

TEST REPORT

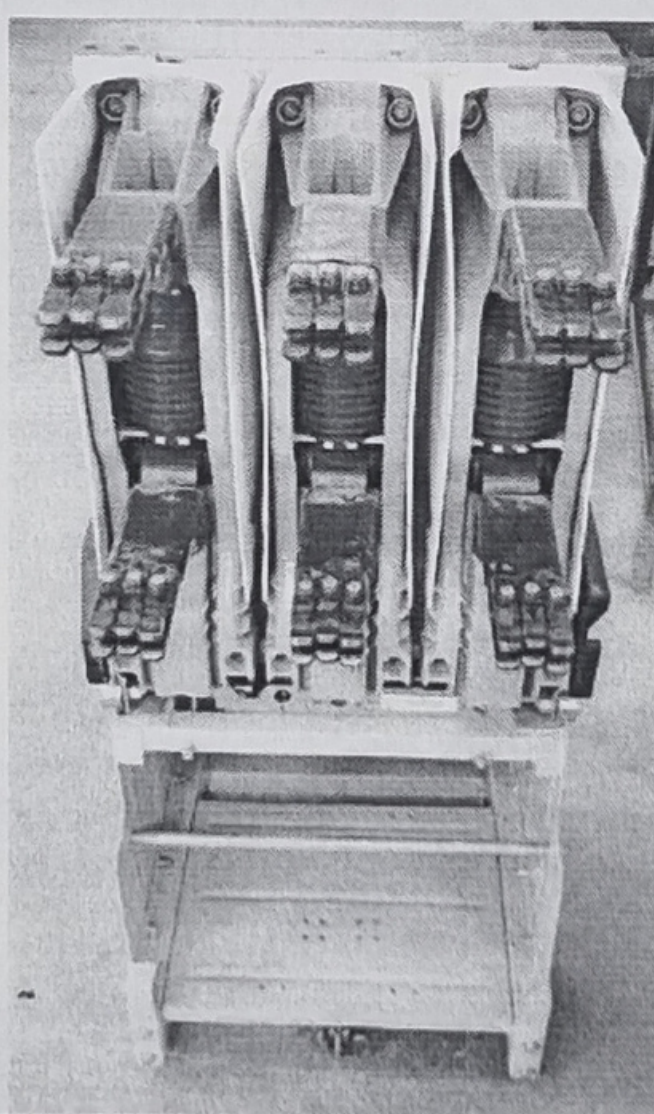
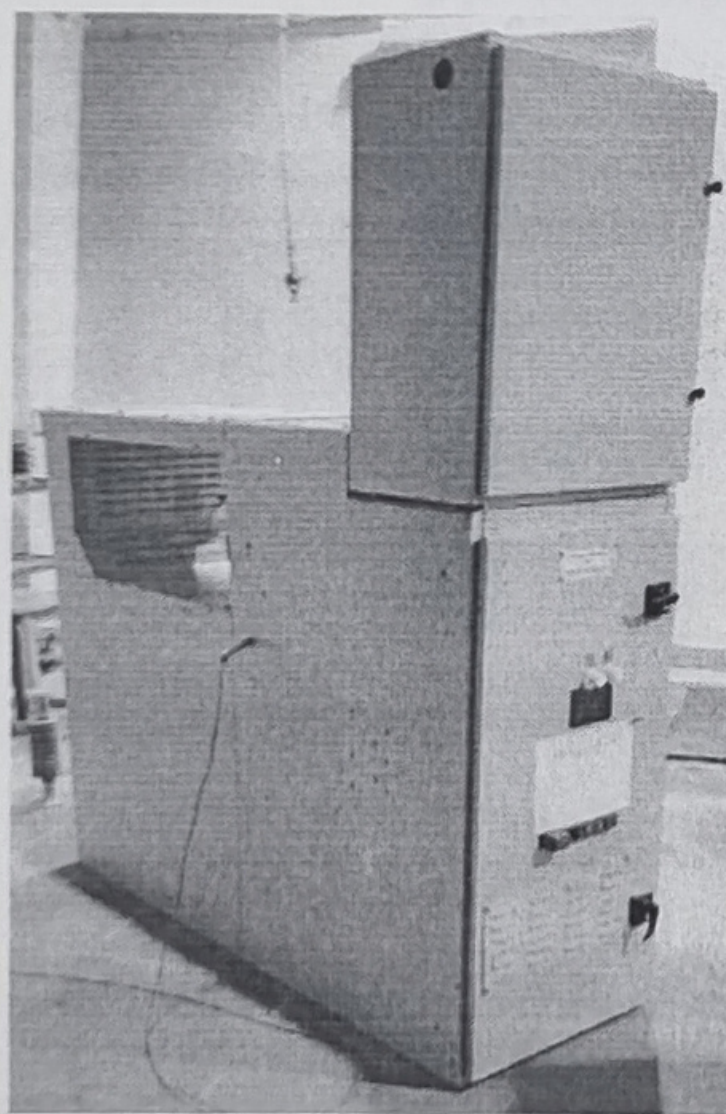
REPORT NO. & DATE	NTSC(H)/EHV/2022-23/7842 Dt. 19.01.2023	SHEET NO. 1 OF 3
JOB ORDER NO.	7/06/05944 dt.13.01.2023	
SAMPLE CODE NO.	5944	
TEST REPORT ISSUED TO	M/s Elentric Industries Pvt. Ltd. Kendukuchi Chowk, Dharapur Palasbari Road, Bhatta Para(Garal),Guwahati-781017,Assam.	
CUSTOMER'S REF. NO.	Nil. dtd.13.01.2023	
DESCRIPTION OF SAMPLE / EQUIPMENT TESTED	12 KV,1250A 26.3KA VCB Panel for Impulse & High Voltage Type Testing	
DRAWING NO.	ELENTRIC/22-23/LIV+HV-VCB/NSIC/GA REV.00 (Sheet-1 of 2 & 2 of 2), PROTOTYPE VCB REV.00, NHA2095802 REV.07	
IDENTIFICATION	ELENTRIC/AIS/23/001	
QUANTITY	One no.	
NATURE OF TEST	1. Dry Power Frequency Voltage Withstand 2. Lightning Impulse Voltage Withstand.	
TEST SPECIFICATION	IEC: 62271-200 : 2011 and IEC: 62271-1: 2017.	
DATE OF SAMPLE RECEIPT	04.01.2023	
DATE(S) OF TEST	17.01.2023 & 18.01.2023	
DEVIATIONS, IF ANY	Nil.	
ENCLOSURE	Certified Drawing : 03 sheets Ref. Drawing: 01 sheet Annexure - I : 01 sheet.	
MAJOR EQUIPMENTS USED	1. Lightning Impulse Voltage Generator. 2. High Voltage Power Frequency Test Set.	
TEST WITNESSED BY	Mr. A. Chattopadhyay, Representative of M/s Elentric Industries Pvt. Ltd, Assam.	
<i>Nitin</i> 20.01.2023 Prepared by NITIN RAJ Dy. Manager (Tech.) <i>Rajib Chanda</i> 20/01/2023 Issued by RAJIB CHANDA Chief Manager		
➤ This report relates to the particular sample(s) tested under stated condition. ➤ This report cannot be reproduced in part without the written permission of Laboratory In-Charge, NTSC, Howrah. ➤ Any anomaly/discrepancy in this report should be brought to notice within 45 days from the date of issue.		

TEST REPORT

REPORT NO. & DATE	NTSC(H)/EHV/2022-23/7842 Dt. 19.01.2023	SHEET NO. 2 OF 3
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Details of Breaker
(as per nameplate / declaration by customer)

TYPE/ DESIGNATION	: Easypact EXE
IDENTIFICATION	: Serial No: 10-2022-W11-1-007
RATED VOLTAGE	: 12 kV
RATED CURRENT	: 1250 A
PHASE	: 3
FREQUENCY	: 50 Hz
INSULATION LEVEL	: 12kV/28 kV/75 kVp
RATED S.C. BREAKING CURRENT	: 26.3kA
RATED S.C. MAKING CURRENT	: 65.75kA
OPERATING SEQUENCE	: O-0.3s-CO-3min.-CO
RATED SHORT TIME CURRENT	: 26.3kArms for 3 sec.
TYPE / RATING OF CLOSING/TRIPPING MECHANISM	: Manual / Electrical Motorised Spring Charge Mechanism
TYPE / RATING OF CHARGING/ RELEASE MECHANISM	: Manual/Electrical



ELENTRIC INDUSTRIES PRIVATE LIMITED	
AT/INDUSTRIAL CHOWK, DHARAPUR PALASDARI ROAD, BHATTA PARA (BARAK), GUWAHATI - 781017, ASSAM	
TYPE :-	ELENTRIC 12KV-INDOOR-VCB PANEL-EASYPACT EXE
SERIAL NO (PANEL) :-	ELENTRIC/45/23/001
SERIAL NO (VCB) :-	10-2022-W11-1-007
DESIGNATION :-	ELENTRIC 12KV-INDOOR-VCB PANEL-EASYPACT EXE-12.5A
APPLICABLE STANDARD :-	IEC: 62271-1; 62271-610; 62271-200
RATED VOLTAGE :-	12kV
RATED CURRENT :-	1250A
RATED FREQUENCY :-	50 Hz
RATED INSULATION LEVEL :-	12/28/75kVp
RATED SHORT TIME CURRENT :-	26.3kArms
PEAK WITHSTAND CURRENT :-	65.75kAp
DURATION OF SHORT CIRCUIT :-	1 SEC.
RATED OPERATING SEQUENCE :-	O-0.3s-CO-3min-CO
YEAR OF MANUFACTURING :-	2023

Photographs: panel under test.

Nitin
20.01.2023
Prepared by
NITIN RAJ
Dy. Manager (Tech.)

RAJIB CHANDA
20/01/2023
Issued by
RAJIB CHANDA
Chief Manager

TEST REPORT

REPORT NO. & DATE	NTSC(H)/EHV/2022-23/7841 Dt. 19.01.2023	SHEET NO. 3 OF 3
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TEMPERATURE RISE TEST (Cl. No : 7.5)

MEASUREMENT OF CONTACT RESISTANCE (Cl. No. : 7.4.1)
(Cl. No. : 6.4.1, IEC 62271-200 and Cl. No. 7.4.1, IEC 62271-1 : 2017)

(By Millivolt Drop Method: Test Current 100 A DC)

Specified value(s)	Phase	Before Temp. Rise Test (amb. : 26°C)	After Temp. Rise Test (amb. : 24°C)	Remarks
The measured resistances after temp. rise test shall not increase by more than 20%.	Red (A)	4.93 mV	4.95 mV	Within specified limit.
	Yellow(B)	5.44 mV	5.53 mV	Within specified limit.
	Blue(C)	5.50 mV	6.03 mV	Within specified limit.

Temperature Rise at 1250 Amps, 50 Hz.

Points of measurements	Temperature Rise Limit *	Temperature rise above avg. ambient of 25°C			Results		
		R Phase	Y Phase	B Phase	R Phase	Y Phase	B Phase
Breaker (Upper)	75°C	51°C	51°C	48°C	Within limit	Within limit	Within limit
Breaker (Lower)	75°C	44°C	47°C	47°C	Within limit	Within limit	Within limit
Terminal (Upper/incoming)	75°C	39°C	38°C	32°C	Within limit	Within limit	Within limit
Terminal (Lower/Outgoing) Shorted as λ point	75°C	36°C	37°C	37°C	Within limit	Within limit	Within limit
Body (side)	30°C	11°C			Within limit	Within limit	Within limit

*as per cl. No. 7.5 and table 14, IEC 62271-1: 2017

Dimension of shorting link (incoming) used for temporary connection (copper bar)	80 mmX10 mm—for each ph.
Dimension of shorting link (outgoing) used for temporary connection (copper bar)	60 mmX16 mm—for each ph.
Dimension of Shorting link used for shorting star point	80 mmX10 mm— one pair for each ph.
Stem Contact (Cu.bar)	60 mmX16 mm
Line frequency recorded during test	49.97 to 50.03 Hz

REMARKS : The test sample conforms to the requirements of relevant IEC clauses.

Nitin
20.01.2023
Prepared by
NITIN RAJ
Dy. Manager (Tech.)

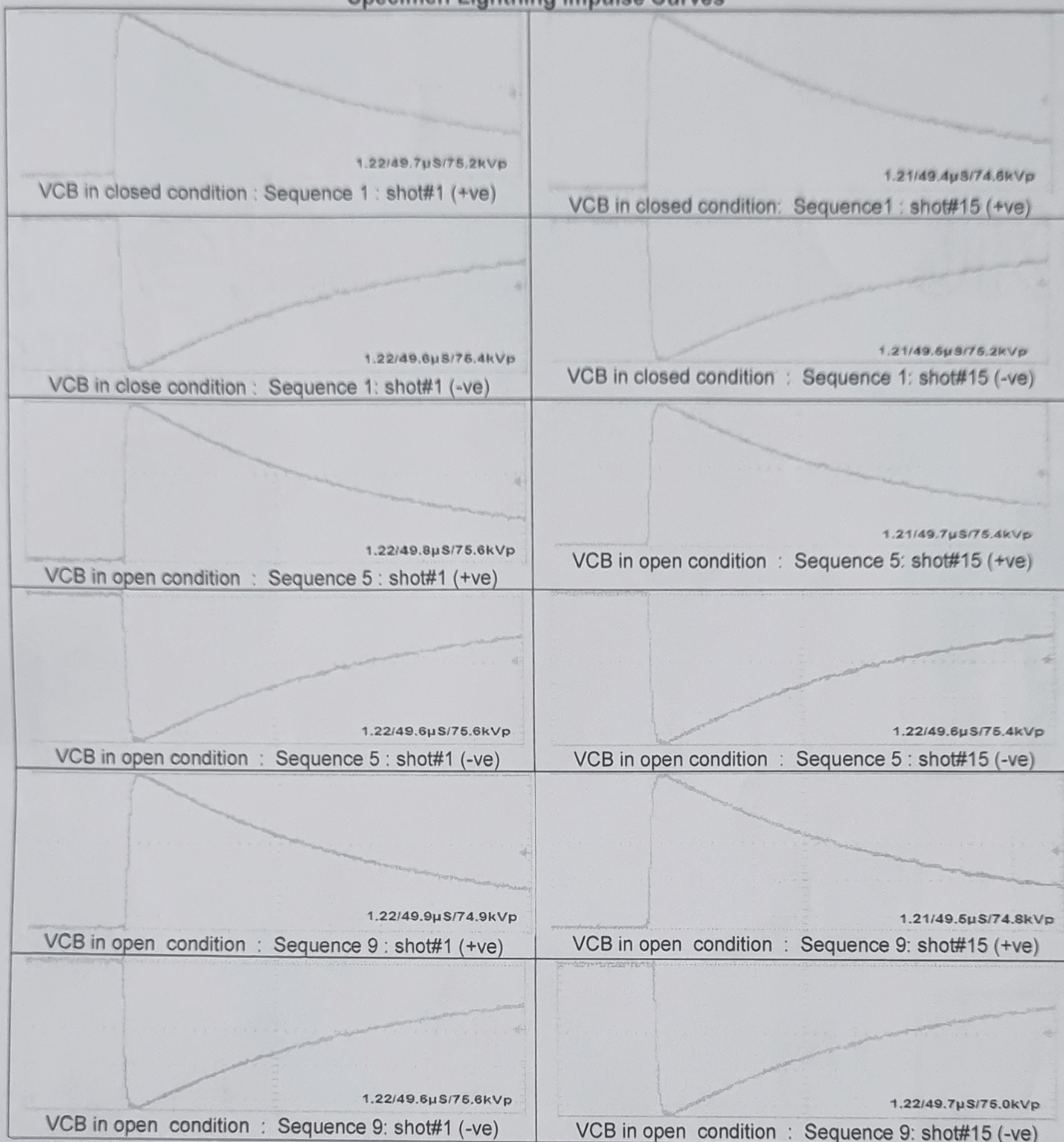
20/01/2023
Issued by
RAJIB CHANDA
Chief Manager



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N S I C

TECHNICAL SERVICES CENTRE BALITIKURI, HOWRAH

Annexure – I Specimen Lightning Impulse Curves



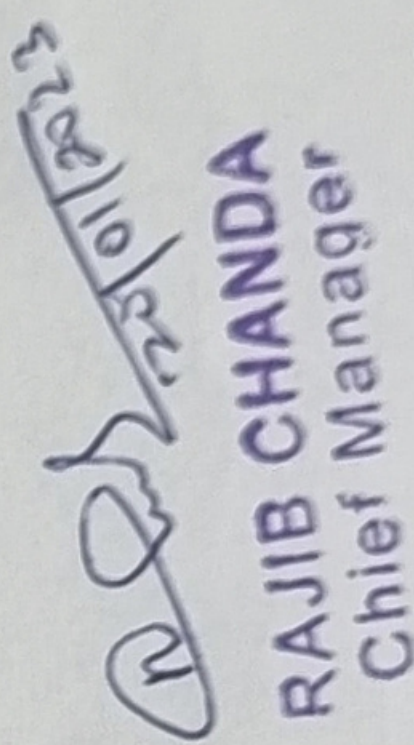
Reference Test Report No. NTSC(H)/EHV/2022-23/7842 Dt. 19.01.2023

Nitin
20.01.2023
Prepared by

NITIN RAJ
Dy. Manager (Tech.)

Rajib Chanda
20/01/2023
Issued by
RAJIB CHANDA
Chief Manager

Attestation of this drawing is limited to
checking of dimensions only.
This drawing pertains to Test Report No.
NTSC(H)/E+IV/2022-23/7841 dt. 19.01.2023



21,22,23
— AMBIENT TEMPERATURE

Glentec Industries Private Limited

Dy. Manager (Tech.)

RAJIB CHANDA
Chief Manager

Director 2 2

CUSTOMER ID:

[illegible]

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

PERMISSIBLE DEVIATIONS LINEAR AS PER BASIC SIZE	PERMISSIBLE DEVIATIONS ANGULAR FOR RANGES OF LENGTHS IN mm OF SHC HIER SIZE OF ANGLE CONCERNED
0 TO 10 mm ± 0.5	0-10 mm $\pm 1^{\circ} 30'$
10 TO 50 mm ± 1	10-50 mm $\pm 1^{\circ}$
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

ELENTRIC INDUSTRIES PVT. LTD.

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

GA OF 12KV,1250A 26.3KA VCB PANEL FOR
TEMP.RISE TYPE TESTING

DRAWING NO. REV.

01/23

14/01/23

14/01/23

14/01/23

ELECTRIC/22-23/TEMP RISE-VCB/NSIC/GA

SHEET - 2 OF 3

REV.

THERMO-COUPLE LOCATION

Sl.No.	DESCRIPTIONS	THERMOCOUPLE LOCATION	Remarks
1	R Phase Incommer Terminal	TH-1	
2	R Phase Incommer Terminal	TH-2	
3	B phase Incommer Terminal	TH-3	
4		TH-4	
5	1 metre away from Incommer terminal for R,Y,B Phase	TH-5	
6		TH-6	
7	R-Ph Running Busbar	TH-7	
8	Y-Ph Running Busbar	TH-8	
9	B-Ph Running Busbar	TH-9	
10		TH-10	
11	VCP Top isolating contacts R,Y & B phase	TH-11	
12		TH-12	
13		TH-13	
14	VCB Bottom Isolating contacts R,Y & B phase	TH-14	
15		TH-15	
16	R Phase Outgoing terminal	TH-16	
17	Y Phase Outgoing terminal	TH-17	
18	B Phase Outgoing terminal	TH-18	
19	Outgoing shorting/star connection point	TH-19	
20	Panel Enclosure Body	TH-20	
21		TH-21	
22	Ambient Temperature	TH-22	
23		TH-23	

This drawing pertains to
Test Report No.
NTSC(H)/E HM/2022.23 7841
Dtd.13 /01/2023

Elentric Industries Private Limited

Reference drawing only :
Not verified

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

**GA OF 12KV,1250A 26.3KA VCB PANEL FOR
TEMP.RISE TYPE TESTING**

REV.	DATE	REV.	DATE	REV.	DATE	CUSTOMER :-
	DRAWN		DRAWN		DRAWN	

GENERAL TOLERANCES AS PER IS 2102
LINEAR & ANGULAR DIMENSIONS WITHOUT
INDIVIDUAL TOLERANCES 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 $\pm 1^{\circ}30'$
10-50mm $\pm 1^{\circ}$
50-250mm $\pm 0^{\circ}30'$

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

ALL SHARP CORNERS TO BE
FREE FROM BURRS



SCALE

DRAWN
CHECKED
APPROVED

DATE
14/01/23
14/01/23
15/01/23

DRAWING NO.

REV.

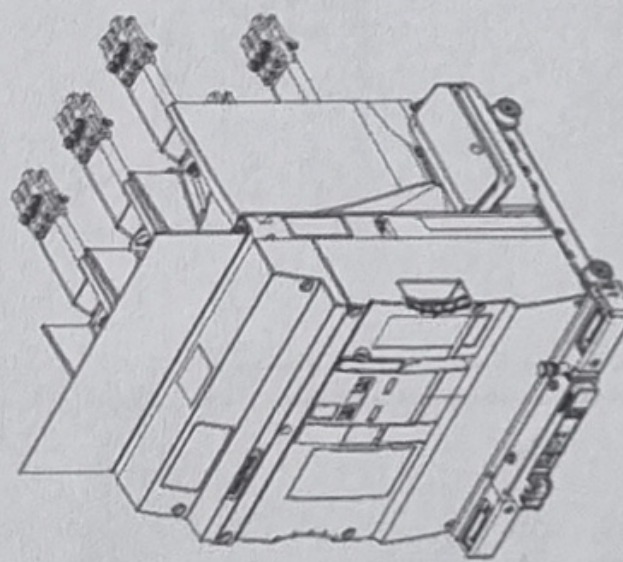
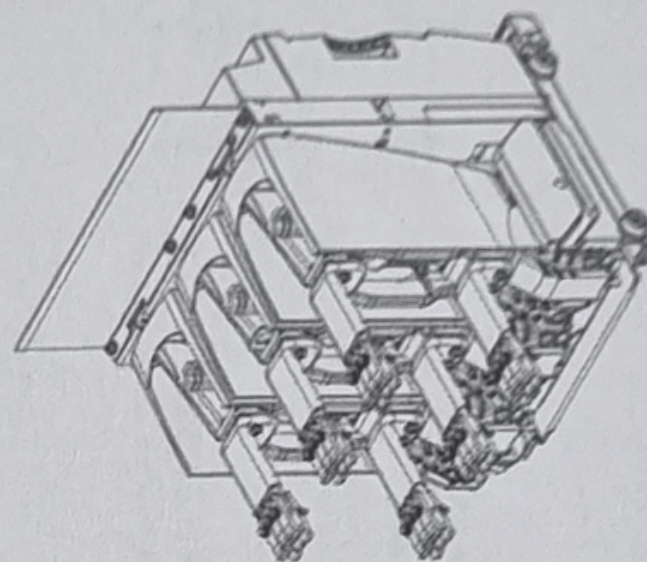
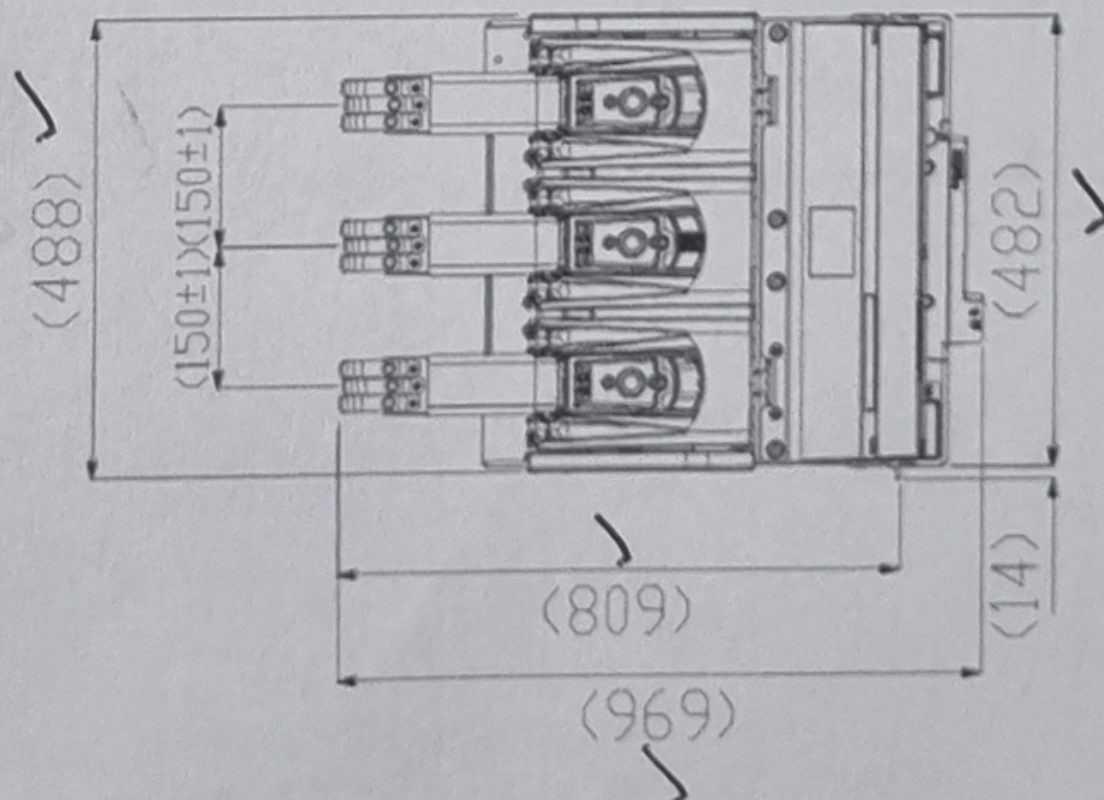
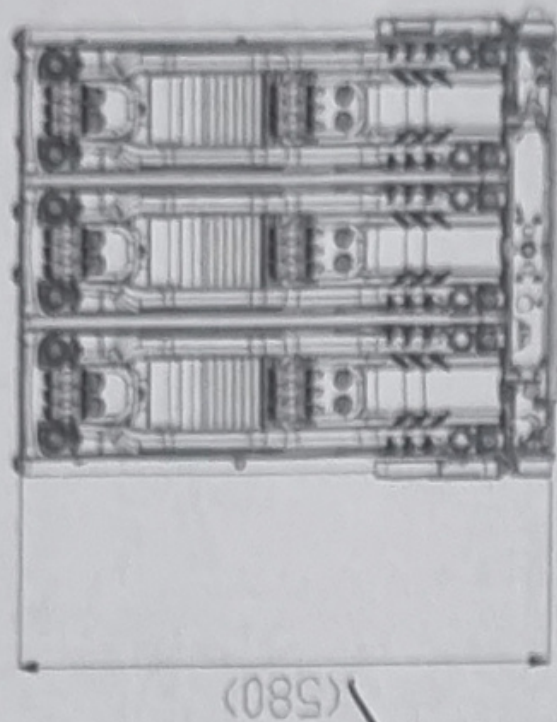
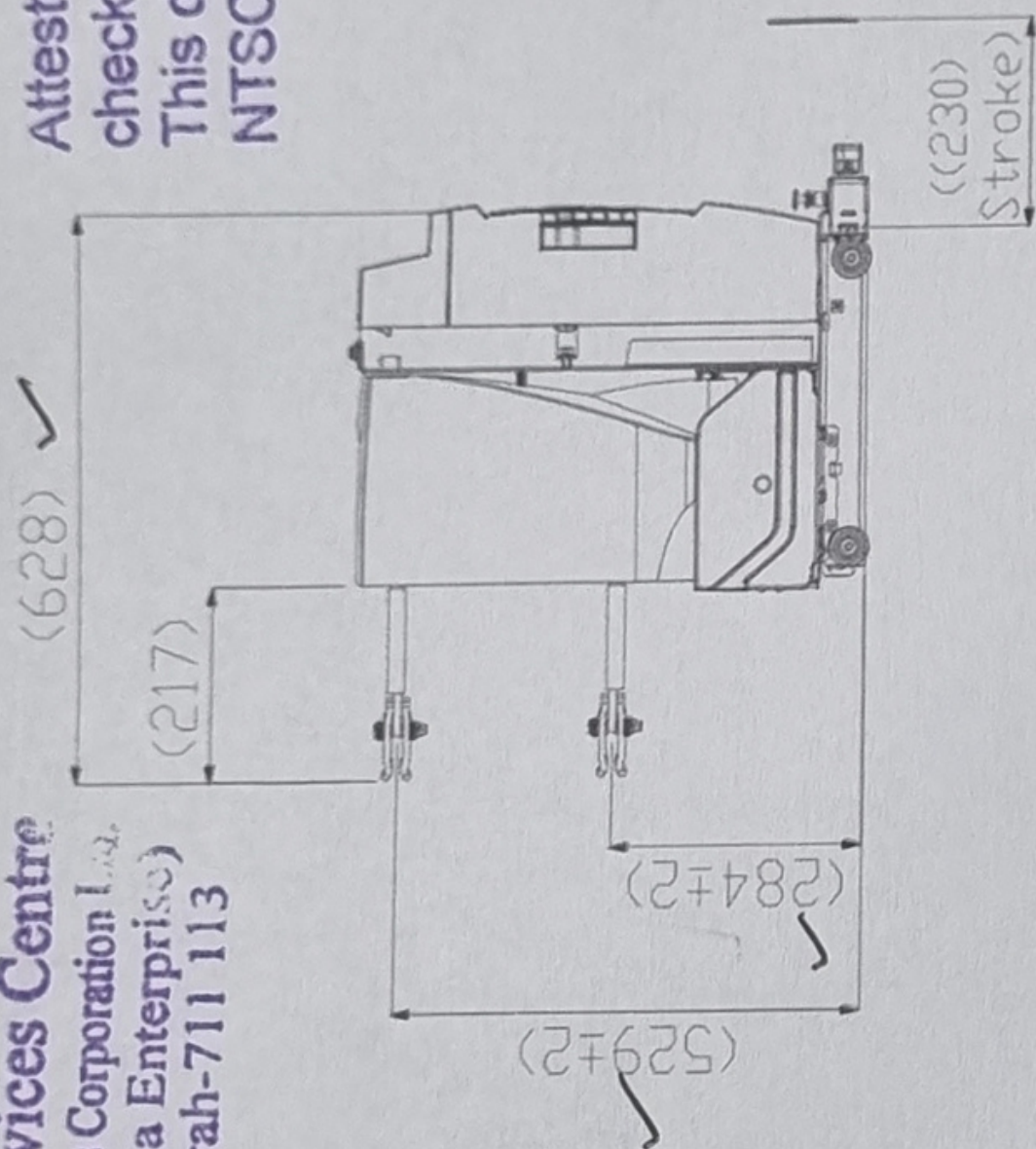
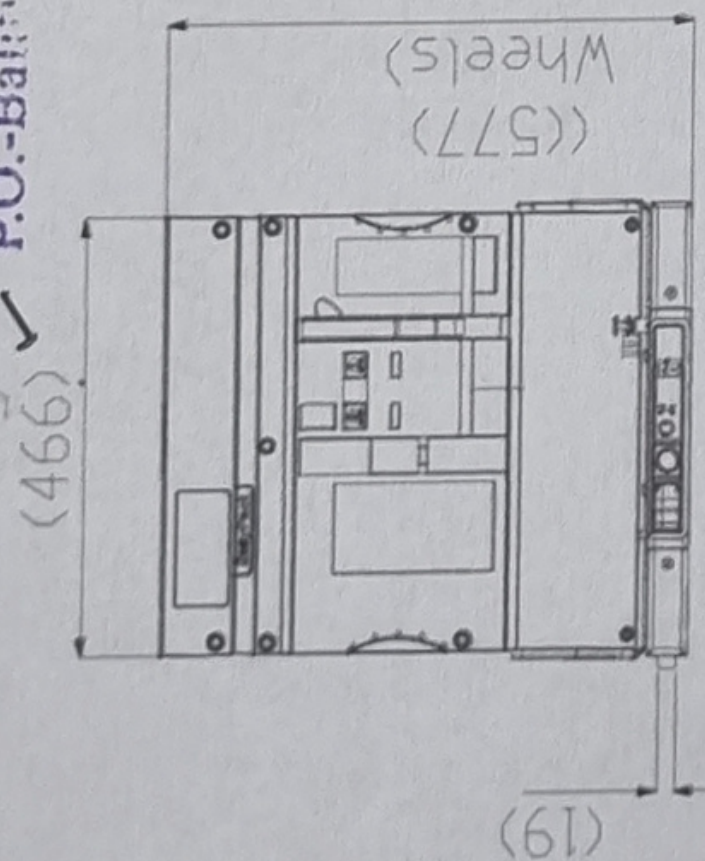
ELENTRIC/22-23/TEMP RISE-VCB/NSIC/GA

SHEET - 3 OF 3

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The National Small Industries Corporation Ltd.
(A Government of India Enterprise)
P.O.-Baliakuri, Howrah-711 113

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This drawing pertains to Test Report No.
NTSC(H)/EHV/2022-23/84/dt. 19.01.2023



W/D CB 12kV Variant

Nitin 18.01.2023
NITIN RAJ
Dy. Manager (Tech.)

28.01.2023
RAJIB CHANDA
Chief Manager

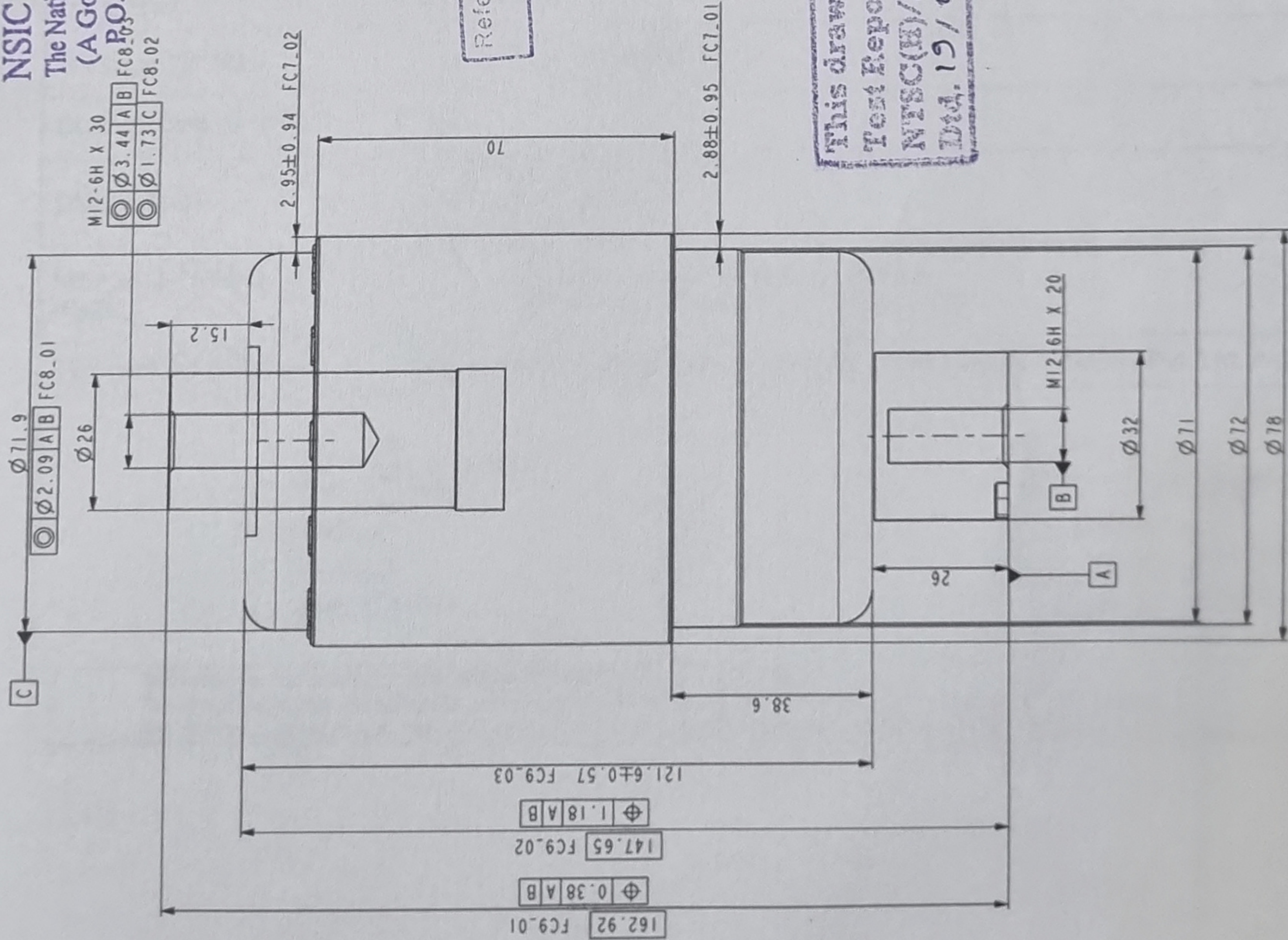
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	Document Number: PROTOTYPE VCB	Doc. No: 00
		State: Provisional

Original Form: 12

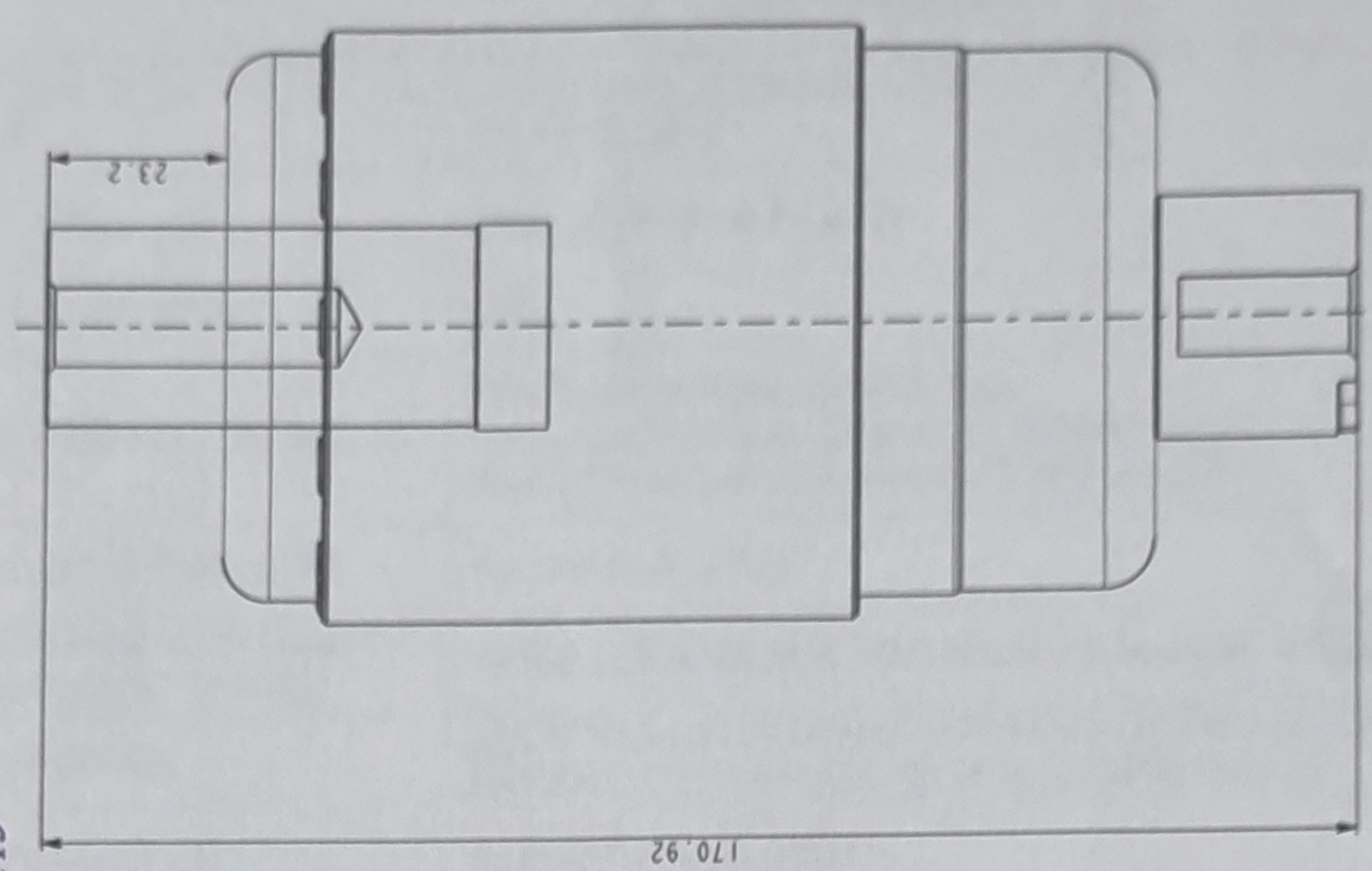
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P.O.-Balitikuri, Howrah-711 113

M12-6H X 30
FC8_01
FC8_02



Reference drawing only :
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Test Report No.
NISC(H)/E HY2022-23/841
Dtd. 19/01/2023



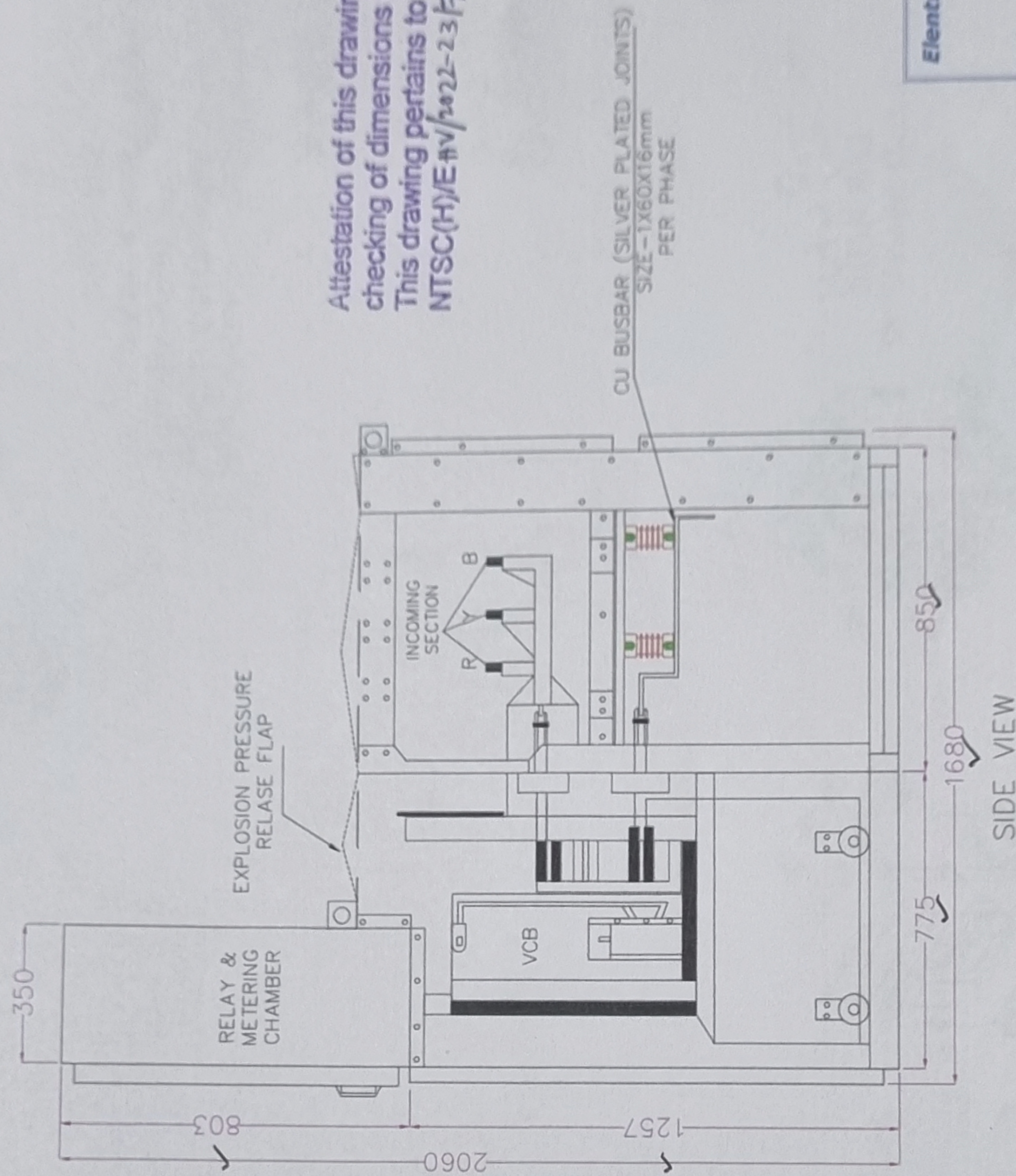
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VI IN CLOSED POSITION

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Nitin
NITIN RAJ
Dy. Manager (Tech.)


RAJIB CHANDA
Chief Manager

Electric Industries Private Limited
J.P.C.
Director

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

GA OF 12KV,1250A 26.3KA VCB PANEL FOR
IMPULSE & HIGH VOLTAGE TYPE TESTING

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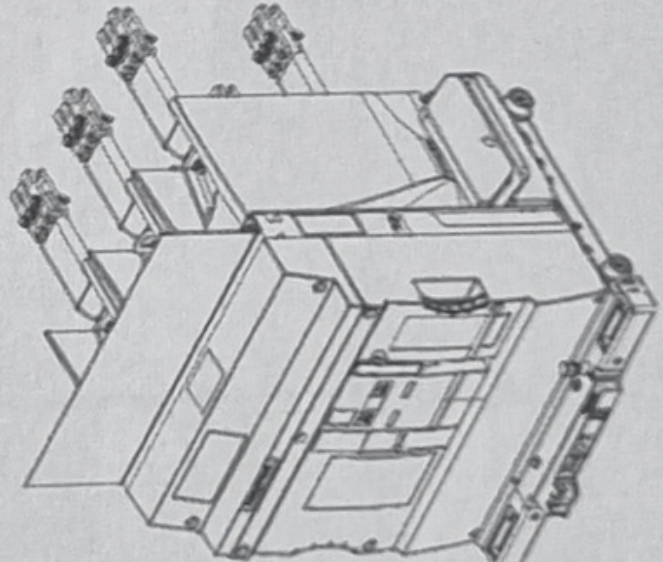
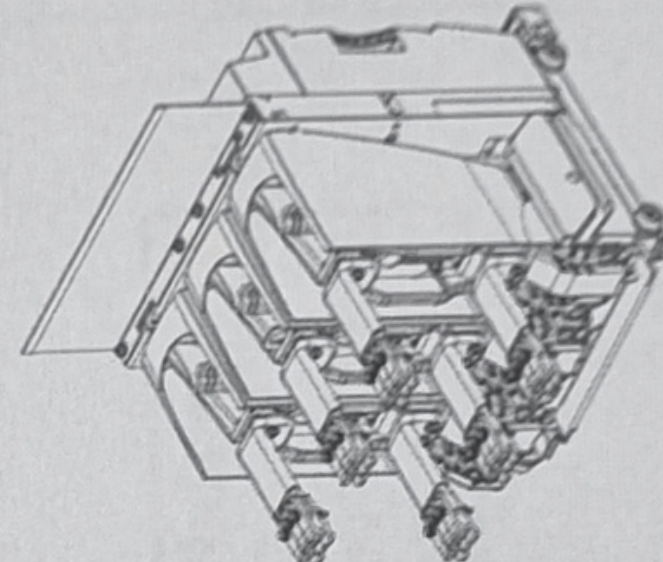
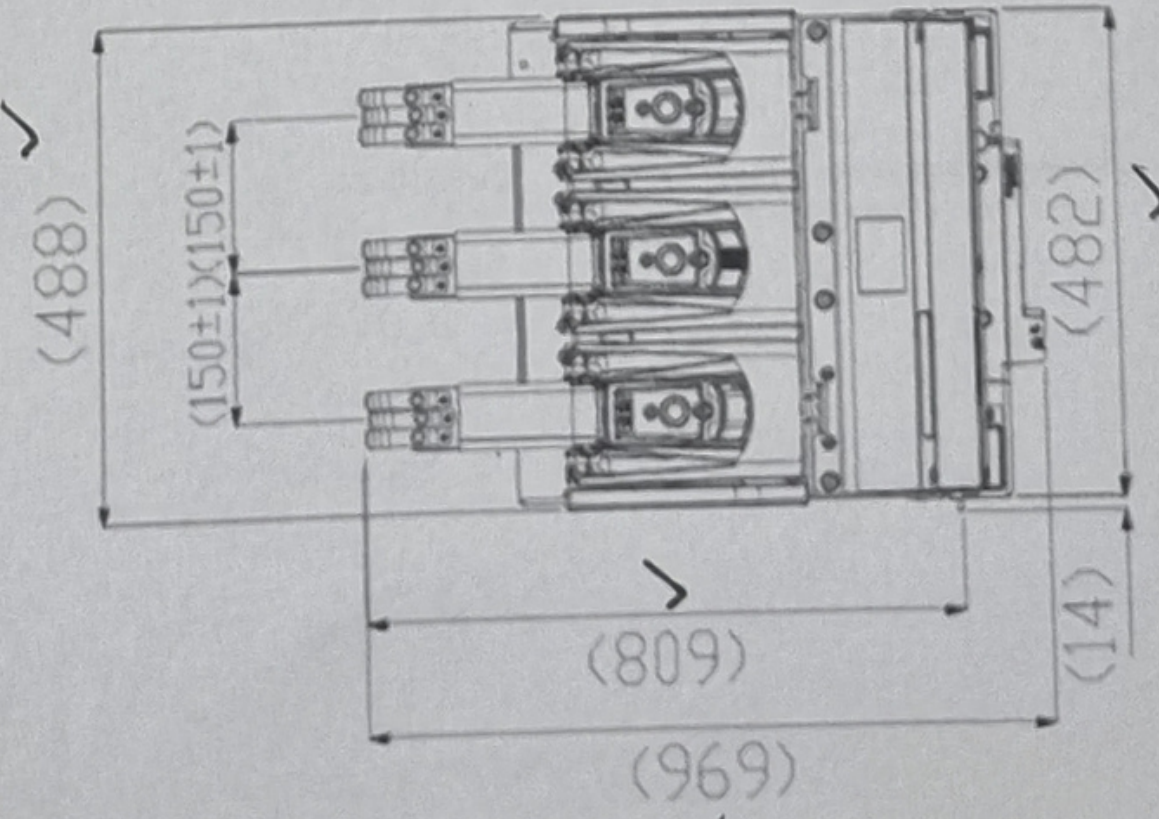
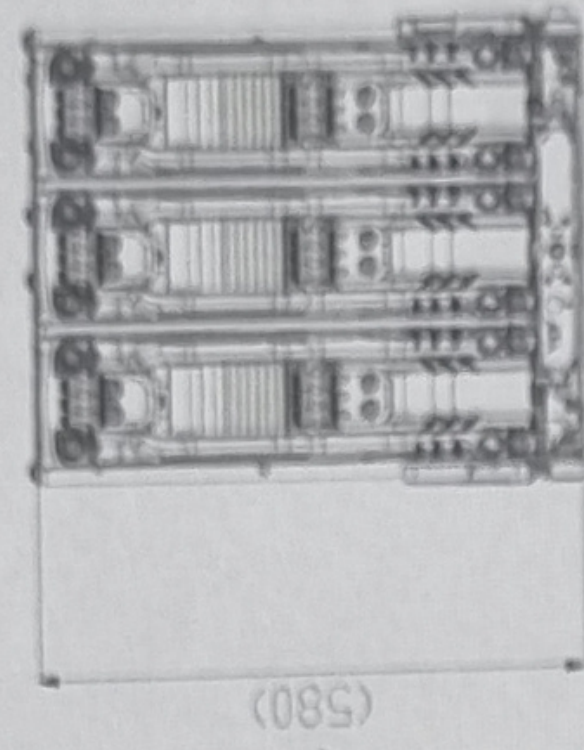
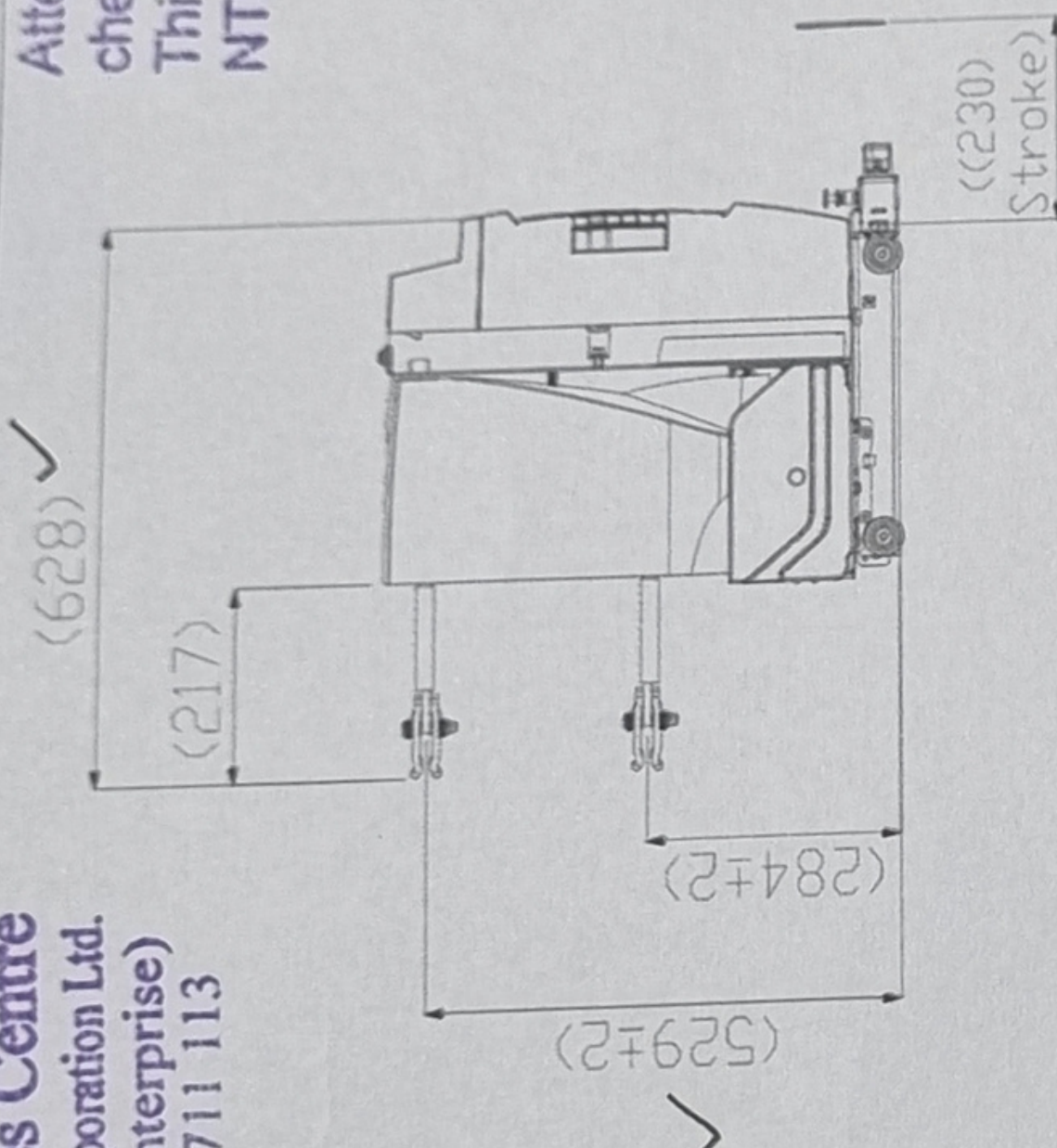
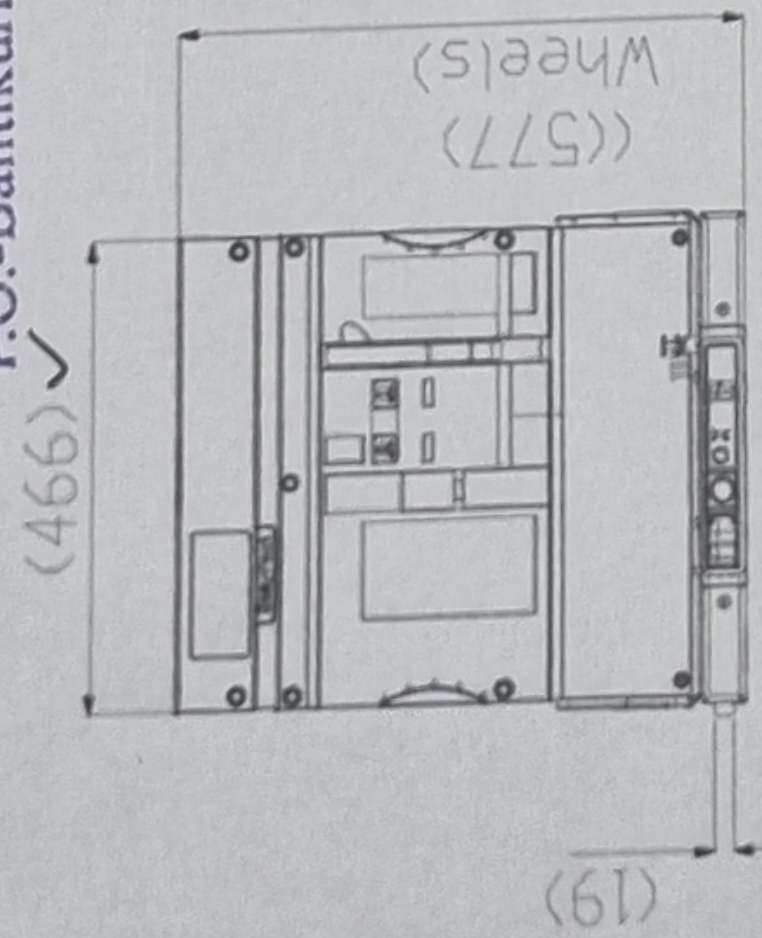
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CHECKED	AC	14/01/23		
APPROVED	AC	15/01/23		

SHEET - 2 OF 2

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P.O.-Balitikuri, Howrah-711 113

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NTSC(H)/E#v/2022-23/78 vdt. 19.01.2023



W/D CB 12kV Variant

20.01.2023

Nitin Raj
NITIN RAJ
Dy. Manager (Tech.)

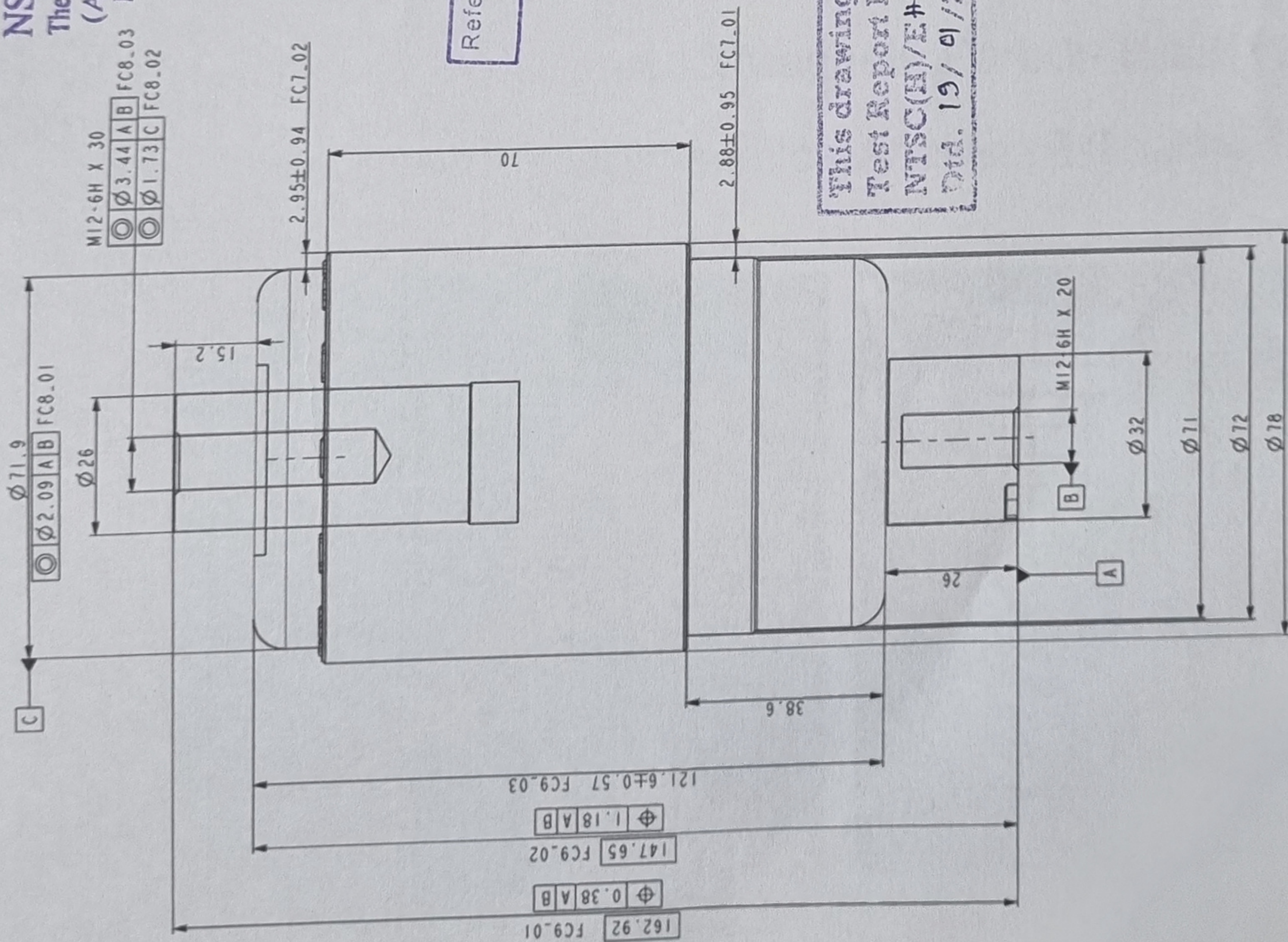
RAJIB CHANDA
Chief Manager

f-AC

Scale: 0:1.00	Technical Specification	Sheet of 01
Schneider Electric	Account Description GA FOR INV L250A 24.3kA VCB TYPE EASYMATE EXE	Sheet No. 00 of 01
	Account Number PROTOTYPE VCB	Sheet No. 00 of 01
	Project Name Provisional	Project Number

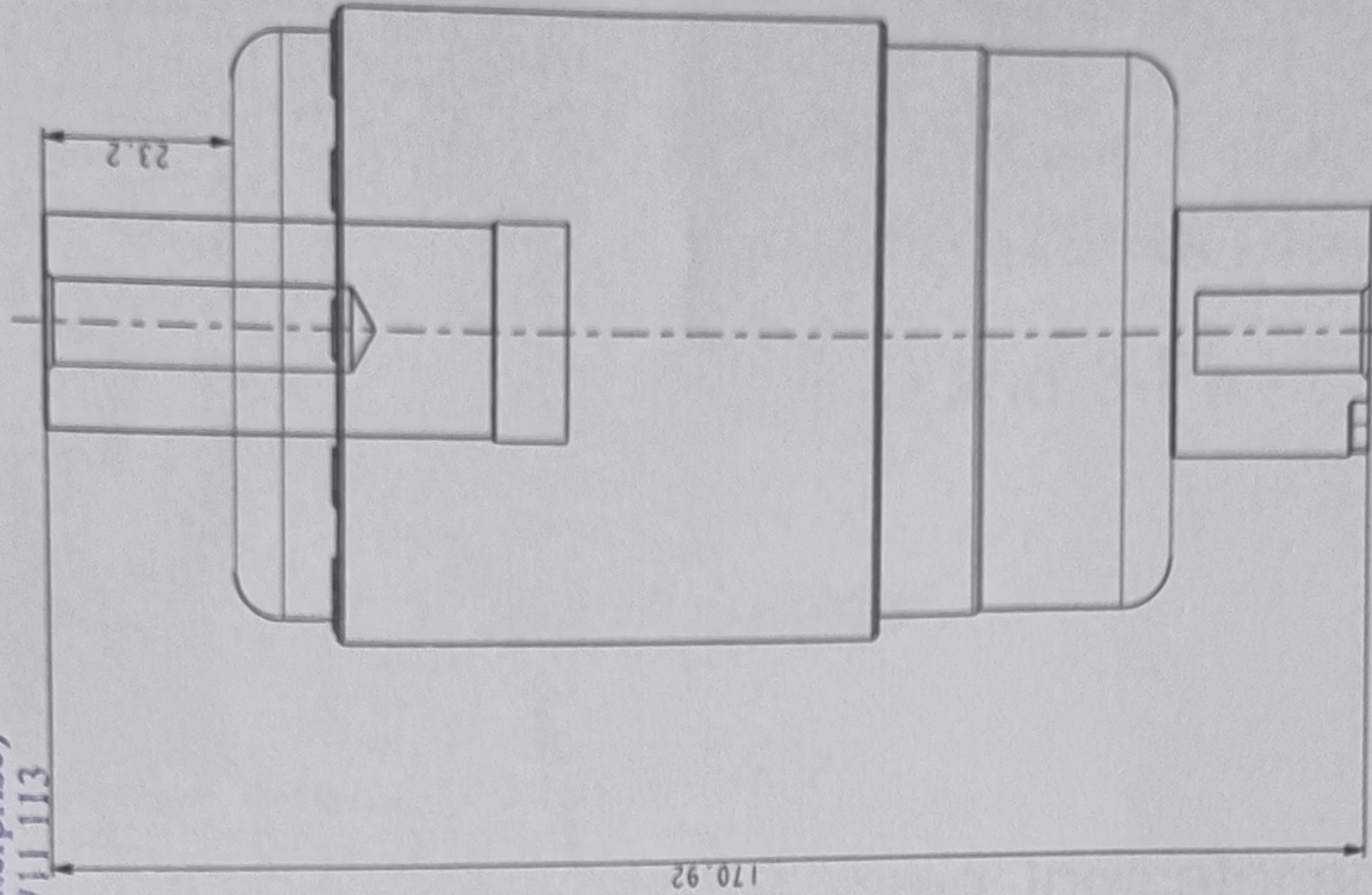
NSIC Technical Services Centre
The National Small Industries Corporation Ltd.
(A Government of India Enterprise)
P.O.-Baltikuri, Howrah-711113

M12-6H X 30
 ◎ Ø 3.44 A B FC8.03
 ◎ Ø 1.73 C FC8.02



Reference drawing only :
Not verified

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Test Report No.
NTSC(H)/E#V/2022-23/7842
Dt. 19/01/2023



f: A.C.

VI IN OPENED POSITION (CONTACT STROKE = 8mm)

Scale: 1:00	Technical Specification:	Units of measure: mm
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Document Number:	NHA2095802	Doc. Rev. 07
		Sheet 1/1
State: Creation Printed on 2017/01/20		

VI IN CLOSED POSITION