



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 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 - 462023

GOVINDPURA BHOPAL - 462023

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CENTRAL POWER RESEARCH INSTITUTE



CPRI

TEST REPORT

Test Report Number : CPRI BPLSTNC23T0297 Date: 20 March 2024

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.

Particulars of sample tested : 12kV, 1250A, 26.3kA/03 sec. VCB Panel

Type : Elentric-11kV, Indoor VCB Panel-Easy Pact-EXE

Description of test sample : 12kV, 1250A, 26.3kA/03 sec. VCB Panel

Serial Number : Panel: Elentric/AIS/23/002, VCB:10-2022-W11-1-0007

Number of samples tested : Two

Date(s) of Test(s) : 25 July 2023

CPRI Sample code Number(s). : Panel: STNC23S0264 & VCB:STNBMISC23S1536

Particulars of tests conducted : Degree of Protection IP-X4

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 : Mr. Samsul Huda (M/s. Elentric Industries Pvt. Ltd.)

Other than customer's representative : Nil

Test subcontracted with address of the laboratory : None

Documents constituting this report (in words)

Number of Sheets : Six

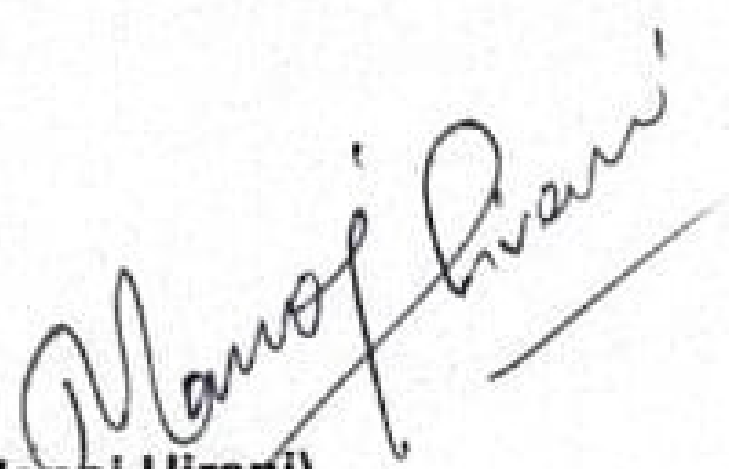
Number of Oscillogram(s) : Nil

Number of Graph(s) : Nil

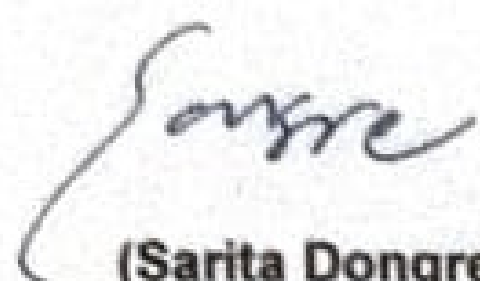
Number of Photograph(s) : Two

Number of Test Circuit Diagram(s) : Nil

Number of Drawing(s) : Five


(Manoj Hirani)
Test Engineer




(Sarita Dongre)
Head of Division
Reviewed and Authorized By

CENTRAL POWER RESEARCH INSTITUTE



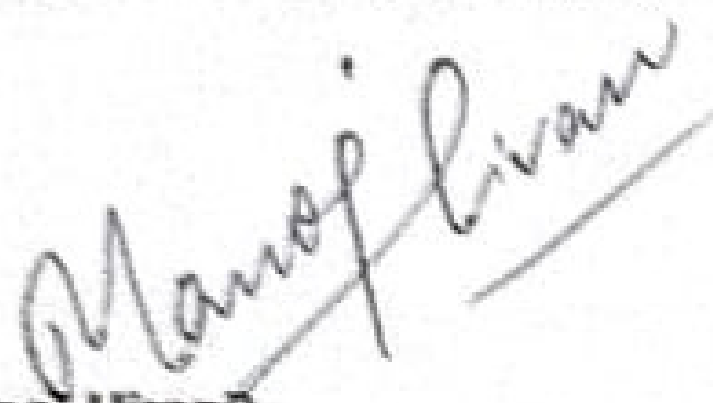
TEST REPORT

Test Report Number: CPRIBPLSTNC23T0297

Date: 20 March 2024 **CPRI**

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

Sample	: 12kV, 1250A, 26.3kA/03 sec. VCB Panel
Designation	: Horizontal Isolation, Horizontal Draw out, Easy Pact-EXE-VCB Panel.
Rated voltage (kV)	: 12
Rated current (Amps)	: 1250
Frequency (Hz)	: 50
Insulation level (Vrms/kVp)	: 28/75
No. of phases	: 3 + N
No. of poles	: Four
Contacts/Terminal Material	: Silver Plated Copper Contacts/Terminal
Rated Short time withstand Current (kArms)	: 26.3
Rated Peak withstand Current (kApk)	: 65.75
Isolating Distance (mm)	: 300
Phase to Earth Distance(mm)	: 90
Creepage Distance	: 200 M (Min)
Dimensions of the sample (mm)	: As per drawing


(Manoj Hirani)
Test Engineer

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TEST REPORT

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Date: 20 March 2024 **CPRI**

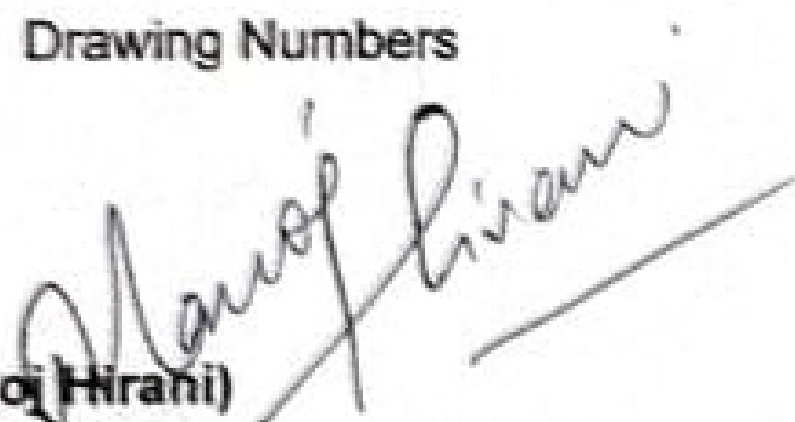
SUMMARY OF TESTS CONDUCTED

1. Tests conducted : Degree of Protection IP-X4
2. Rating for which tested : Ingress protection against liquid IP-X4

3. Schedule of tests

Tests Conducted	Clause Numbers	Sheet
Degree of Protection IP-X4	Cl. 14.2.4 & 14.3 of IEC 60529:2013.	5 of 6

4. Oscillogram No(s) : Nil
5. Graph Numbers : Nil
6. Photograph Numbers : CPRIBPLSTNC23T0297P01 & CPRIBPLSTNC23T0297P02
7. Test Circuit Diagram Numbers : Nil
8. Drawing Numbers : Refer sheet 4 of 6


(Manoj Hirani)
Test Engineer

CENTRAL POWER RESEARCH INSTITUTE



TEST REPORT

Test Report Number: CPRIBPLSTNC23T0297

Date: 20 March 2024

CPRI

TEST RESULTS



Photograph Number: CPRIBPLSTNC23T0297P02

Manoj Hirani
(Manoj Hirani)
Test Engineer

CENTRAL POWER RESEARCH INSTITUTE



TEST REPORT

Test Report Number: CPRIBPLSTNC23T0297

Date: 20 March 2024 **CPRI**

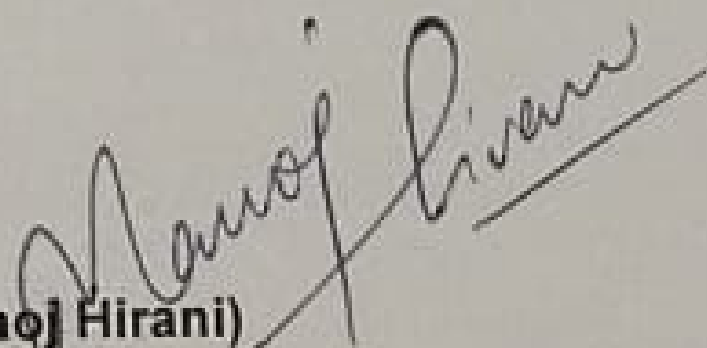
TEST RESULTS

Test conducted : Degree of Protection IP -X4
Date of test : 25 July 2023
Condition of sample before test : New
Test details : Sample was placed in normal position and test was conducted by spraying the enclosure from all practicable directions with a spray nozzle with the counter balanced shield removed as per standard.

Total Water Flow rate(litre/minute)	Duration of the test (minute)
10	08

Observations : No traces of water observed inside the sample after IP-X4 test.

CONCLUSION : The sample tested complies with the requirement of Cl. 14.2.4 and 14.3 of IEC 60529:2013 for the test(s) conducted.


(Manoj Hirani)
Test Engineer

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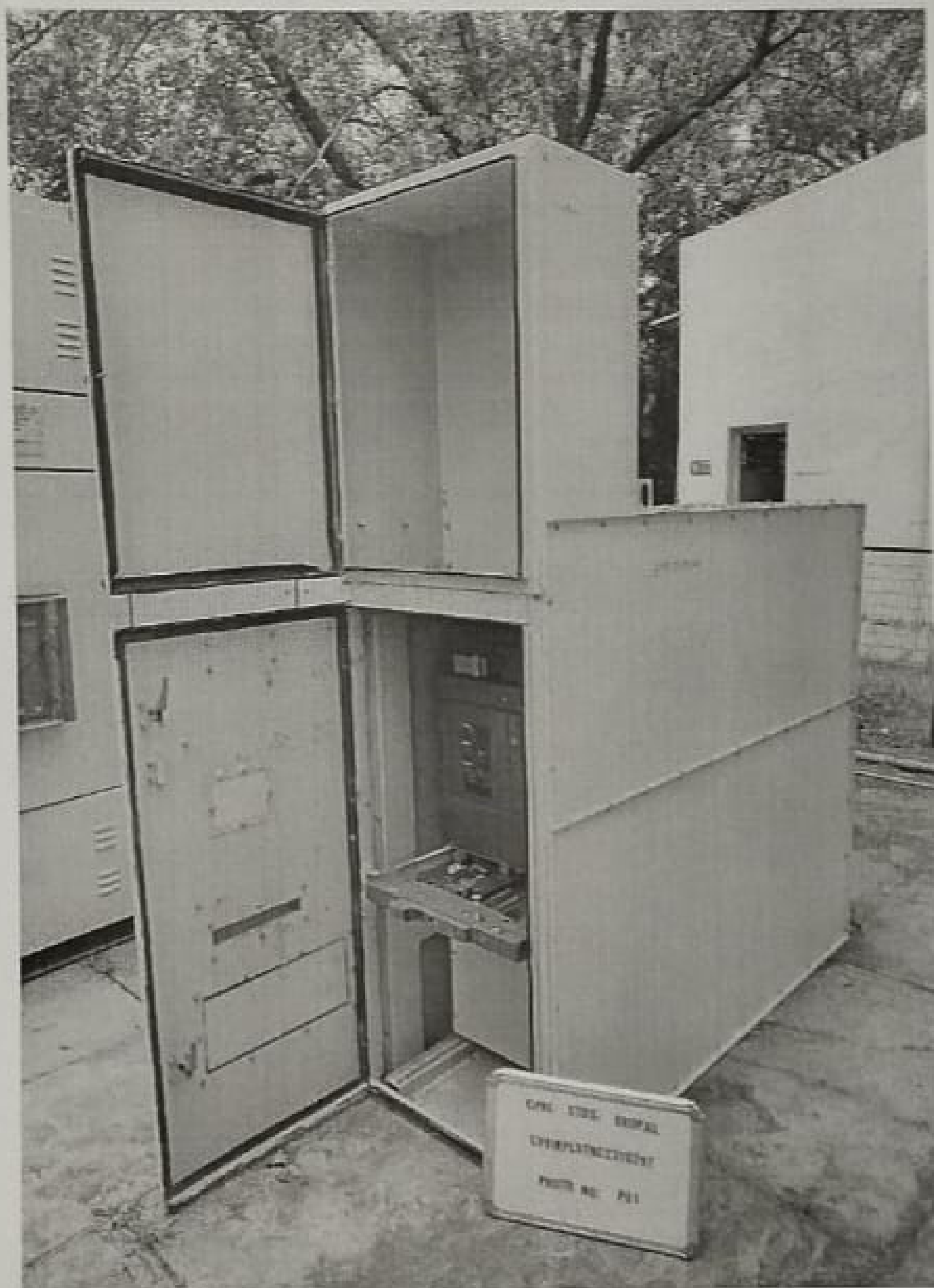


TEST REPORT

Test Report Number: CPRIBPLSTNC23T0297

Date: 20 March 2024 **CPRI**

TEST RESULTS



Photograph Number: CPRIBPLSTNC23T0297P01

(Manoj Hiran)
(Manoj Hiran)
Test Engineer

CENTRAL POWER RESEARCH INSTITUTE



TEST REPORT

Test Report Number: CPRIBPLSTNC23T0297

Date: 20 March 2024 **CPRI**

NOTE

- a) The Test results relate only to the sample(s) tested.
- b) Publication or reproduction of the 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

(Signature)
(Manoj Hiran)
Test Engineer



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

CENTRAL POWER RESEARCH INSTITUTE



TEST REPORT

Test Report Number: CPRIBPLSTNC23T0297

Date: 20 March 2024 **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
01	ELENTRIC/23-24/IP-VCB/CPRI/RATING PLATE	Nil	01
02	ELENTRIC/23-24/IP-X4-VCB/CPRI/GA	1 of 3	01
03	ELENTRIC/23-24/IP-X4-VCB/CPRI/GA	2 of 3	01
04	ELENTRIC/23-24/IP-X4-VCB/CPRI/GA	3 of 3	01
05	MV12KV263VCB	Nil	01

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.


(Manoj Hirani)
Test Engineer

PANEL NAME PLATE

VCB NAME PLATE

ELENTRIC INDUSTRIES PRIVATE LIMITED

TYPE:-	ELENTRIC-11KV-INDOOR-VCB PANEL-EASYPACT-EXE
SERIAL NO (PANEL):-	ELENTRIC/AIS/23/002
SERIAL NO (VCB):-	10-2022-W11-1-0007
DESIGNATION:-	ELENTRIC-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 min-t
YEAR OF MANUFACTURING :-	2023

इस आरेखन को सत्यापन सी.पी.आर.आर. द्वारा किया जा रहा है।
जहाँ भी संशोधन हो, केवल आराम खींचें तब ही सीमित है।
VERIFICATION OF THIS DRAWING BY CPRI IS LIMITED TO CHECK ONLY WHEN THIS DRAWING PERTAINING TO CPRI TEST REPORT कर्मांक/No. से संबंधित है।
दिनांक/Date: 20/03/24

परीक्षण इंजीनियर
एस.टी.डी.एस.सी.पी.आर.आर.
Test Engineer
STDS, 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
GUWAHATI-78107, ASSAM

RATING PLATE(PANEL & VCB) OF 12KV,1250A 26.3KA
VCB PANEL FOR DEGREE OF PROTECTION TYPE TESTING

DRAWN	CHECKED	APPROVED	DATE	DRAWING NO.	REV.
SM	AC	AC	17/07/23	ELENTRIC/23-24/2P-VCB/COMBATING PLATE	01
			17/07/23		
			18/07/23		

GENERAL TOLERANCES AS PER IS 7102
UNLESS SPECIFIED OTHERWISE
DIMENSIONAL TOLERANCES WITHOUT
INDICATING TOLERANCES INDICATIONS

PERMISSIBLE DEVIATIONS
FOR SURFACES OF LENGTH
IN mm (IF SHORTER SIZE
OF ANGLE CONCERNED)
0 TO 10 mm ±0.5
10 TO 50 mm ±1
50 TO 100 mm ±1.5
100 TO 300 mm ±2

UNSPECIFIED RADIUS OF EXTERNAL & INTERNAL
CORNERS SHOWN SQUARE ±0.5 TO 1 mm

ALL SHARP CORNERS TO BE
FREE FROM BURRS

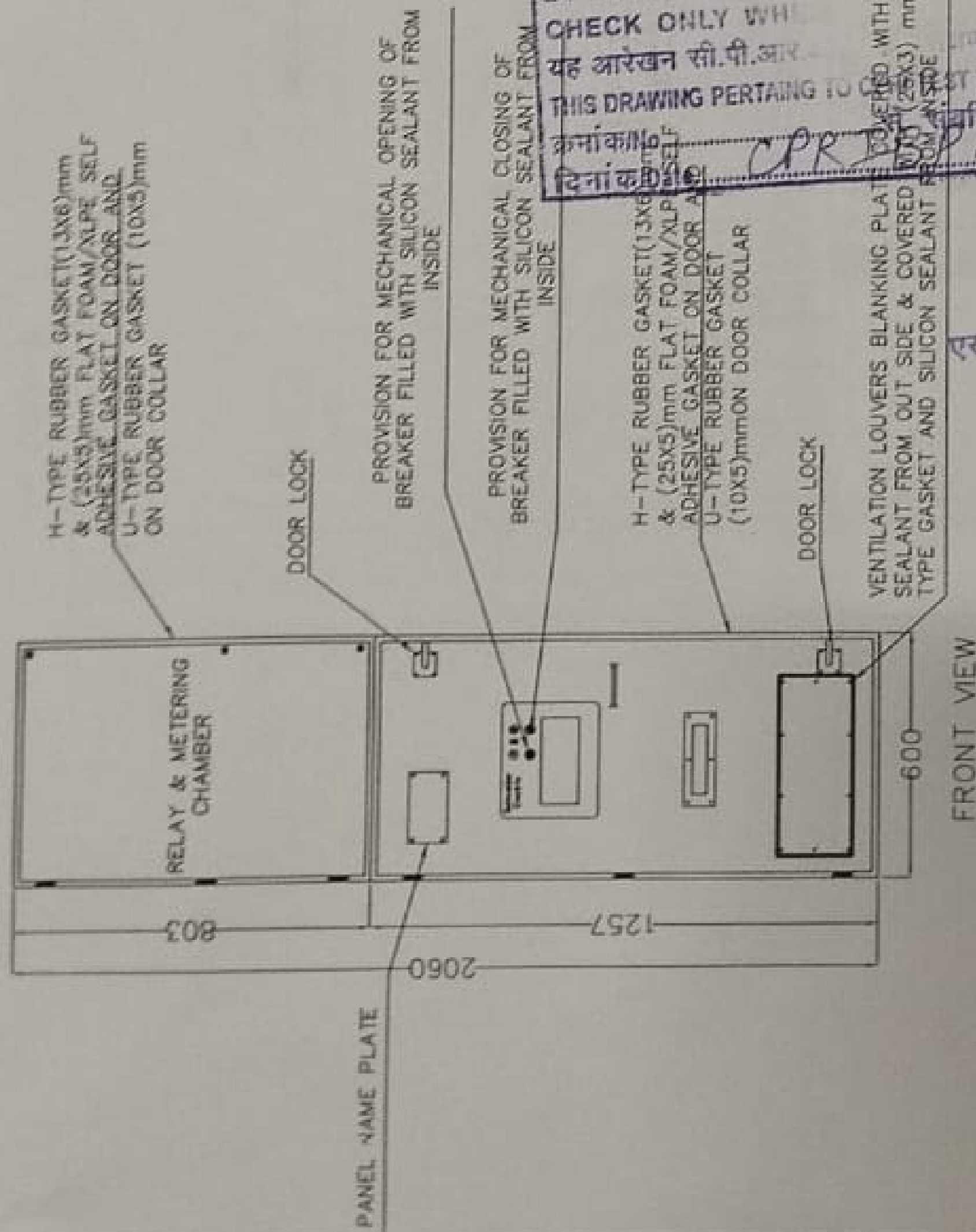


20/03/24

REVISED AS PER
COMMENTS FROM
CPRI BHOPAL

REV.	DATE	REV.	DATE	REV.	DATE
01	20/03/2023				

REV.	DATE	REV.	DATE	REV.	DATE



GASKET USED



Ø H-TYPE
RUBBER GASKET

10 U-TYPE
RUBBER GASKET

iii) SELF ADHESIVE FLAT
FOAM/XLPE GASKET



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-IPX4 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

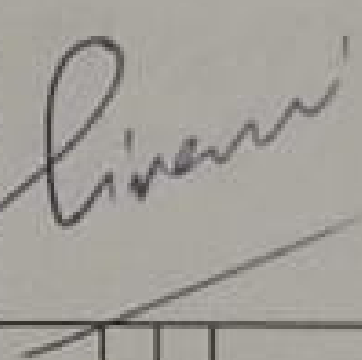
NOTE -

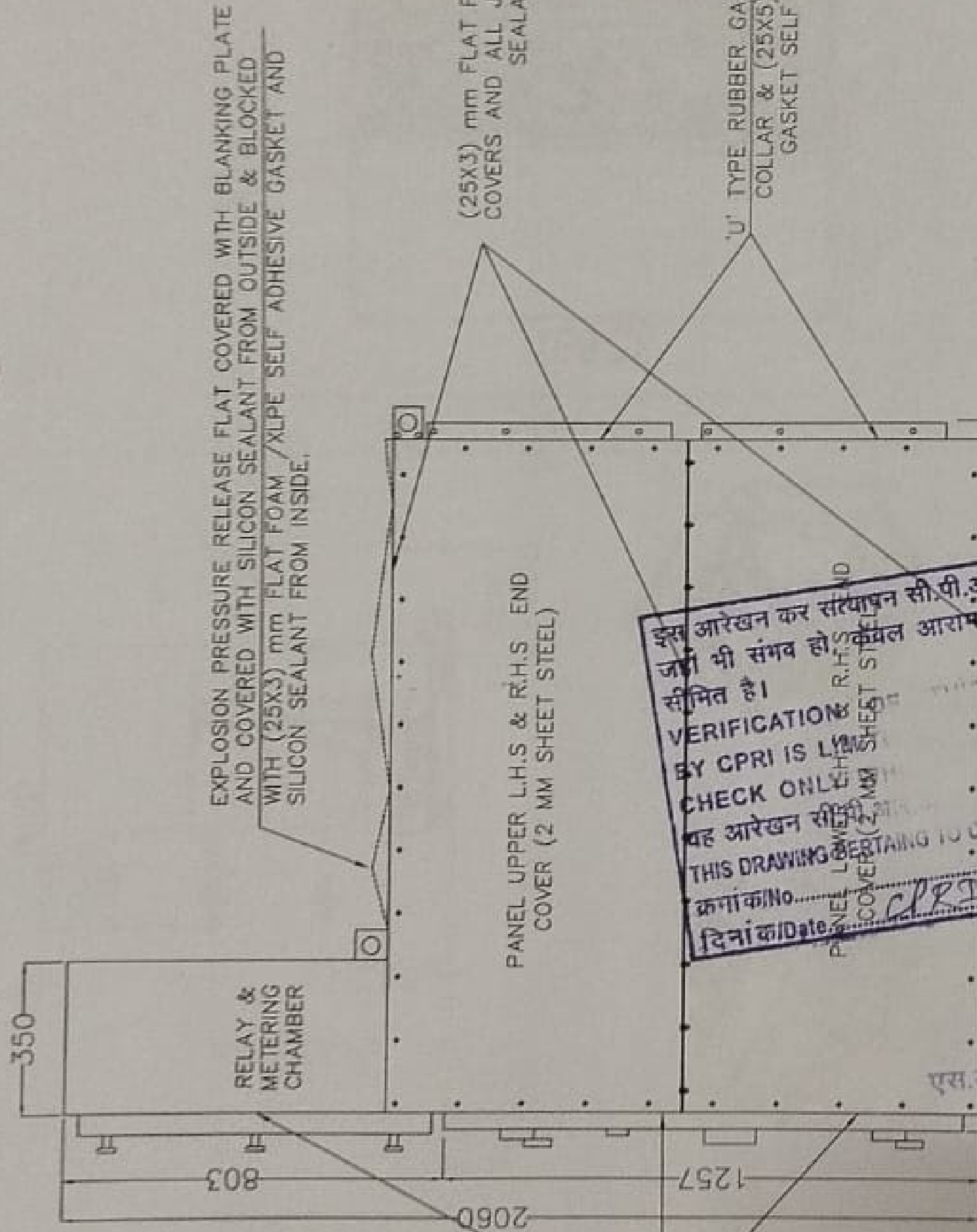
ALL CORNERS & PANEL JOINTS ARE FILLED BY RTV SILICONE SEALANT ON TOP OF THE GASKET JOINTS AND OPENINGS.

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-X4 TYPE TESTING

	NAME	DATE	DRAWING NO.	REV.
DRAWN	SM	17/07/23	ELENTRIC/23-24/JP-X4-VCB/CPRU/GA SHEET : 1 OF 3	01
CHECKED	AC	17/07/23		
APPROVED	AC	18/07/23		

REV. 01	DATE - 27/07/2023 DRAWN - S.M.	REV. 	DATE DRAWN	REV. 	DATE DRAWN	T0297 3/24 भियर आई. भोपाल Bhopal 					
						GENERAL TOLERANCES AS PER IS 2102 LINEAR & ANGULAR DIMENSIONS WITHOUT INDIVIDUAL TOLERANCE INDICATIONS					
						PERMISSIBLE DEVIATIONS LINEAR AS PER BASIC SIZE 0 TO 10 mm ± 0.5 10 TO 50 mm ± 1 50 TO 100 mm ± 1.5 100 TO 300 mm ± 2			PERMISSIBLE DEVIATIONS FOR RANGES OF LENGTHS IN mm OF SHORTER SIZE OF ANGLE CONCERNED 0-10mm ±1°30' 10-50mm ±1° 50-200mm ±0°30'		
						UNSPECIFIED RANGE OF EXTERNAL & INTERNAL CORNERS SHOWN SQUARE = 0.5 TO 1 mm					
						ALL SHARP CORNERS TO BE FREE FROM BURRS			SCALE		
											



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

(25X3) mm FLAT FOAM TYPE GASKET FOR SIDE COVERS AND ALL JOINTS COVERED WITH SILICON SEALANT EXTERNALLY

'U' TYPE RUBBER GASKET-(10X5) mm ON REAR COVER COLLAR & (25X5)mm -2 RUN FLAT FOAM TYPE GASKET SELF ADHESIVE ON REAR COVER

NOTE-

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

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-X4 TYPE TESTING

इस आरेखन कर सत्यापन सी.पी.आर.आई. द्वारा जारी की जायेगी।
जहाँ भी संभव हो, केवल आराम प्राप्त तक ही सीमित है।
VERIFICATION BY CPRI IS LIMITED.
CHECK ONLY THE PARTS WHICH ARE SHOWN IN THIS DRAWING.
कृपया/क/Date: 20/03/24

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

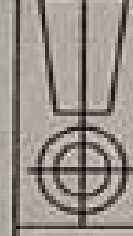
GENERAL TOLERANCES AS PER IS 2102 LINEAR & ANGULAR DIMENSIONS WITHOUT INDIVIDUAL TOLERANCES INDICATIONS

PERMISSIBLE DEVIATIONS LINEAR AS PER BASIC SIZE	PERMISSIBLE DEVIATIONS FOR RANGES OF LENGTHS IN mm OF SHORTER SIZE OF ANGLE CONCERNED
0 TO 10 mm ± 0.5 10 TO 50 mm ± 1 50 TO 100 mm ± 1.5 100 TO 300 mm ± 2	0-10mm ± 1°30' 10-50mm ± 1° 50-200mm ± 0°30'

UNSPECIFIED RADII OF EXTERNAL & INTERNAL CORNERS SHOWN SQUARE ± 0.5 TO 1 mm

ALL SHARP CORNERS TO BE FREE FROM BURRS

SCALE



DRAWING NO.

REV.

DATE

NAME

DRAWN

CHECKED

APPROVED

SM

AC

AC

17/07/23

17/07/23

18/07/23

17/07/23

17/07/23

17/07/23

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17/07/23

ELENTRIC/23-24/IP-X4-VCB/CPRI/GA

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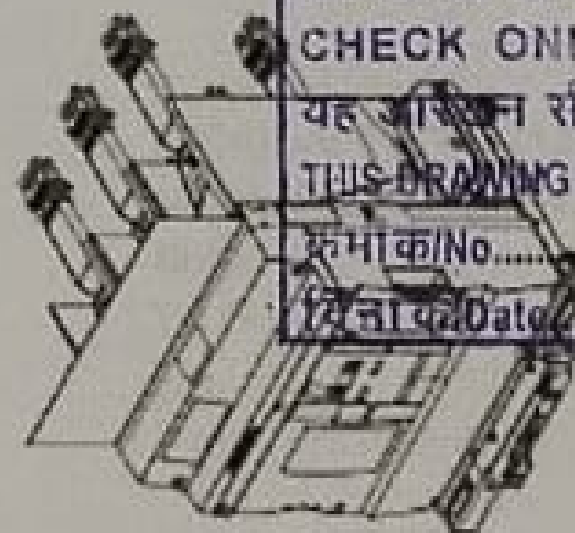
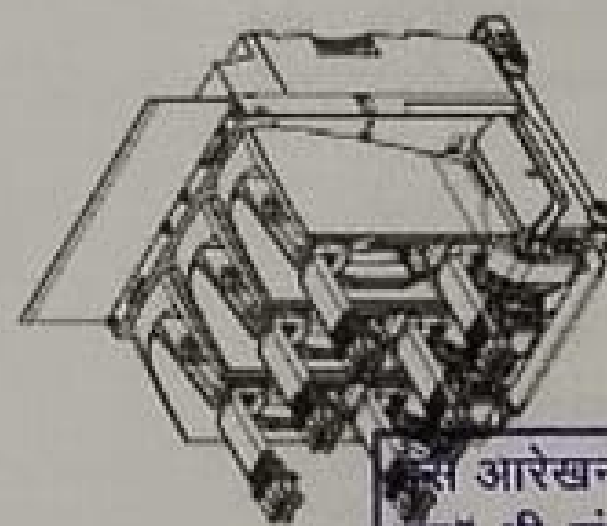
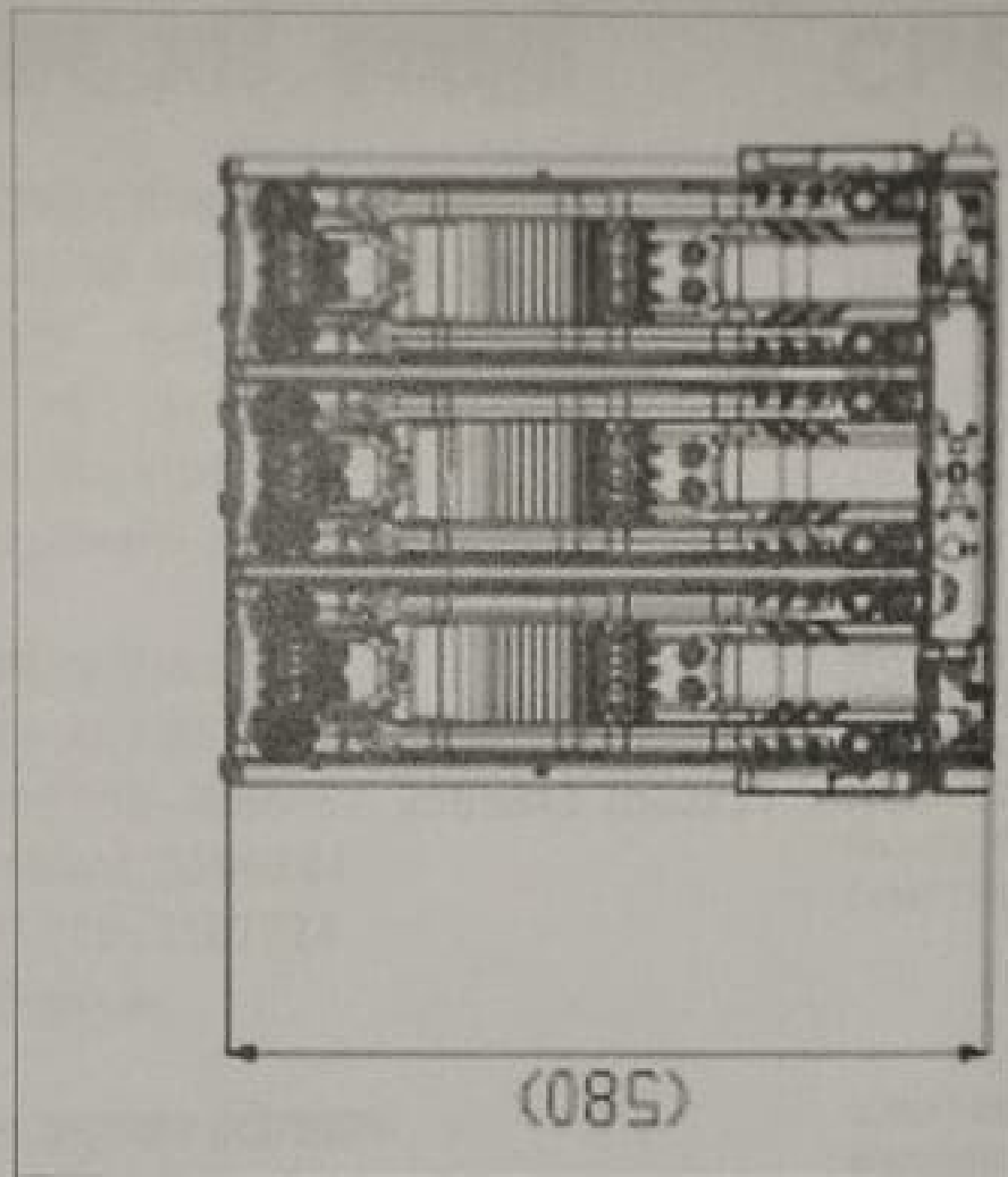
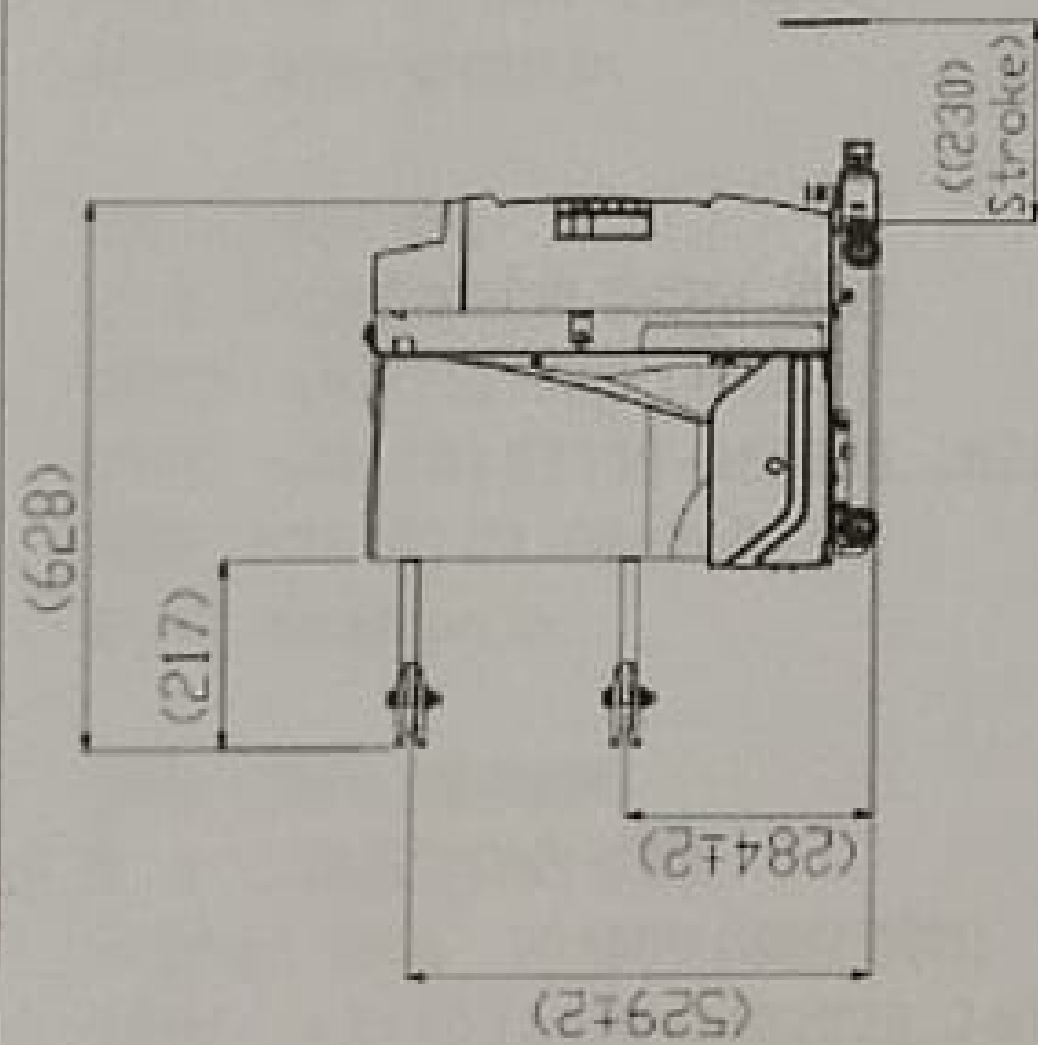
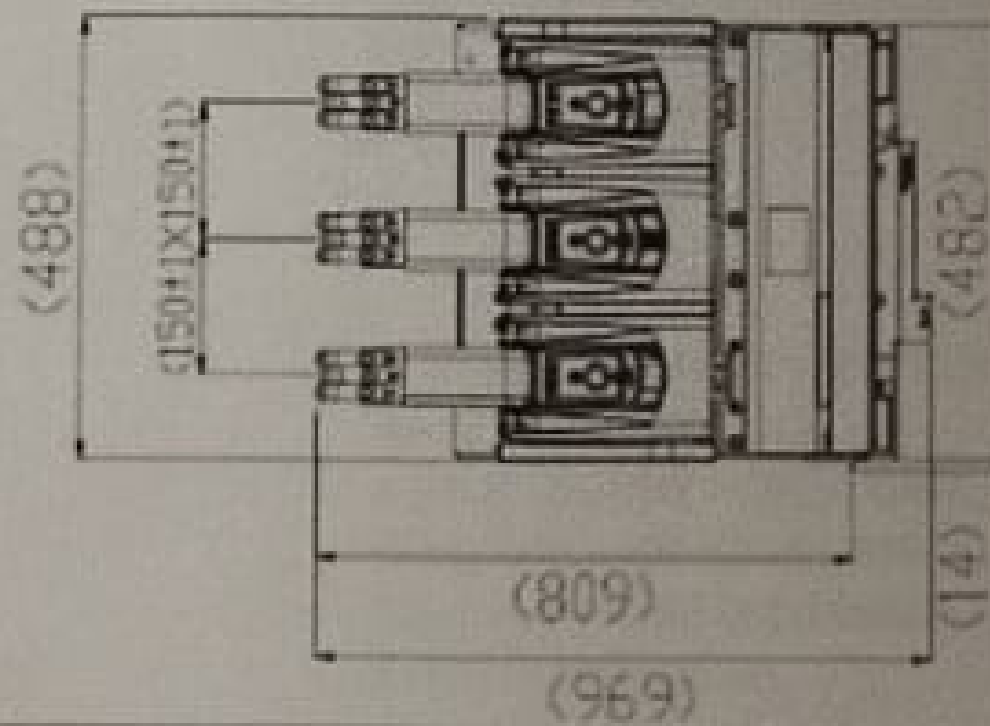
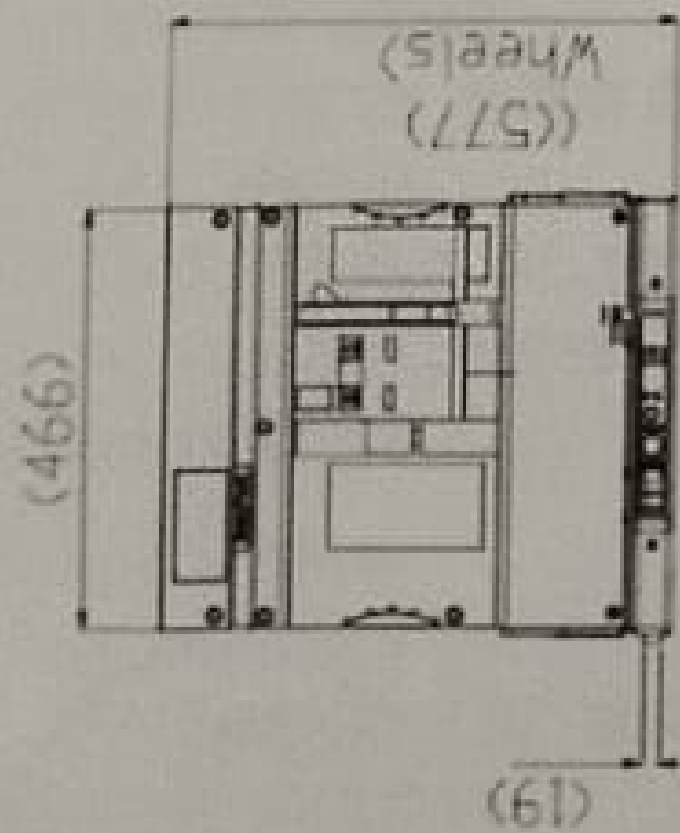
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यह आरेखन कर सत्यापन सी.पी.आई. द्वारा किया गया है, जहाँ भी संभव हो, केवल आराम के लिए तैयार किया गया है।
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THIS DRAWING PERTAINS TO CPRI TEST REPORT
क्रमांक/No.
दिनांक/Date: 23/07/23

W/D

ELENTRIC INDUSTRIES PVT. LTD
KENDUKUCHI CHOWK, PALASBARI ROAD, BHATTA 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
				17/07/23		
				18/07/23		

PERMISSIBLE DEVIATIONS FOR RANGES OF LENGTHS IN mm OF SHORTER SIDE OF ANGLE CONCERNED

PERMISSIBLE DEVIATIONS FOR RANGES OF LENGTHS IN mm OF SHORTER SIDE OF ANGLE CONCERNED

UNSPECIFIED RADIUS OF EXTERNAL & INTERNAL CORNERS SHOWN SQUARE ± 0.5 TO 1 mm

ALL SHARP CORNERS TO BE FREE FROM BURRS

SCALE



परीक्षण इंजीनियर

एस.टी.एस., सी.पी.आई. द्वारा तैयार किया गया है

TESTS, CPRI, Guwahati

20/3/24