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Chief Engineer  
Projects

					 <b>GREEN SECURE ENERGY SYSTEMS, .</b>	DRN	RC	SCALE	NA
						CHD	BB	DATE	05.12.2022
					TITLE CVT JUNCTION BOX FOR 400KV/220KV	APPD	JR	SHEET NO.	
						DRAWING No.		02 OF 08	
R1	30.03.2024	REVISED AS PER CUSTOMER COMMENTS 29.03.2024	SH			GSS-23-24-041CVTJB		REV.	R1
ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.					PAGE TYPE	TABLE OF CONTENT			

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THIS SPECIFICATION COVERS A PART OF ELECTRICAL EQUIPMENT INCLUDING DESIGN MANUFACTURING, TEST AT SHOP AND LOADING FOR SHIPMENT ETC SPECIFIED HERE IN AFTER	
CLASSIFICATION	PROJECT: <input checked="" type="checkbox"/> DOMESTIC
APPLICABLE STANDARDS	IS <input checked="" type="checkbox"/> IS:3427
NORMAL SERVICE CONDITION	ALTITUDE : <input checked="" type="checkbox"/> < 1000M AMBIENT TEMPERATURE <input checked="" type="checkbox"/> 50°C RELATIVE HUMIDITY <input checked="" type="checkbox"/> 90%
STRUCTURE	MATERIAL : <input checked="" type="checkbox"/> ALUMINIUM TYPE OF APPLICATION : <input checked="" type="checkbox"/> OUTDOOR THICKNESS : <input checked="" type="checkbox"/> 3MM GLAND PLATE : <input checked="" type="checkbox"/> ALUMINIUM THICKNESS: <input checked="" type="checkbox"/> 3MM  TYPE OF MOUNTING : <input checked="" type="checkbox"/> WALL IP PROTECTION CODE : <input checked="" type="checkbox"/> IP55
	PAINT SHADE : OUTSIDE <input checked="" type="checkbox"/> 631 OF IS-5 INSIDE <input checked="" type="checkbox"/> GLOSSY WHITE PAINT THICKNES : <input checked="" type="checkbox"/> 60 MICRONS (MIN.) GASKET MATERIAL : <input checked="" type="checkbox"/> EPDM GASKET ENCLOSURE DIMENSION : <input checked="" type="checkbox"/> 1000(H) x 900(W) x 350(D) WEIGHT OF ENCLOSURE : <input checked="" type="checkbox"/> APPROX. 70KGS.
CABLE ENTRY DETAILS:	CABLE ENTRY : <input checked="" type="checkbox"/> BOTTOM
INPECTION & TEST	<input checked="" type="checkbox"/> VISUAL INPECTION <input checked="" type="checkbox"/> FUNCTION TEST

SPECIFICATION OF WIRE			
1.1KV PVC INSULATED FLEXIBLE MULTISTRAND COPPER CABLE			
VOLTAGE LEVEL		<input checked="" type="checkbox"/> INLAND	WIRE SIZE
SINGLE PHASE 2 WIRE	PHASE	<input checked="" type="checkbox"/> RED	2.5 SQ.MM <input checked="" type="checkbox"/>
	NEUTRAL	<input checked="" type="checkbox"/> BLACK	
DOOR EARTH/GROUND		<input checked="" type="checkbox"/> GREEN STRIPPED <input checked="" type="checkbox"/> YELLOW	2.5 SQ.MM <input checked="" type="checkbox"/>

- \* ALL DOOR & GLAND PLATES WILL BE GASKETTED WITH EPDM RUBBER
- \* DISTANCE BETWEEN TWO HINGES SHALL NOT BE MORE THAN 300mm
- \* ALL TERMINALS SHALL BE NUMBERED FROM TOP TO BOTTOM
- \* EARTHING STUD SHALL BE SUITABLE FOR 50x6GI FLAT

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NOTE : DRAWING APPROVAL SUBJECT TO VALID TYPE TEST REPORTS.

TO BE CHECKED DURING ACCEPTANCE TESTS.

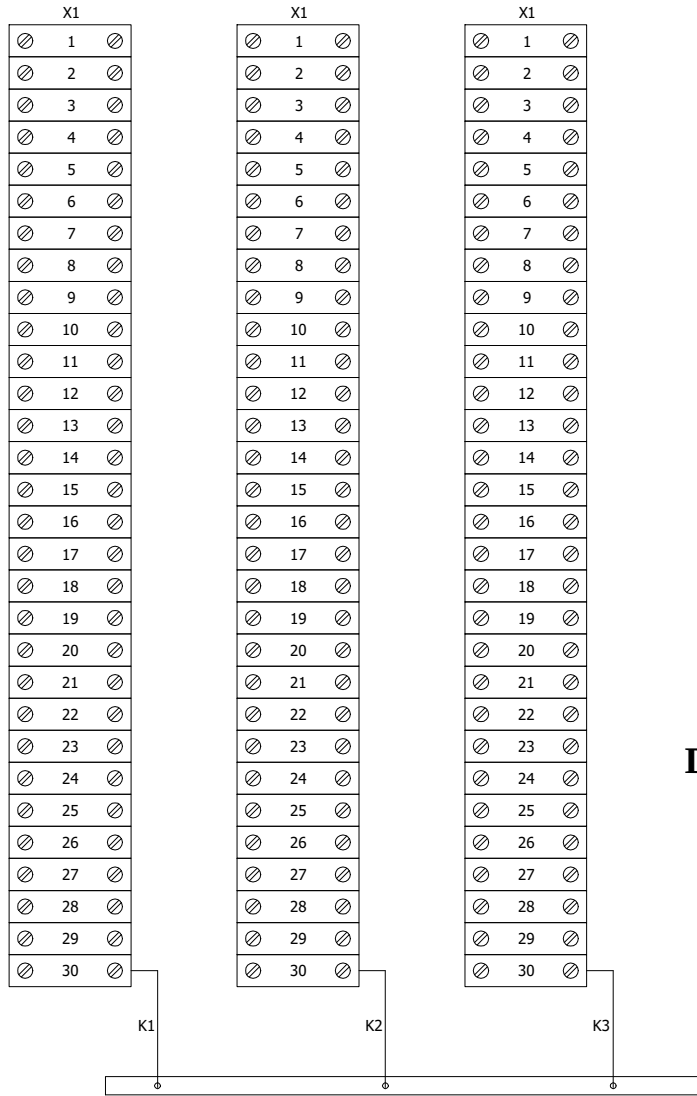
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				TITLE CVT JUNCTION BOX FOR 400KV/220KV		APPD	JR	SHEET NO.	
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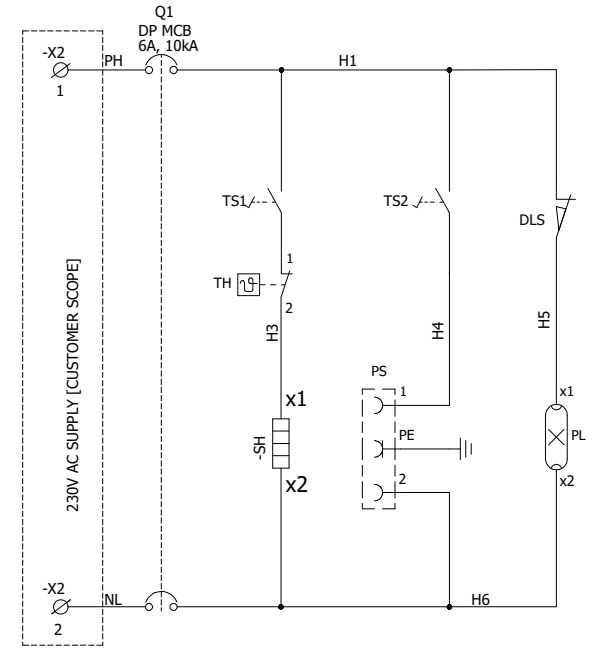
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TERMINAL BLOCKS-90 Nos



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HEATER, SOCKET, DOOR LAMP CKT



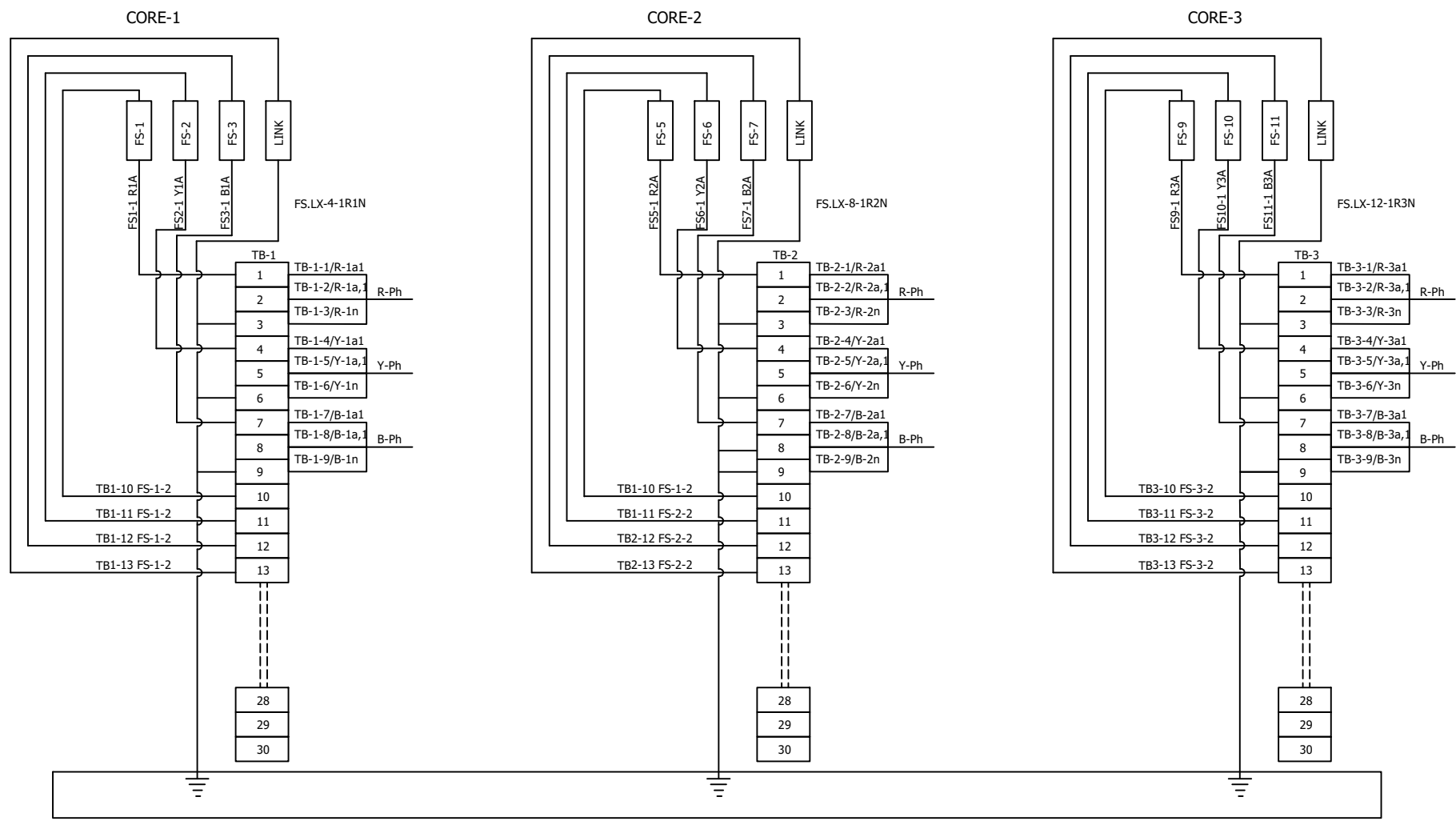
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TITLE CVT JUNCTION BOX FOR 400KV/220KV		APPD	JR	SHEET NO.	
		DRAWING No.		04	OF 08
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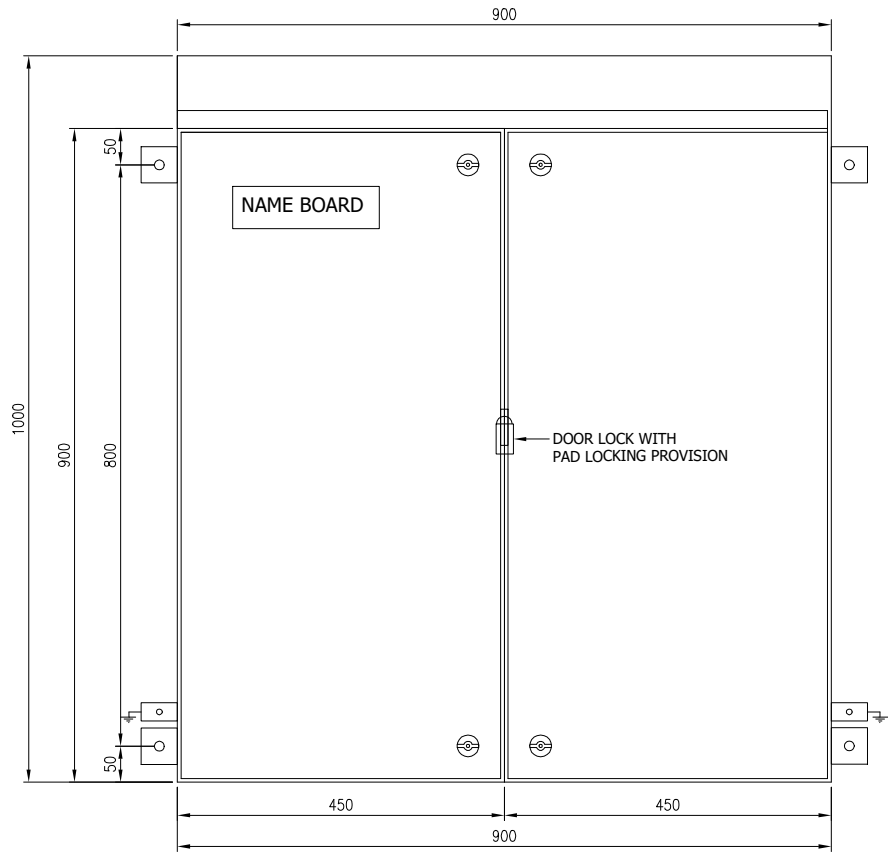
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TITLE: CVT JUNCTION BOX FOR 400KV/220KV  
PAGE TYPE: WIRING DETAILS

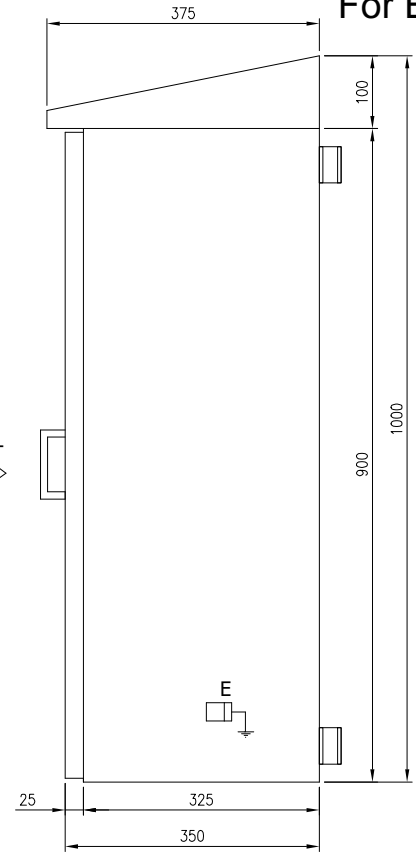
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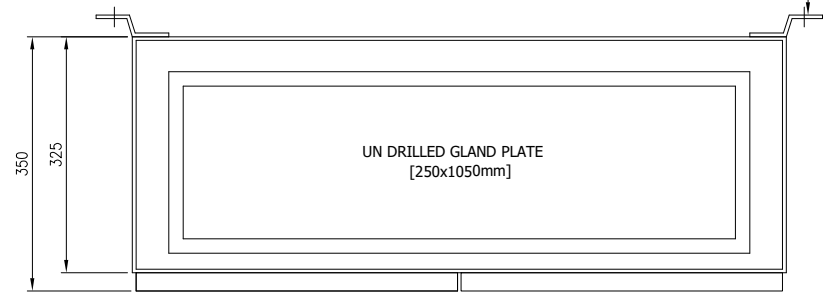


**FRONT VIEW**  
(DOOR CLOSED)

FRONT  
→



**LH SIDE VIEW**



**BOTTOM VIEW**

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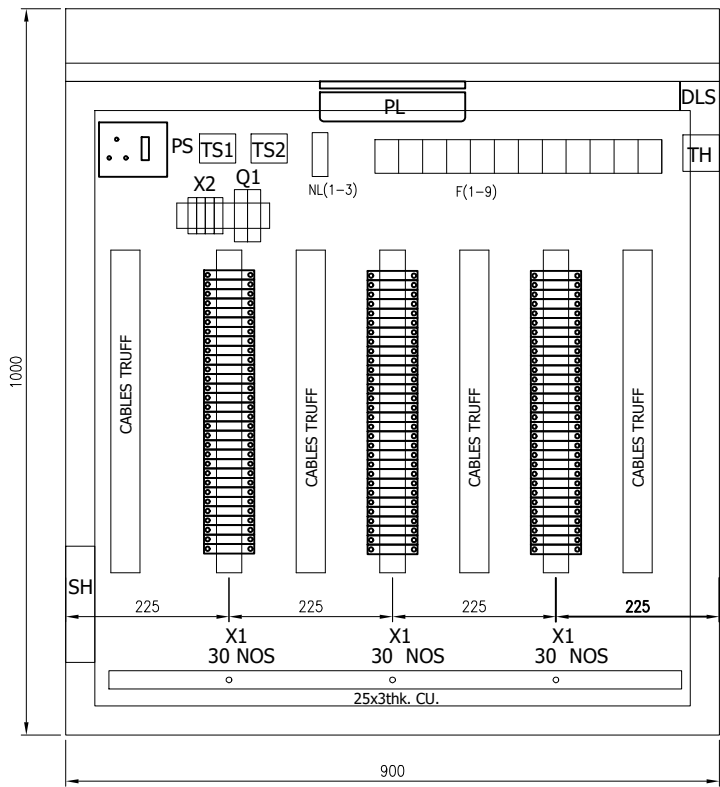
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		DRN	RC	SCALE	NA
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TITLE CVT JUNCTION BOX FOR 400KV/220KV GENERAL ARRANGEMENT (1/2)		APPD	JR	SHEET NO.	
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INTERNAL VIEW

NOTES:

- \* THERE SHALL BE END PLATES AND STOPPERS ON BOTH TOP AND BOTTOM OF EACH SET OF TBS.
- \* THERE SHALL BE GROUP MARKER FOR EACH SET

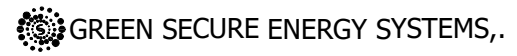
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TITLE	CVT JUNCTION BOX FOR 400kV/220kV		DRN	RC	SCALE	NA
	PAGE TYPE	GENERAL ARRANGEMENT (2/2)	CHD	BB	DATE	05.12.2022
			APPD	JR	SHEET NO. 07 OF 08	
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BILL OF MATERIALS					
Sl.NO	CKT Item Description	I/P Item Description	QTY	UOM	Make
1	DLS	DOOR LIMIT SWITCH	1	NOS	STD vendor
2	PL	PANEL LAMP-5W LED	1	NOS	STD vendor
3	TH	THERMOSTAT (30-85 Deg.C) 15A-250VAC+1NC+BRACK	1	NOS	STD vendor
4	SH	SPACE HEATER-100W-230V AC	1	NOS	GIRISHEGO/STD
5	Q1	MCB-6A-2P-10KA-AC - C Curve	1	NOS	C&S/EQ
6	TS-1 & TS-2	TOGGLE SWITCH-PM-SPST-ON/OFF-10A	2	NOS	STD vendor
7	PS	PLUG AND SOCKET-240V,20A,2P+E	1	NOS	C&S/HPL/LEGRAND/BCH/STD
8	Earth Busbar	Bus bar-25x3Sq.mm Cu	As reqd	NOS	STD vendor
9	X1	Disconnecting Terminal Blocks-Power-41A-Single	90	NOS	KLTD M4
10	X2,1spare	Stud type Terminal Blocks-Power-57A-Single-M4	3	NOS	ELMEX-CBT M4
11	F (1-9)	HRC FUSE WITH FUSE BASE	9	NOS	C&S/EQ
12	NL	NEUTRAL LINK-15A	3	NOS	STD vendor

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