



GREEN SECURE ENERGY SYSTEMS,.

FOR EPC CONTRACTS ONLY

Drawing approval subject to valid vendor registration

CT JUNCTION BOX FOR 400kV/220kV

Customer	: M/s. APTRANSCO		
Project Name	: AS APPLICABLE		
CONTACTOR	: AS APPLICABLE		
Manufacturer	: M/s. Green Secure Energy Systems		
P.O. No.	: AS APPLICABLE		
Job No.	: AS APPLICABLE		Chief Engineer (Projects)
Drawing No.	: GSS-CTMB-400/220kV		APTransco
Quantity	: AS APPLICABLE	NOTE : DRAWING APPROVAL SUBJECT TO VALID TYPE TEST REPORTS, TO BE CHECKED DURING ACCEPTANCE TESTS.	
Drawn By	Checked By	Approved By	Total no. of pages
RAMESH C	Bhaskar	Jothiswar	07

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R1	16.12.2022	REVISED AS PER CUSTOMER COMMENTS	BB	

GREEN SECURE ENERGY SYSTEMS,.	DRN	RC	SCALE	NA
	CHD	BB	DATE	05.12.2022
	APPD	JR	SHEET NO.	
	DRAWING No.		01	OF 07
TITLE	CT JUNCTION BOX FOR 400kV/220kV		REV.	R1
PAGE TYPE	COVER SHEET		GSS-CTMB-400/220kV	

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SH.NO.	DESCRIPTION	SHEET NO.	REV. No.
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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 <input checked="" type="checkbox"/> ALUMINIUM TYPE OF MOUNTING : <input checked="" type="checkbox"/> WALL IP PROTECTION CODE : <input checked="" type="checkbox"/> IP55
	POWDER COATING : 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"/> 750(H) x 1350(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	2.5 SQ.MM <input checked="" type="checkbox"/>
SINGLE PHASE 2 WIRE	PHASE	<input checked="" type="checkbox"/> RED
	NEUTRAL	<input checked="" type="checkbox"/> BLACK
DOOR EARTH/GROUND		<input checked="" type="checkbox"/> GREEN STRIPPED 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
- * FINAL PAINTING-POWDER COATING
- * CABLE ENTR-BOTTOM
- * DOOR EARTHING WILL BE DONE BY COPPER BRAIDS


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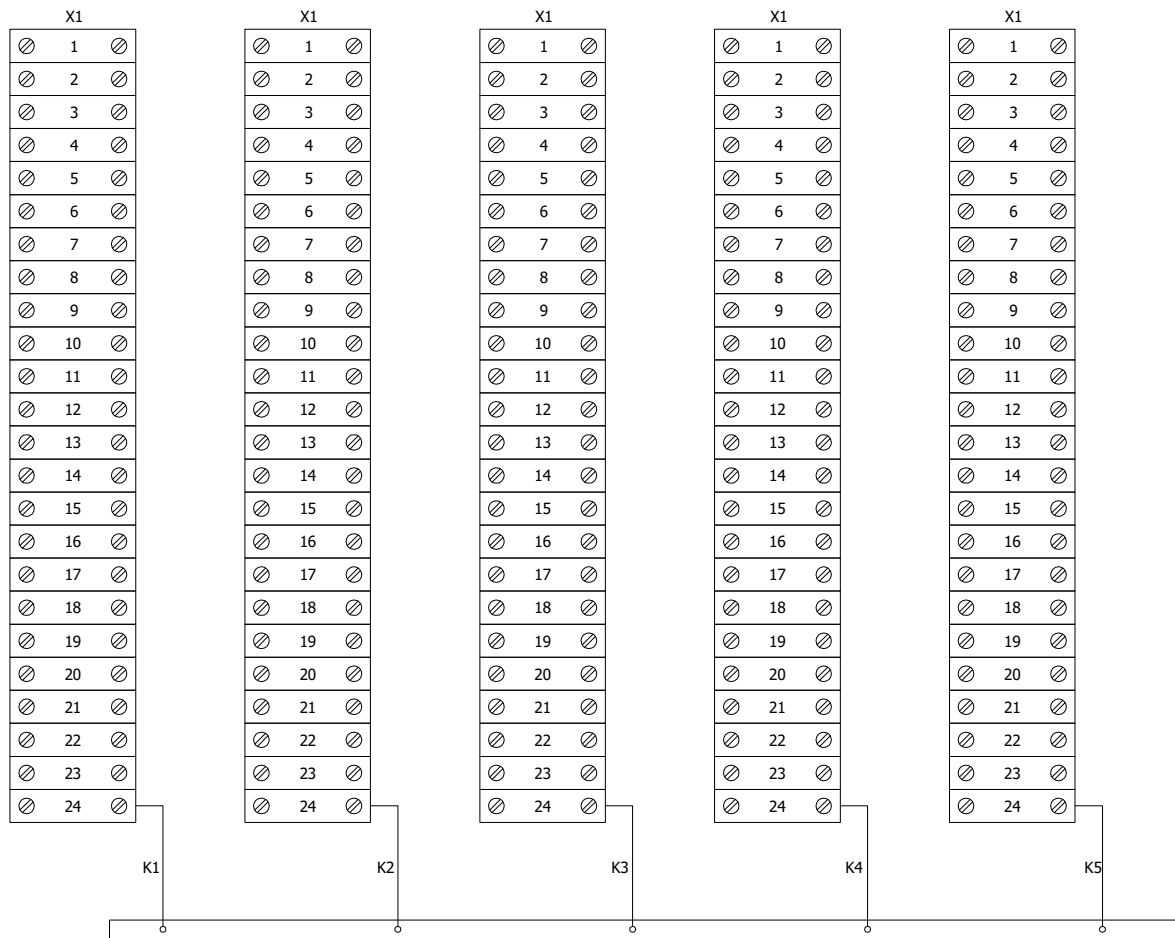
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					PAGE TYPE	CONSTRUCTION DETAILS			

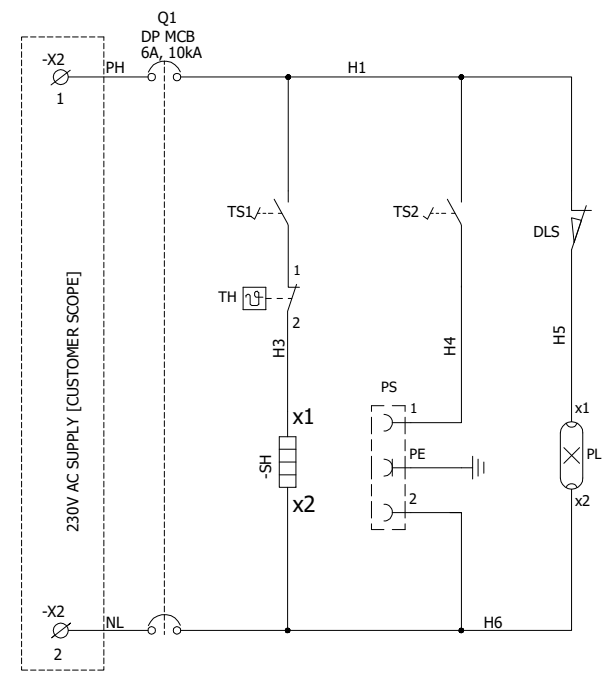
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TERMINAL BLOCKS-120 Nos



HEATER, SOCKET, DOOR LAMP CKT



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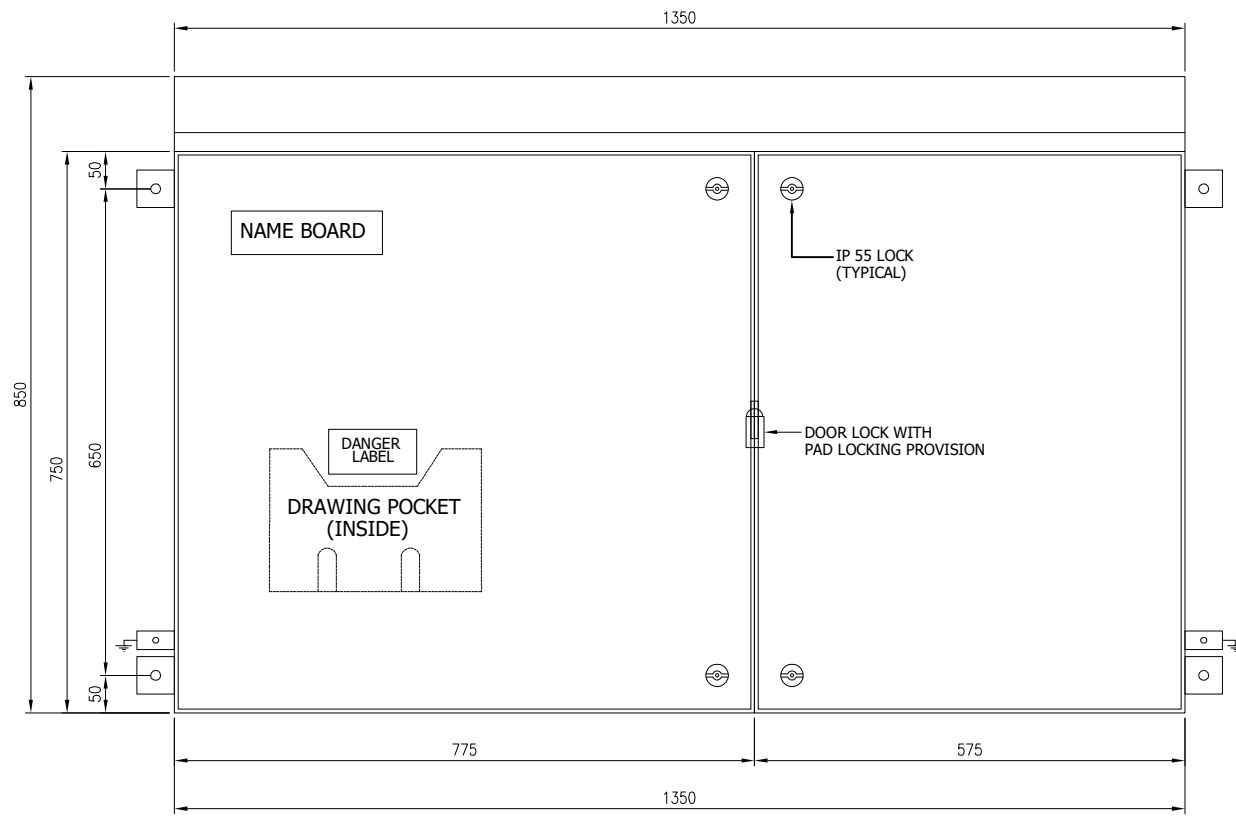
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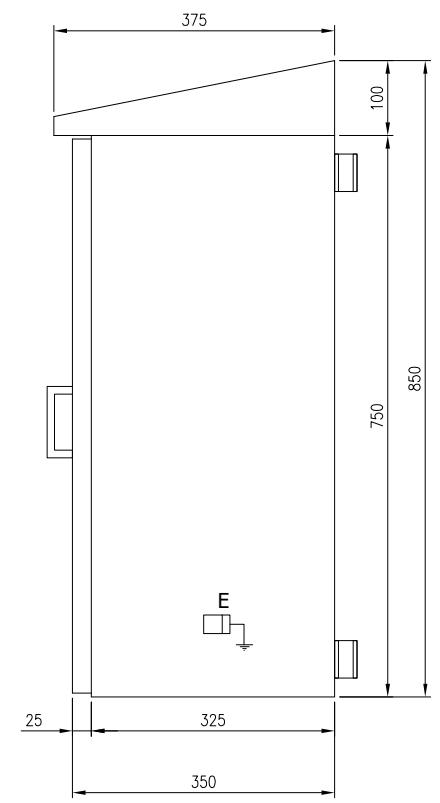
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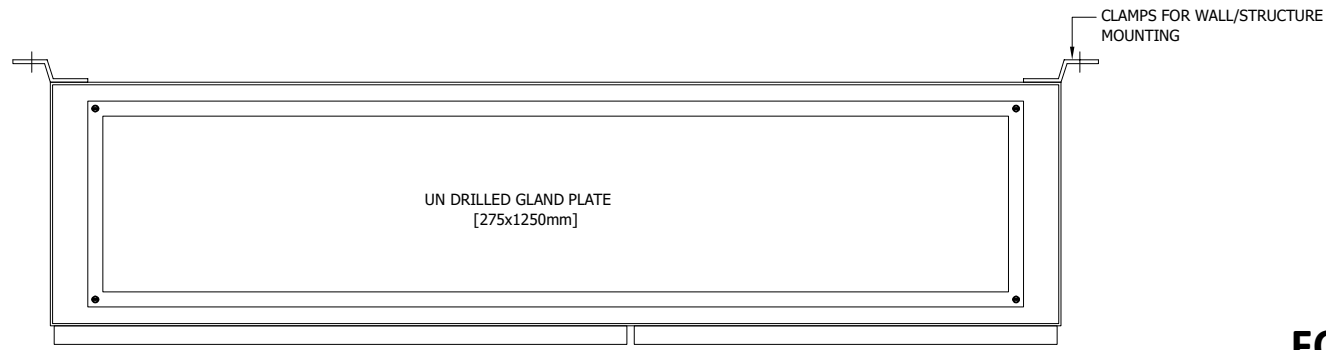


FRONT VIEW
(DOOR CLOSED)

FRONT →



LH SIDE VIEW



BOTTOM VIEW

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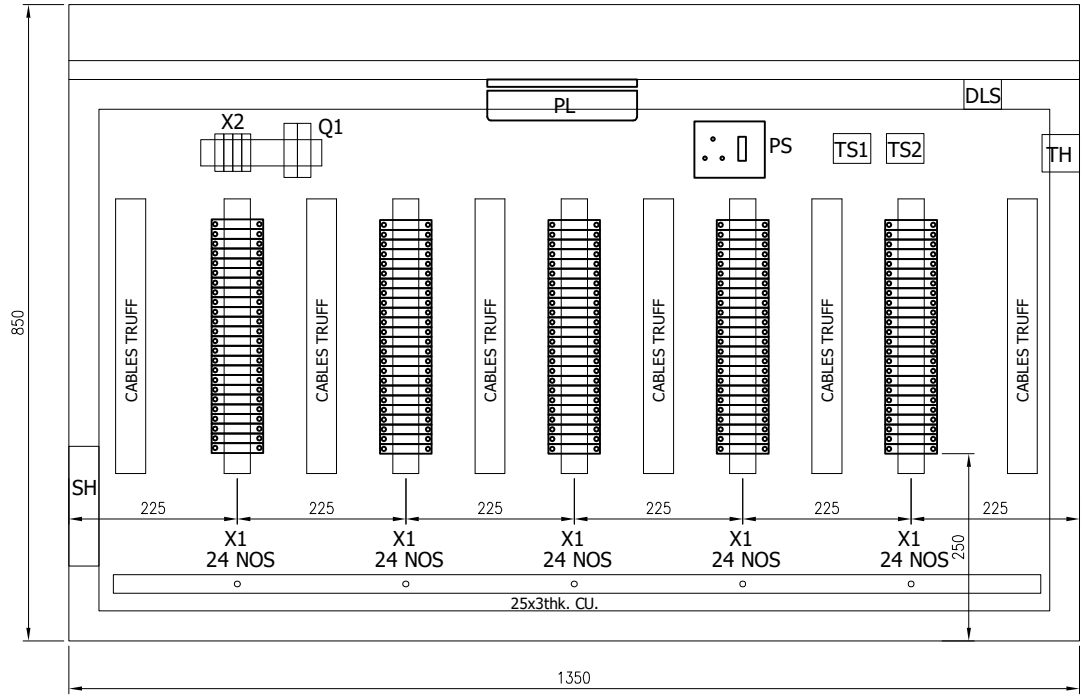
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PAGE TYPE	GENERAL ARRANGEMENT (1/2)					

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NOTES:

- * EACH COLUMN SHALL HAVE 3 SETS OF TBS SEPARATED BY GROUP MARKERS.
- * EACH SET SHALL HAVE SEVEN TBS WITH METAL SHORTING LINK ON 1ST , 2ND, TBS AND 6TH,7TH TBS
- * 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



INTERNAL VIEW

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BILL OF MATERIALS					
SI.No.	CKT Item Description	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+INC+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	120	NOS	KLTD M4
10	X2,1spare	stud type Terminal Blocks-Power-57A-Single-M4	3	NOS	ELMEX-CBT M4

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