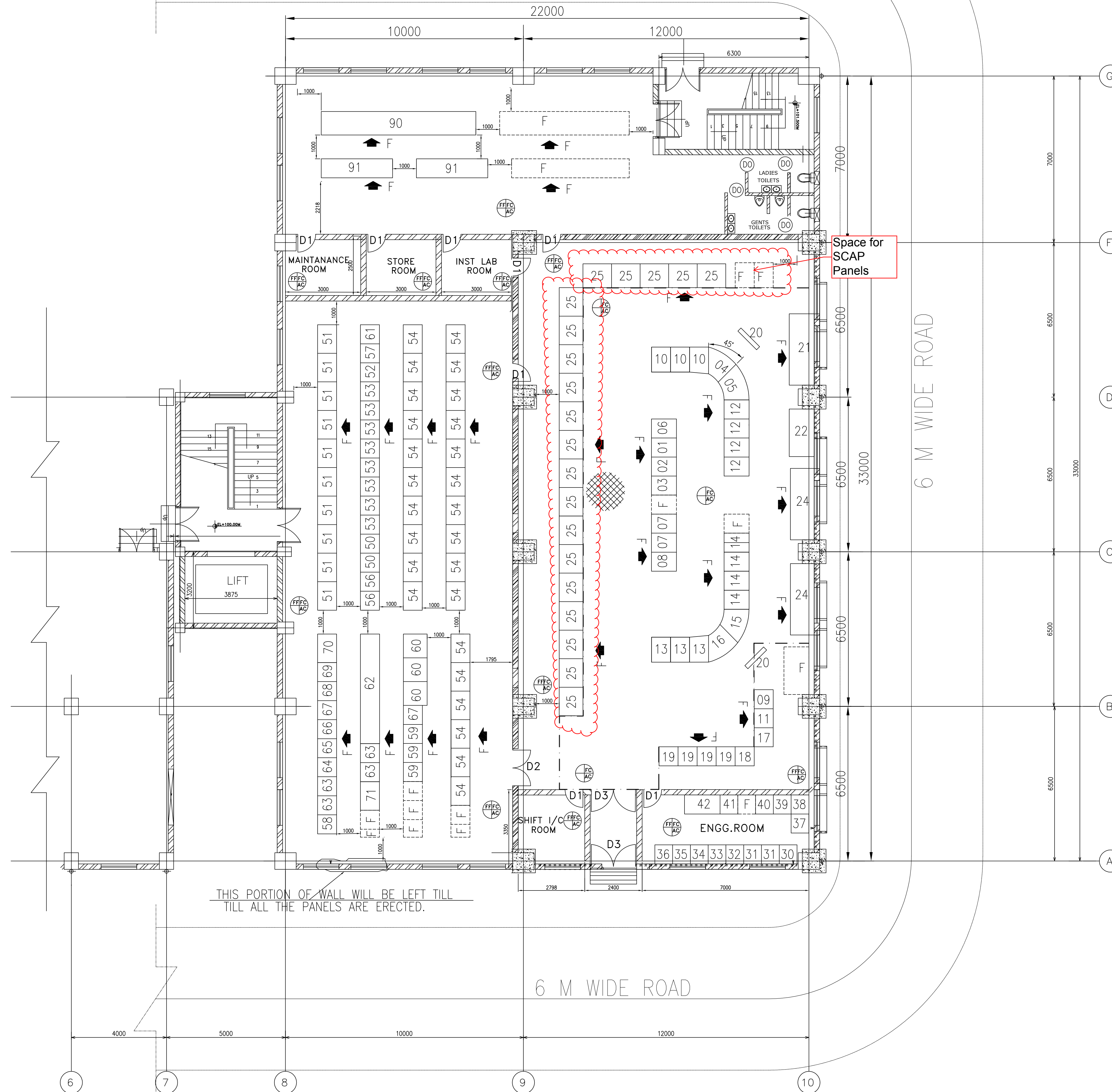


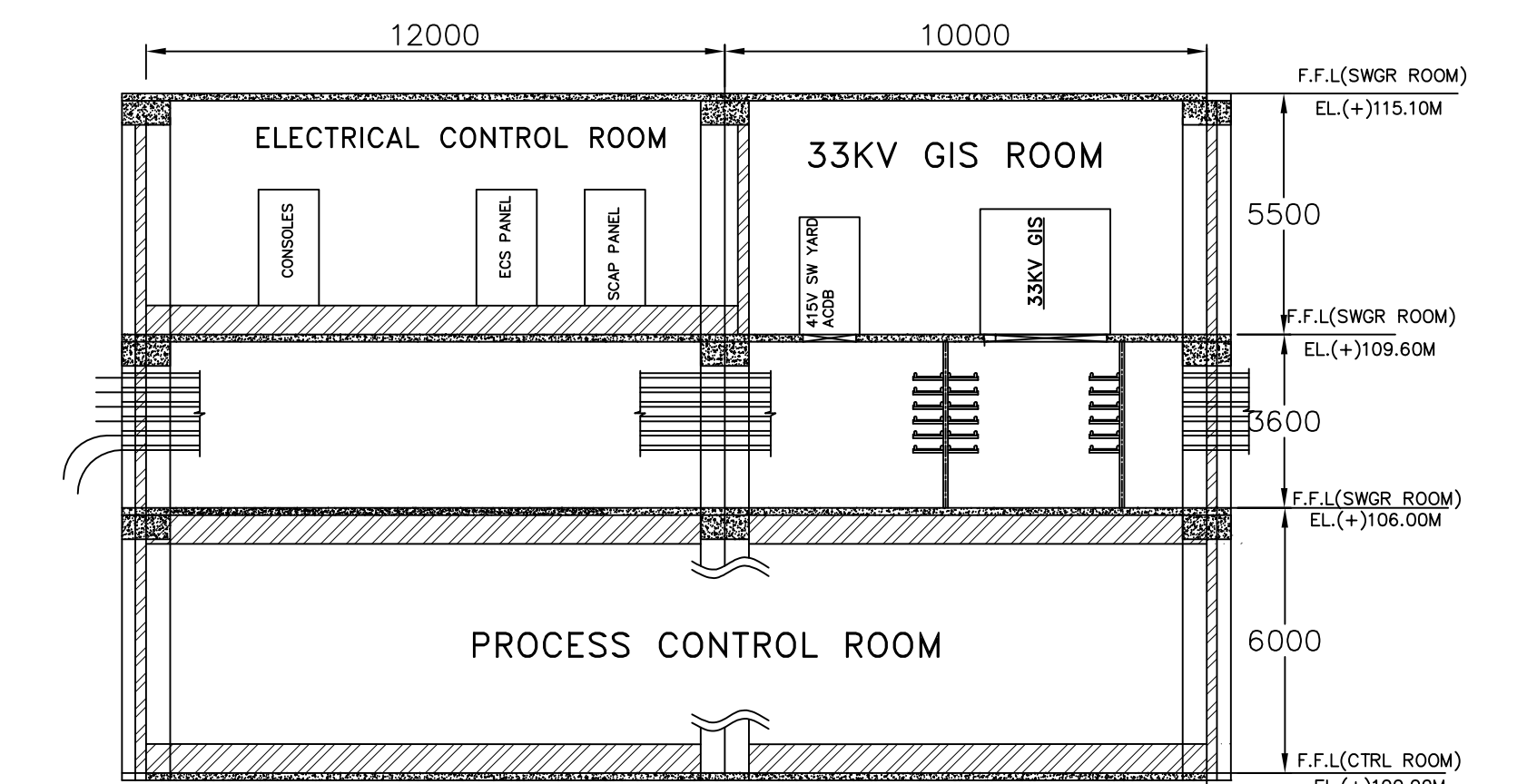
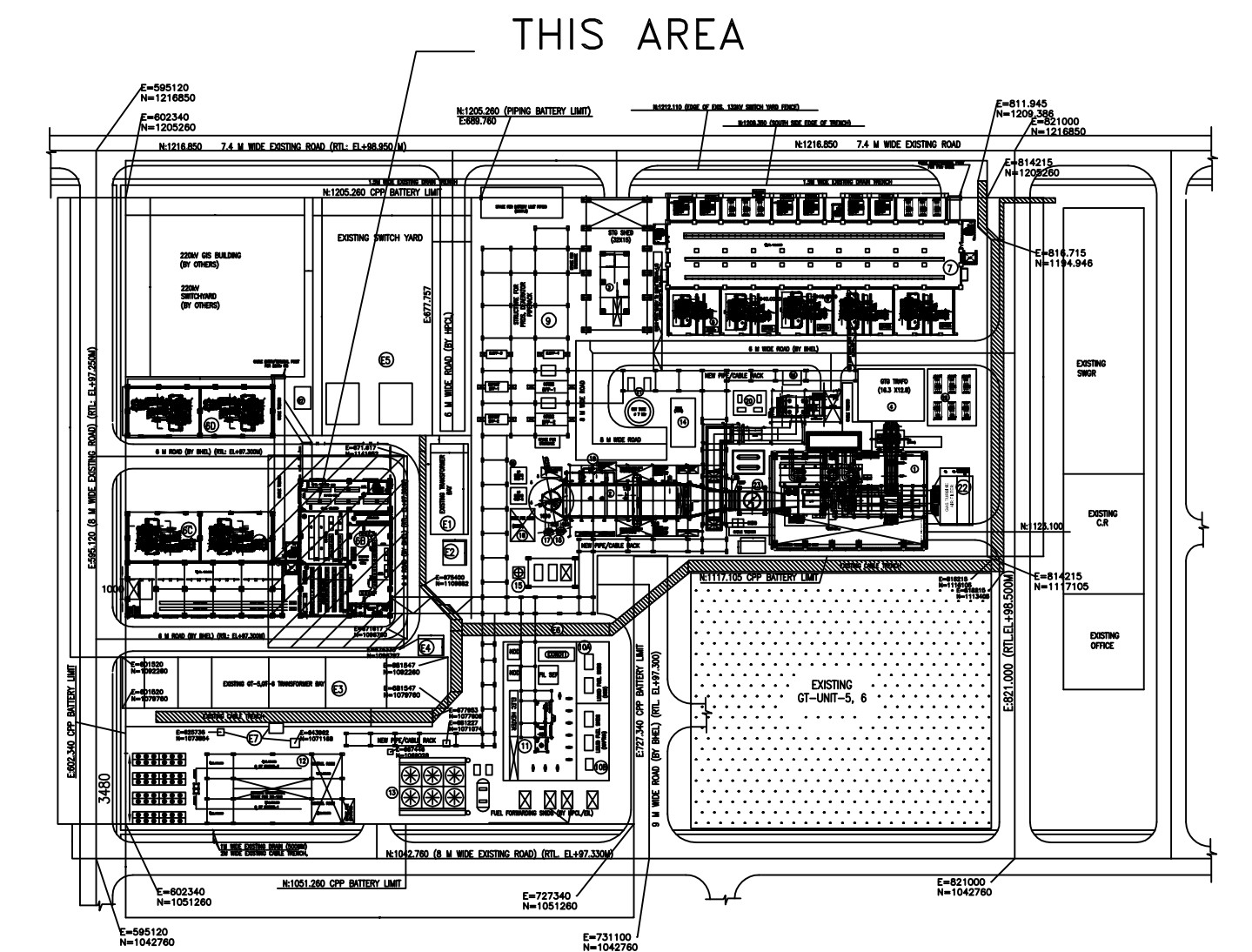
SH. 10 OF 03	DRG. NO PY-LE-0-M1048-121-01
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6 M WIDE ROAD



PROCESS CONTROL ROOM IN SS-93 BLDG @ 100.00M



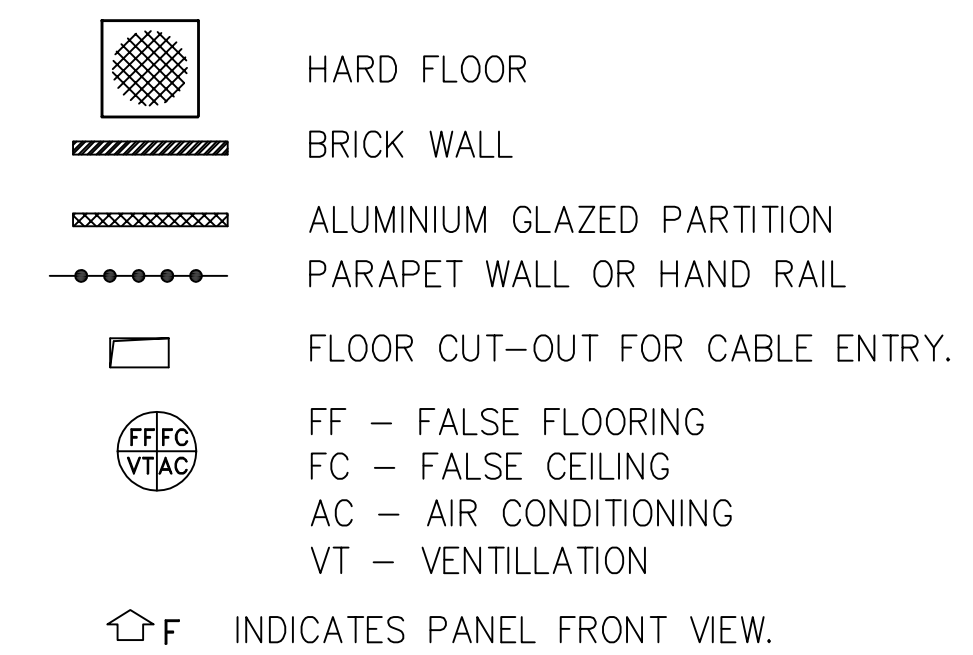
SS-93 BUILDING, SECTIONAL VIEW
SCALE:2:1

NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETER.
2. CLEAR HEIGHT OF THE CONTROL ROOM BETWEEN FALSE FLOOR AND FALSE CEILING SHALL BE 3.5 METRE (MIN)
3. THIS DRAWING IS ELABORATES THE LAYOUT OF VARIOUS PANELS/CONSOLES ARRANGEMENT ARCHITECTURAL DRAWING SHOWING PLANS, ELEVATIONS, SECTIONS, SCHEDULE / PROFILES OF DOORS / WINDOWS ETC., SHALL BE SHOWN IN CIVIL ARCHITECTURE DRAWING ISSUED BY CIVIL DISCIPLINE SEPARATELY.
4. FURNITURE (CONSOLES, TABLES, CHAIRS) FOR OPERATOR ROOM, ENGINEERING ROOM FOR ALL HM's, PRINTERS etc., SHALL BE PROVIDED BY DCS SUPPLIER AS PER FINAL CONTROL ROOM LAYOUT.
5. PANEL/EQUIPMENT COLOR SHADES IN CONTROL ROOM:-
OUTSIDE & INSIDE COLOR = RAL 7035.
6. ERECTION CONTRACTOR TO VERIFY PANEL DIMENSIONS / BASE FRAME DIMENSIONS wrt ACTUAL SUPPLY AT SITE, BEFORE FABRICATION OF FALSE FLOOR STOOL.

LEGEND

- D1 - SINGLE DOOR SIZE (1.0m WIDTH x 2.1M HEIGHT).
D2 - DOUBLE DOOR SIZE (1.5m WIDTH x 2.7M HEIGHT).
D3- DOUBLE DOOR SIZE (2.5m WIDTH x 2.7M HEIGHT).



CUSTOMER	 HINDUSTAN PETROLEUM CORPORATION LIMITED VISAKH REFINERY, VISHAKHAPATNAM
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CONSULTANT ENGINEERS INDIA LIMITED (EIL), NEW DELHI
EIL JOB NO : B016

PROJECT	75 MW CAPTIVE POWER PLANT (CPP) PACKAGE (1x Fr 6Fa GTG + 1 x 185 TPH HRSG + 1 x 15 MW BPTG) FOR "VISAKH REFINERY MODERNIZATION PROJECT (VRMP)"
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		BHARAT HEAVY ELECTRICALS LTD.		NAME		SIGN.	DATE	NO. OF
		HYDERABAD		DRN.	DSTS	-SD-	27.03.18	VAR.
				CHD.	KAMAL	-SD-	27.03.18	-N.A.-
				APPD.	PRAKASH	-SD-	27.03.18	
DEPT. F&SD	UNTL. DIMS. GR.		SCALE	WEIGHT	REF. TO ASSY. DRG.		ITEM NO.	NO. OF
CODE 450	CMF		-N.A.-	-N.A.-	-N.A.-	-N.A.-	ITEMS	-N.A.-
TITLE				CARD CODE	DRAWING NO.			REV.
PROCESS CONTROL ROOM LAYOUT				N.A.	PY-LE-0-M1048-121-01			01
SS-93 BLDG @ 100.00 MTS.				SHT. No 01		NO. OF SHT. 03		

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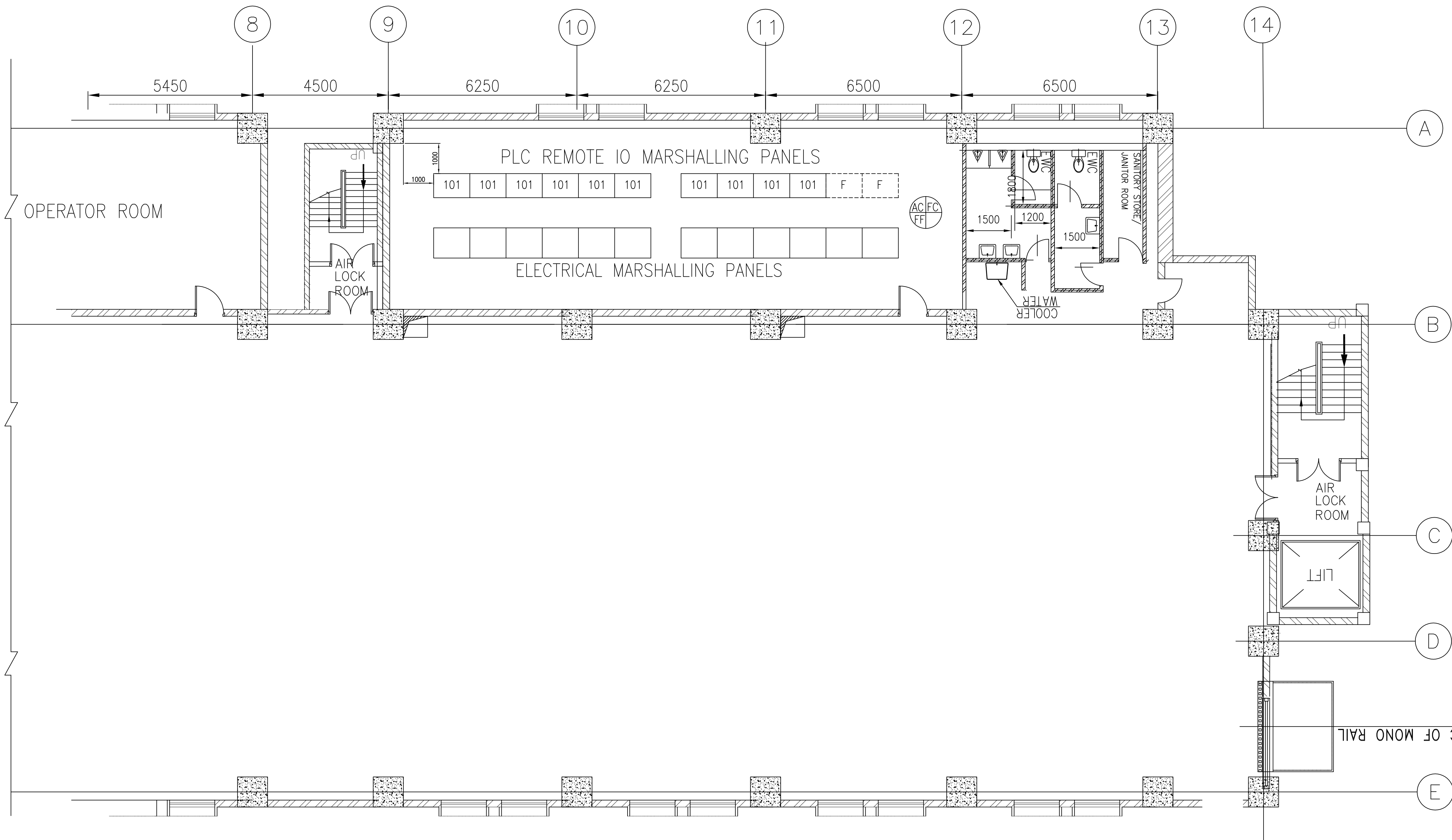
C3	C4	C5
GENERAL DIMENSIONAL LIMITS, FITS & TOLERANCES AS PER HY0230261		

COMPUTER FILE NAME

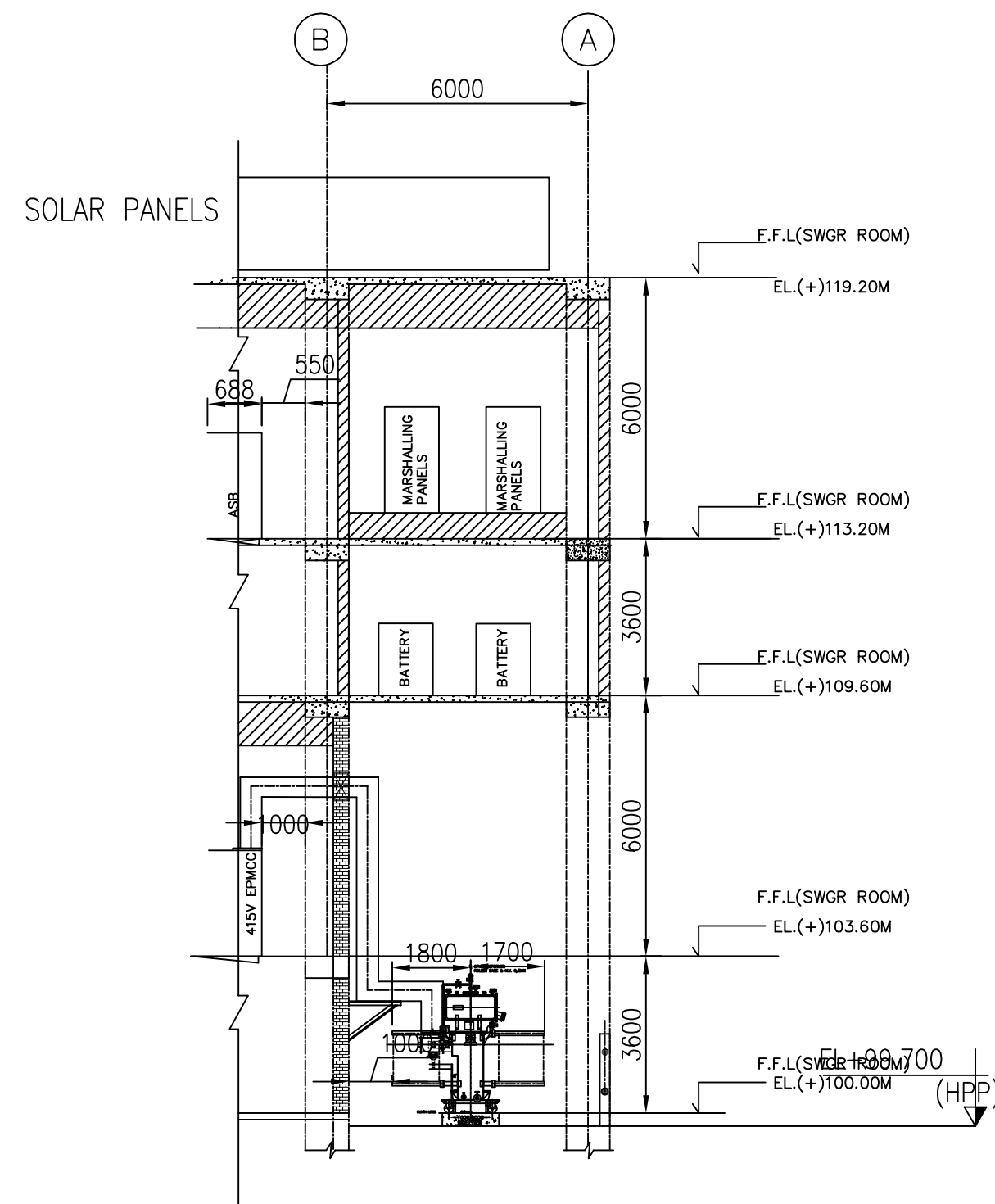
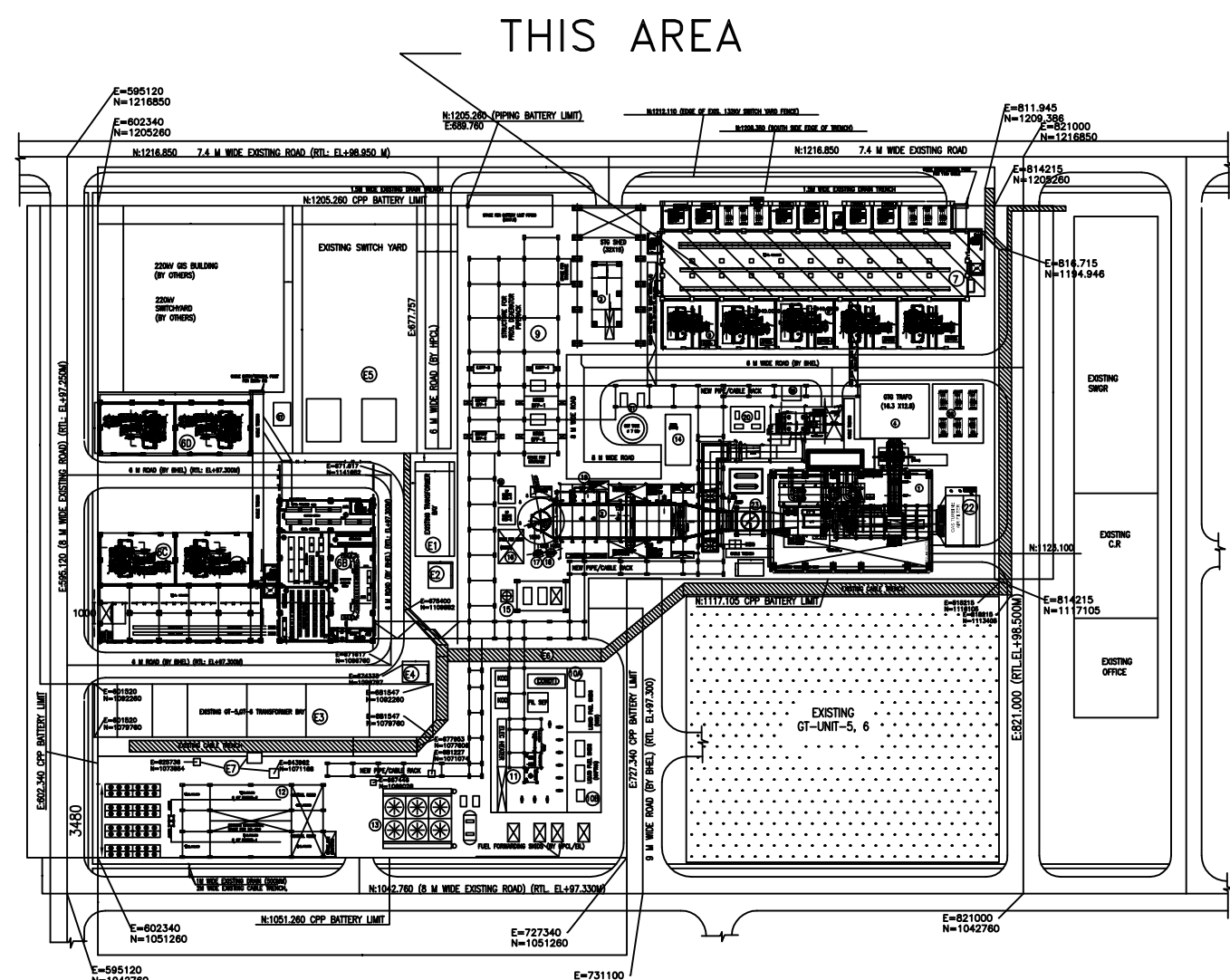
CF. DRG. NO.

INVENTORY NO

ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	SUNIL
CHD/APPD			CHD/APPD			CHD/APPD			CHD/APPD			CHD/APPD			CHD/APPD			CHD/APPD	SONALIKA
	ZONE			ZONE			ZONE			ZONE			ZONE			ZONE			EIL COMMENT DT. 17.04.18
1			2			3			4			5			6			7	



PLAN AT EL.113.200 M LEVEL FOR SS-94 BUILDING



1. ALL DIMENSIONS ARE IN MILLIMETER.
2. CLEAR HEIGHT OF THE CONTROL ROOM BETWEEN FALSE FLOOR AND FALSE CEILING SHALL BE 3.5 METRE (MIN)
3. THIS DRAWING IS ELABORATES THE LAYOUT OF VARIOUS PANELS/CONSOLES ARRANGEMENT ARCHITECTURAL DRAWING SHOWING PLANS, ELEVATIONS, SECTIONS, SCHEDULE / PROFILES OF DOORS / WINDOWS ETC., SHALL BE SHOWN IN CIVIL ARCHITECTURE DRAWING ISSUED BY CIVIL DISCIPLINE SEPARATELY.
4. FURNITURE (CONSOLES, TABLES, CHAIRS) FOR OPERATOR ROOM, ENGINEERING ROOM FOR ALL HM's, PRINTERS etc, SHALL BE PROVIDED BY DCS SUPPLIER AS PER FINAL CONTROL ROOM LAYOUT.
5. PANEL/EQUIPMENT COLOR SHADES IN CONTROL ROOM:-
OUTSIDE & INSIDE COLOR = RAL 7035.
6. ERECTION CONTRACTOR TO VERIFY PANEL DIMENSIONS / BASE FRAME DIMENSIONS wrt ACTUAL SUPPLY AT SITE, BEFORE FABRICATION OF FALSE FLOOR STUOL.

D1 - SINGLE DOOR SIZE (1.0m WIDTH x 2.1M HEIGHT).
D2 - DOUBLE DOOR SIZE (1.5m WIDTH x 2.7M HEIGHT).
D3- DOUBLE DOOR SIZE (2.5m WIDTH x 2.7M HEIGHT).

	HARD FLOOR
	BRICK WALL
	ALUMINIUM GLAZED PARTITION
	PARAPET WALL OR HAND RAIL
	FLOOR CUT-OUT FOR CABLE ENTRY
	FF - FALSE FLOORING
	FC - FALSE CEILING
	AC - AIR CONDITIONING
	VT - VENTILATION
	INDICATES PANEL FRONT VIEW.

CUSTOMER  HINDUSTAN PETROLEUM CORPORATION LIMITED
VISAKH REFINERY, VISHAKHAPATNAM

CONSULTANT ENGINEERS INDIA LIMITED (EIL), NEW DELHI
EIL JOB NO : B016

PROJECT	75 MW CAPTIVE POWER PLANT (CPP) PACKAGE (1x Fr 6Fa GTG + 1 x 185 TPH HRSG + 1 x 15 MW BPTG) FOR "VISAKH REFINERY MODERNIZATION PROJECT (VRMP)"
---------	--

	BHARAT HEAVY ELECTRICALS LTD.					NO.OF VAR.
	HYDERABAD		NAME	SIGN.	DATE	
	DRN.	DSTS	—SD—	27.03.18		
	CHD.	KAMAL	—SD—	27.03.18		
	APPD.	PRAKASH	—SD—	27.03.18		—N.A.—

DEPT. PE&SD	UNCL. DIMS. GR. G/M/F		SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEMS
CODE 450				-N-A-	-N-A-	-N-A-	-N-A-
TITLE				CARD CODE	DRAWING NO.		REV.
REMOTE I/O PANEL ROOM SS-94 BLDG @ 113.20 MTS.				N.A.	PY-LE-0-M1048-121-01		01
				SHT. No 02		NO. OF SHT. 03	

GENERAL DIMENSIONAL LIMITS, FITS & TOLERANCES AS PER HY0230261

TABLE-3 INSTRUMENT RACK ROOM

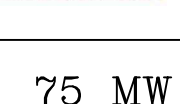
SNo.	DESCRIPTION	QTY (NO's)	PANEL DIMENSION (WxDxH) in mm / panel	BASE FRAME DIM. (WxD) in mm /panel	SCOPE	WEIGHT (KG's/pnl)	Ref.DWG.No.,REV No.
50	DCS SYSTEM PANELS	2	800x800x2400	750x750	BHEL-PE&SD	500	
51	DCS MARSHALLING PANELS	10	1200x800x2400	1150x750	BHEL-PE&SD	900	
52	PDB PANELS	1	800x800x2400	750X750	BHEL-PE&SD	500	
53	PLC SYSTEM PANELS	8	800x800x2400	750x750	BHEL-PE&SD	500	
54	PLC MARSHALLING PANELS	26	1200x800x2400	1150x750	BHEL-PE&SD	900	
55	INTENTIONALLY BLANK						
56	DCS NETWORK PANELS	2	800x800x2400	750X750	BHEL-PE&SD	500	
57	MASTER CLOCK PANEL	1	800x800x2400	750X750	BHEL-PE&SD	500	
58	STG TURBINE CONTROL PANEL	1	1200x800x2400	1150X750	BHEL-HPEP	500	
59	BFP VMS PANELs	3	800x800x2400	750X750	BHEL-EDN	400	
60	THYRISTOR CONTROL PANELs	3	1000x1000x2400	950X950	BHEL-PE&SD	500	
61	PA SYSTEM PANEL [DELETED]	1			HPCL		
62	MARK-VIe PANEL	1	6000x800x2400	5950X750	BHEL-EDN(GE)	500	
63	MARK-VIe NETWORK PANELs	2	800x800x2400	750X750	BHEL-EDN(GE)	500	
64	OSM SERVER PANEL	1	800x800x2400	750X750	BHEL-HPEP(GE)	500	
65	HC/NAPTHA LEAK MONITORING PANEL	1	800x800x2400	750X750	BHEL-HPEP(GE)	500	
66	UV LEAK MONITORING PANEL	1	800x800x2400	750X750	BHEL-HPEP(GE)	500	
67	GT VMS CONTROL PANEL	1	800x800x2400	750X750	BHEL-HPEP(GE)	500	
68	GT UV MONITORING PANEL	1	800x800x2400	750X750	BHEL-HPEP(GE)	500	
69	GT AUXILIARY PANEL	1	800x800x2400	750X750	BHEL-HPEP(GE)	500	
70	CCTV SYSTEM PANEL	1	1200x800x2400	750X750	HPCL	500	
71	INERT GAS PANEL	1	1200x800x2400	3000x750	BHEL-PE&SD	1600	
72							
73							

TABLE-4 UPS ROOM

SNo.	DESCRIPTION	QTY (NO's)	DIMENSIONS (WxDxH) in mm / panel	BASE FRAME DIM. (WxD) in mm / panel	SCOPE	WEIGHT (KG's/panl)	Ref.DWG.No.,REV No.
90	PLANT UPS SYSTEM	1	6000x1000x2340	5950x950	BHEL-EDN	2000	
91	UPS ACDB-1	1	3000x800x2000	2950x750	BHEL-EDN	900	
92	UPS ACDB-2	1	3000x800x2000	2950x750	BHEL-EDN	900	
93							
94							

SNo.	DESCRIPTION	QTY (NO's)	DIMENSIONS (WxDxH) in mm / panel	BASE FRAME DIM. (WxD) in mm /panel	SCOPE	WEIGHT (KG's/panl)	Ref.DWG.No.,REV No.
101	PLC REMOTE IO MARSHALLING PANELS	10	1200x800x2400	1150x750	BHEL-PE&SD	900	
102							
103							
104							
105							

[illegible]

CUSTOMER  HINDUSTAN PETROLEUM CORPORATION LIMITED VISAKH REFINERY, VISHAKHAPATNAM					
CONSULTANT  ENGINEERS INDIA LIMITED (EIL), NEW DELHI EIL JOB NO. : B016					
PROJECT 75 MW CAPTIVE POWER PLANT (CPP) PACKAGE (1x FR 6Fa GTG + 1 x 185 TPH HRSG + 1 15 MW BPTG) FOR "VISAKH REFINERY MODERNIZATION PROJECT (VRMP)"					
 BHARAT HEAVY ELECTRICALS LTD. HYDERABAD	NAME	SIGN.	DATE	NO.OF VAR.	
	DRN.	DS15	-SD-	27.03.18	
	CHD.	DS15	-SD-	27.03.18	-N.A.-
	APPD.	DS15	-SD-	27.03.18	
DEPT. PEASD CODE. 450	UNTOL. DIMS. GR. <i>cm/m</i>		SCALE	WEIGHT (KG) -NA-	REF. TO ASSY. DRG. -NA-
					ITEM NO. -N.A.-
					NO.OF ITEMS -N.A.-
TITLE CONTROL ROOM LAYOUT	CARD CODE N.A.	DRAWING NO. PY-LE-0-M1048-121-01			REV. 01
		SHT. NO 03	NO. OF SHT. 03		