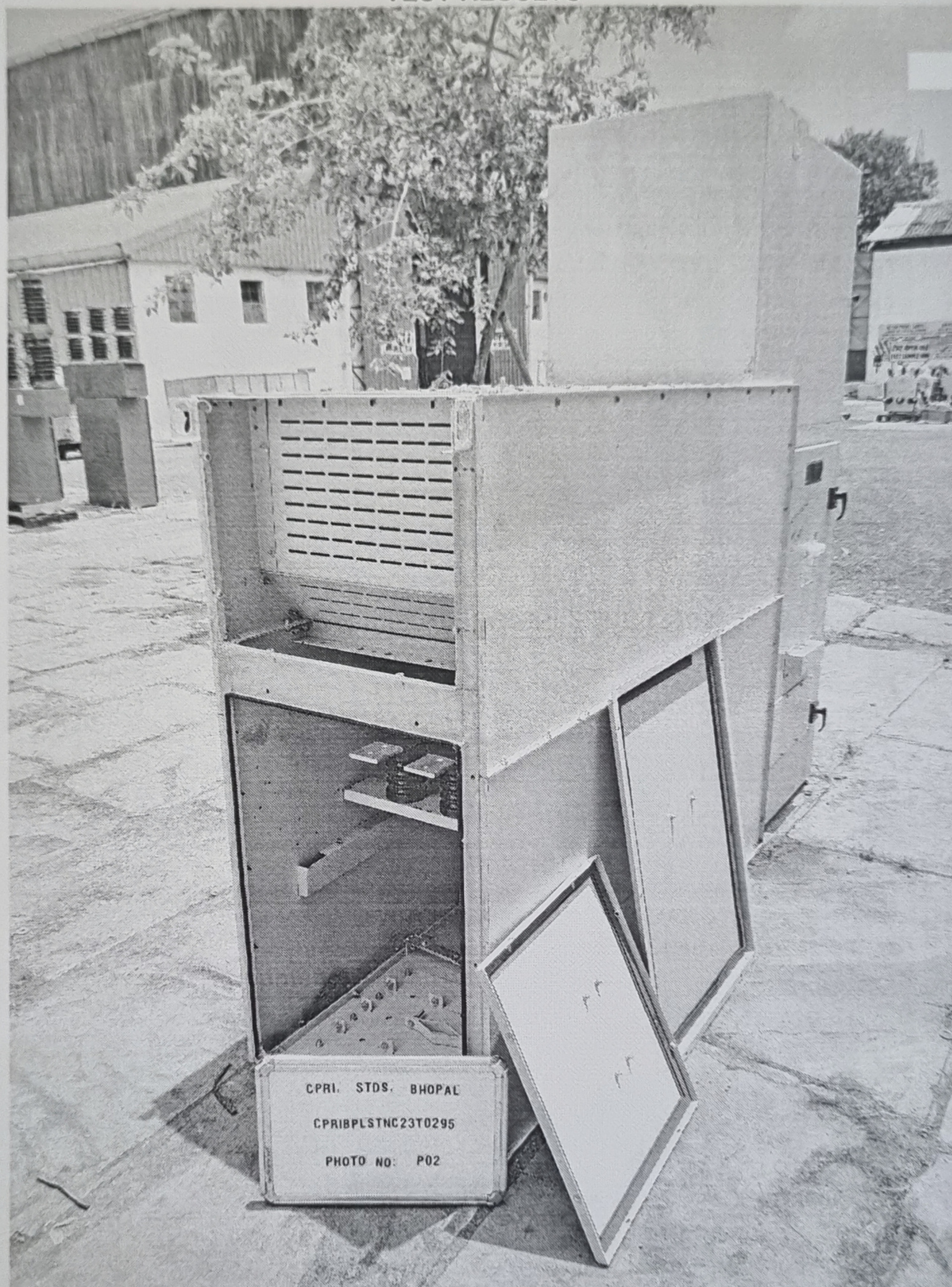
## TEST REPORT



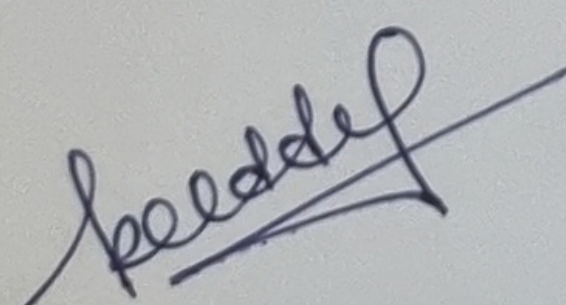
Test Report Number: CPRIBPLSTNC23T0295

Date : 17 October 2023 **CPRI**

### TEST RESULTS



Photograph Number: CPRIBPLSTNC23T0295P02

  
(K.V. Gangadhar Reddy)  
Test Engineer

ULR-TC5181230STCT0295F

Discipline: Electrical

Group: Switchgear & Protective Equipment

SWITCHGEAR TESTING & DEVELOPMENT STATION

GOVINDPURA, BHOPAL 462023

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



PANEL NAME PLATE

VCB NAME PLATE

|                                    |                                            |
|------------------------------------|--------------------------------------------|
| ELETRIC INDUSTRIES PRIVATE LIMITED |                                            |
| TYPE:-                             | ELETRIC-11KV-INDOOR-VCB PANEL-EASYPACT-EXE |
| SERIAL NO (PANEL):-                | ELETRIC/AIS/23/002                         |
| SERIAL NO (VCB):-                  | 10-2022-W11-1-0007                         |
| DESIGNATION:-                      | ELETRIC-11KV-INDOOR-VCB PANEL-EASYPACT-EXE |
| APPLICABLE STANDARD:-              | IEC : 62271-1 ; 62271-100 ; 62271-200      |
| RATED VOLTAGE:-                    | 12KV                                       |
| RATED CURRENT:-                    | 1250A                                      |
| RATED FREQUENCY:-                  | 50HZ                                       |
| RATED INSULATION LEVEL:-           | 12/28/75KVP                                |
| RATED SHORT TIME CURRENT:-         | 26.3 kArms                                 |
| PEAK WITHSTAND CURRENT :-          | 65.75 kAp                                  |
| DURATION OF SHORT CIRCUIT :-       | 3 SEC                                      |
| RATED OPERATING SEQUENCE :-        | O-0.3s-CO-3                                |
| YEAR OF MANUFACTURING :-           | 2023                                       |

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THIS DRAWING PERTAINING TO CPRI TEST REPORT  
क्रमांक/No. CPRI/PL/23/002 से संबंधित है।  
दिनांक/Date 17 October 2023

परीक्षण इंजीनियर  
एस.टी.डी.एस., सी.पी.आर.आई., भोपाल  
Test Engineer  
STDS, CPRI, Bhopal

|         |                  |      |       |       |
|---------|------------------|------|-------|-------|
| REV. 01 | DATE -27/07/2023 | REV. | DATE  | DRAWN |
|         | DRAWN -S.M       |      | DRAWN |       |
| REV.    | DATE             | REV. | DATE  | DRAWN |
|         | DRAWN            |      | DRAWN |       |

REVISED AS PER COMMENTS FROM CPRI BHOPAL

|                                       |                      |
|---------------------------------------|----------------------|
| SCHNEIDER ELECTRIC                    |                      |
| TYPE :-                               | EASYPACT EXE         |
| SERIAL NO :-                          | 10-2022-W11-1-0007   |
| CLASS :-                              | E2,M2,S1             |
| APPLICABLE STANDARD :-                | IEC-62271-100 : 2012 |
| RATED VOLTAGE :-                      | 12kV                 |
| RATED CURRENT :-                      | 1250A                |
| RATED FREQUENCY :-                    | 50Hz/60Hz            |
| PEAK VOLTAGE :-                       | 75kV                 |
| RATED SHORT TIEM WITHSTAND CURRENT :- | 26.3kA               |
| DURATION FO SHORT CIRCUIT :-          | 3 SEC                |

|                                                                                                   |      |          |                                         |      |
|---------------------------------------------------------------------------------------------------|------|----------|-----------------------------------------|------|
| ELENTRIC INDUSTRIES PVT. LTD                                                                      |      |          |                                         |      |
| KENDUKUCHI CHOWK, PALASBARI ROAD,BHATTA PARA<br>GUWAHATI-78107, ASSAM                             |      |          |                                         |      |
| RATING PLATE(PANEL & VCB) OF 12KV,1250A 26.3KA<br>VCB PANEL FOR DEGREE OF PROTECTION TYPE TESTING |      |          |                                         |      |
|                                                                                                   | NAME | DATE     | DRAWING NO.                             | REV. |
| DRAWN                                                                                             | SM   | 17/07/23 | ELENTRIC/23-24/IP-VCB/CPRI/RATING PLATE | 01   |
| CHECKED                                                                                           | AC   | 17/07/23 |                                         |      |
| APPROVED                                                                                          | AC   | 18/07/23 |                                         |      |

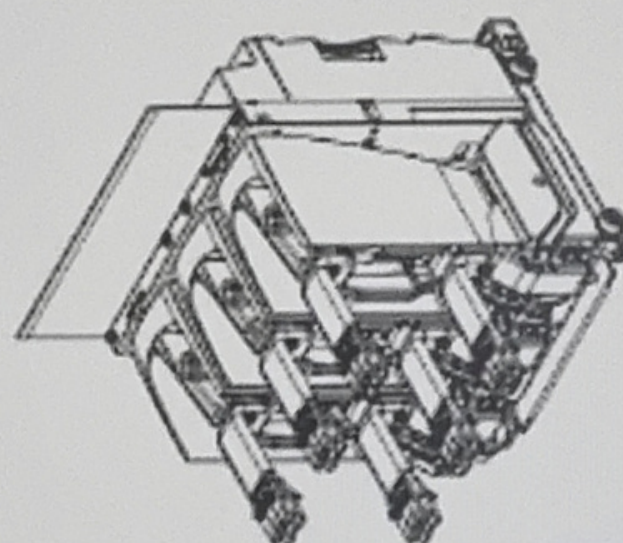
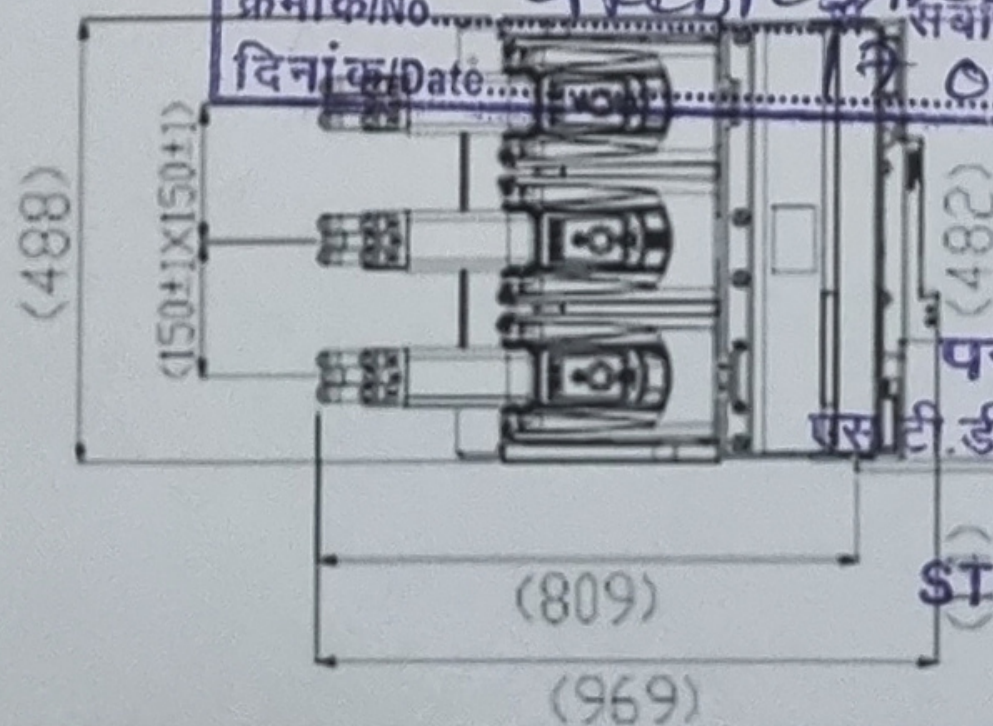
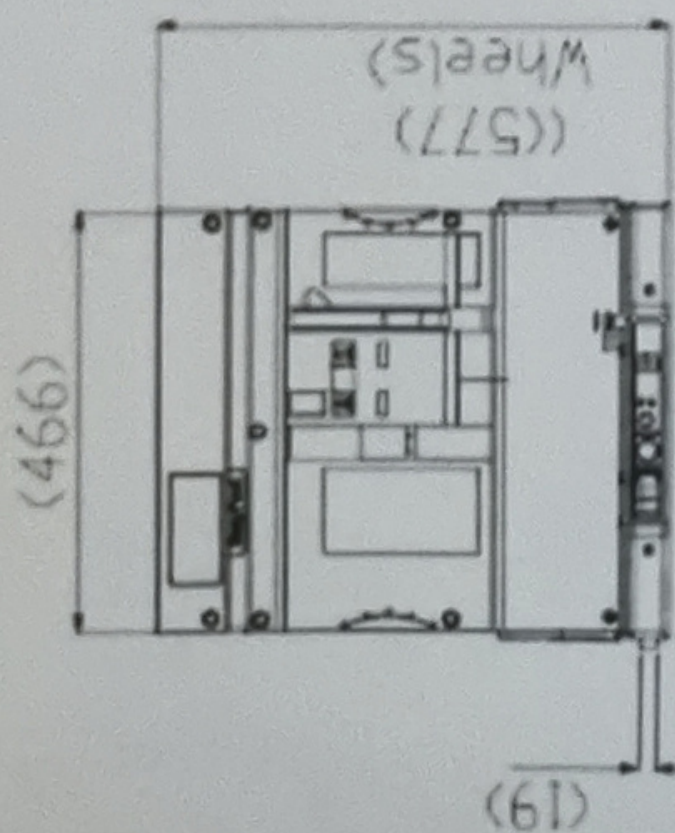
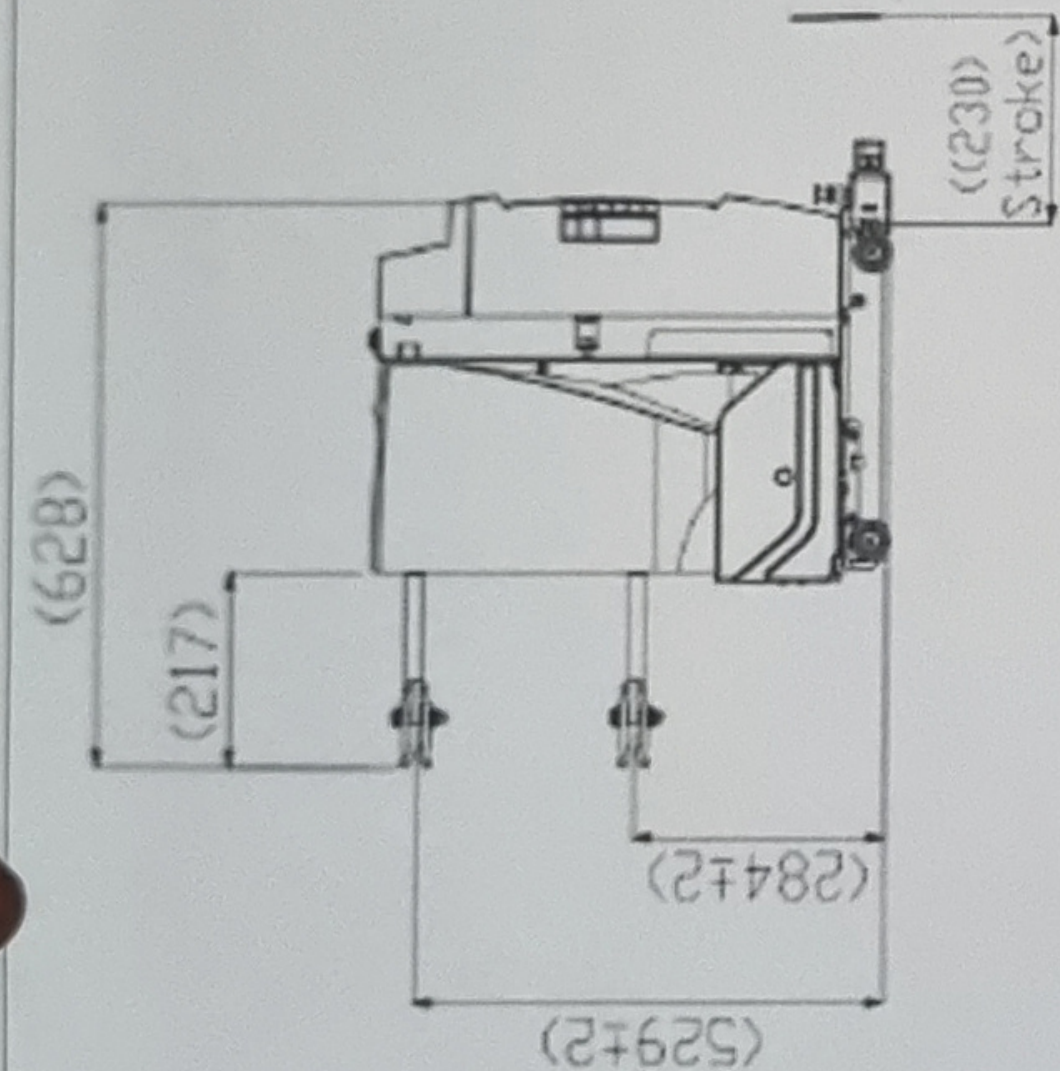












इस आरेखन को सत्यापन सी.पी.आर.आई. द्वारा  
जहाँ भी संभव हो केवल आराम जांच तक ही  
सीमित है।

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

यह आरेखन सी.पी.आर.आई. के परीक्षण रिपोर्ट

THIS DRAWING PERTAINING TO CPRI TEST REPORT

क्रमांक/No. CPRI BPC SNC 2370295

दिनांक/Date 17 October 2023

परीक्षण इंजीनियर  
एस.टी.डी.एस. सी.पी.आर.आई., भोपाल  
Test Engineer  
STDS, CPRI, Bhopal

GENERAL TOLERANCES AS PER IS 2102  
LINEAR & ANGULAR DIMENSIONS WITHOUT  
INDIVIDUAL TOLERANCES INDICATIONS

PERMISSIBLE DEVIATIONS LINEAR  
AS PER BASIC SIZE  
0 TO 10 mm  $\pm 0.5$   
10 TO 50 mm  $\pm 1$   
50 TO 100 mm  $\pm 1.5$   
100 TO 300 mm  $\pm 2$

PERMISSIBLE DEVIATIONS  
FOR RANGES OF LENGTHS  
IN mm OF SHORTER SIZE  
OF ANGLE CONCERNED  
0-10mm  $\pm 1^\circ-30'$   
10-50mm  $\pm 1^\circ$   
50-250mm  $\pm 0-30'$

UNSPECIFIED RADI OF EXTERNAL & INTERNAL  
CORNERS SHOWN SQUARE= 0.5 TO 1 mm

ALL SHARP CORNERS TO BE  
FREE FROM BURRS

SCALE

ELENTRIC INDUSTRIES PVT. LTD

KENDUKUCHI CHOWK, PALASBARI ROAD, BHATTIA PARA  
GUWAHATI-78107, ASSAM

GA OF 12KV, 1250A 26.3KA VCB TYPE: EASYPACT EXE  
MAKE : SCHNEIDER ELECTRIC, INDIA

| DRAWN | CHECKED | APPROVED | NAME | DATE     | DRAWING NO.  | REV. |
|-------|---------|----------|------|----------|--------------|------|
| SM    | AC      | AC       | SM   | 17/07/23 | MV12KV263VCB | 00   |
|       |         |          | AC   | 17/07/23 |              |      |
|       |         |          | AC   | 18/07/23 |              |      |