



GREEN SECURE ENERGY SYSTEMS,.

FOR EPC CONTRACTS ONLY

CVT JUNCTION BOX FOR 220kV/400kV

Customer	: M/s. APTRANSCO	
Project Name	: AS APPLICABLE	Chief Engineer (Projects)
CONTACTOR	: AS APPLICABLE	APTransco
Manufacturer	: M/s. Green Secure Energy Systems	
P.O. No.	: AS APPLICABLE	NOTE : DRAWING APPROVAL SUBJECT TO VALID TYPE TEST REPORTS, TO BE CHECKED DURING ACCEPTANCE TESTS.
Job No.	: AS APPLICABLE	
Drawing No.	: GSS-CVTMB	
Quantity	: AS APPLICABLE	
Drawing approval subject to valid vendor registration		
Drawn By RAMESH C	Checked By Bhaskar	Approved By Jothiswar
Total no. of pages 07		

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R1	16.12.2022	REVISED AS PER CUSTOMER COMMENTS	BB	
ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.				

GREEN SECURE ENERGY SYSTEMS,.		DRN	RC	SCALE	NA	
		CHD	BB	DATE	05.12.2022	
TITLE	CVT JUNCTION BOX FOR 220kV			SHEET NO.		
	COVER SHEET			APPD	JR	01 OF 07
				DRAWING No.		REV.
PAGE TYPE		GSS-CVTMB				

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Chief Engineer (Projects)

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NOTE : Cables from mechanism box to marshalling box shall be provided with ferrules, lugs shall be crimped and supplied along with the breaker, including cable glands ,ready for termination at site.

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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 METERIAL :	<input checked="" type="checkbox"/> CROSS LINKED POLY ETHYLENE
	ENCLOSURE DIMENSION :	<input checked="" type="checkbox"/> 900(H) x 900(W) x 325(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 INSPECTION
		<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
	NEUTRAL	<input checked="" type="checkbox"/> BLACK
		2.5 SQ.MM <input checked="" type="checkbox"/>
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.

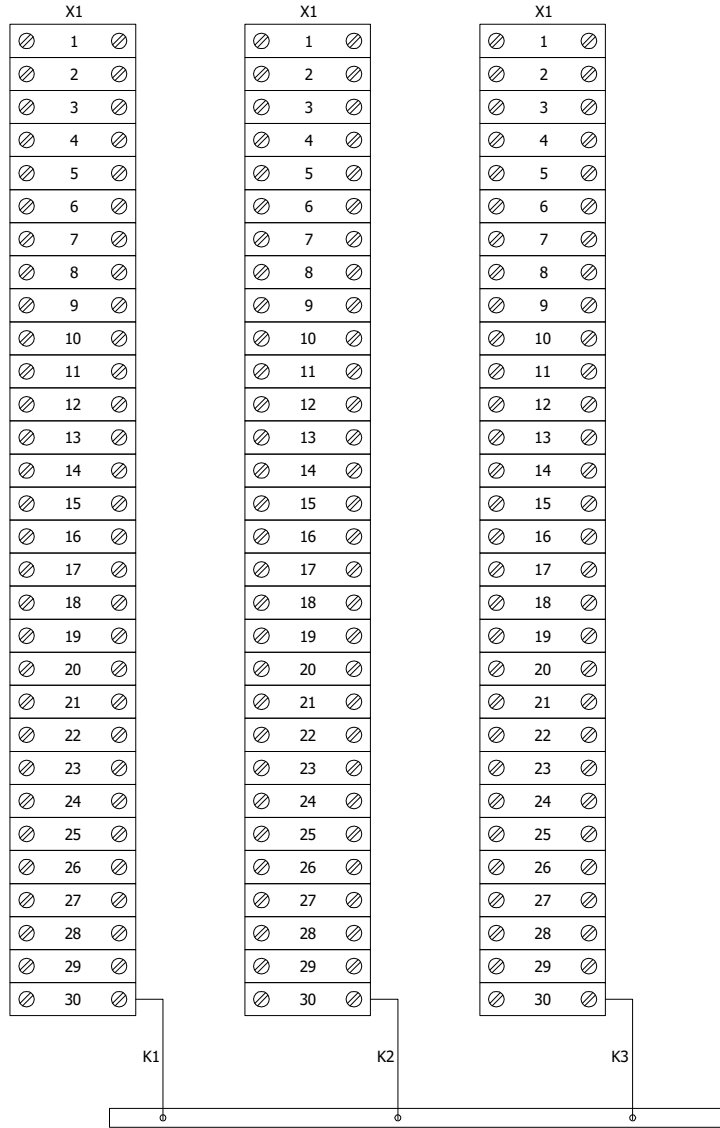
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TERMINAL BLOCKS-90 Nos

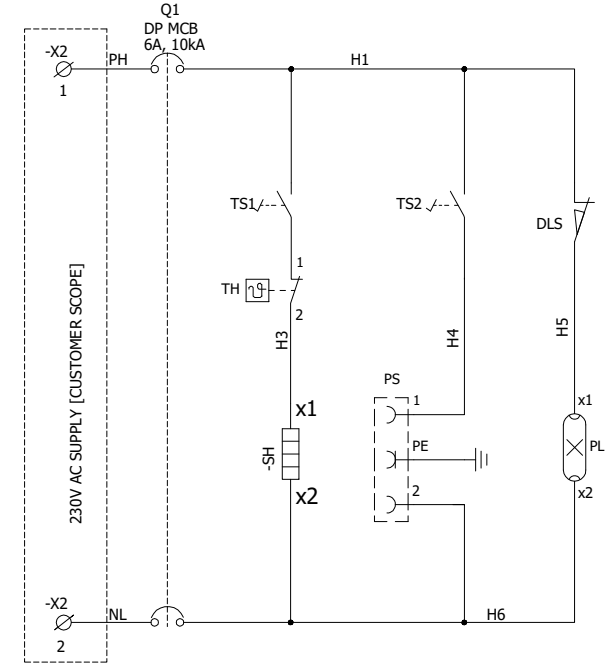


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HEATER, SOCKET, DOOR LAMP CKT

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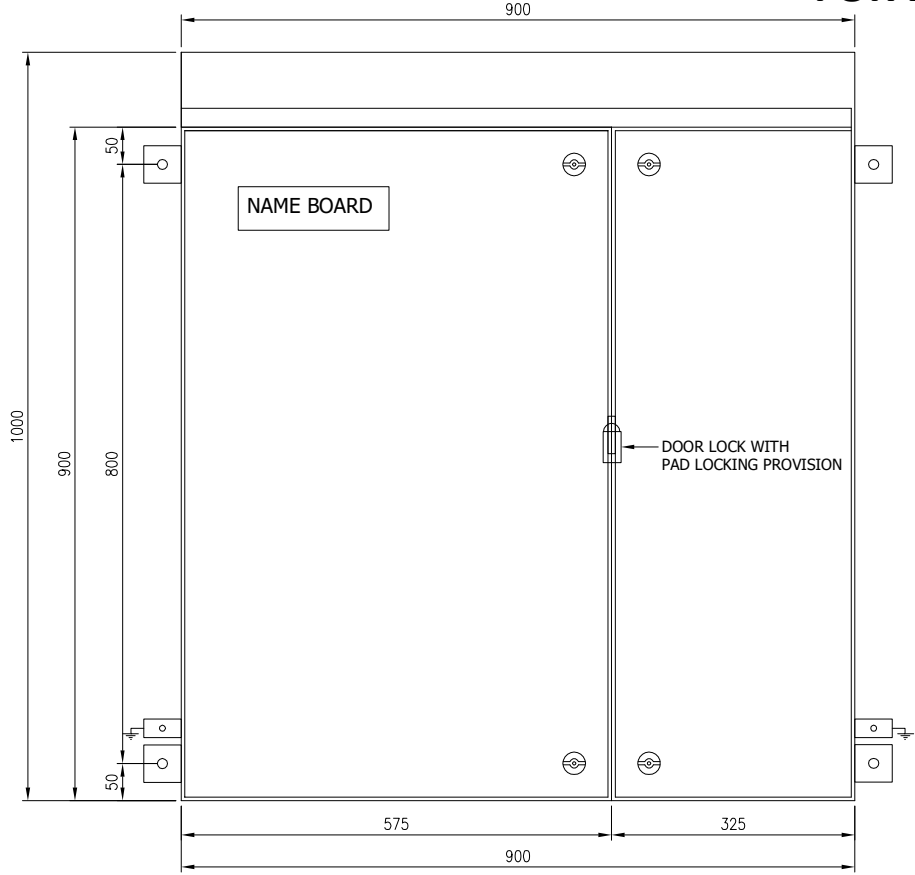
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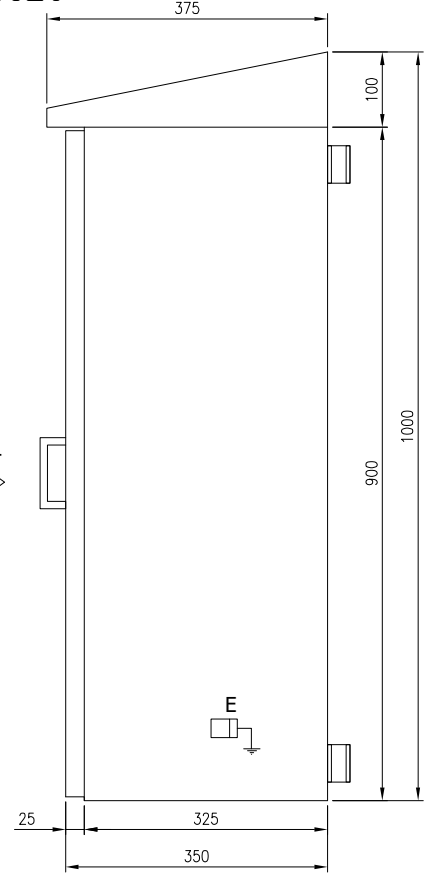
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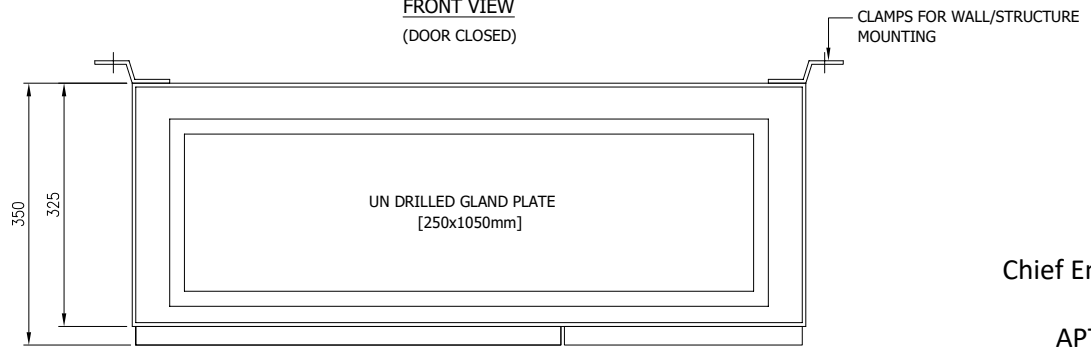


FRONT VIEW
(DOOR CLOSED)

FRONT
→



LH SIDE VIEW



BOTTOM VIEW

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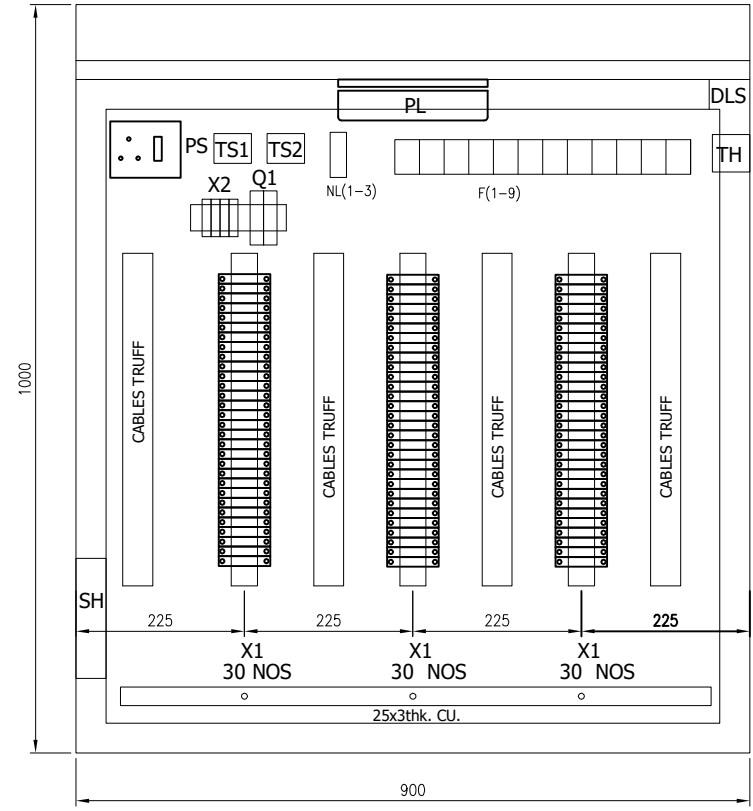
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1 2 3 4 5 6 7 8

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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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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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