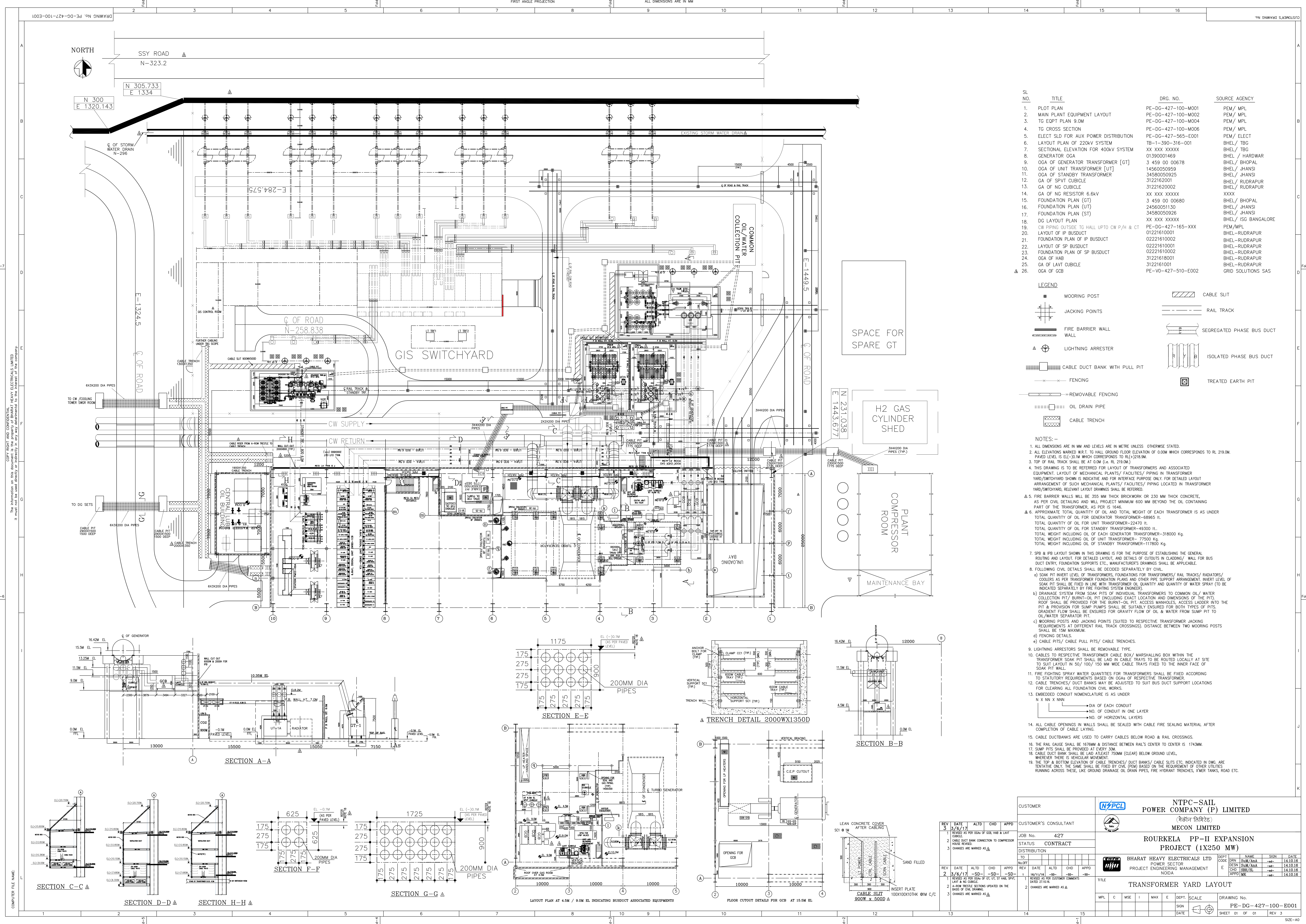
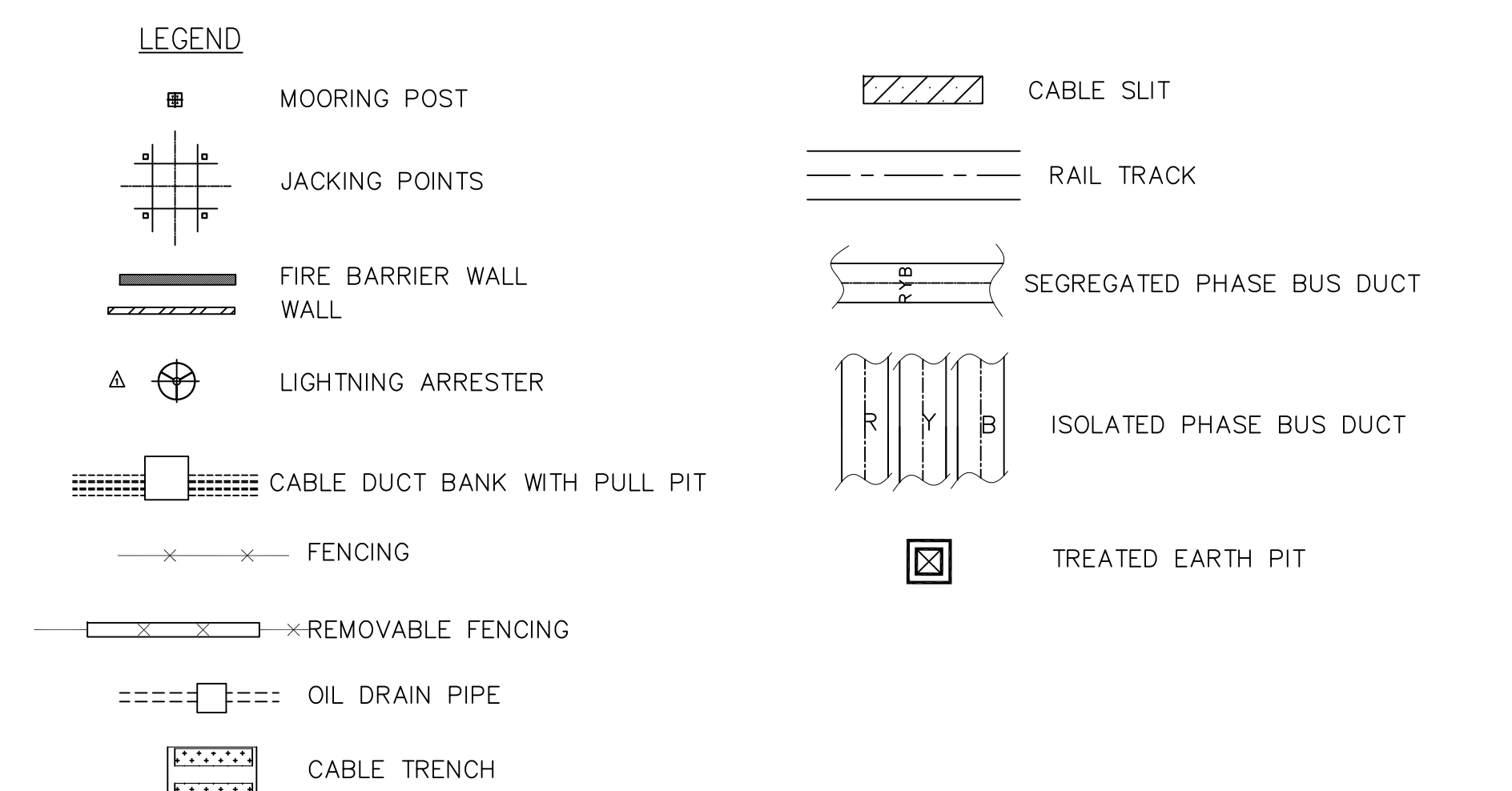




SL NO.	TITLE	DRG. NO.	SOURCE AGENCY
1.	PLOT PLAN	PE-DG-427-100-M001	PEM/ MPL
2.	MAIN PLANT EQUIPMENT LAYOUT	PE-DG-427-100-M002	PEM/ MPL
3.	TG EQPT PLAN 9.0M	PE-DG-427-100-M004	PEM/ MPL
4.	TG CROSS SECTION	PE-DG-427-100-M006	PEM/ MPL
5.	ELECT SLD FOR AUX POWER DISTRIBUTION	PE-DG-427-565-E001	PEM/ ELECT
6.	LAYOUT PLAN OF 220KV SYSTEM	TB-1-390-316-001	BHEL/ TBG
7.	SECTIONAL ELEVATION FOR 400KV SYSTEM	XX XXX XXXXX	BHEL/ TBG
8.	GENERATOR DGA	01390001468	BHEL/ BHOPAL
9.	OGA OF GENERATOR TRANSFORMER [GT]	3 459 00 00678	BHEL/ BHOPAL
10.	OGA OF UNIT TRANSFORMER [UT]	34580050925	BHEL/ JHANSI
11.	OGA OF STANDBY TRANSFORMER	34580050925	BHEL/ JHANSI
12.	GA OF SPVT CUBICLE	3122162001	BHEL/ RUDRAPUR
13.	GA OF NG CUBICLE	3122162002	BHEL/ RUDRAPUR
14.	GA OF NG RESISTOR 6.6kV	XX XXX XXXXX	XXXX
15.	FOUNDATION PLAN (GT)	3 459 00 00680	BHEL/ BHOPAL
16.	FOUNDATION PLAN (UT)	24560051130	BHEL/ JHANSI
17.	FOUNDATION PLAN (ST)	34580050928	BHEL/ JHANSI
18.	DG LAYOUT PLAN	XX XXX XXXXX	BHEL/ ISO BANGALORE
19.	CW PIPING OUTSIDE TO HALL UPTO CW P/H & CT	PE-DG-427-165-XXX	PEM/WPL
20.	LAYOUT OF IP BUSDUCT	01221610001	BHEL-RUDRAPUR
21.	FOUNDATION PLAN OF IP BUSDUCT	02221610002	BHEL-RUDRAPUR
22.	LAYOUT OF SP BUSDUCT	02221610001	BHEL-RUDRAPUR
23.	FOUNDATION PLAN OF SP BUSDUCT	02221610002	BHEL-RUDRAPUR
24.	OGA OF HAB	31221618001	BHEL-RUDRAPUR
25.	GA OF LAVT CUBICLE	3122161001	BHEL-RUDRAPUR
26.	OGA OF GCB	PE-V0-427-510-E002	GRID SOLUTIONS SAS



- NOTES:-**
- ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN METRE UNLESS OTHERWISE STATED.
 - ALL ELEVATIONS MARKED W.R.T. TO HALL GROUND FLOOR ELEVATION OF 0.00M WHICH CORRESPONDS TO RL+219.0M. PAVED LEVEL IS EL(-)0.1M WHICH CORRESPONDS TO RL+218.9M.
 - TOP OF RAIL TRACK SHALL BE AT 0.0M (i.e. RL 219.0M).
 - THIS DRAWING IS TO BE REFERRED FOR LAYOUT OF TRANSFORMERS AND ASSOCIATED EQUIPMENT. LAYOUT OF MECHANICAL PLANTS/ FACILITIES/ PIPING IN TRANSFORMER YARD/SWITCHYARD SHOWN IS INDICATIVE AND FOR INTERFACE PURPOSE ONLY. FOR DETAILED LAYOUT ARRANGEMENT OF SUCH MECHANICAL PLANTS/ FACILITIES/ PIPING LOCATED IN TRANSFORMER YARD/SWITCHYARD, RELEVANT LAYOUT DRAWINGS SHALL BE REFERRED.
 - FIRE BARRIER WALLS WILL BE 355 MM THICK BRICKWORK OR 230 MM THICK CONCRETE, AS PER CIVIL DETAILING AND WILL PROJECT MINIMUM 600 MM BEYOND THE OIL CONTAINING PART OF THE TRANSFORMER, AS PER IS 1646.
 - APPROXIMATE TOTAL QUANTITY OF OIL AND TOTAL WEIGHT OF EACH TRANSFORMER IS AS UNDER:
 - TOTAL QUANTITY OF OIL FOR GENERATOR TRANSFORMER-68965 KL.
 - TOTAL QUANTITY OF OIL FOR UNIT TRANSFORMER-22470 KL.
 - TOTAL WEIGHT INCLUDING OIL OF EACH GENERATOR TRANSFORMER-318000 Kg.
 - TOTAL WEIGHT INCLUDING OIL OF UNIT TRANSFORMER- 77500 Kg.
 - TOTAL WEIGHT INCLUDING OIL OF STANDBY TRANSFORMER-117800 Kg.
 - SPB & IPB LAYOUT SHOWN IN THIS DRAWING IS FOR THE PURPOSE OF ESTABLISHING THE GENERAL ROUTING AND LAYOUT. FOR DETAILED LAYOUT, FOR DETAILS OF CLOUTING/ WALL FOR BUS DUCT ENTRY, FOUNDATION SUPPORTS ETC., MANUFACTURER'S DRAWINGS SHALL BE APPLICABLE.
 - FOLLOWING CIVIL DETAILS SHALL BE DECIDED SEPARATELY BY CIVIL:
 - a) SOAK PIT INVERT LEVEL OF TRANSFORMERS, FOUNDATIONS FOR TRANSFORMERS/ RAIL TRACKS/ RADIATORS/ COOLERS AS PER TRANSFORMER FOUNDATION PLANS AND OTHER PIPE SUPPORT ARRANGEMENT. INVERT LEVEL OF SOAK PIT SHALL BE FIXED IN LINE WITH TRANSFORMER OIL QUANTITY AND QUANTITY OF WATER SPRAY (TO BE INDICATED SEPARATELY BY FIRE FIGHTING SYSTEM ENGINEER).
 - b) DRAINAGE SYSTEM FROM SOAK PITS OF INDIVIDUAL TRANSFORMERS TO COMMON OIL/ WATER COLLECTION PIT/ BURNT-OIL PIT (INCLUDING EXACT LOCATION AND DIMENSIONS OF THE PIT). ROOF SHALL BE PROVIDED FOR THE BURNT-OIL PIT. ACCESS MANHOLES, ACCESS LADDER INTO THE PIT & PROVISION FOR SUMP PUMPS SHALL BE SUITABLY ENSURED FOR BOTH TYPES OF PITS. GRADIENT FLOW SHALL BE ENSURED FOR GRAVITY FLOW OF OIL & WATER FROM SUMP PIT TO OIL/WATER SEPARATOR PIT.
 - c) MOORING POSTS AND JACKING POINTS (SUITED TO RESPECTIVE TRANSFORMER JACKING REQUIREMENTS AT DIFFERENT RAIL TRACK CROSSINGS). DISTANCE BETWEEN TWO MOORING POSTS SHALL BE 15M MAXIMUM.
 - d) FENCING DETAILS.
 - e) CABLE PITS/ CABLE PULL PITS/ CABLE TRENCHES.
 - LIGHTNING ARRESTORS SHALL BE REMOVABLE TYPE.
 - CABLES TO RESPECTIVE TRANSFORMER CABLE BOX/ MARSHALLING BOX WITHIN THE TRANSFORMER SOAK PIT SHALL BE LAID IN CABLE TRAYS TO BE ROUTED LOCALLY AT SITE TO SUIT LAYOUT IN 50/ 100/ 150 MM WIDE CABLE TRAYS FIXED TO THE INNER FACE OF SOAK PIT WALL.
 - FIRE FIGHTING SPRAY WATER QUANTITIES FOR TRANSFORMERS SHALL BE FIXED ACCORDING TO STATUTORY REQUIREMENTS BASED ON OGAs OF RESPECTIVE TRANSFORMER.
 - CABLE TRENCHES/ DUCT BANKS MAY BE ADJUSTED TO SUIT BUS DUCT SUPPORT LOCATIONS FOR CLEARING ALL FOUNDATION CIVIL WORKS.
 - EMBEDDED CONDUIT NOMENCLATURE IS AS UNDER:
 - N X NN X NN
 - DIA OF EACH CONDUIT
 - NO. OF CONDUIT IN ONE LAYER
 - NO. OF HORIZONTAL LAYERS
 - ALL CABLE OPENINGS IN WALLS SHALL BE SEALED WITH CABLE FIRE SEALING MATERIAL AFTER COMPLETION OF CABLE LAYING.
 - CABLE DUCTBANKS ARE USED TO CARRY CABLES BELOW ROAD & RAIL CROSSINGS.
 - THE RAIL GAUGE SHALL BE 1676MM & DISTANCE BETWEEN RAIL'S CENTER TO CENTER IS 1743MM.
 - SUMP PITS SHALL BE PROVIDED AT EVERY 30M.
 - CABLE DUCT BANK SHALL BE LAID AT LEAST 750MM (CLEAR) BELOW GROUND LEVEL, WHEREVER THERE IS VEHICULAR MOVEMENT.
 - THE TOP & BOTTOM ELEVATION OF CABLE TRENCHES/ DUCT BANKS/ CABLE SITS ETC. INDICATED IN DRG. ARE TENTATIVE ONLY. THE SAME SHALL BE FIXED BY CIVIL (PEM) BASED ON THE REQUIREMENT OF OTHER UTILITIES RUNNING ACROSS THESE, LIKE GROUND DRAINAGE, OIL DRAIN PIPES, FIRE HYDRANT TRENCHES, XMER TANKS, ROAD ETC.

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COMPUTER FILE NAME

CUSTOMER		NTPC-SAIL POWER COMPANY (P) LIMITED	
CUSTOMER'S CONSULTANT		MECON LIMITED	
JOB No. 427		STATUS CONTRACT	
DISTRIBUTION		TO	
REV 3		DATE 3/5/17	
1		REVISED AS PER OGA OF GCB, HAB & LAVT CUBICLE	
2		CABLE DUCT BANK CONNECTION TO COMPRESSOR HOUSE REVEAL	
3		CHANGES ARE MARKED AS Δ	
REV 2		DATE 3/6/17	
1		REVISED AS PER OGA OF GT, UT, ST HAB, SPVT, LAVT & NG CUBICLE	
2		A-B ROW TRESSLE SECTIONS UPDATED ON THE BASIS OF CIVIL DRAWING	
3		CHANGES ARE MARKED AS Δ	
TITLE		TRANSFORMER YARD LAYOUT	
MPL C WSE I MAX E		DEPT. SCALE	
SIGN		DRAWING No. PE-DG-427-100-E001	
DATE		SHEET 01 OF 01	
REV 3		SIZE-A0	