



GREEN SECURE ENERGY SYSTEMS,.

NOTE: 1. DRAWING APPROVAL SUBJECT TO VALID TYPE TEST REPORTS, TO BE CHECKED DURING ACCEPTANCE TESTS
2. FOR EPC CONTRACTS ONLY

415V AC DISTRIBUTION BOARD

End Client: M/s. Transmission Corporation of Andhra Pradesh Limited
Project name: AS APPLICABLE
Contractor: AS APPLICABLE
Customer: AS APPLICABLE

Manufacturer: M/s. Green Secure Energy Systems
P.O. No: AS APPLICABLE
Job No: AS APPLICABLE
Drawing No.: GSS-23-24-024ACDB
Quantity: AS APPLICABLE

**Chief Engineer/Projects
APTRANSCO/VS/Vijayawada.**

Drawn By: Ramesh Checked By: Bhaskar Approved By: Jothiswar Total no. of pages: 57

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				GREEN SECURE ENERGY SYSTEMS,.		DRN	RC	SCALE	NA
						CHD	BB	DATE	14.09.2023
				TITLE 415V AC DISTRIBUTION BOARD		APPD	JR	SHEET NO.	
						DRAWING No.		01 OF 57	
				PAGE TYPE	COVER SHEET	GSS-23-24-024ACDB		REV.	R0

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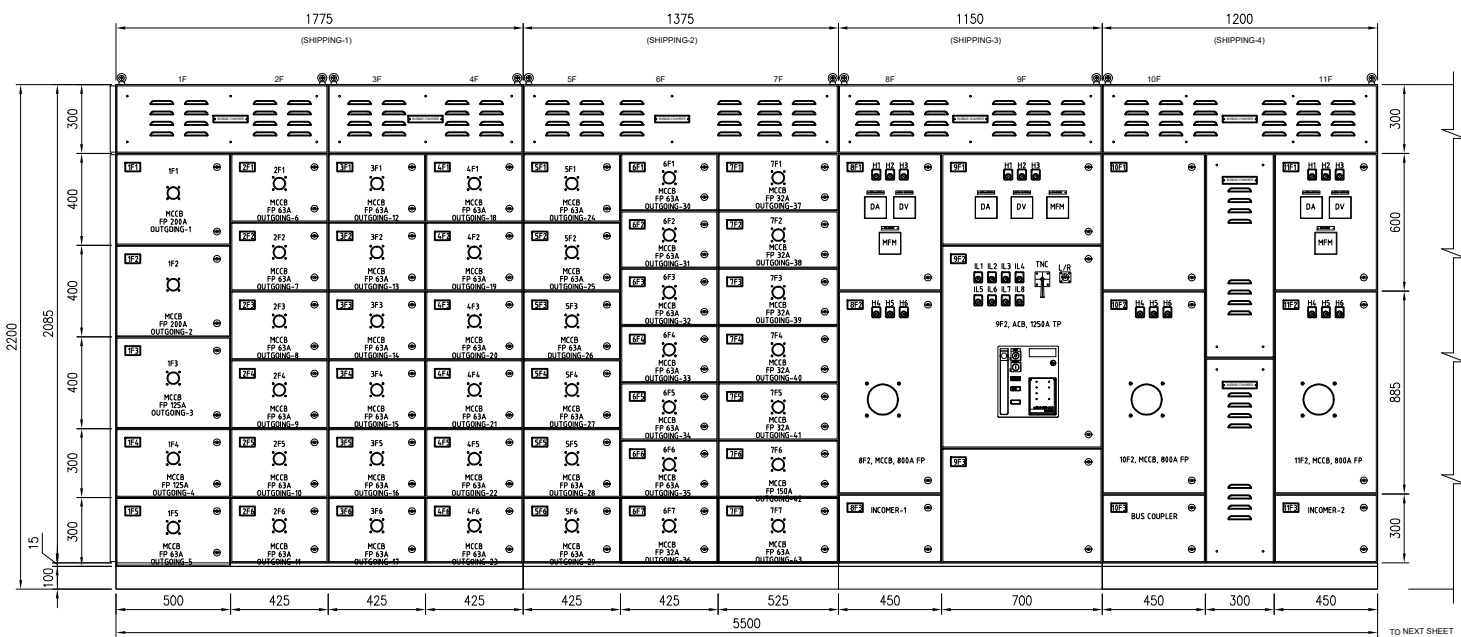
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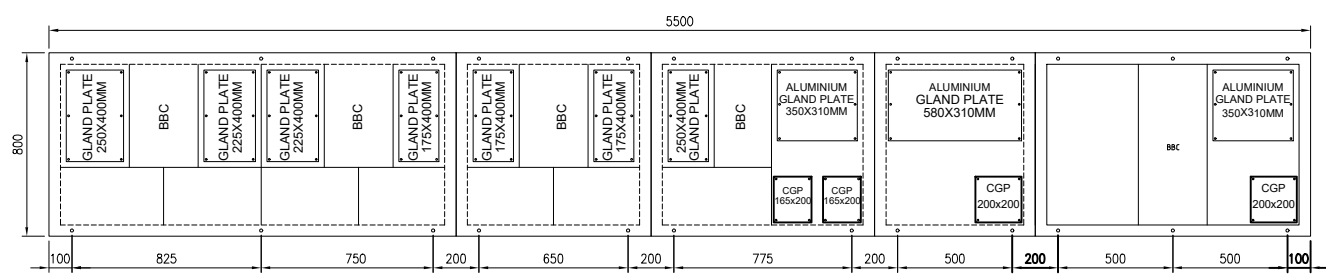
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FRONT VIEW



FOUNDATION VIEW

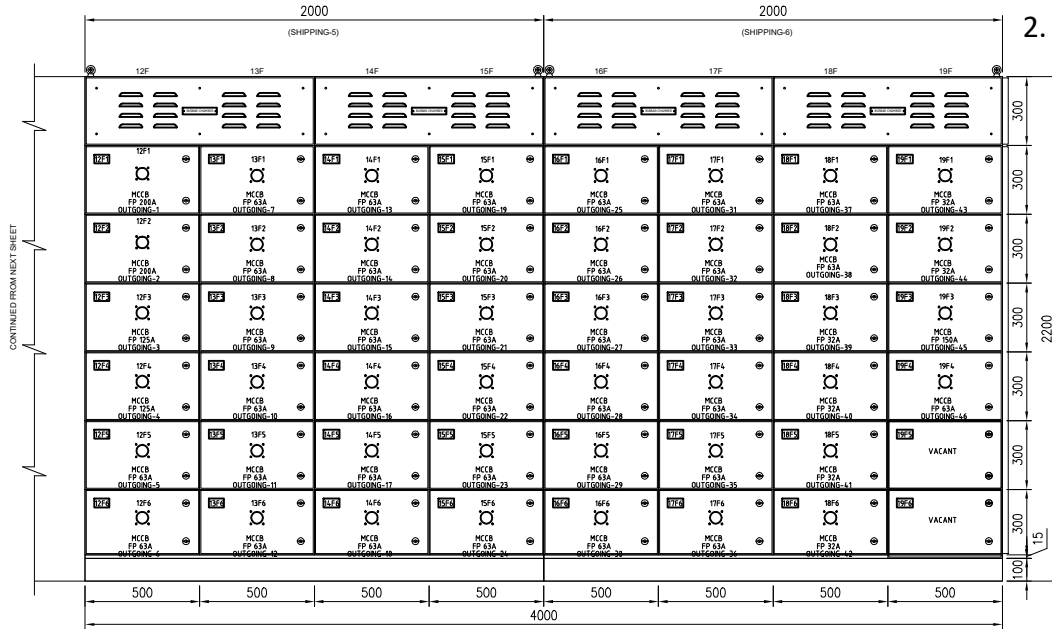
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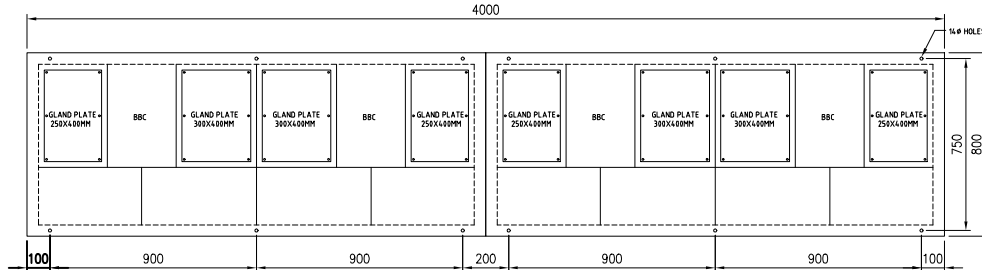
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SPARE SHEET

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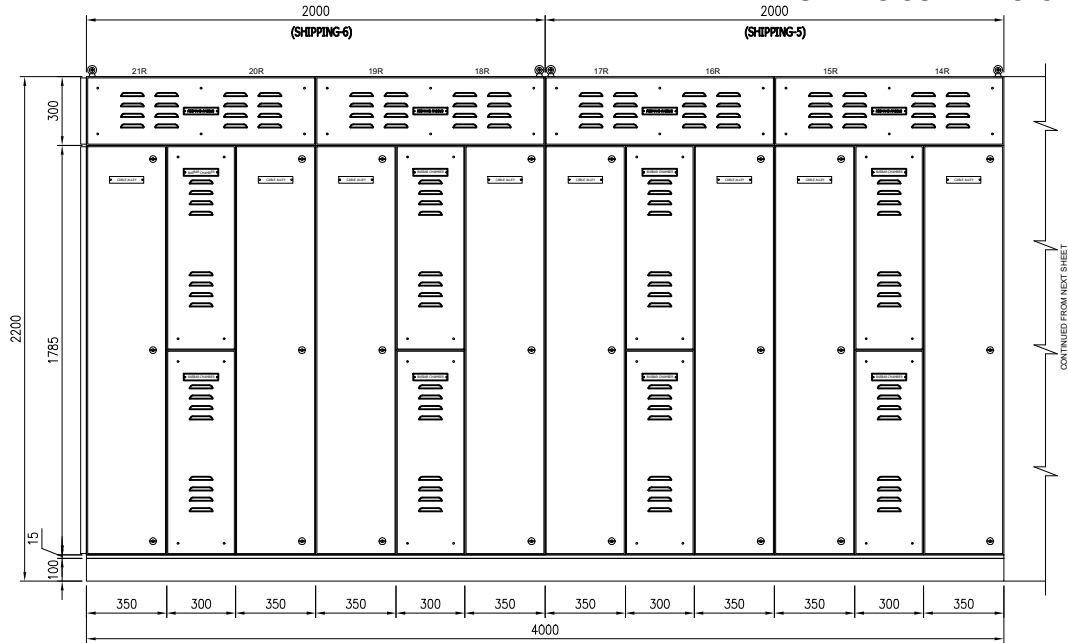
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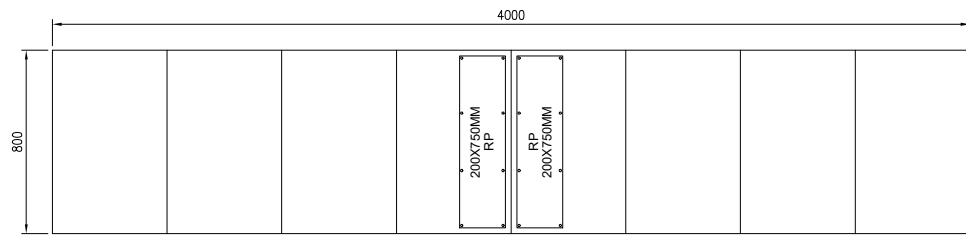
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REAR VIEW



TOP VIEW | REAR

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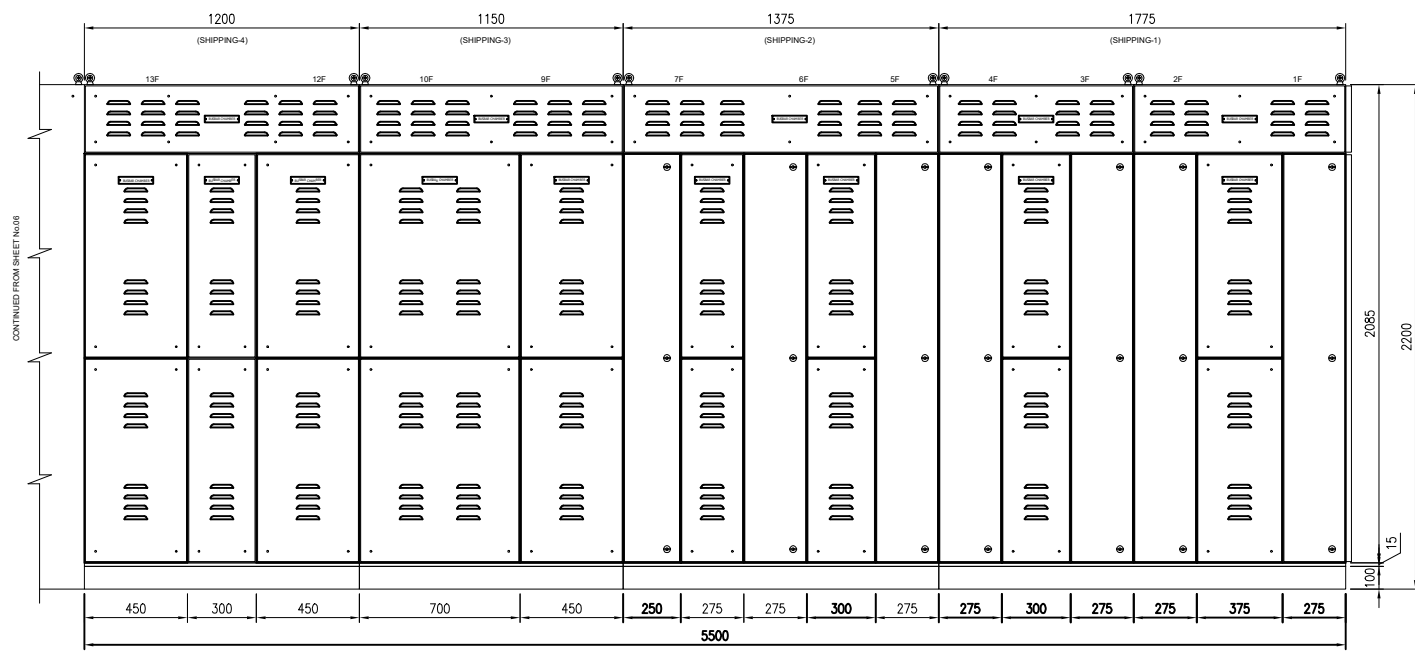
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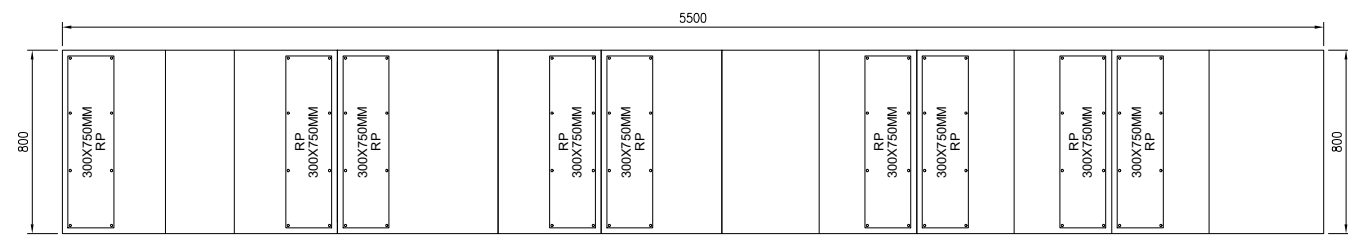
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REAR VIEW



TOP VIEW

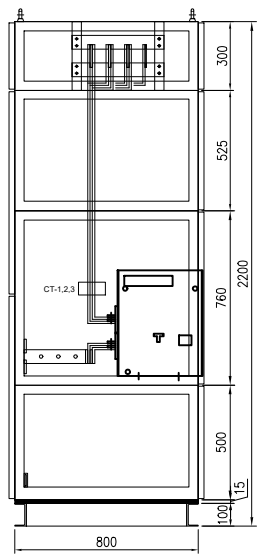
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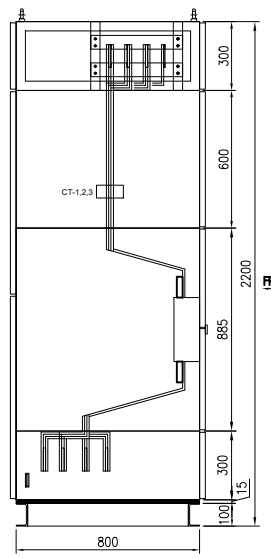
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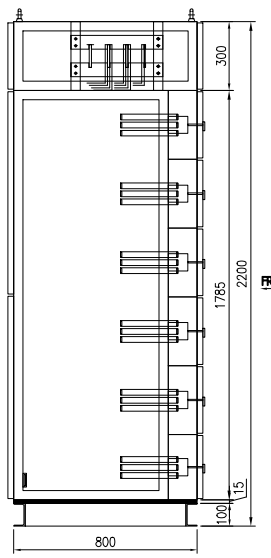
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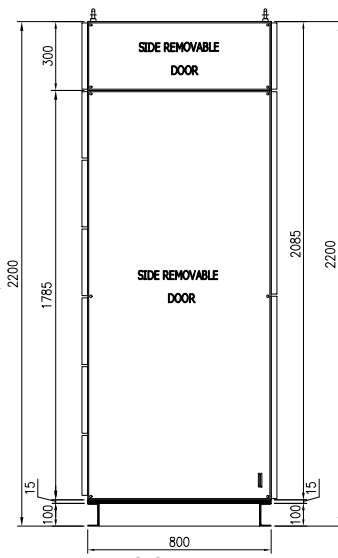
DG INCOMER
SECTIONAL SIDE VIEW



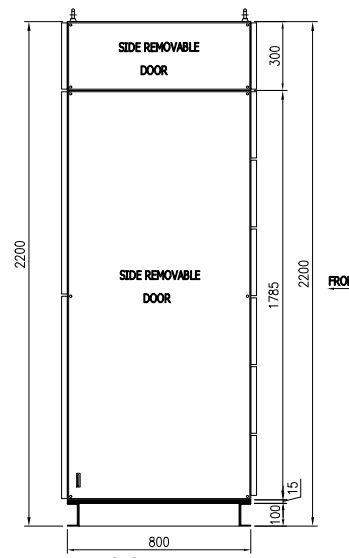
INCOMER-1,2 & BUS COUPLER
SECTIONAL SIDE VIEW



MCCB OUTGOING
SECTIONAL SIDE VIEW



RHS SIDE VIEW



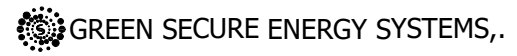
LHS SIDE VIEW

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GENERAL NOTES


EARTHING, LABELLING, LOCKING ARRANGEMENT, LUGS & BUS BAR		
1.	BUSBAR MATERIALS	ALUMINIUM BUSBAR WITH HT SLEEVE AND PHASE IDENTIFICATION AT END
2.	MAIN BUS BAR SIZE	1Rx100x10mm/PHASE
		1Rx100x5mm/NEUTRAL
3.	EARTH BUS BAR	25x6mm, TINNED COPPER
4.	LABELLING	ANODISED ALUMINIUM STRIPS AL/EQ NAME PLATE WITH "WHITE LETTER" ON "BLACK BACKGROUND" FOR EACH FEEDER AND PANEL
5.	LOCKING ARRANGEMENT	CAM LOCK-KEY OPERATED
6.	LUGS	INSULATED LUGS

TABLE FOR CONTROL CABLE SIZING			
MAKE: LAPP/FINOLEX/RR CABLE/POLY CAB			
TYPE: PVC MULTI STRAND FLEXIBLE COPPER CABLE, 1100V GRADE, FRLS			
SL. No.	DESCRIPTION	SIZE OF WIRE (SQ.MM)	COLOUR
1.	CT CIRCUIT	2.5 Sq.mm	R PHASE - RED Y PHASE - YELLOW B PHASE - BLUE NEUTRAL - BLACK
2.	220V DC DISTRIBUTION CIRCUIT	1.5 Sq.mm	POSITIVE - RED NEGATIVE - BROWN
3.	230/240V AC DISTRIBUTION CIRCUIT	1.5 Sq.mm	PHASE - VIOLET NEUTRAL - BLACK
4.	POTENTIAL FREE CONTACT	2.5 Sq.mm	GREY
5.	ELECTRICAL DOOR EARTH	4 Sq.mm	YELLOW-GREEN

INSPECTION & TEST	
1.	VISUAL INSPECTION
2.	INSULATION RESISTANCE MEASUREMENT
3.	DIELECTRIC STRENGTH TEST
4.	FUNCTION TEST

LANGUAGES	ENGLISH
PACKING	BUBBLE SHEET WRAPPING

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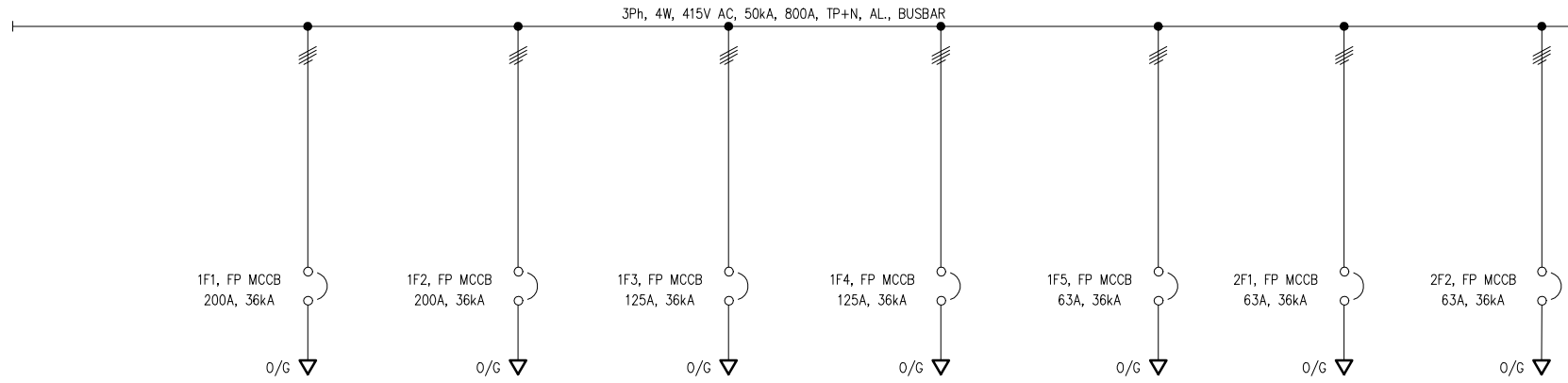
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415V AC DISTRIBUTION BOARD

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FEEDER LOCATION	1F1	1F2	1F3	1F4	1F5	2F1	2F2
FEEDER DESCRIPTION	OUTGOING-1	OUTGOING-2	OUTGOING-3	OUTGOING-4	OUTGOING-5	OUTGOING-6	OUTGOING-7
FEEDER RATING/TYPE	200A/FP MCCB	200A/FP MCCB	125A/FP MCCB	125A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB
INTERNAL BUSBAR SIZE	1RX25x10MM BUSBAR	1RX25x10MM BUSBAR	1RX20x10MM BUSBAR	1RX20x10MM BUSBAR	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE

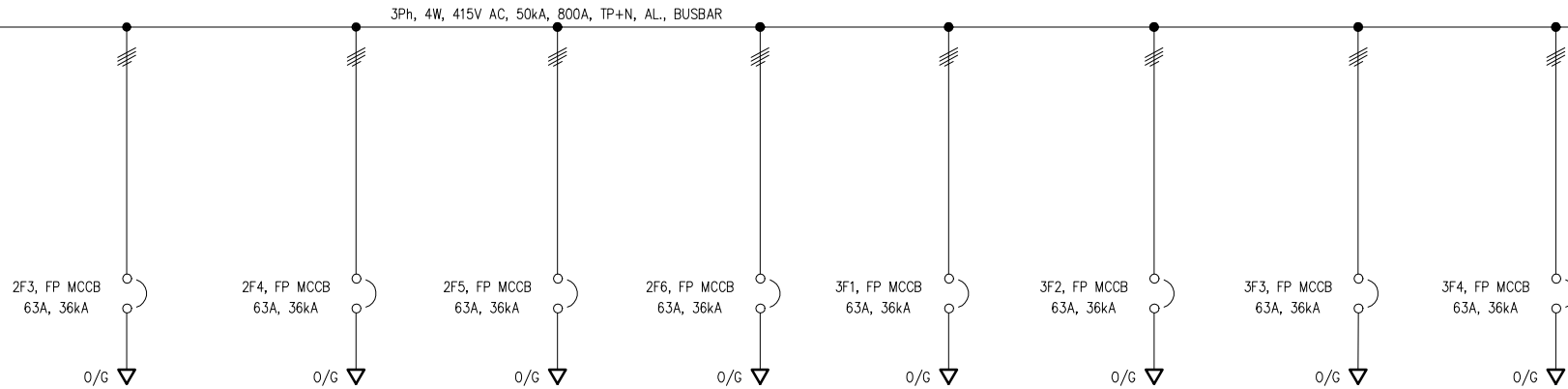
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FEEDER LOCATION	2F3	2F4	2F5	2F6	3F1	3F2	3F3	3F4
FEEDER DESCRIPTION	OUTGOING-8	OUTGOING-9	OUTGOING-10	OUTGOING-11	OUTGOING-12	OUTGOING-13	OUTGOING-14	OUTGOING-15
FEEDER RATING/TYPE	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB
INTERNAL BUSBAR SIZE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE



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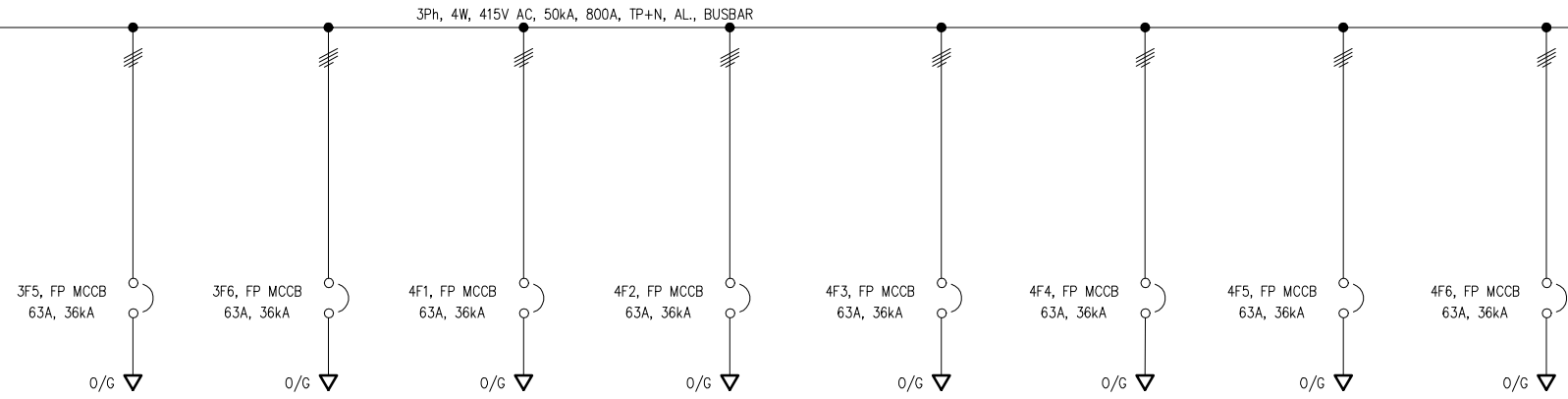
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FEEDER LOCATION	3F5	3F6	4F1	4F2	4F3	4F4	4F5	4F6
FEEDER DESCRIPTION	OUTGOING-16	OUTGOING-17	OUTGOING-18	OUTGOING-19	OUTGOING-20	OUTGOING-21	OUTGOING-22	OUTGOING-23
FEEDER RATING/TYPE	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB
INTERNAL BUSBAR SIZE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE

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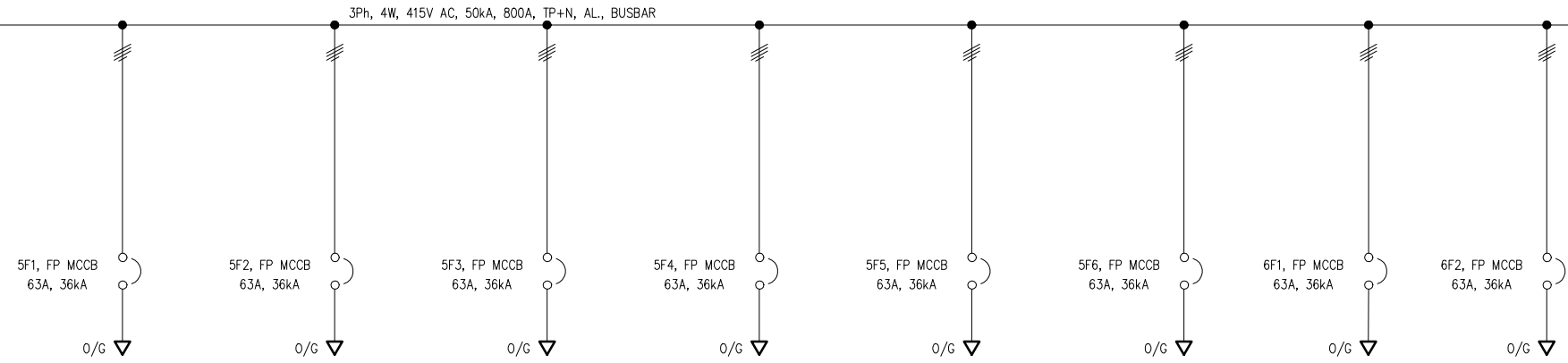
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FEEDER LOCATION	5F1	5F2	5F3	5F4	5F5	5F6	6F1	6F2
FEEDER DESCRIPTION	OUTGOING-24	OUTGOING-25	OUTGOING-26	OUTGOING-27	OUTGOING-28	OUTGOING-29	OUTGOING-30	OUTGOING-31
FEEDER RATING/TYPE	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB
INTERNAL BUSBAR SIZE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE

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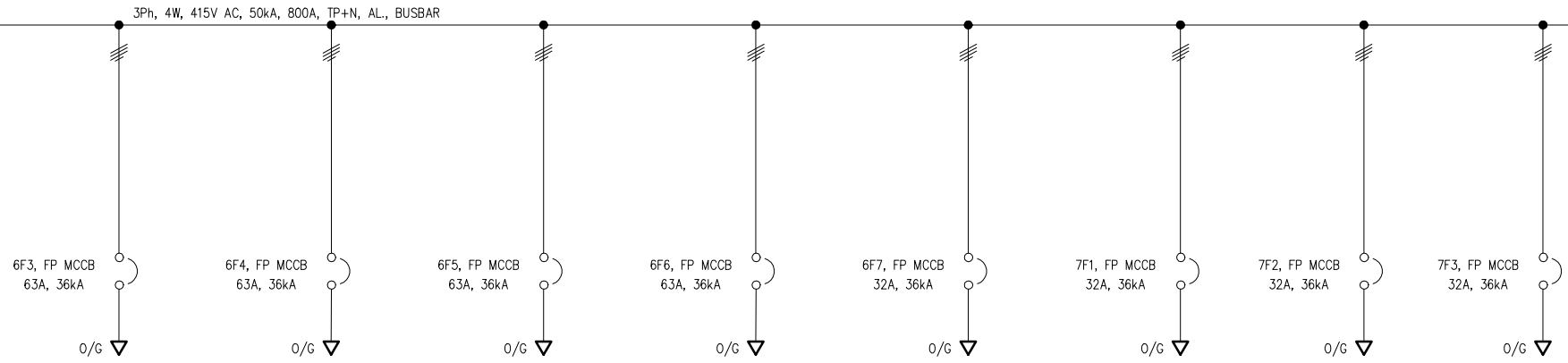
NOTE: 1. DRAWING APPROVAL SUBJECT TO VALID TYPE TEST REPORTS, TO BE CHECKED DURING ACCEPTANCE TESTS
2. FOR EPC CONTRACTS ONLY

72

880

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Chief Engineer/Projects APTRANSCO/VS/Vijayawada.



FEEDER LOCATION	6F3	6F4	6F5	6F6	6F7	7F1	7F2	7F3
FEEDER DESCRIPTION	OUTGOING-32	OUTGOING-33	OUTGOING-34	OUTGOING-35	OUTGOING-36	OUTGOING-37	OUTGOING-38	OUTGOING-39
FEEDER RATING/TYPE	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	32A/FP MCCB	32A/FP MCCB	32A/FP MCCB	32A/FP MCCB
INTERNAL BUSBAR SIZE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	10 SQ.MM CU. CABLE	10 SQ.MM CU. CABLE	10 SQ.MM CU. CABLE	10 SQ.MM CU. CABLE

	DRN	RC	SCALE	NA
	CHD	BB	DATE	14.09.2023
	APPD	JR	SHEET NO.	
	DRAWING No.		15	OF 57
TITLE	415V AC DISTRIBUTION BOARD		REV.	R0
PAGE TYPE	SINGLE LINE DIAGRAM (5/13)		GSS-23-24-024ACDB	

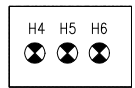
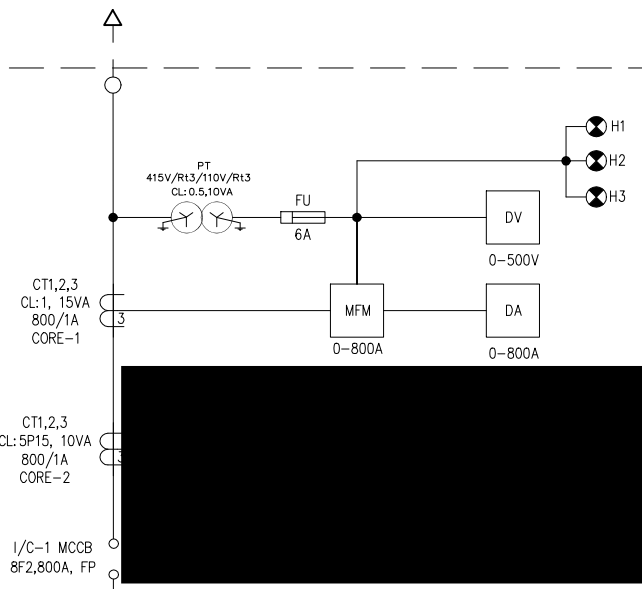
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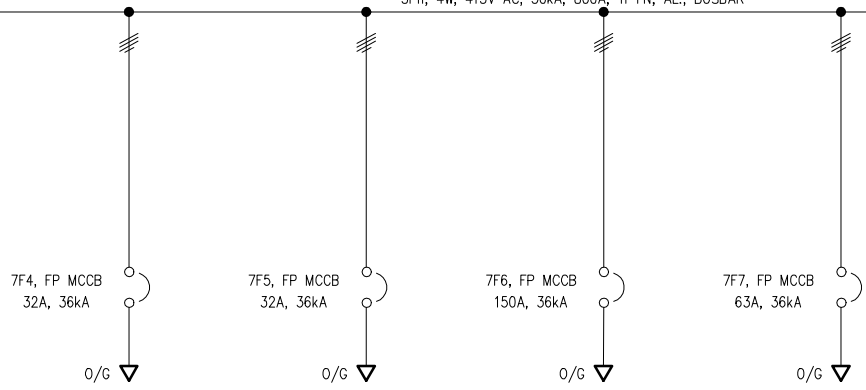
NOTE: 1. DRAWING APPROVAL SUBJECT TO VALID TYPE TEST REPORTS, TO BE CHECKED DURING ACCEPTANCE TESTS
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3 PHASE, 4 WIRE, 415V AC SUPPLY FROM MAIN BOARD THROUGH CABLES

FEEDER LOCATION	10F
FEEDER DESCRIPTION	INCOMER-1
FEEDER RATING/TYPE	800A/TP ACB
INTERNAL BUSBAR SIZE	2RX50x10MM BUSBAR



3Ph, 4W, 415V AC, 50kA, 800A, TP+N, AL., BUSBAR



FEEDER LOCATION	7F4	7F5	7F6	7F7
FEEDER DESCRIPTION	OUTGOING-40	OUTGOING-41	OUTGOING-42	OUTGOING-43
FEEDER RATING/TYPE	32A/FP MCCB	32A/FP MCCB	150A/FP MCCB	63A/FP MCCB
INTERNAL BUSBAR SIZE	10 SQ.MM CU. CABLE	10 SQ.MM CU. CABLE	1RX20x10MM BUSBAR	16 SQ.MM CU. CABLE

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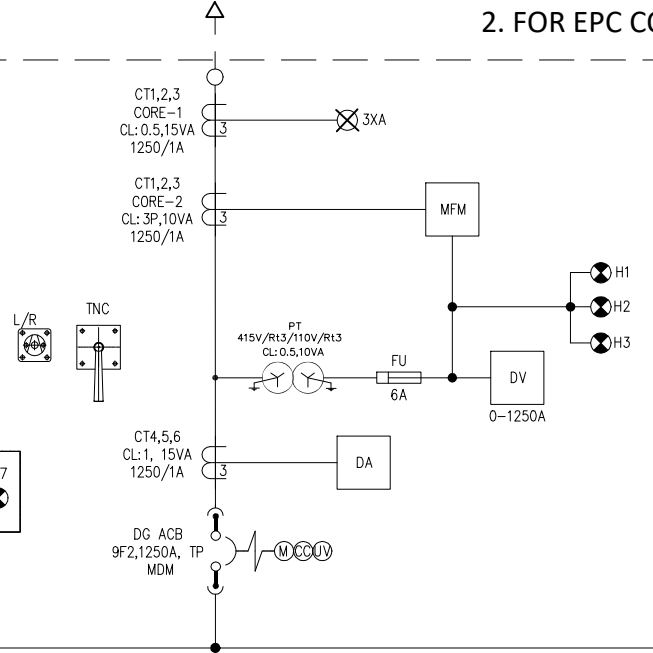
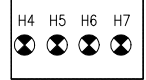
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									CHD	BB	DATE	14.09.2023	
					TITLE		415V AC DISTRIBUTION BOARD			APPD	JR	SHEET NO.	
										DRAWING No.		16	OF 57
PAGE TYPE	SINGLE LINE DIAGRAM (6/13)			GSS-23-24-024ACDB	REV.	R0							

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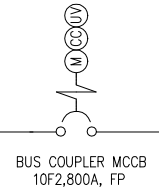
3 PHASE, 4 WIRE, 415V AC SUPPLY
FROM DIESEL GENERATOR THROUGH CABLES

NOTE: 1. DRAWING APPROVAL SUBJECT TO VALID TYPE TEST REPORTS, TO BE CHECKED DURING ACCEPTANCE TESTS
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FEEDER LOCATION	DG INCOMER
FEEDER DESCRIPTION	DG INCOMER
FEEDER RATING/TYPE	1250A/TP ACB
INTERNAL BUSBAR SIZE	2R x 75 x 10MM BUSBAR



FEEDER LOCATION	BUS COUPLER
FEEDER DESCRIPTION	BUS COUPLER
FEEDER RATING/TYPE	800A/TP ACB
INTERNAL BUSBAR SIZE	2R x 50 x 10MM BUSBAR



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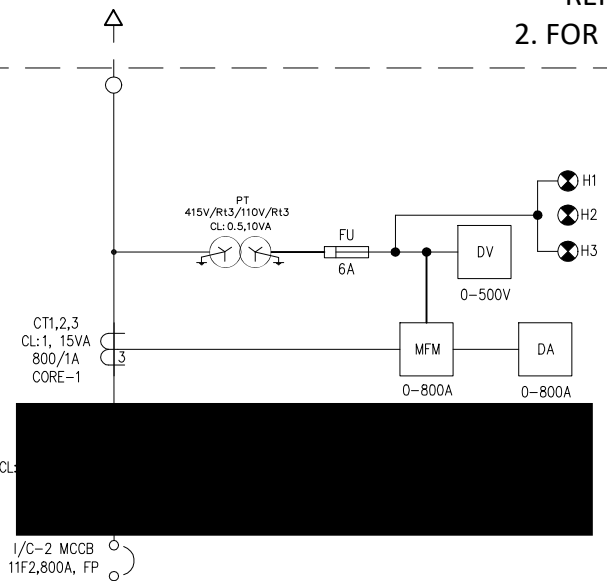
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	PAGE TYPE		APPD	JR	SHEET NO. 17 OF 57	
			DRAWING No. GSS-23-24-024ACDB		REV.	R0

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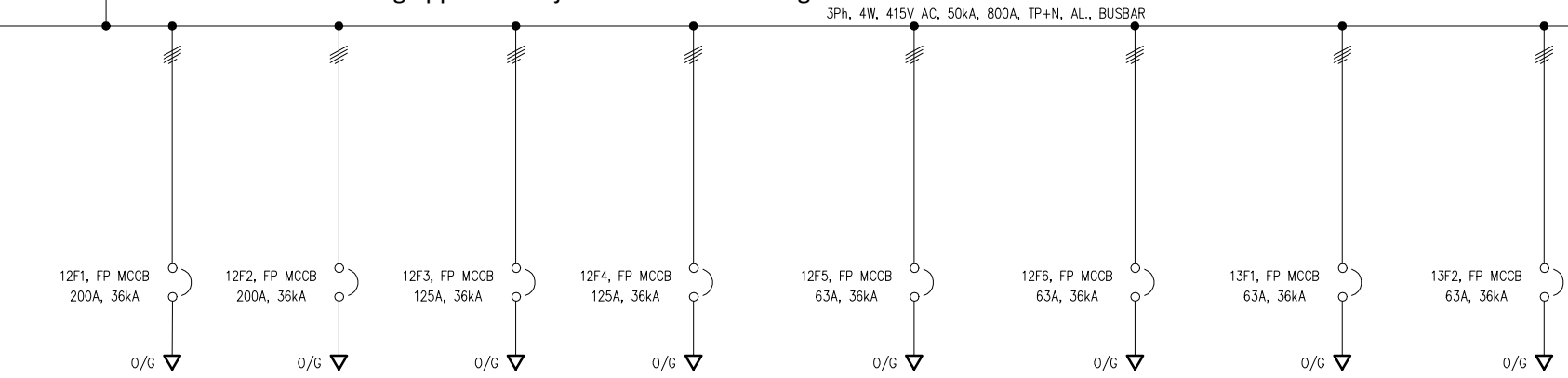
3 PHASE, 4 WIRE, 415V AC SUPPLY
FROM MAIN BOARD THROUGH CABLES

NOTE: 1. DRAWING APPROVAL SUBJECT TO VALID TYPE TEST REPORTS, TO BE CHECKED DURING ACCEPTANCE TESTS
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FEEDER LOCATION	12F1	12F2	12F3	12F4	12F5	12F6	13F1	13F2
FEEDER DESCRIPTION	OUTGOING-1	OUTGOING-2	OUTGOING-3	OUTGOING-4	OUTGOING-5	OUTGOING-6	OUTGOING-7	OUTGOING-8
FEEDER RATING/TYPE	200A/FP MCCB	200A/FP MCCB	125A/FP MCCB	125A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB
INTERNAL BUSBAR SIZE	1RX25x10MM BUSBAR	1RX25x10MM BUSBAR	1RX20x10MM BUSBAR	1RX20x10MM BUSBAR	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE

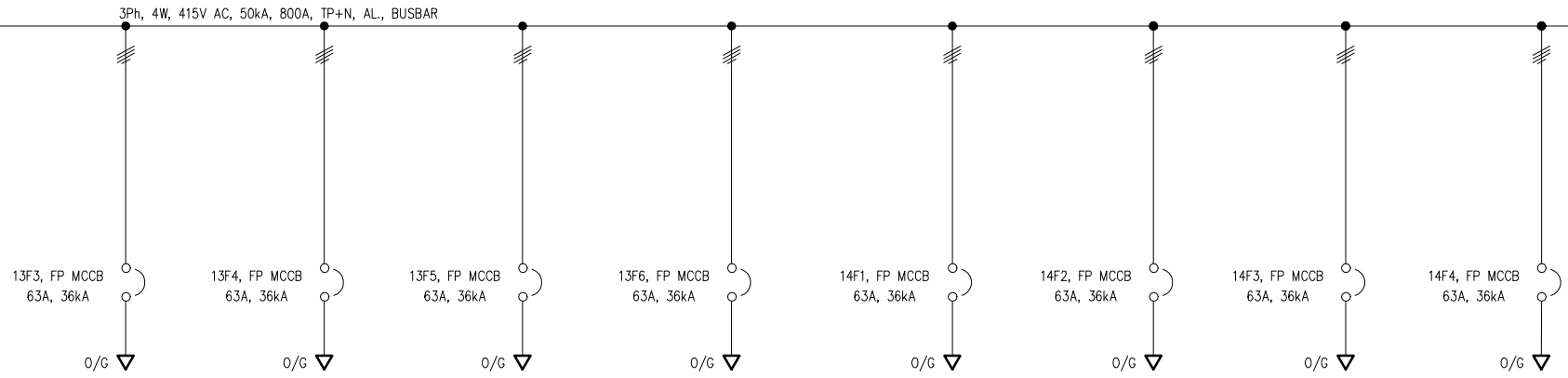
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			DRAWING No.		18	OF 57
PAGE TYPE	SINGLE LINE DIAGRAM (8/13)		GSS-23-24-024ACDB	REV.	R0	

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FEEDER LOCATION	13F3	13F4	13F5	13F6	14F1	14F2	14F3	14F4
FEEDER DESCRIPTION	OUTGOING-9	OUTGOING-10	OUTGOING-11	OUTGOING-12	OUTGOING-13	OUTGOING-14	OUTGOING-15	OUTGOING-16
FEEDER RATING/TYPE	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB
INTERNAL BUSBAR SIZE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE

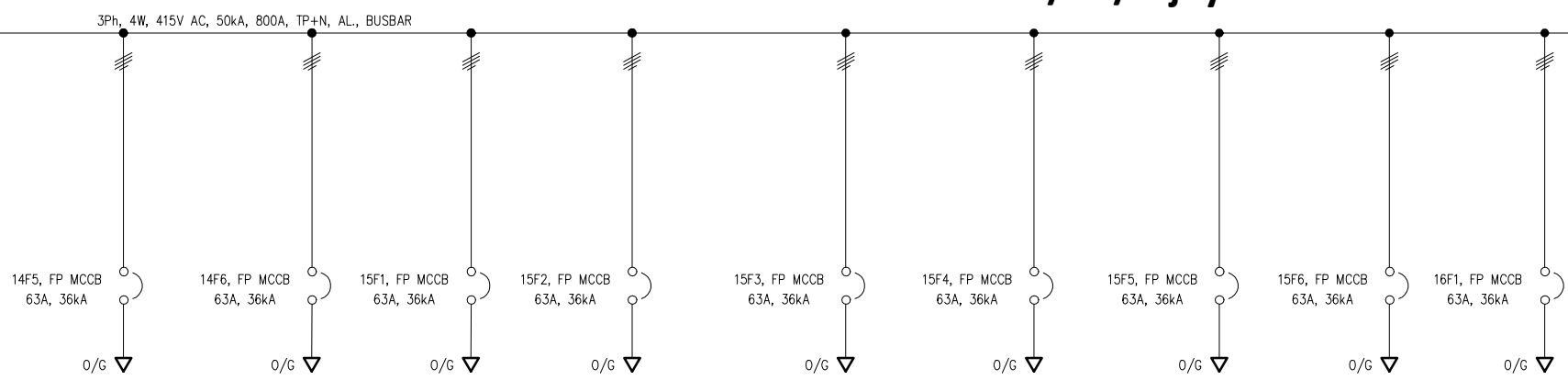
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			DRAWING No.		19	OF 57
PAGE TYPE			GSS-23-24-024ACDB	REV.	R0	

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FEEDER LOCATION	14F5	14F6	15F1	15F2	15F3	15F4	15F5	15F6	16F1
FEEDER DESCRIPTION	OUTGOING-17	OUTGOING-18	OUTGOING-19	OUTGOING-20	OUTGOING-21	OUTGOING-22	OUTGOING-23	OUTGOING-24	OUTGOING-25
FEEDER RATING/TYPE	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB
INTERNAL BUSBAR SIZE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE

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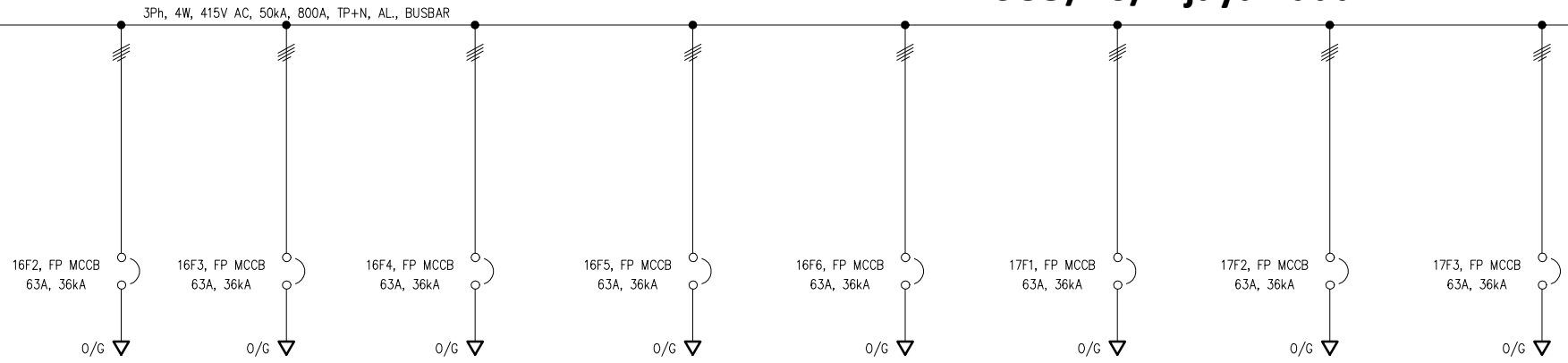
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			DRAWING No.		20	OF 57
PAGE TYPE	SINGLE LINE DIAGRAM (10/13)		GSS-23-24-024ACDB	REV.	R0	

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FEEDER LOCATION	16F2	16F3	16F4	16F5	16F6	17F1	17F2	17F3
FEEDER DESCRIPTION	OUTGOING-26	OUTGOING-27	OUTGOING-28	OUTGOING-29	OUTGOING-30	OUTGOING-31	OUTGOING-32	OUTGOING-33
FEEDER RATING/TYPE	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB
INTERNAL BUSBAR SIZE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE

TITLE	415V AC DISTRIBUTION BOARD		DRN	RC	SCALE	NA
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			DRAWING No.		21	OF 57
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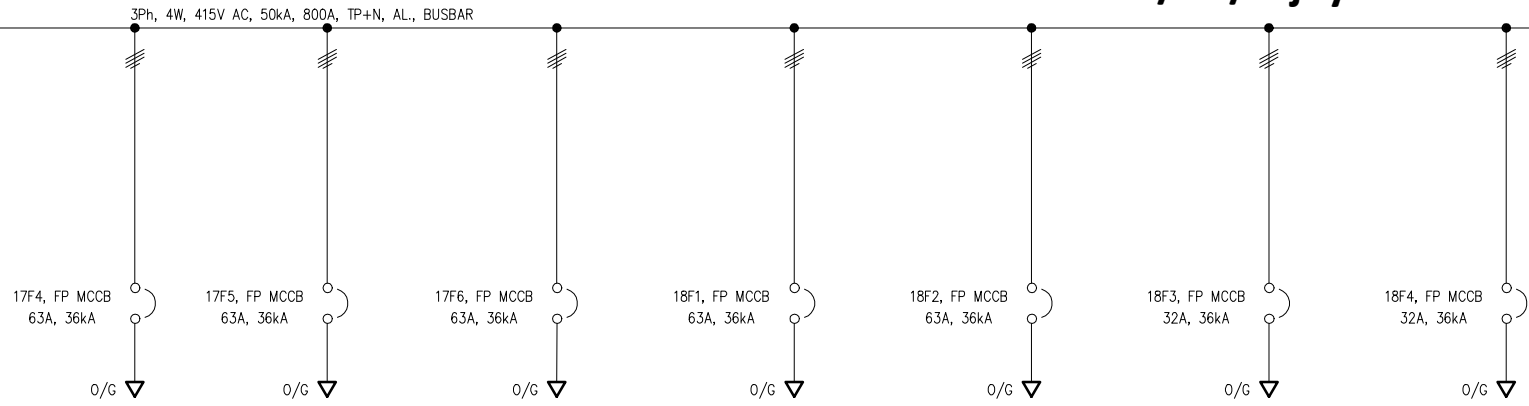
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FEEDER LOCATION	17F4	17F5	17F6	18F1	18F2	18F3	18F4
FEEDER DESCRIPTION	OUTGOING-34	OUTGOING-35	OUTGOING-36	OUTGOING-37	OUTGOING-38	OUTGOING-39	OUTGOING-40
FEEDER RATING/TYPE	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	63A/FP MCCB	32A/FP MCCB	32A/FP MCCB
INTERNAL BUSBAR SIZE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	16 SQ.MM CU. CABLE	10 SQ.MM CU. CABLE	10 SQ.MM CU. CABLE

TITLE	415V AC DISTRIBUTION BOARD		DRN	RC	SCALE	NA
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PAGE TYPE	SINGLE LINE DIAGRAM (12/13)		GSS-23-24-024ACDB	REV.	R0	

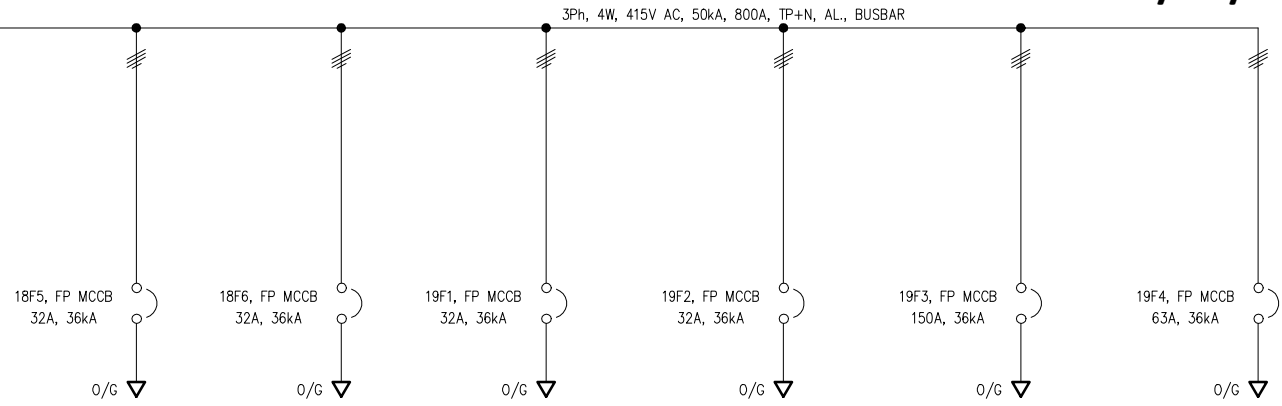
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









FEEDER LOCATION	18F5	18F6	19F1	19F2	19F3	19F4
FEEDER DESCRIPTION	OUTGOING-41	OUTGOING-42	OUTGOING-43	OUTGOING-44	OUTGOING-45	OUTGOING-46
FEEDER RATING/TYPE	32A/FP MCCB	32A/FP MCCB	32A/FP MCCB	32A/FP MCCB	150A/FP MCCB	63A/FP MCCB
INTERNAL BUSBAR SIZE	10 SQ.MM CU. CABLE	10 SQ.MM CU. CABLE	6SQ.MM CU. CABLE	10 SQ.MM CU. CABLE	1RX20x10MM BUSBAR	16 SQ.MM CU. CABLE

	DRN	RC	SCALE	NA
	CHD	BB	DATE	14.09.2023
	APPD	JR	SHEET NO.	
	DRAWING No.		23	OF 57
TITLE	415V AC DISTRIBUTION BOARD		REV.	R0
PAGE TYPE	SINGLE LINE DIAGRAM (13/13)		GSS-23-24-024ACDB	

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SYMBOLS


SYMBOLS	DESCRIPTION
	MINIATURE CIRCUIT BREAKER
	DIGITAL VOLTMETER
	DIGITAL AMMETER
	MULTI-FUNCTION METER
	INDICATION LAMP
	TERMINAL BLOCK
	CURRENT TRANSFORMER
	AIR CIRCUIT BREAKER
	TRIP NEUTRAL CLOSE
	MOLDED CASE CIRCUIT BREAKER

LEGENDS

SYMBOLS	DESCRIPTION
H1	R-PHASE INDICATION LAMP
H2	R-PHASE INDICATION LAMP
H3	R-PHASE INDICATION LAMP
DV	DIGITAL VOLTMETER
DA	DIGITAL AMMETER
MFM	MULTI FUNCTION METER
MCB	MINIATURE CIRCUIT BREAKER
Q	MCCB/MCB/ACB
X	TERMINAL BLOCK
F	CONTROL FUSE
S	SWITCH
SW	SWITCH DISCONNECTOR
TH	THERMOSTAT
SH	SPACE HEATER
H	INDICATION LAMP
59	OVER VOLTAGE RELAY
NL	NEUTRAL LINK

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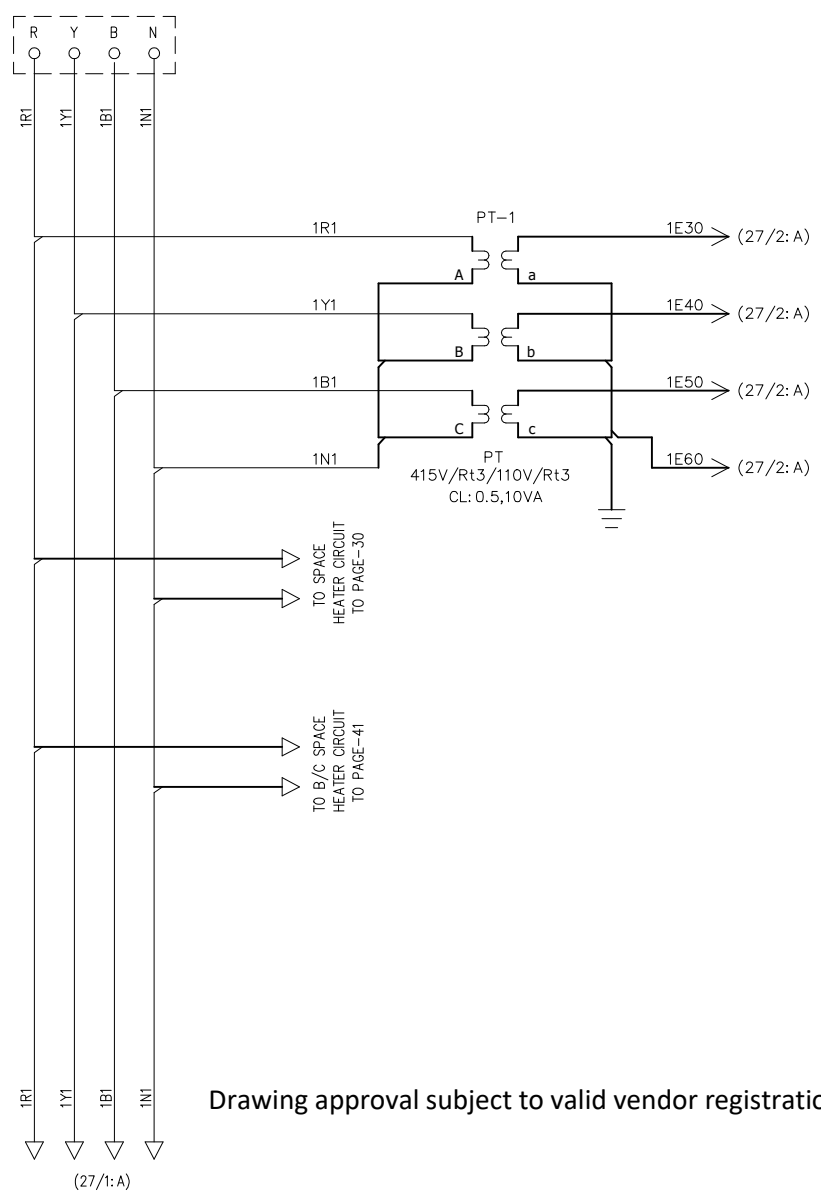
Chief Engineer/Projects
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				 GREEN SECURE ENERGY SYSTEMS, .		DRN	RC	SCALE	NA
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						APPD	JR	SHEET NO.	
						DRAWING No.		25 OF 57	
						GSS-23-24-024ACDB		REV.	R0
				TITLE		415V AC DISTRIBUTION BOARD			
				PAGE TYPE		SYMBOLS & LEGENDS			

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AC INPUT-415V-50Hz-3P-4W
INCOMER-1



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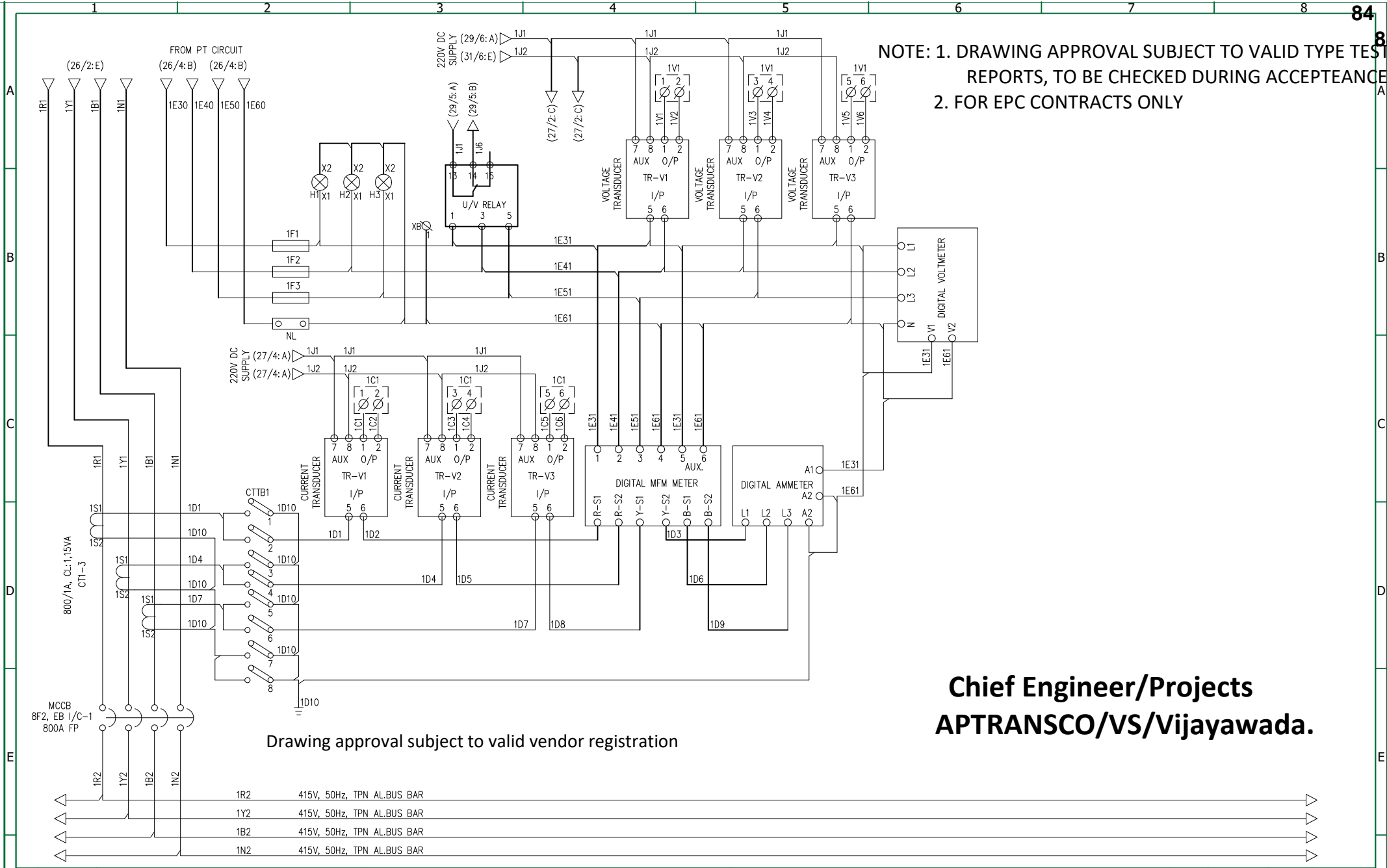
Chief Engineer/Projects
APTRANSCO/VS/Vijayawada.

								DRN	RC	SCALE	NA
								CHD	BB	DATE	14.09.2023
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								DRAWING No. GSS-23-24-024ACDB			
				PAGE TYPE	TYPICAL POWER & CONTROL SCHEMES INCOMER-1				REV.	R0	

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- 1R2 415V, 50Hz, TPN AL.BUS BAR
- 1Y2 415V, 50Hz, TPN AL.BUS BAR
- 1B2 415V, 50Hz, TPN AL.BUS BAR
- 1N2 415V, 50Hz, TPN AL.BUS BAR

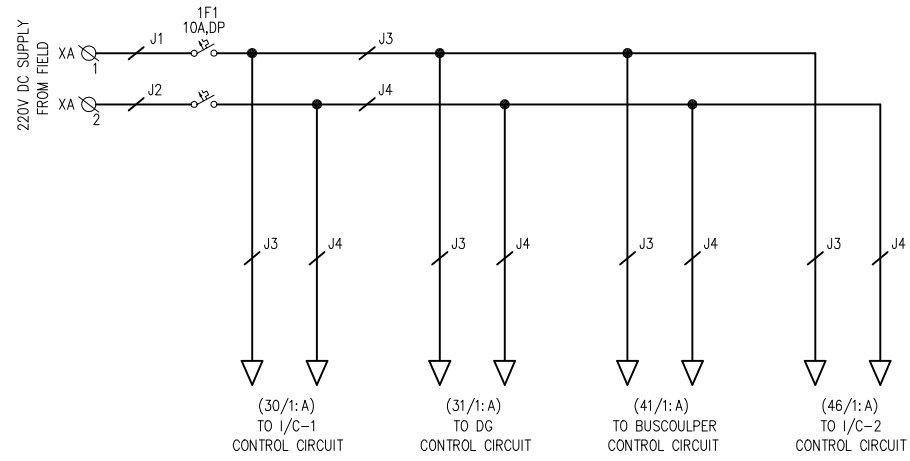
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TITLE	415V AC DISTRIBUTION BOARD		DRN	RC	SCALE	NA
	TYPICAL POWER & CONTROL SCHEMES INCOMER-1		CHD	BB	DATE	14.09.2023
			APPD	JR	SHEET NO. 27 OF 57	
			DRAWING No. GSS-23-24-024ACDB		REV.	R0

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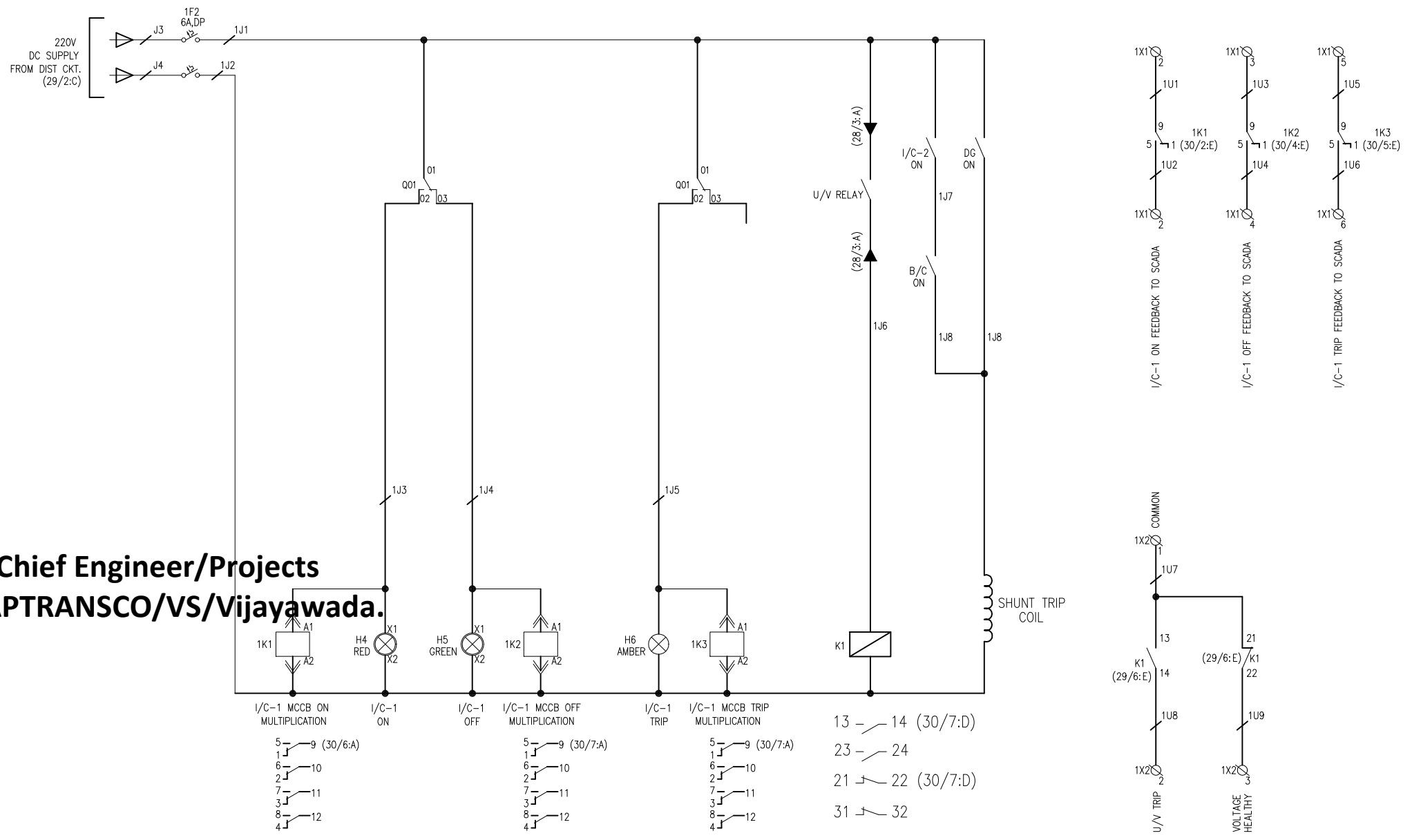
Drawing approval subject to valid vendor registration

						DRN	RC	SCALE	NA
						CHD	BB	DATE	14.09.2023
				TITLE 415V AC DISTRIBUTION BOARD		APPD	JR	SHEET NO.	
						DRAWING No.		29	OF 57
				PAGE TYPE		DC DISTRIBUTION CIRCUIT		GSS-23-24-024ACDB	REV. R0

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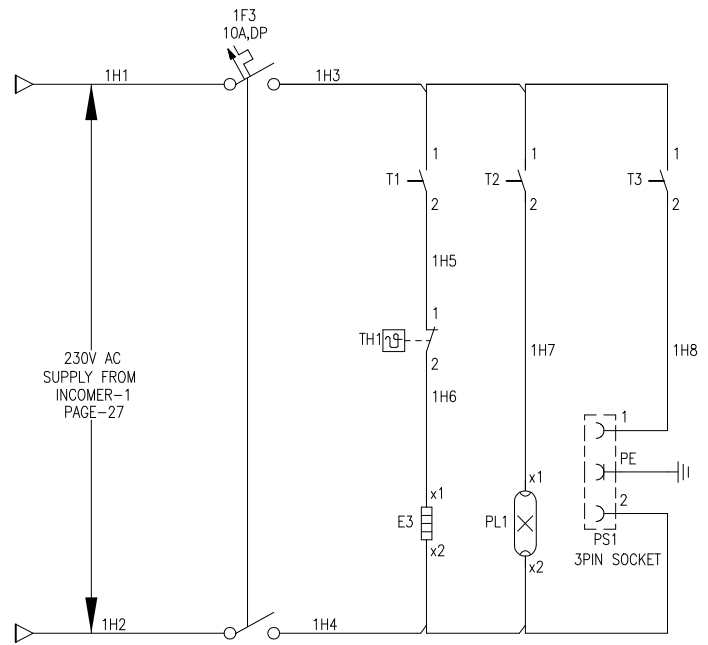


Drawing approval subject to valid vendor registration

TITLE	415V AC DISTRIBUTION BOARD		DRN	RC	SCALE	NA
	INCOMER-1 CONTROL CIRCUIT		CHD	BB	DATE	14.09.2023
PAGE TYPE			APPD	JR	SHEET NO. 30 OF 57	
			DRAWING No. GSS-23-24-024ACDB		REV.	R0

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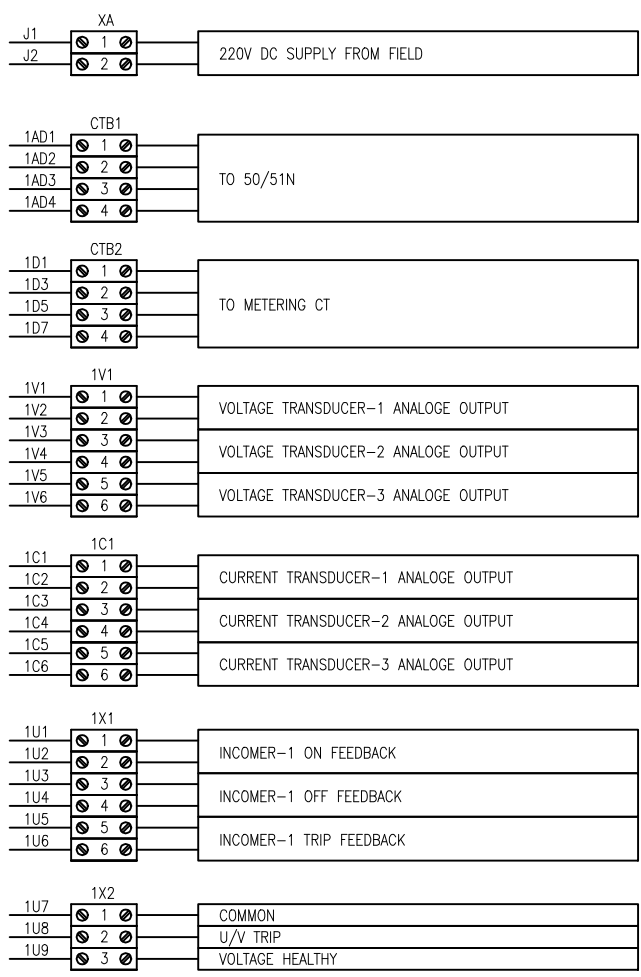
Drawing approval subject to valid vendor registration

						DRN	RC	SCALE	NA
						CHD	BB	DATE	14.09.2023
				TITLE 415V AC DISTRIBUTION BOARD		APPD	JR	SHEET NO.	
						DRAWING No.		31 OF 57	
				PAGE TYPE		INCOMER-1 SPACE HEATER CIRCUIT		GSS-23-24-024ACDB	REV. R0

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TERMINAL DIAGRAM



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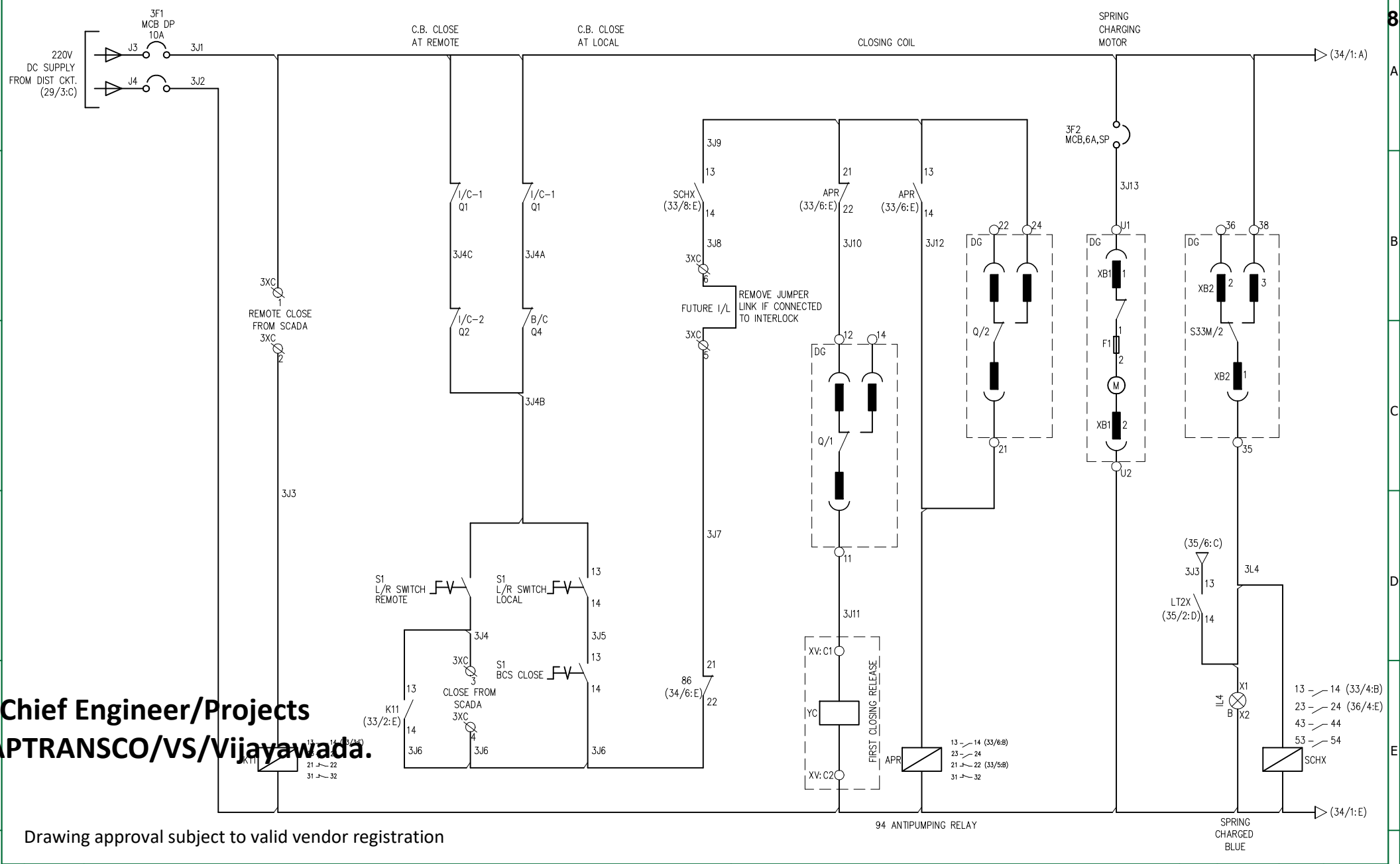
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				TITLE: 415V AC DISTRIBUTION BOARD				APPD	JR	SHEET NO.	
								DRAWING No.		32 OF 57	
				PAGE TYPE	INCOMER-1 TERMINAL BLOCK DETAILS				GSS-23-24-024ACDB	REV.	R0

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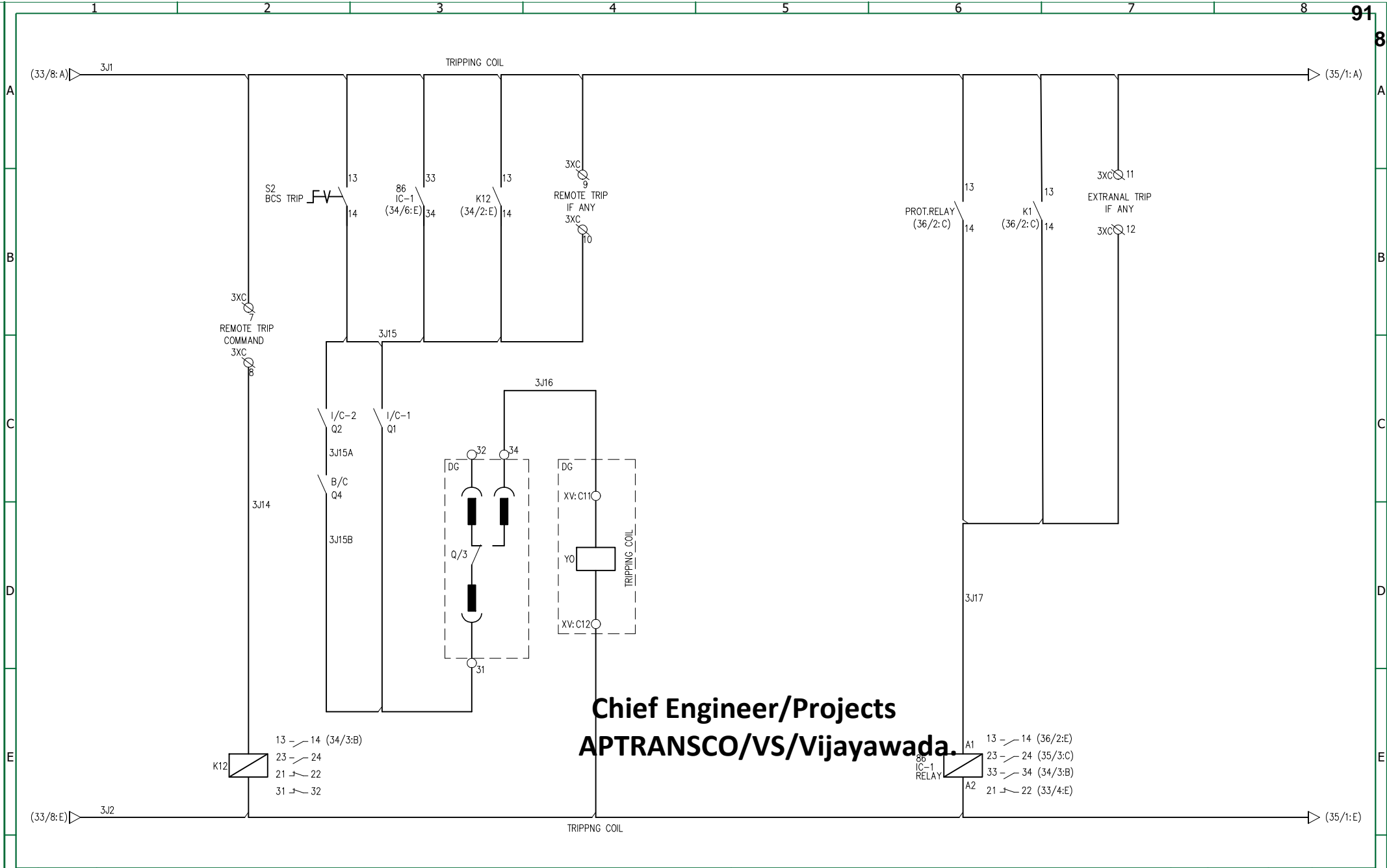
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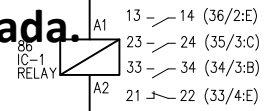
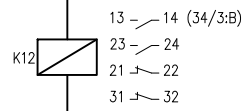
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	DG CLOSING CIRCUIT		CHD	BB	DATE	14.09.2023
	PAGE TYPE		APPD	JR	SHEET NO. 33 OF 57	
			DRAWING No. GSS-23-24-024ACDB		REV.	R0

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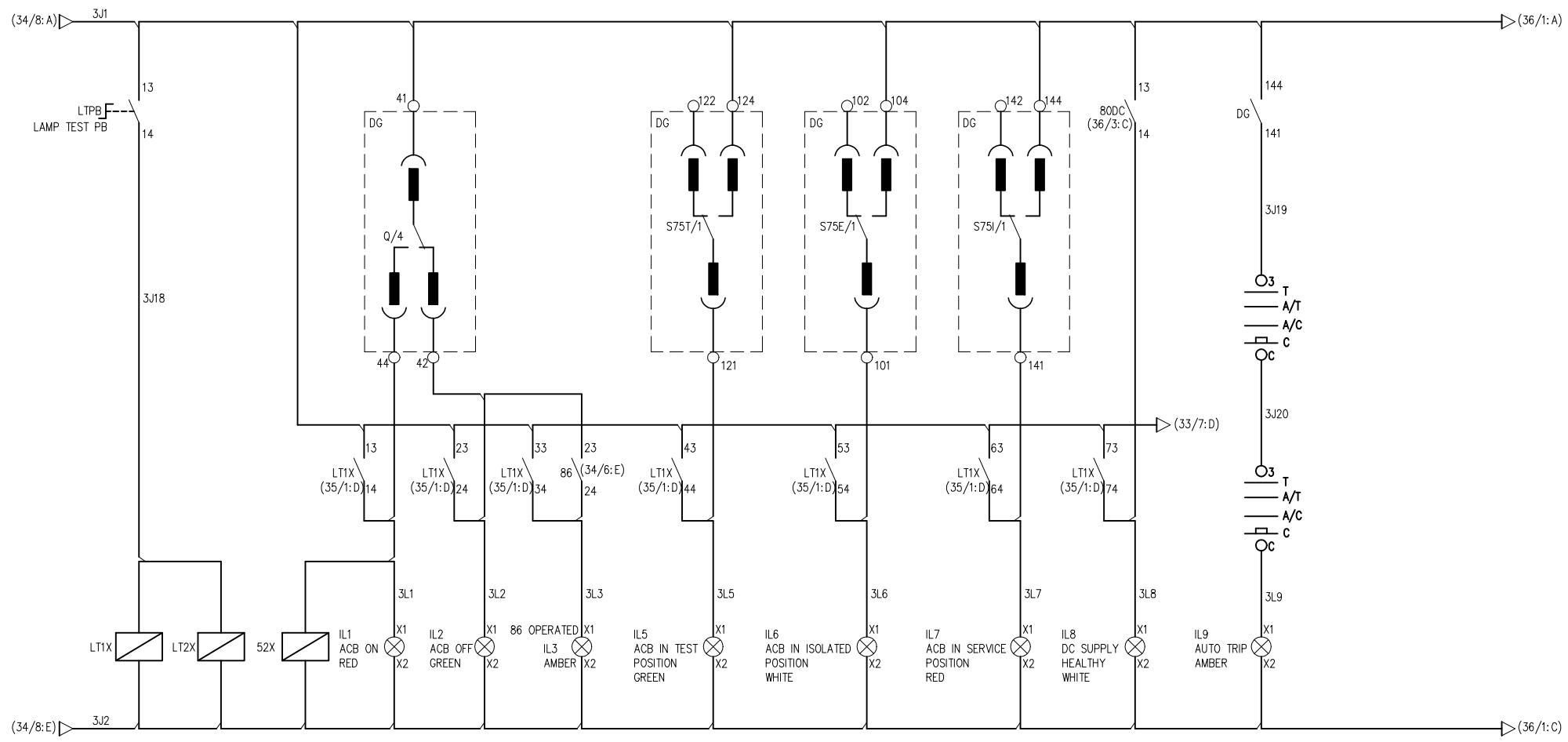
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TITLE PAGE TYPE 415V AC DISTRIBUTION BOARD DG TRIPPING CIRCUIT	GREEN SECURE ENERGY SYSTEMS, .		DRN	RC	SCALE	NA
			CHD	BB	DATE	14.09.2023
			APPD	JR	SHEET NO.	
			DRAWING No.		34 OF 57	
		GSS-23-24-024ACDB		REV.	R0	

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- 13 - 14 (35/2:C) 13 - 14 (33/7:D) 13 - 14 (36/7:E)
- 23 - 24 (35/3:C) 23 - 24 (36/2:E)
- 33 - 34 (35/3:C) 33 - 34 (21 - 22 (36/7:E)
- 43 - 44 (35/4:C) 21 - 22
- 53 - 54 (35/5:C) 31 - 32 (36/2:E)
- 63 - 64 (35/5:C) 33 - 34 (28/8:A)
- 73 - 74 (35/6:C) 41 - 42 (28/8:A)
- 83 - 84

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				GREEN SECURE ENERGY SYSTEMS, .		DRN	RC	SCALE	NA
				415V AC DISTRIBUTION BOARD		CHD	BB	DATE	14.09.2023
				DG INDICATION CKT & SPARE CONTACT		APPD	JR	SHEET NO.	
						DRAWING No.		35 OF 57	
						GSS-23-24-024ACDB		REV.	R0

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TERMINAL DIAGRAM


3XP		
3XP1	1	COMMAN (DG)
3XP2	2	ACB ON FEEDBACK TO SCADA (DG)
3XP3	3	ACB OFF FEEDBACK TO SCADA (DG)
3XP4	4	ACB TRIP FEEDBACK TO SCADA (DG)
3XP5	5	REMOTE SELECTED FEEDBACK TO SCADA (DG)
3XP6	6	U/V TRIP FEEDBACK TO SCADA (DG)
3XP7	7	VOLTAGE HEALTHY FEEDBACK TO SCADA (DG)
3XP8	8	SPRING CHARGE FEEDBACK TO SCADA (DG)
3XP9	9	DC HEALTHY FEEDBACK TO SCADA (DG)
3XP10	10	DC SUPPLY UNHEALTHY FEEDBACK TO SCADA (DG)

3XE		
3XE1	1	ON FEEDBACK FOR BUSCOUPLER (DG)
3XE2	2	
3XE3	3	OFF FEEDBACK FOR BUSCOUPLER (DG)
3XE4	4	
3XE5	5	
3XE6	6	ON FEEDBACK FOR INCOMER-2 (DG)
3XE7	7	
3XE8	8	OFF FEEDBACK FOR INCOMER-2 (DG)
3XE9	9	
3XE10	10	ON FEEDBACK FOR SPARE (DG)
3XE11	11	
3XE12	12	OFF FEEDBACK FOR SPARE (DG)

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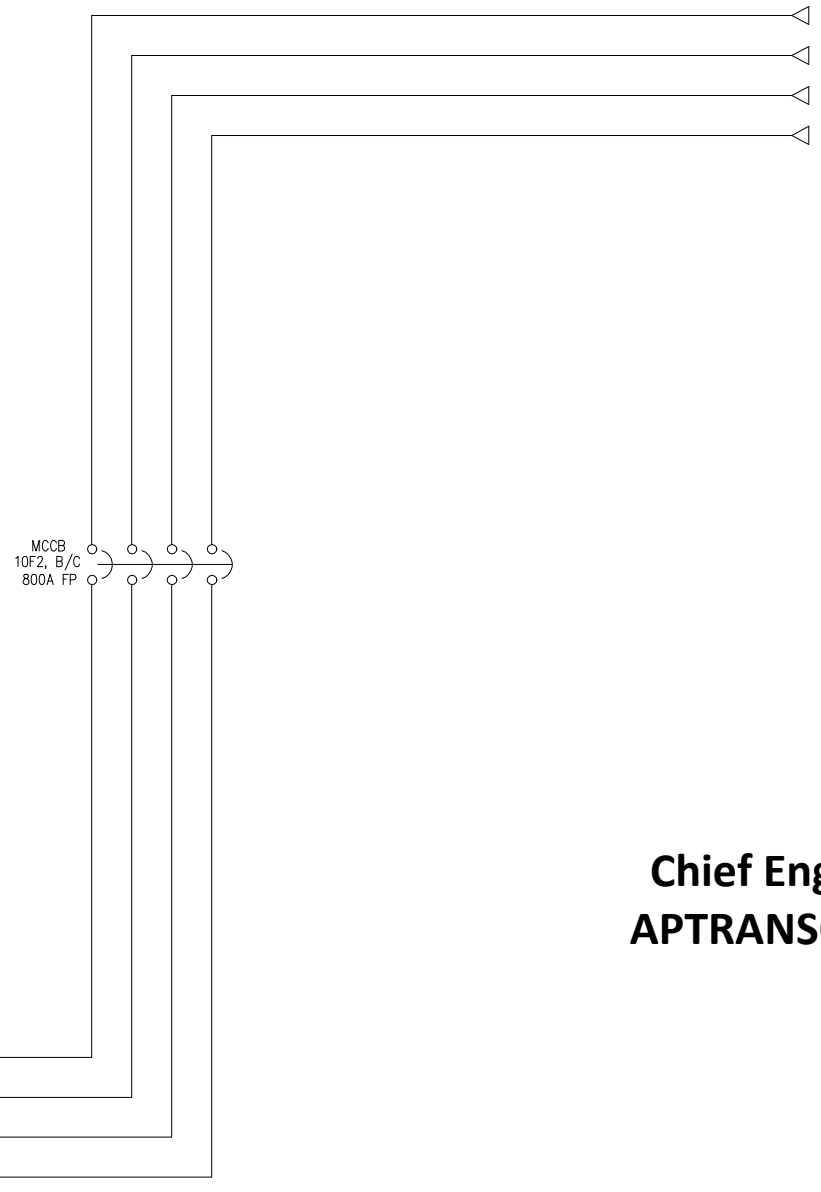
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				 GREEN SECURE ENERGY SYSTEMS, .		DRN	RC	SCALE	NA
						CHD	BB	DATE	14.09.2023
				TITLE	415V AC DISTRIBUTION BOARD			SHEET NO.	
					PAGE TYPE	DG TERMINAL BLOCK DETAILS			39 OF 57
							DRAWING No.	REV.	R0
							GSS-23-24-024ACDB		

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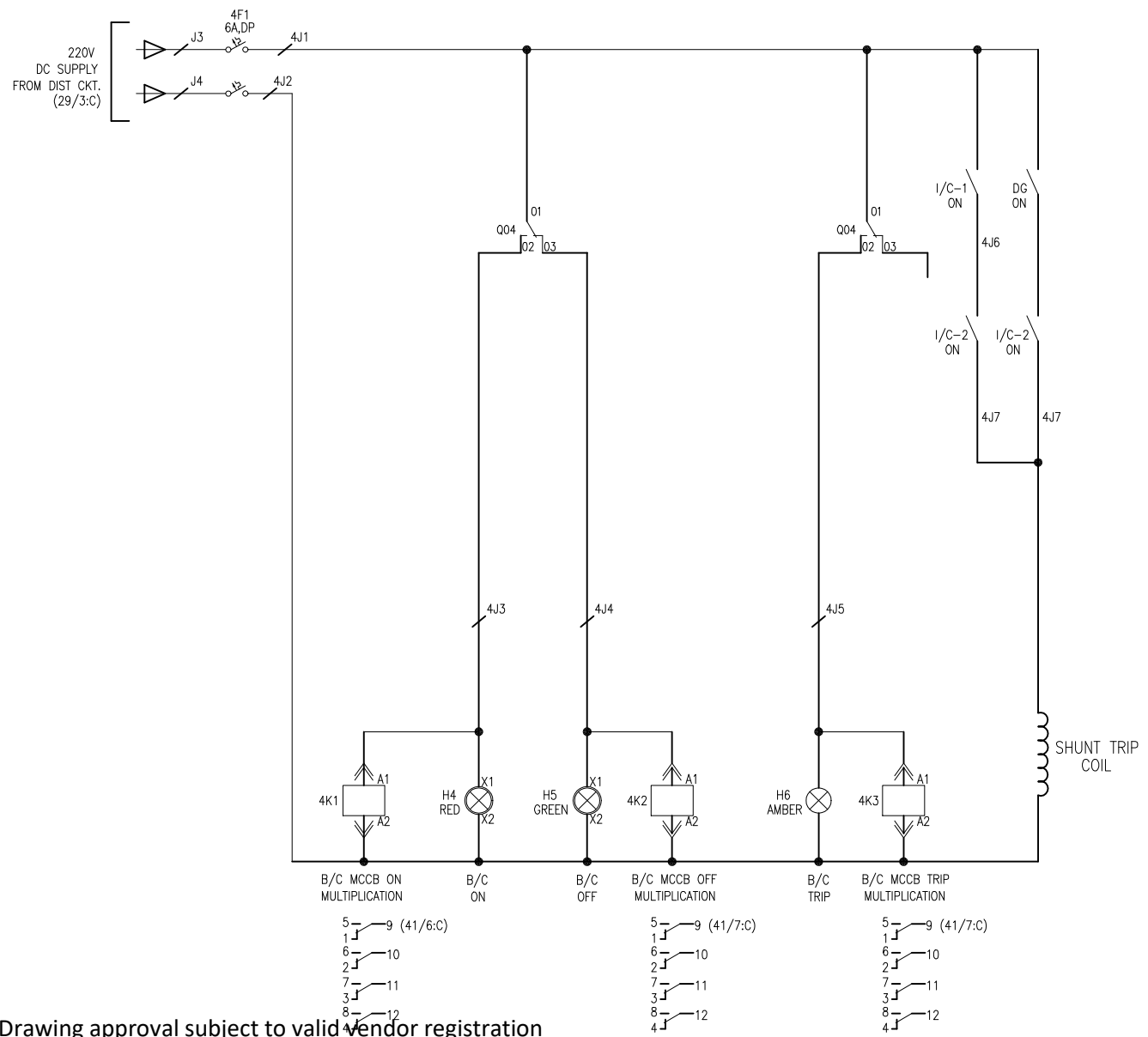


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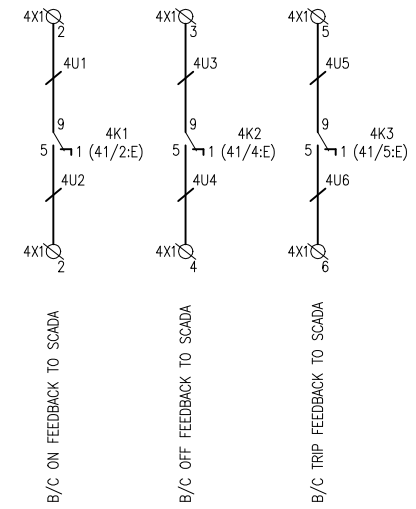
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				TITLE 415V AC DISTRIBUTION BOARD				APPD	JR	SHEET NO.	
								DRAWING No.		40	OF 57
				PAGE TYPE TYPICAL POWER & CONTROL SCHEMES B/C				GSS-23-24-024ACDB	REV.	R0	

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.

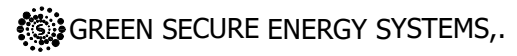
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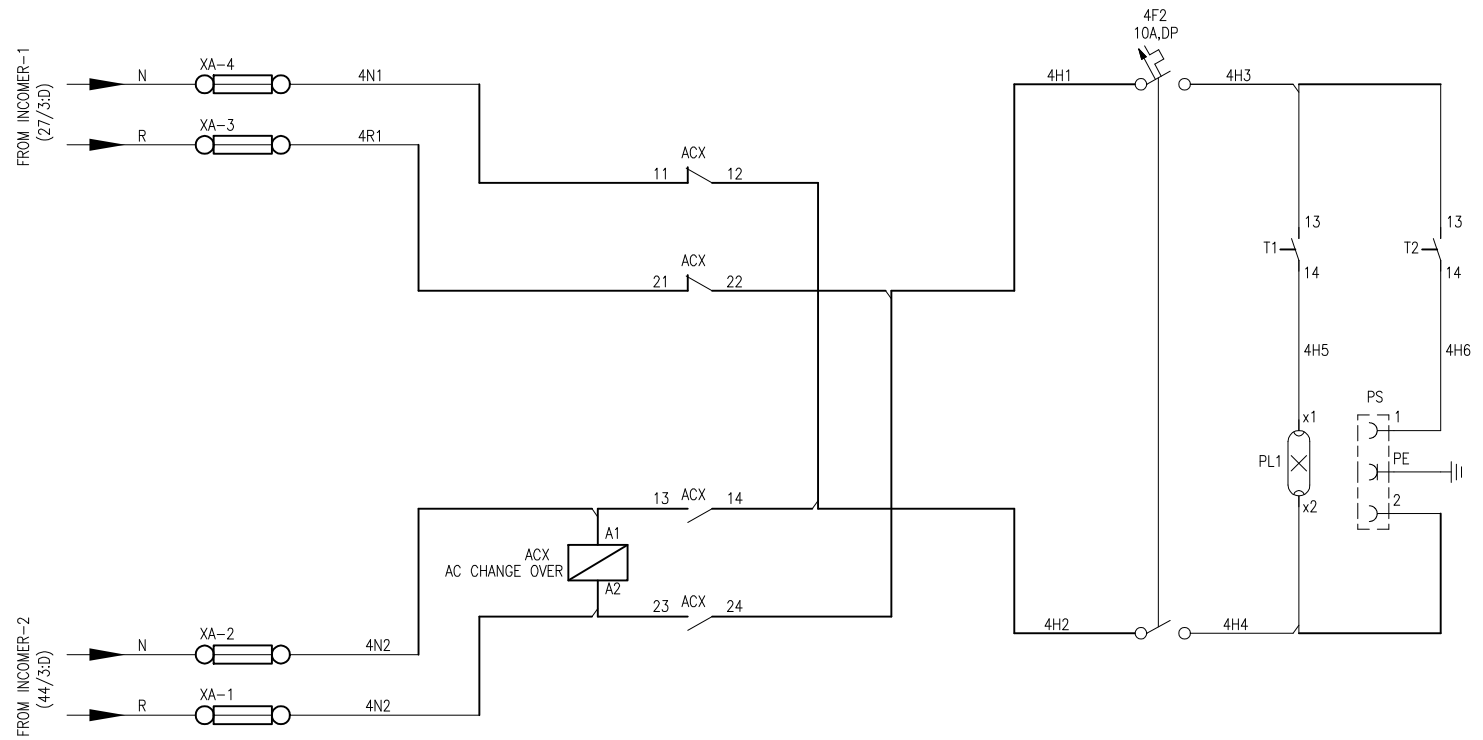
Drawing approval subject to valid vendor registration



TITLE	415V AC DISTRIBUTION BOARD		DRN	RC	SCALE	NA
	BUS COUPLER CONTROL CIRCUIT		CHD	BB	DATE	14.09.2023
	PAGE TYPE		APPD	JR	SHEET NO. 41 OF 57	
			DRAWING No. GSS-23-24-024ACDB		REV.	R0

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TITLE	415V AC DISTRIBUTION BOARD		DRN	RC	SCALE	NA
	PAGE TYPE	BUS COUPLER SPACE HEATER CIRCUIT	CHD	BB	DATE	14.09.2023
		DRAWING No.	APPD	JR	SHEET NO.	
		GSS-23-24-024ACDB			42	OF 57
			REV.	R0		

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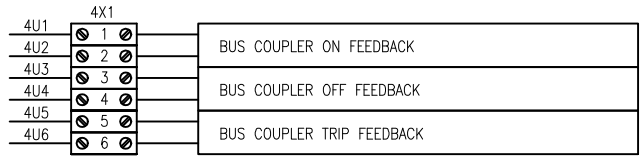
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TERMINAL DIAGRAM

100

380

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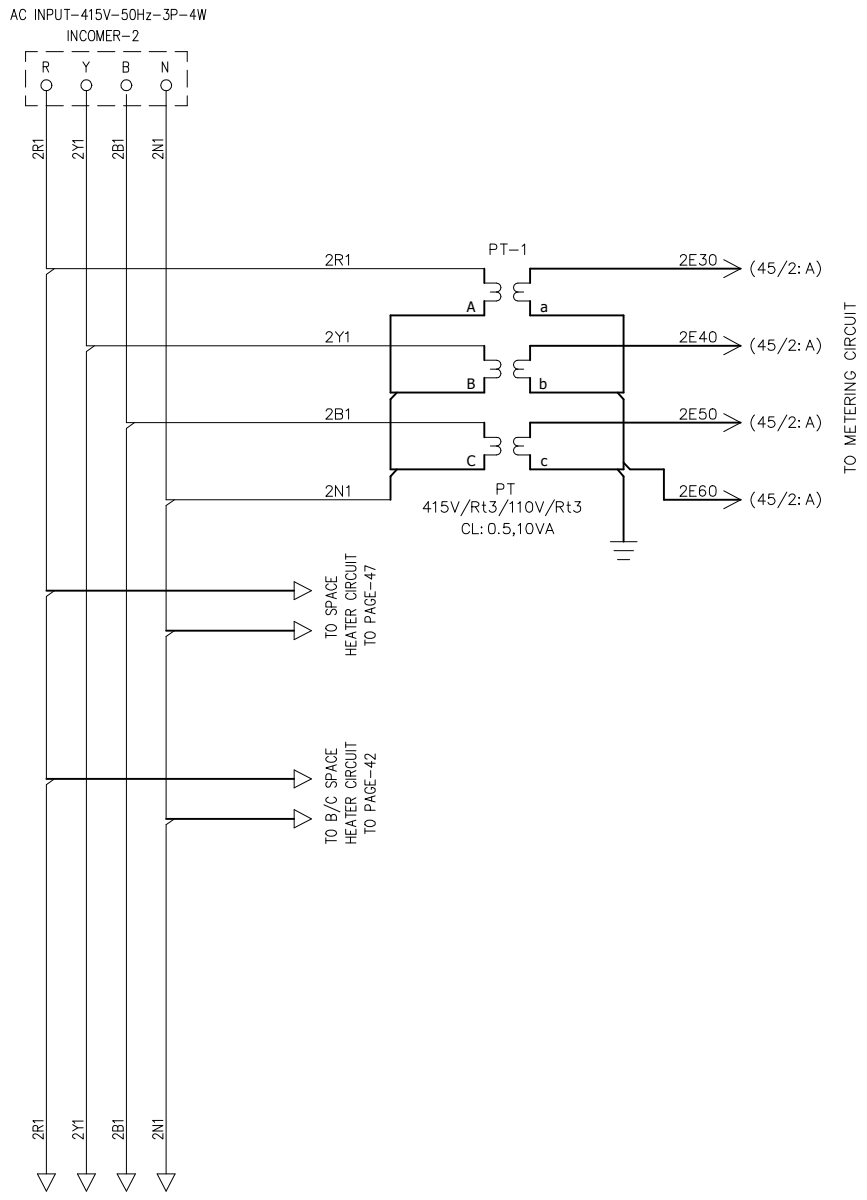
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						CHD	BB	DATE	14.09.2023
				TITLE 415V AC DISTRIBUTION BOARD		APPD	JR	SHEET NO.	
						DRAWING No.		43	OF
				PAGE TYPE		BUS COUPLER TERMINAL BLOCK DETAILS		GSS-23-24-024ACDB	REV. R0

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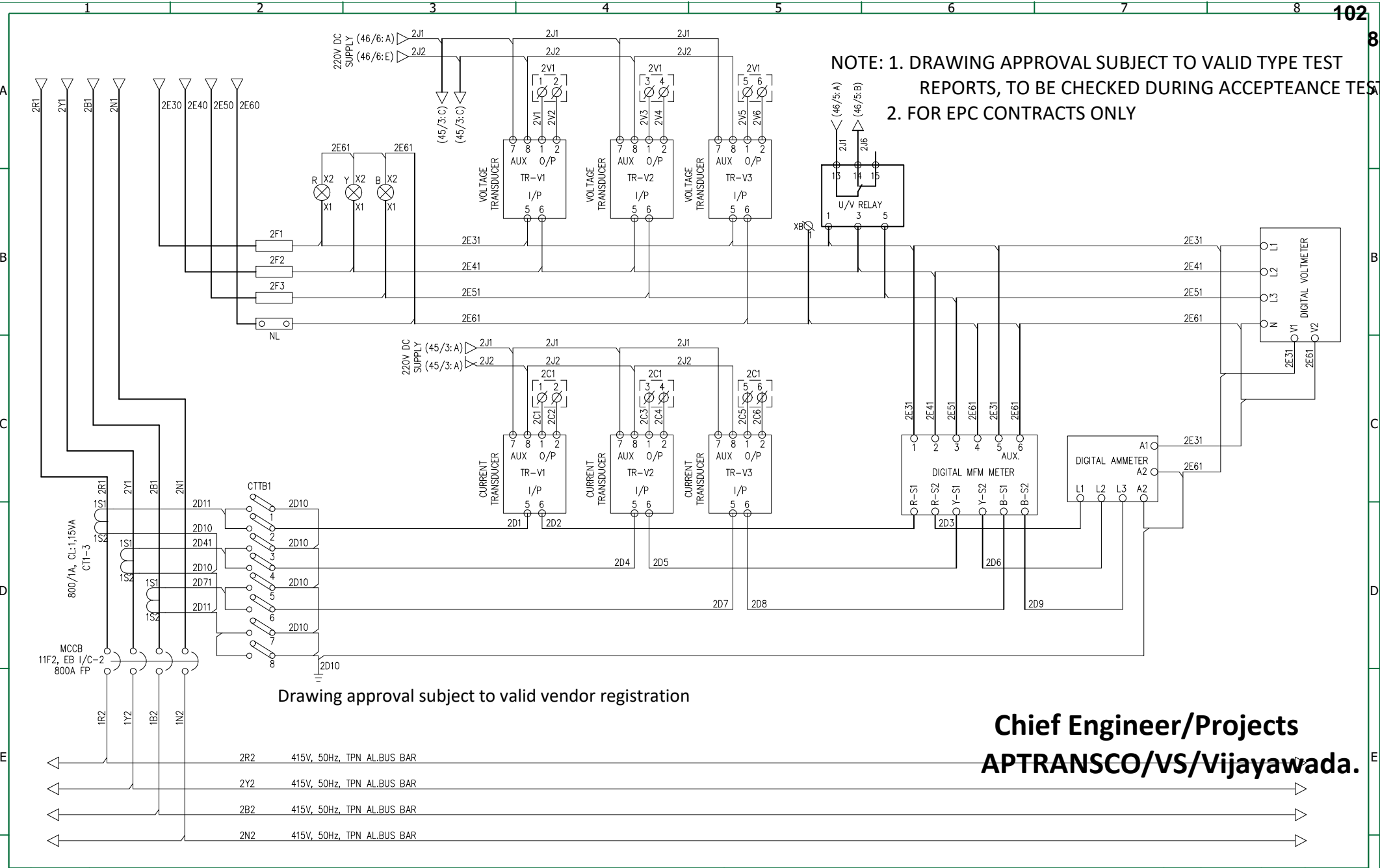


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TITLE	PAGE TYPE		TYPICAL POWER & CONTROL SCHEMES INCOMER-2			DRN	RC	SCALE	NA
						CHD	BB	DATE	14.09.2023
						APPD	JR	SHEET NO.	
						DRAWING No.		44 OF 57	
				GSS-23-24-024ACDB		REV.	R0		

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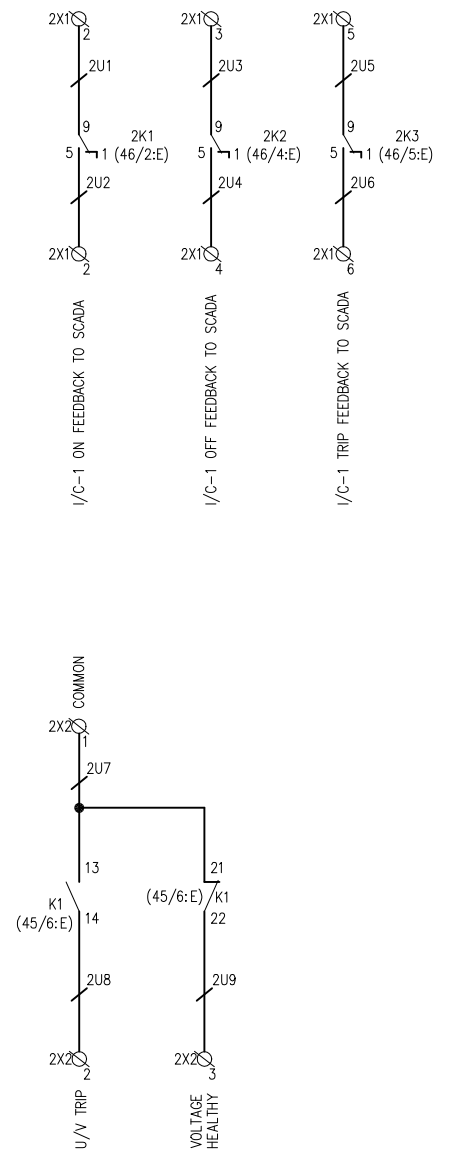
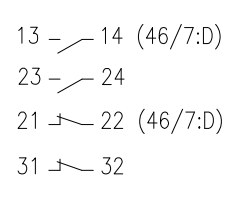
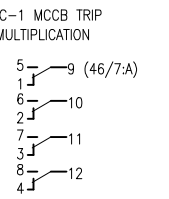
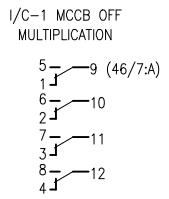
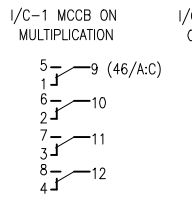
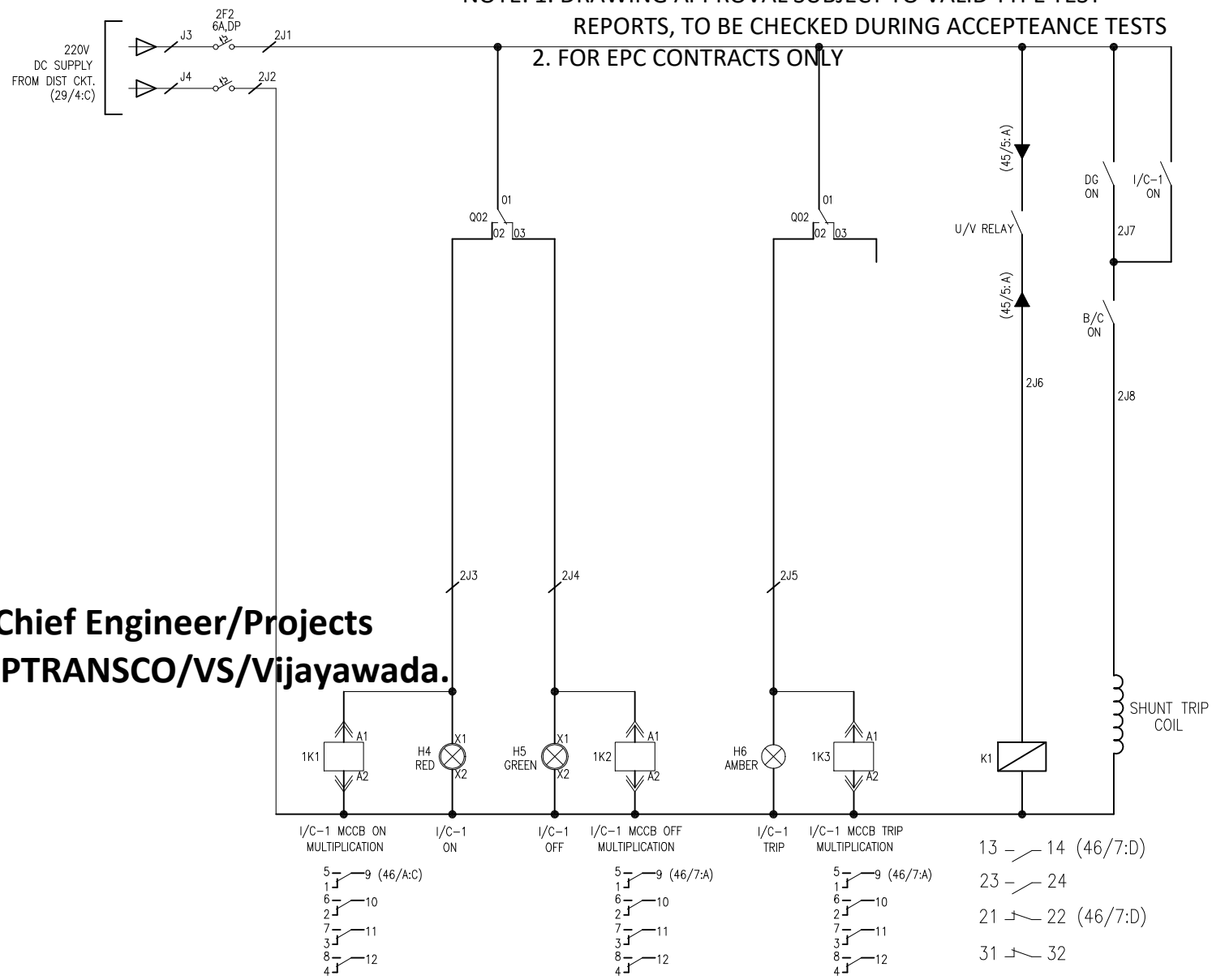
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	TYPICAL POWER & CONTROL SCHEMES INCOMER-2			CHD	BB	DATE	14.09.2023
				APPD	JR	SHEET NO.	
				DRAWING No.		45	OF 57
				REV.	R0		

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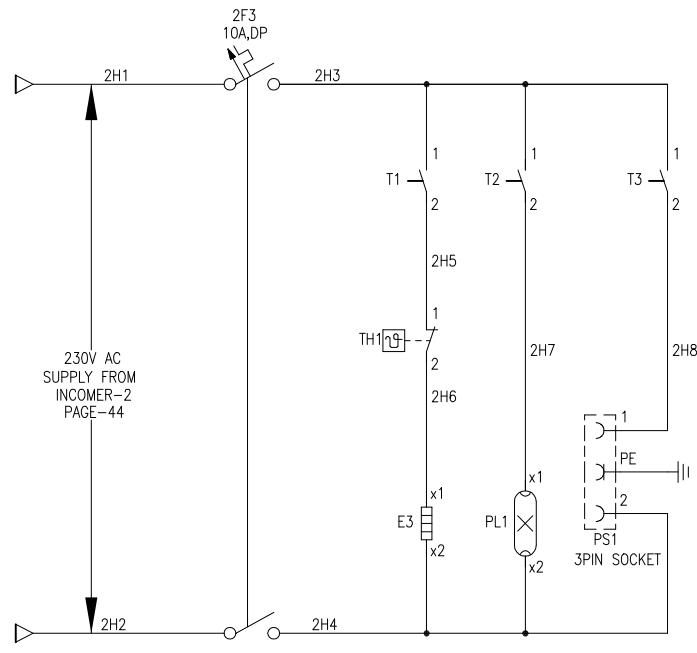


GREEN SECURE ENERGY SYSTEMS, .

TITLE	415V AC DISTRIBUTION BOARD		DRN	RC	SCALE	NA
	PAGE TYPE	INCOMER-2 CONTROL CIRCUIT	CHD	BB	DATE	14.09.2023
			APPD	JR	SHEET NO.	
			DRAWING No.		46 OF 57	
			GSS-23-24-024ACDB	REV.	R0	

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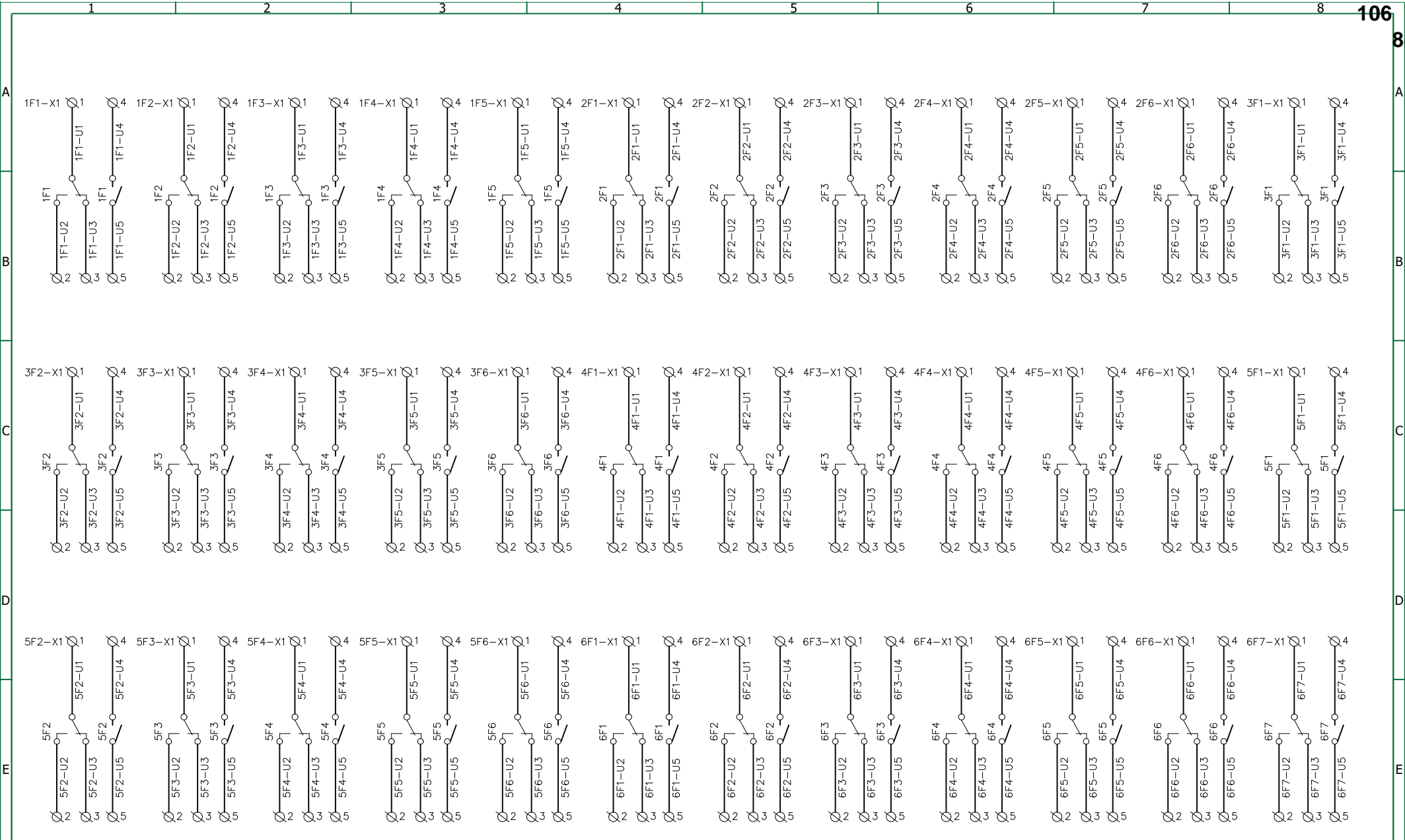
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						DRN	RC	SCALE	NA	
						CHD	BB	DATE	14.09.2023	
				TITLE 415V AC DISTRIBUTION BOARD		APPD	JR	SHEET NO.		
						DRAWING No.		47 OF 57		
				PAGE TYPE		INCOMER-2 SPACE HEATER CIRCUIT		GSS-23-24-024ACDB	REV.	R0

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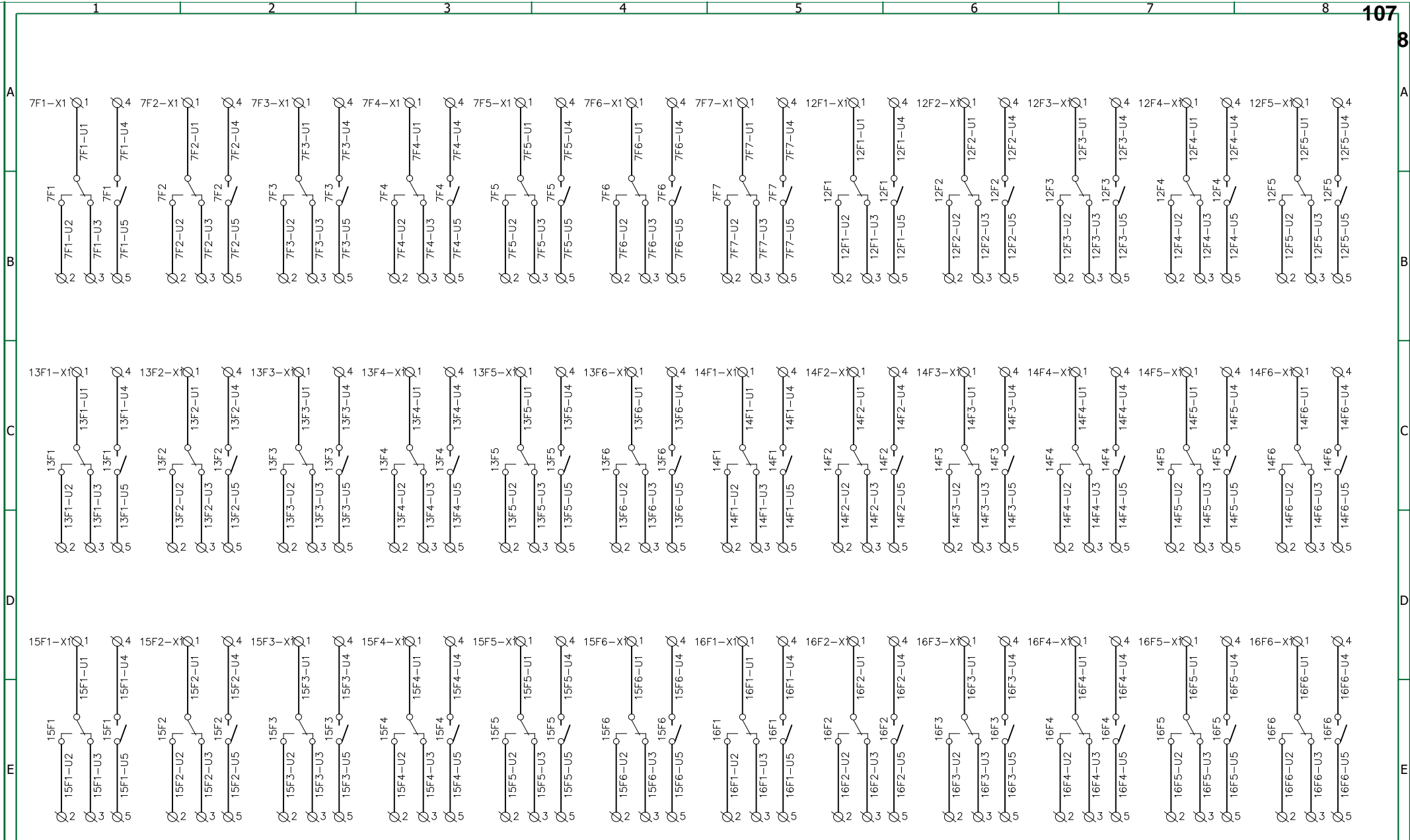
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DRN	RC	SCALE	NA
CHD	BB	DATE	14.09.2023
APPD	JR	SHEET NO.	
DRAWING No.		49	OF 57
GSS-23-24-024ACDB		REV.	R0

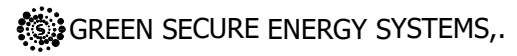
TITLE	415V AC DISTRIBUTION BOARD	
PAGE TYPE	POTENTIAL FREE CONTACTS (1/3)	

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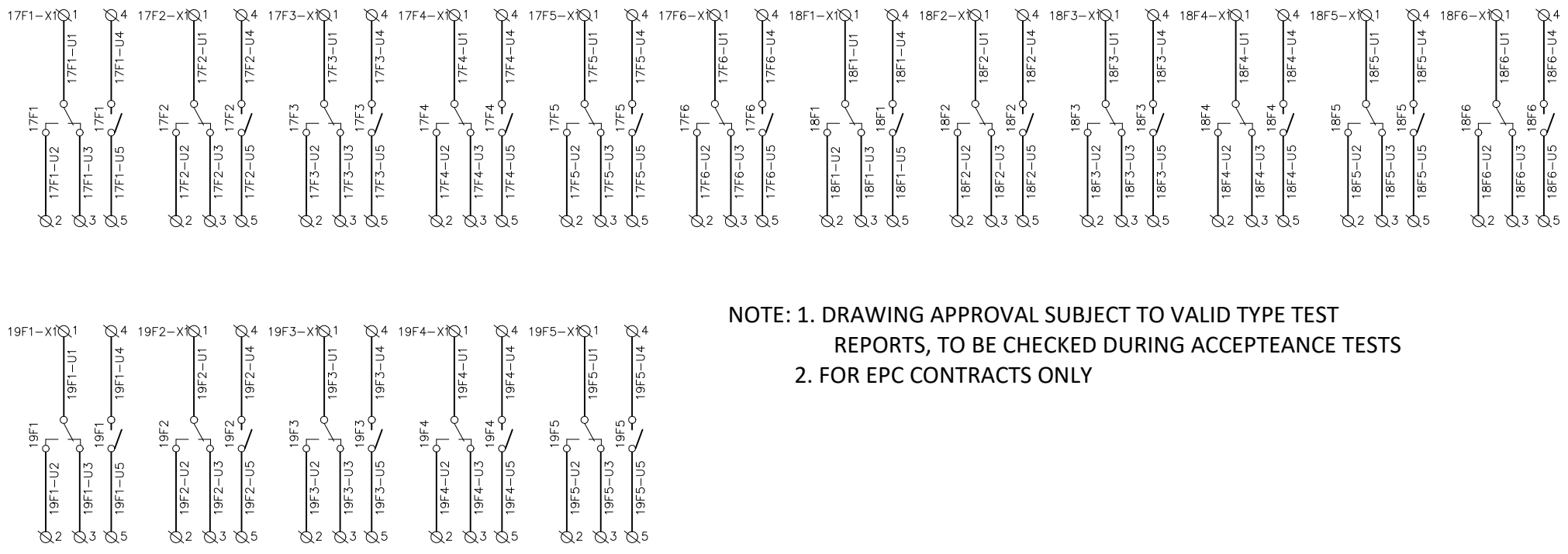
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DRN	RC	SCALE	NA
CHD	BB	DATE	14.09.2023
APPD	JR	SHEET NO.	
DRAWING No.		50	OF 57
GSS-23-24-024ACDB		REV.	R0

TITLE	415V AC DISTRIBUTION BOARD	
PAGE TYPE	POTENTIAL FREE CONTACTS (2/3)	

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							DRN	RC	SCALE	NA
							CHD	BB	DATE	14.09.2023
					TITLE 415V AC DISTRIBUTION BOARD		APPD	JR	SHEET NO.	
							DRAWING No.		51	OF 57
					PAGE TYPE	POTENCIAL FREE CONTACTS (3/3)		GSS-23-24-024ACDB	REV.	R0

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BILL OF MATERIALS

SL.NO.	DEVICE TAG NO	ITEM DESCRIPTION	MAKE	UNIT	UNIT
INCOMER-1					
1	8F2	Molded Case Circuit Breaker FP, 800A, 50KA, MP BASED (OL/SC) With Rotary Handle,Mechanical Interlock Auxiliary Contact, Trip Contact & 220V DC Shunt Trip Coil	C&S/L&T/ABB	NOS	1
2	H1	Indications Lamps. 110V AC Cluster Type LED only Size: 22.5 mm, RED Colour (R-PHASE)	C&S/L&T/ABB	NOS	1
3	H2	Indications Lamps. 110V AC Cluster Type LED only Size: 22.5 mm, YELLOW Colour (Y-PHASE)	C&S/L&T/ABB	NOS	1
4	H3	Indications Lamps. 110V AC Cluster Type LED only Size: 22.5 mm, BLUE Colour (B-PHASE)	C&S/L&T/ABB	NOS	1
5	DV	3 Phase Digital Voltmeter 0-500V AC, AUX SUPPLY: 110V AC	Rishabh/Elmeasure/secure	NOS	1
6	DA	3 Phase Digital Ammeter 0-800A, AUX SUPPLY: 110V AC	Rishabh/Elmeasure/secure	NOS	1
7	TR-V1	Voltage transducer 57-500VAC/4-20mA11/P10/P60-300VAC/DC	Rishabh/Elmeasure/secure	NOS	1
8	TR-V2	Voltage transducer 57-500VAC/4-20mA11/P10/P60-300VAC/DC	Rishabh/Elmeasure/secure	NOS	1
9	TR-V3	Voltage transducer 57-500VAC/4-20mA11/P10/P60-300VAC/DC	Rishabh/Elmeasure/secure	NOS	1
10	CTTB1	CT Terminal blocks 6 Sq.mm	Connectwell/Elmex	NOS	4
11	1F1-1F3	Fuse base-20A-550VAC WITH HRC FUSE-6A-415V AC	Bussman	NOS	13
12	NL	Disconnecting type neutral link-15A	Std/Reputed	NOS	1
13	CT1-3	Current transformer 800/1A, CORE-1: CL:1,15VA, Resin cast	Kalpa/Instrans	NOS	3
14	1F1	Miniature circuit breaker DP 10A 6KA, 220V DC, 'C' Curve	C&S/L&T/ABB	NOS	1
15	1F2	Miniature circuit breaker DP 6A 6KA, 220V DC, 'C' Curve	C&S/L&T/ABB	NOS	1
16	1F3	Miniature circuit breaker DP 10A 6KA, 220V DC, 'C' Curve	C&S/L&T/ABB	NOS	1
17	TR-C1	Current transducer 57-500VAC/4-20mA11/P10/P60-300VAC/DC	Rishabh/Elmeasure/secure	NOS	1
18	TR-C2	Current transducer 57-500VAC/4-20mA11/P10/P60-300VAC/DC	Rishabh/Elmeasure/secure	NOS	1
19	TR-C3	Current transducer 57-500VAC/4-20mA11/P10/P60-300VAC/DC	Rishabh/Elmeasure/secure	NOS	1
20	U/V(27)	Under Voltage Relay, 3 Phase Model:D2VCT1 Din Rail Mounting, Output 2 'C/O'	MINILEC	NOS	1
21	H4	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, RED COLOUR (I/C-1 ON)	C&S/L&T/ABB	NOS	1
22	H5	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, GREEN COLOUR (I/C-1 OFF)	C&S/L&T/ABB	NOS	1
23	H6	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, AMBER COLOUR (I/C-1 TRIP)	C&S/L&T/ABB	NOS	1
24	1K1	Plug In Relay 4 C/O 220V DC With LED	SCHNEIDER	NOS	1
25	1K2	Plug In Relay 4 C/O 220V DC With LED	SCHNEIDER	NOS	1
26	1K3	Plug In Relay 4 C/O 220V DC With LED	SCHNEIDER	NOS	1
27	K1	Aux. Contactor 2NO+2NC 220V DC	C&S/L&T/ABB	NOS	1
28	MFM	Multy Function Meter 0-800A, Module: 3430	RISHABH	NOS	1
29	PT-1	Potential Transformers, RESIN CAST, 415V/RT3/110V/RT3, 50Hz, CORE 1: CL: 0.5, 10VA, INSULATION LEVEL:3kV	Instrans/Kalpa	NOS	3

Chief Engineer/Projects
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								DRN	RC	SCALE	NA
								CHD	BB	DATE	14.09.2023
				TITLE				APPD	JR	SHEET NO.	
				415V AC DISTRIBUTION BOARD				DRAWING No.		52 OF 57	
				PAGE TYPE				BILL OF MATERIALS (1/6)		GSS-23-24-024ACDB	REV. R0

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BILL OF MATERIALS						
SL.NO.	DEVICE TAG NO	ITEM DESCRIPTION	MAKE	UNIT	UNIT	
INCOMER-2						
1	11F2	Molded Case Circuit Breaker FP, 800A, 50KA, MP BASED (OL/SC) With Rotary Handle,Machanical Interlock Auxiliary Contact, Trip Contact & 220V DC Shunt Trip Coil	C&S/L&T/ABB	NOS	1	
2	H1	Indications Lamps. 110V AC Cluster Type LED only Size: 22.5 mm, RED Colour (R-Phase)	C&S/L&T/ABB	NOS	1	
3	H2	Indications Lamps. 110V AC Cluster Type LED only Size: 22.5 mm, YELLOW Colour (Y-Phase)	C&S/L&T/ABB	NOS	1	
4	H3	Indications Lamps. 110V AC Cluster Type LED only Size: 22.5 mm, BLUE Colour (B-Phase)	C&S/L&T/ABB	NOS	1	
5	DV	3 Phase Digital Voltmeter 0-500V AC, Aux. Supply: 110V AC	Rishabh/Elmeasure/secure	NOS	1	
6	DA	3 Phase Digital Ammeter 0-800A, Aux. Supply: 110V AC	Rishabh/Elmeasure/secure	NOS	1	
7	TR-V1	Voltage transducer 57-500VAC/4-20mA11/P10/P60-300VAC/DC	Rishabh/Elmeasure/secure	NOS	1	
8	TR-V2	Voltage transducer 57-500VAC/4-20mA11/P10/P60-300VAC/DC	Rishabh/Elmeasure/secure	NOS	1	
9	TR-V3	Voltage transducer 57-500VAC/4-20mA11/P10/P60-300VAC/DC	Rishabh/Elmeasure/secure	NOS	1	
10	CTTB3	CT Terminal blocks 6 Sq.mm	Connectwell/Elmex	NOS	4	
11	2F1-2F3	Fuse base-20A-550VAC WITH HRC FUSE-6A-415V AC	Bussman/Reputed	NOS	13	
12	NL	Disconnecting type neutral link-15A	Std/Reputed	NOS	1	
13	CT1-3	Current transformer 800/1A, CL:1,15VA, Resin cast	Kalpa/ Instrans	NOS	3	
14	2F1	Miniature circuit breaker DP 10A 6KA, 220V DC, 'C' Curve	C&S/L&T/ABB	NOS	1	
15	2F2	Miniature circuit breaker DP 6A 6KA, 220V DC, 'C' Curve	C&S/L&T/ABB	NOS	1	
16	2F3	Miniature circuit breaker DP 10A 6KA, 220V DC, 'C' Curve	C&S/L&T/ABB	NOS	1	
17	TR-C1	Current transducer 57-500VAC/4-20mA11/P10/P60-300VAC/DC	Rishabh/Elmeasure/secure	NOS	1	
18	TR-C2	Current transducer 57-500VAC/4-20mA11/P10/P60-300VAC/DC	Rishabh/Elmeasure/secure	NOS	1	
19	TR-C3	Current transducer 57-500VAC/4-20mA11/P10/P60-300VAC/DC	Rishabh/Elmeasure/secure	NOS	1	
20	U/V(27)	Under Voltage Relay, 3 Phase Model:D2VCT1 Din Rail Mounting, Output 2 'C/O'	MINILEC	NOS	1	
21	H4	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, RED COLOUR (I/C-1 ON)	C&S/L&T/ABB	NOS	1	
22	H5	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, GREEN COLOUR (I/C-1 OFF)	C&S/L&T/ABB	NOS	1	
23	H6	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, AMBER COLOUR (I/C-1 TRIP)	C&S/L&T/ABB	NOS	1	
24	2K1	Plug In Relay 4 C/O 220V DC With LED	SCHNEIDER	NOS	1	
25	2K2	Plug In Relay 4 C/O 220V DC With LED	SCHNEIDER	NOS	1	
26	2K3	Plug In Relay 4 C/O 220V DC With LED	SCHNEIDER	NOS	1	
27	K1	Aux. Contactor 2NO+2NC 220V DC	C&S/L&T/ABB	NOS	1	
28	MFM	Multy Function Meter 0-800A, Module: 3430	RISHABH	NOS	1	
29	PT-2	Potential Transformers, RESIN CAST, 415V/√3/110V/√3, 50Hz, CORE 1: CL: 0.5, 10VA, INSULATION LEVEL:3KV	Instrans/Kalpa	NOS	3	

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					DRN	RC	SCALE	NA
					CHD	BB	DATE	14.09.2023
					APPD	JR	SHEET NO.	
					DRAWING No.		53	OF 57
			TITLE	415V AC DISTRIBUTION BOARD		REV.	R0	
			PAGE TYPE	BILL OF MATERIALS (2/6)		GSS-23-24-024ACDB		


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BILL OF MATERIALS						
SL.NO.	DEVICE TAG NO	ITEM DESCRIPTION	MAKE	UNIT	UNIT	
DIESEL GENERATOR						
1	9F2	Air circuit breaker, TP+NL, 800A, 50KA, EDO-TM BASED (OL,SC),Mechanical Interlock WITH 6NO+6NC-415V AC	C&S/L&T/ABB	NOS	1	
2	9F2	Shunt trip coil 220V DC	C&S/L&T/ABB	NOS	1	
3	H1	Indications Lamps. 110V AC Cluster Type LED only Size: 22.5 mm, RED Colour (R-Phase)	C&S/L&T/ABB	NOS	1	
4	H2	Indications Lamps. 110V AC Cluster Type LED only Size: 22.5 mm, YELLOW Colour (Y-Phase)	C&S/L&T/ABB	NOS	1	
5	H3	Indications Lamps. 110V AC Cluster Type LED only Size: 22.5 mm, BLUE Colour (B-Phase)	C&S/L&T/ABB	NOS	1	
6	DV	3 Phase Digital Voltmeter 0-500V AC, AUX SUPPLY: 110V AC	Rishabh/Elmeasure/secure	NOS	1	
7	DA	3 Phase Digital Ammeter 0-1250A, AUX SUPPLY: 110V AC	Rishabh/Elmeasure/secure	NOS	1	
8	CT1-3	Current transformer 1250/1A, CORE-1: CL:1,15VA, Resin cast	Kalpa/Instrans	NOS	3	
9	CT4-6	Current transformer 1250/1A, CORE-1: CL:0.5,15VA,CORE-2: CL:3P,10VA Resin cast	Kalpa/Instrans	NOS	3	
10	TNCSW	TNC Switch 25A 220V DC 1NO+1NC Springret	Switron/Salzer/Kaycee	NOS	1	
11	L/R	Selector switch 20A, 2 POLE, 2 WAY	Switron/Salzer/Kaycee	NOS	1	
12	3F1-3F3	Fuse base-20A-550VAC WITH HRC FUSE-6A-415V AC	Bussman/Reputed	NOS	13	
13	NL	Disconnecting type neutral link-15A	Std/Reputed	NOS	1	
14	CTTB1,2,3	CT Terminal blocks 6 Sq.mm	Connectwell/Elmex	NOS	12	
15	3F1	Miniature circuit breaker DP 10A 6KA, 220V DC, 'C' Curve	C&S/L&T/ABB	NOS	1	
16	3F2	Miniature circuit breaker SP 6A 6KA, 220V DC, 'C' Curve	C&S/L&T/ABB	NOS	1	
17	3F3	Miniature circuit breaker DP 10A 6KA, 220V DC, 'C' Curve	C&S/L&T/ABB	NOS	1	
18	IL1	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, RED COLOUR (ACB ON)	C&S/L&T/ABB	NOS	1	
19	IL2	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, GREEN COLOUR (ACB OFF)	C&S/L&T/ABB	NOS	1	
20	IL3	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, AMBER COLOUR (86 OPERATED)	C&S/L&T/ABB	NOS	1	
21	IL4	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, BLUE COLOUR (SPRING CHARGE)	C&S/L&T/ABB	NOS	1	
22	IL5	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, GREEN COLOUR (ACB IN TEST POSITION)	C&S/L&T/ABB	NOS	1	
23	IL6	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, WHITE COLOUR (ACB IN ISOLATED POSITION)	C&S/L&T/ABB	NOS	1	
24	IL7	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, RED COLOUR (ACB IN SERVICE POSITION)	C&S/L&T/ABB	NOS	1	
25	IL8	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, WHITE COLOUR (DC SUPPLY HEALTHY)	C&S/L&T/ABB	NOS	1	
26	IL9	Indications Lamps. 220 DC Cluster Type LED only Size: 22.5 mm, AMBER COLOUR (AUTO TRIP)	C&S/L&T/ABB	NOS	1	
27	K11,APR,K12	Aux. Contactor 2NO+2NC 220V DC	C&S/L&T/ABB	NOS	3	
28	86,LT2X	Aux. Contactor 2NO+2NC 220V DC, 1NO ADDON BLOCK	C&S/L&T/ABB	NOS	1	
29	SCHX	Aux. Contactor 4NO 220V DC	C&S/L&T/ABB	NOS	1	

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						DRN	RC	SCALE	NA			
						CHD	BB	DATE	14.09.2023			
				TITLE	415V AC DISTRIBUTION BOARD			APPD	JR	SHEET NO.		
					PAGE TYPE	BILL OF MATERIALS (3/6)			DRAWING No.		54	OF 57
								GSS-23-24-024ACDB	REV.	R0		

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BILL OF MATERIALS					
SL.NO.	DEVICE TAG NO	ITEM DESCRIPTION	MAKE	UNIT	UNIT
DIESEL GENERATOR					
30	U/V(27)	Under Voltage Relay, 3 Phase Model:D2VCT1 Din Rail Mounting. Output 2 'C/O'	MINILEC	NOS	1
31	PT-3	Potential Transformers, RESIN CAST, 415V/√3/110V/√3, 50Hz, CORE 1: CL: 0.5, 10VA, INSULATION LEVEL:3kV	Instrans/Kalpa	NOS	3
32	LT1X	Aux. Contactor 4NO 220V DC, 4NO ADDON BLOCK	C&S/L&T/ABB	NOS	1
33	52X,K1,80DC	Aux. Contactor 2NO+2NC 220V DC	C&S/L&T/ABB	NOS	3
34	PROT.RELAY	Aux. Contactor 2NO+2NC 220V DC	C&S/L&T/ABB	NOS	1
BUS COUPLER					
1	10F2	Molded Case Circuit Breaker FP, 800A, 50KA, MP BASED (OL/SC) With Rotary Handle,Machanical Interlock Auxiliary Contact, Trip Contact & 220V DC Shunt Trip Coil	C&S/L&T/ABB	NOS	1
2	4F-4F3	Fuse base-20A-550VAC WITH HRC FUSE-6A-415V AC	Bussman	NOS	13
3	4F1	Mliniature circuit breaker DP 10A 6KA, 220V DC, 'C' Curve	C&S/L&T/ABB	NOS	1
4	4F2	Mliniature circuit breaker DP 6A 6KA, 220V DC, 'C' Curve	C&S/L&T/ABB	NOS	1
5	4F3	Mliniature circuit breaker DP 10A 6KA, 220V DC, 'C' Curve	C&S/L&T/ABB	NOS	1
6	1K1	Plug In Relay 4 C/O 220V DC With LED	SCHNEIDER	NOS	1
7	1K2	Plug In Relay 4 C/O 220V DC With LED	SCHNEIDER	NOS	1
8	1K3	Plug In Relay 4 C/O 220V DC With LED	SCHNEIDER	NOS	1
9	K1	Aux. Contactor 2NO+2NC 220V DC	C&S/L&T/ABB	NOS	1
OUTGOING-200A MCCB					
1	1F1,1F2,12F1,12F2	Molded case circuit breaker FP, 200A, 36KA, 415V AC With Auxiliary Contact And Trip Contacts	C&S/L&T/ABB	NOS	4
2	1F1,1F2,12F1,12F2	Rotary handle	C&S/L&T/ABB	NOS	4
OUTGOING-125A MCCB					
1	1F3,1F4,12F3,12F4	Molded case circuit breaker FP, 125A, 36KA, 415V AC With Auxiliary Contact And Trip Contacts	C&S/L&T/ABB	NOS	4
2	Q7,Q8,Q50,Q51	Rotary handle	C&S/L&T/ABB	NOS	4
OUTGOING-63A MCCB					
1	1F5,2F1-2F6,3F1-3F6	Molded cas circuit breaker FP, 63A, 36KA, 415V AC With Auxiliary Contact And Trip Contacts	C&S/L&T/ABB	NOS	13
2	1F5,2F1-2F6,3F1-3F6	Rotary handle	C&S/L&T/ABB	NOS	13
3	1F5,2F1-2F6,3F1-3F6-X1	Terminal blocks 35 Sq.mm	Connectwell/ Elmex	NOS	52
OUTGOING-63A MCCB					
1	4F1-4F6,5F1-5F6	Molded cas circuit breaker FP, 63A, 36ka, 415V AC With Auxiliary Contact And Trip Contacts	C&S/L&T/ABB	NOS	12
2	4F1-4F6,5F1-5F6	Rotary handle	C&S/L&T/ABB	NOS	12
3	4F1-4F6,5F1-5F6-X1	Terminal blocks 35 Sq.mm	Connectwell/ Elmex	NOS	48

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						DRN	RC	SCALE	NA
						CHD	BB	DATE	14.09.2023
				TITLE		APPD	JR	SHEET NO.	
				415V AC DISTRIBUTION BOARD				55 OF 57	
				PAGE TYPE				DRAWING No.	
				BILL OF MATERIALS (4/6)				GSS-23-24-024ACDB	
						REV.	R0		

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BILL OF MATERIALS

SL.NO.	DEVICE TAG NO	ITEM DESCRIPTION	MAKE	UNIT	UNIT
OUTGOING-63A MCCB					
1	7F1-7F6	Molded cas circuit breaker FP, 63A, 36kA, 415V AC With Auxiliary Contact And Trip Contacts	C&S/L&T/ABB	NOS	6
2	7F1-7F6	Rotary handle	C&S/L&T/ABB	NOS	6
3	7F1-7F6-X1	Terminal blocks 35 Sq.mm	Connectwell/ Elmex	NOS	24
OUTGOING-32A MCCB					
1	6F7,7F1-7F5	Molded case circuit breaker FP, 32A, 36kA, 415V AC With Auxiliary Contact And Trip Contacts	C&S/L&T/ABB	NOS	6
2	6F7,7F1-7F5	Rotary handle	C&S/L&T/ABB	NOS	6
3	6F7,7F1-7F5-X1	Terminal blocks 16 Sq.mm	Connectwell/ Elmex	NOS	24
OUTGOING-150A MCCB					
1	7F6	Molded case circuit breaker FP, 150A, 36kA, 415V AC With Auxiliary Contact And Trip Contacts	C&S/L&T/ABB	NOS	1
2	7F6	Rotary handle	C&S/L&T/ABB	NOS	1
OUTGOING-63A MCCB					
1	7F7	Molded cas circuit breaker FP, 63A, 36kA, 415V AC With Auxiliary Contact And Trip Contacts	C&S/L&T/ABB	NOS	1
2	7F7	Rotary handle	C&S/L&T/ABB	NOS	1
3	7F7-X1	Terminal blocks 35 Sq.mm	Connectwell/ Elmex	NOS	4
OUTGOING-63A MCCB					
1	12F5-12F6	Molded cas circuit breaker FP, 63A, 36kA, 415V AC With Auxiliary Contact And Trip Contacts	C&S/L&T/ABB	NOS	2
2	12F5-12F6	Rotary handle	C&S/L&T/ABB	NOS	2
3	12F5-12F6-X1	Terminal blocks 35 Sq.mm	Connectwell/ Elmex	NOS	8
OUTGOING-63A MCCB					
1	13F1-13F6,14F1-14F2	Molded cas circuit breaker FP, 63A, 36kA, 415V AC With Auxiliary Contact And Trip Contacts	C&S/L&T/ABB	NOS	12
2	13F1-13F6,14F1-14F2	Rotary handle	C&S/L&T/ABB	NOS	12
3	13F1-13F6,14F1-14F2-X1	Terminal blocks 35 Sq.mm	Connectwell/ Elmex	NOS	48
OUTGOING-63A MCCB					
1	15F1-15F6,16F1-16F2	Molded cas circuit breaker FP, 63A, 36kA, 415V AC With Auxiliary Contact And Trip Contacts	C&S/L&T/ABB	NOS	12
2	15F1-15F6,16F1-16F2	Rotary handle	C&S/L&T/ABB	NOS	12
3	15F1-15F6,16F1-16F2-X1	Terminal blocks 35 Sq.mm	Connectwell/ Elmex	NOS	48

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APTRANSCO/VS/Vijayawada.**

						DRN	RC	SCALE	NA
						CHD	BB	DATE	14.09.2023
				TITLE		APPD	JR	SHEET NO.	
								56 OF 57	
				PAGE TYPE		DRAWING No.		REV.	R0
				BILL OF MATERIALS (5/6)		GSS-23-24-024ACDB			

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BILL OF MATERIALS

SL.NO.	DEVICE TAG NO	ITEM DESCRIPTION	MAKE	UNIT	UNIT
OUTGOING-63A MCCB					
1	17F1-17F6,18F1,18F2	Molded cas circuit breaker FP, 63A, 36kA, 415V AC With Auxiliary Contact And Trip Contacts	C&S/L&T/ABB	NOS	8
2	17F1-17F6,18F1,18F2	Rotary handle	C&S/L&T/ABB	NOS	8
3	17F1-17F6,18F1,18F2-X1	Terminal blocks 35 Sq.mm	Connectwell/ Elmex	NOS	32
OUTGOING-32A MCCB					
1	18F3-18F6,19F1.19F2	Molded case circuit breaker FP, 32A, 36kA, 415V AC With Auxiliary Contact And Trip Contacts	C&S/L&T/ABB	NOS	6
2	18F3-18F6,19F1.19F2	Rotary handle	C&S/L&T/ABB	NOS	6
3	18F3-18F6,19F1.19F2-X1	Terminal blocks 16 Sq.mm	Connectwell/ Elmex	NOS	24
OUTGOING-150A MCCB					
1	19F3	Molded case circuit breaker FP, 150A, 36kA, 415V AC With Auxiliary Contact And Trip Contacts	C&S/L&T/ABB	NOS	1
2	19F3	Rotary handle	C&S/L&T/ABB	NOS	1
OUTGOING-63A MCCB					
1	19F4	Molded cas circuit breaker FP, 63A, 36kA, 415V AC With Auxiliary Contact And Trip Contacts	C&S/L&T/ABB	NOS	1
2	19F4	Rotary handle	C&S/L&T/ABB	NOS	1
3	19F4-X1	Terminal blocks 35 Sq.mm	Connectwell/ Elmex	NOS	4
Panel Space heater control & Panel illumination					
1	PL1-PL21	230V AC, 11W CFL, suitable for bulb holder	Philips	NOS	4
2	PSH1-PSH21	Space heater 80W, 230V AC, 1 Phase	Girish ego	NOS	4
3	TH1-TH21	Thermostat with 1NC contact, 15A, Range 30-85 Deg.C	Girish ego	NOS	4
4	PSH1-PSH26	Power socket 3 pin socket with switch,230V AC,10A, universal pin type	Anchor	NOS	4

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MANDATORY SPARES FOR 1250A ACBs			
1	Air Circuit Breaker with motor operated mechanism(complete)		
2	Control Switch	NOS	1
3	over current, earthfault relay	NOS	1
4	MFM/EM	NOS	1
5	Voltmeter, ammeter	SET	1
6	transducers	SET	1
7	Closing coil	NOS	1
8	Opening Coil	NOS	1
9	Busbar seal off insulator as percentage of total quantity		5%
10	Busbar support insulator as percentage of the total quantity		10%

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						DRN	RC	SCALE	NA
						CHD	BB	DATE	14.09.2023
				TITLE 415V AC DISTRIBUTION BOARD		APPD	JR	SHEET NO.	
						DRAWING No.		57	OF
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