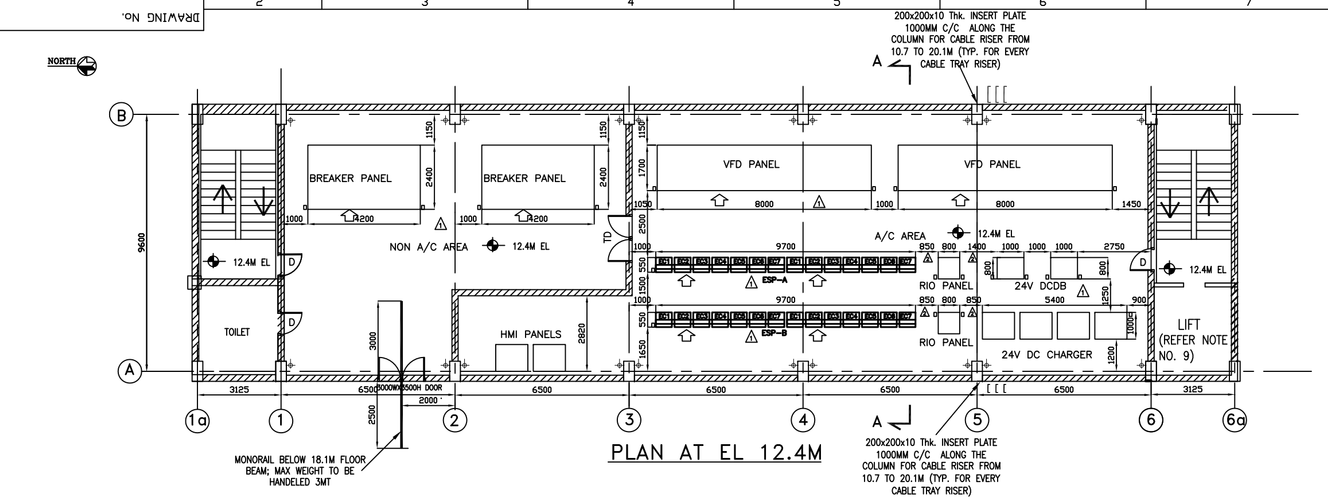
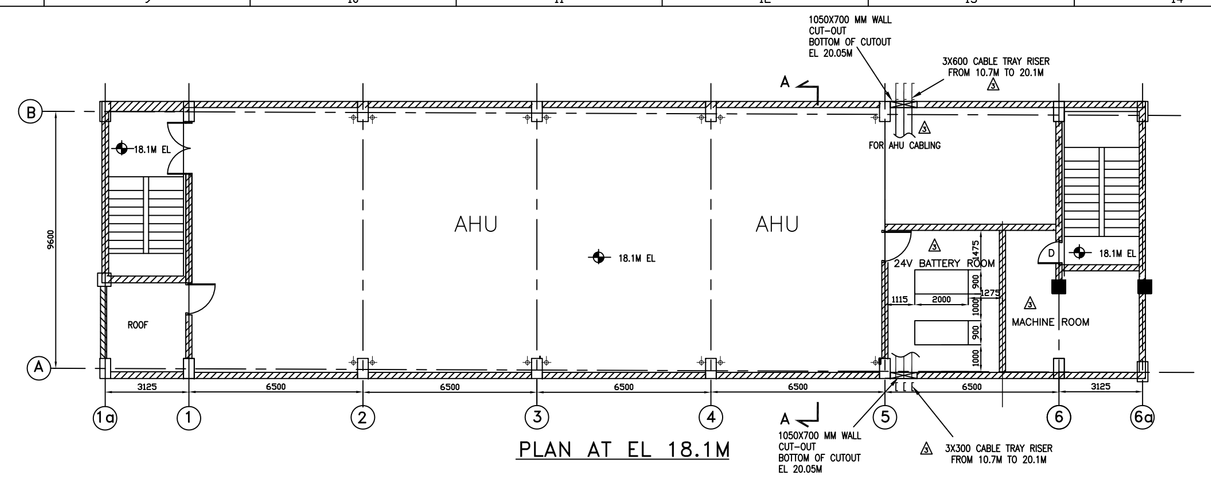
FIRST ANGLE PROJECTION

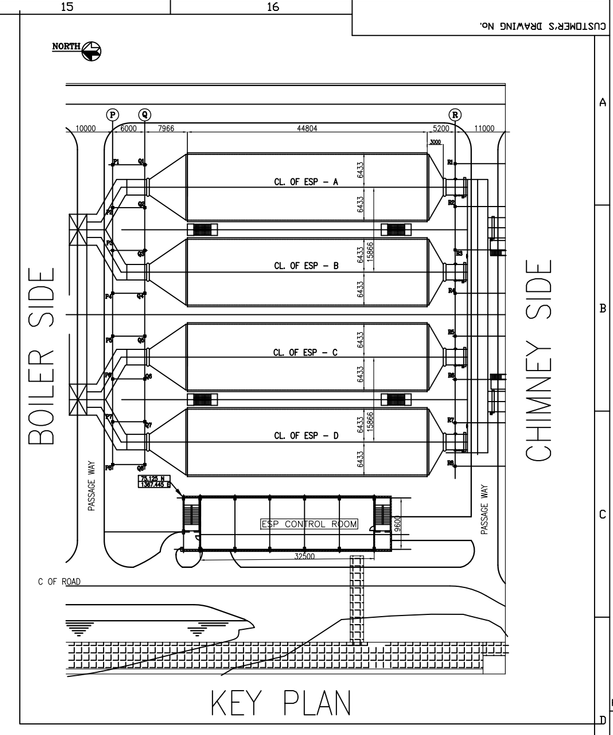
ALL DIMENSIONS ARE IN MM



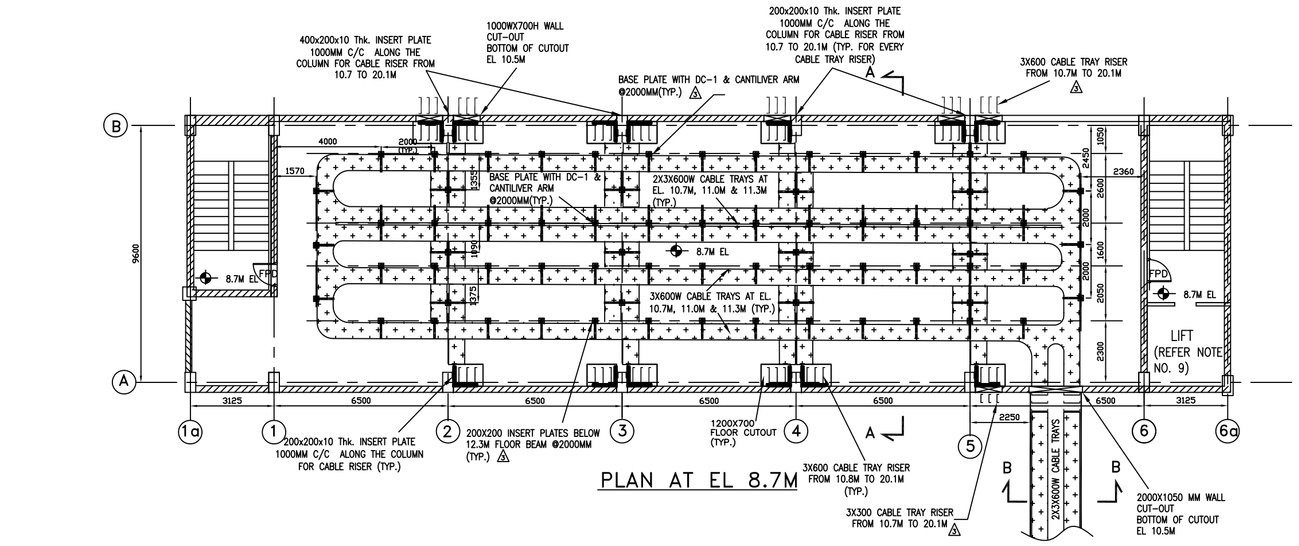
PLAN AT EL 12.4M



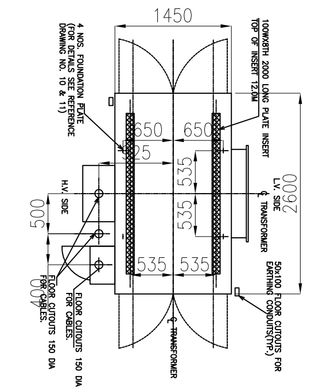
PLAN AT EL 18.1M



KEY PLAN



PLAN AT EL 8.7M



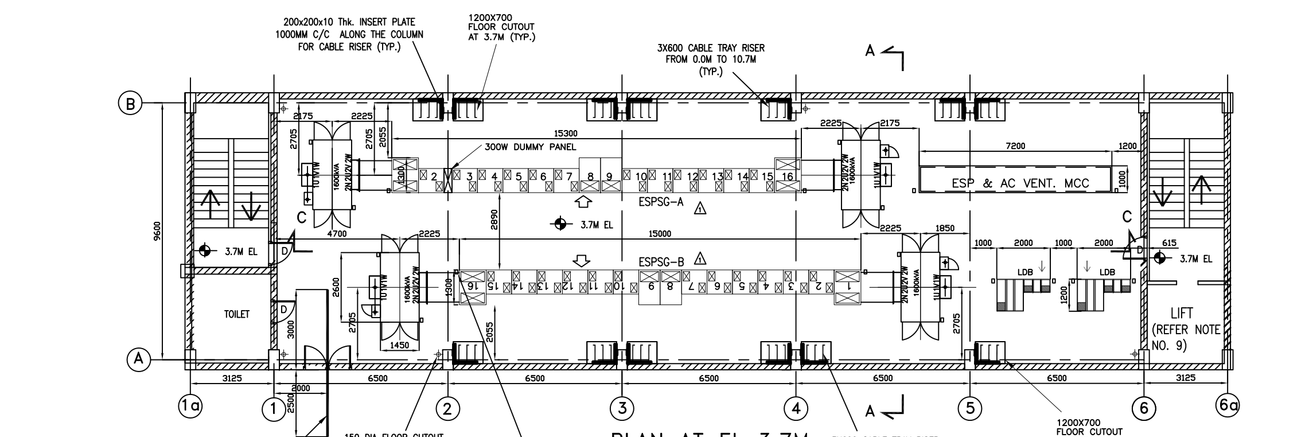
TYPICAL FOUNDATION PLAN FOR DRY TYPE TRANSFORMER

TABLE-I

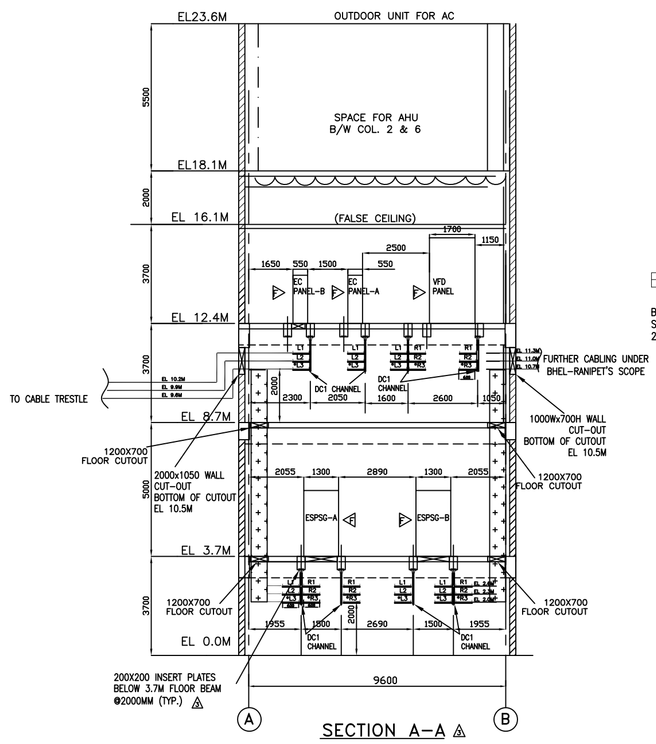
S.NO	EQUIPMENT	SOURCE
1	ESP SG	BHEL/RANIPET
2	EC	BHEL/RANIPET
3	DT TRANSFORMERS	BHEL/JHANSI.
4	NSP BUSDUCT	BHEL/CBU
5	ESP AC & VENT MCC	BHEL/CBU
6	LDB	PEM/ELECT.
7	RIO PANEL	BHEL/EDN
8	BREAKER PANEL	BHEL/EDN
9	VFD PANEL	BHEL/EDN
10	HMI PANEL	BHEL/EDN
11	24V DCDB & BATTERY	BHEL/EDN
12	24V CHARGER	BHEL/EDN

LEGEND

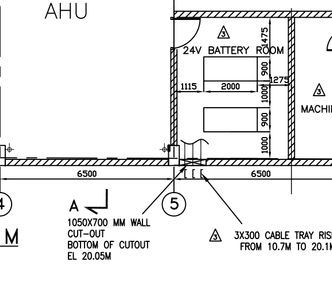
- OPERATING FRONT OF THE PANEL
- BRICK WALL
- CABLE TRAYS
- CABLE TRAYS
- TD — DOUBLE LEAF DOOR WITH TRANSOM ARRANGEMENT
- D — SINGLE LEAF DOOR (1000Wx2100H)
- FPD — FIRE PROOF DOOR
- PERFORATED TYPE CABLE TRAY
- CABLE TRAY RISER



PLAN AT EL 3.7M



SECTION A-A



SECTION B-B

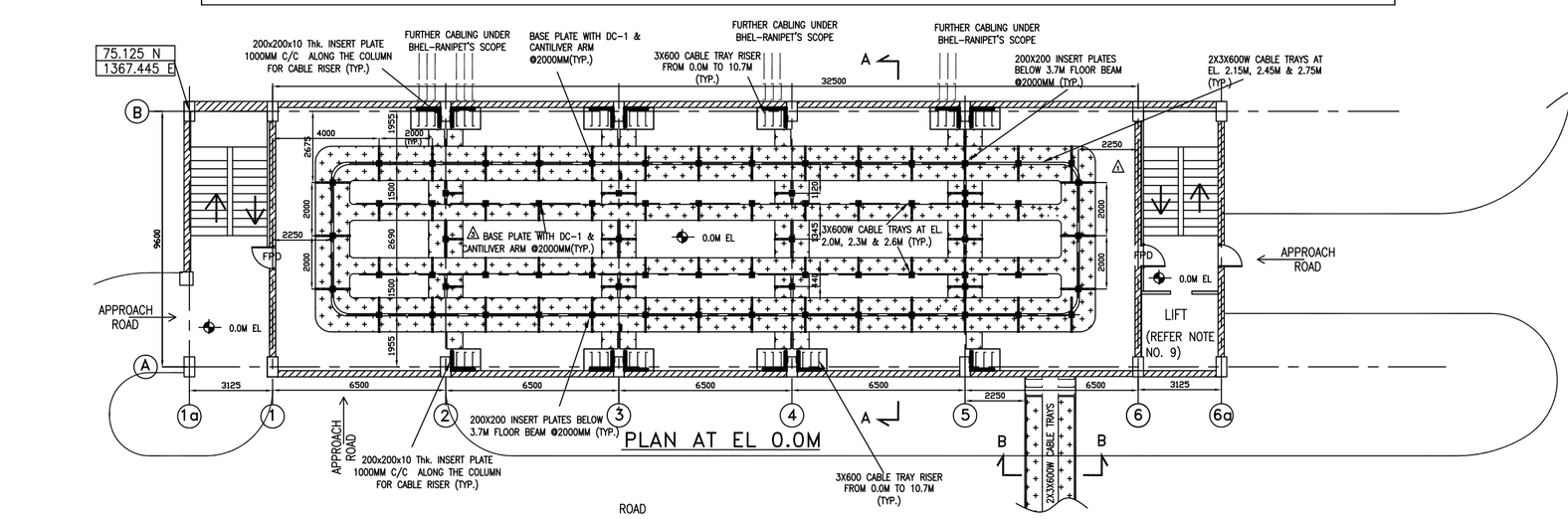
REFERENCE DRAWINGS :

S. NO.	TITLE	DRAWING NO.	SOURCE AGENCY
1.	PLOT PLAN	PE-DG-427-100-M001	PEM/ MPL
2.	MAIN PLANT EQUIPMENT LAYOUT PLAN	PE-DG-427-100-M002	PEM/ MPL
3	CROSS SECTION OF MAIN PLANT	PE-DG-427-100-M007	PEM/ MPL
△ 4.	RECOMMENDED CONTROL ROOM LAYOUT FOR ESP	1-00-114-30136	BHEL/ RANIPET
5.	ELECTRICAL SINGLE LINE DIAGRAM	PE-DG-427-565-E001	PEM/ ELECT
6.	CABLE ERECTION PHILOSOPHY	PE-DG-427-507-E004	BHEL/ ELECT
7.	TYPICAL DETAILS OF CABLE TRAYS & ACCESSORIES	PE-DG-427-507-E005	BHEL/ ELECT
8.	INSTALLATION DETAILS FOR CABLE TRAY SUPPORT SYSTEM	PE-DG-427-507-E006	BHEL/ ELECT
9.	DESIGN PHILOSOPHY FOR ELECTRICAL EQUIPMENTS LAYOUT	PE-DC-427-507-E101	BHEL/ ELECT
10.	OGA OF 1000KVA TRANSFORMER	XXXXX	BHEL/ JHANSI
11.	FOUNDATION PLAN FOR 1000KVA TRANSFORMER	XXXXX	BHEL/ JHANSI

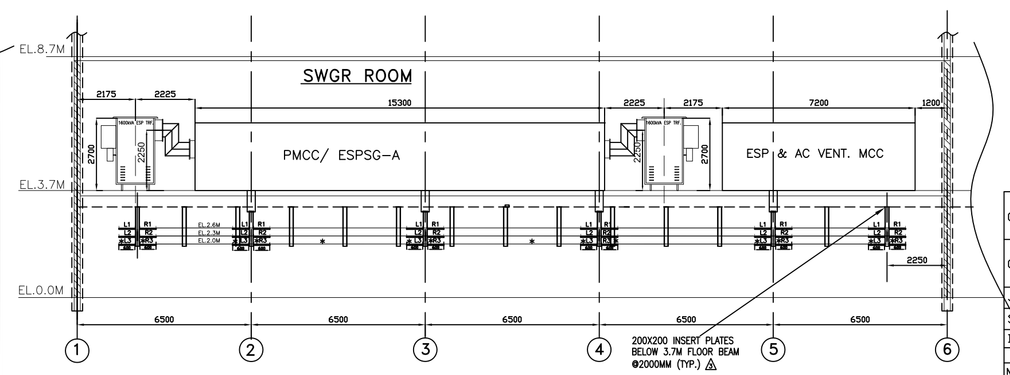
NOTES :

1. ALL ELEVATIONS MARKED ARE W.R.T. T.G. HALL FINISHED FLOOR ELEVATION OF 0.0 M. WHICH CORRESPONDS TO RL +219.0M.
2. ALL DIMENSIONS ARE IN MM AND ELEVATIONS IN METERS UNLESS STATED OTHERWISE.
3. THE PANEL DIMENSIONS INDICATED IN DRAWING ARE TENTATIVE AND ARE SHOWN FOR DEVELOPING CONCEPTUAL LAYOUT AND SHALL BE UPDATED DURING DETAILED ENGINEERING.
4. THIS DRAWING IS TO BE REFERRED FOR DETAILS OF ELECTRICAL EQUIPMENT AND CABLING LAYOUT ONLY. LAYOUT SHOWN FOR FACILITIES SUCH AS AC & VENTILATION SYSTEM IS INDICATIVE & FOR INTERFACE PURPOSE. FOR EXACT LAYOUT OF OTHER SYSTEMS, RELEVANT DISCIPLINE DRAWINGS SHALL BE REFERRED.
5. ALL AREAS SHOWN IN THIS DRAWING ARE NON A/C UNLESS STATED OTHERWISE.
6. CABLE TRAYS & SUPPORTS INSTALLATION SHALL BE DONE AS PER REF. DRG. NO. 6, 7 & 8.
7. BOTTOM MOST/OUTERMOST TRAY OF ALL RUNS SHALL BE PERFORATED TYPE.
8. BOTH SWITCHGEAR ROOM & CABLE VAULT ROOM SHALL BE VENTILATED.
9. SHAFT SIZE FOR PASSENGER ELEVATOR/ LIFT SHALL BE 1900MM (ENTRANCE) X 2100MM & PIT DEPTH SHALL BE (-)1.6M.

CL. OF ESP - D



PLAN AT EL 0.0M



SECTION C-C

REV	DATE	ALTD	CHD	APPD
3	02/11/16			

1. BATTERY ROOM AT EL. 18.1M UPDATED AS PER CIVIL ARCHITECTURAL DWG.
2. BOTTOM SUPPORT OF CABLE TRAYS IN CABLE VAULTS REMOVED TO PROVIDE FREE ACCESS BELOW CABLE TRAYS AS PER APPROVED DWG. NO. PE-DG-427-507-E006.

REV	DATE	ALTD	CHD	APPD
2	02/11/16	AnA	SBH	SL

1. REVISED AS PER CUSTOMER COMMENTS DATED 07.10.16.
2. CHANGES ARE MARKED AS △

REV	DATE	ALTD	CHD	APPD
1	04/10/16	AnA	SBH	SL

1. REVISED AS PER CUSTOMER COMMENTS DATED 23.09.16 AND REVISED RECOMMENDED LAYOUT RECEIVED FROM BHEL-RANIPET.
2. CHANGES ARE MARKED AS △

CUSTOMER	NTPCL — NTPC-SAIL POWER COMPANY (P) LIMITED
CUSTOMER'S CONSULTANT	(मेकॉन लिमिटेड) MECON LIMITED
JOB No. 427	ROURKELA PP-II EXPANSION PROJECT (1X250 MW)
STATUS CONTRACT	
DISTRIBUTION	

BHARAT HEAVY ELECTRICALS LTD
POWER SECTOR
PROJECT ENGINEERING MANAGEMENT
NOIDA

DEPT CODE		NAME	SIGN	DATE
E	DRN	ShM/AnA	-SD-	13.09.2016
	DESN	ShM/AnA	-SD-	13.09.2016
	CHD	SBH	-SD-	13.09.2016
	APPD	SL	-SD-	13.09.2016

TITLE: EQUIPMENT AND CABLE TRAY LAYOUT IN ESP CONTROL ROOM

MPL	C	MSE	I	MAX	E	DEPT.	SCALE 1:150	DRAWING No.
						SIGN		PE-DG-427-100-E008
						DATE		SHEET 01 OF 01 REV 3

SIZE-A0

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COMPUTER FILE NAME:

DRAWING No.

CUSTOMER'S DRAWING No.