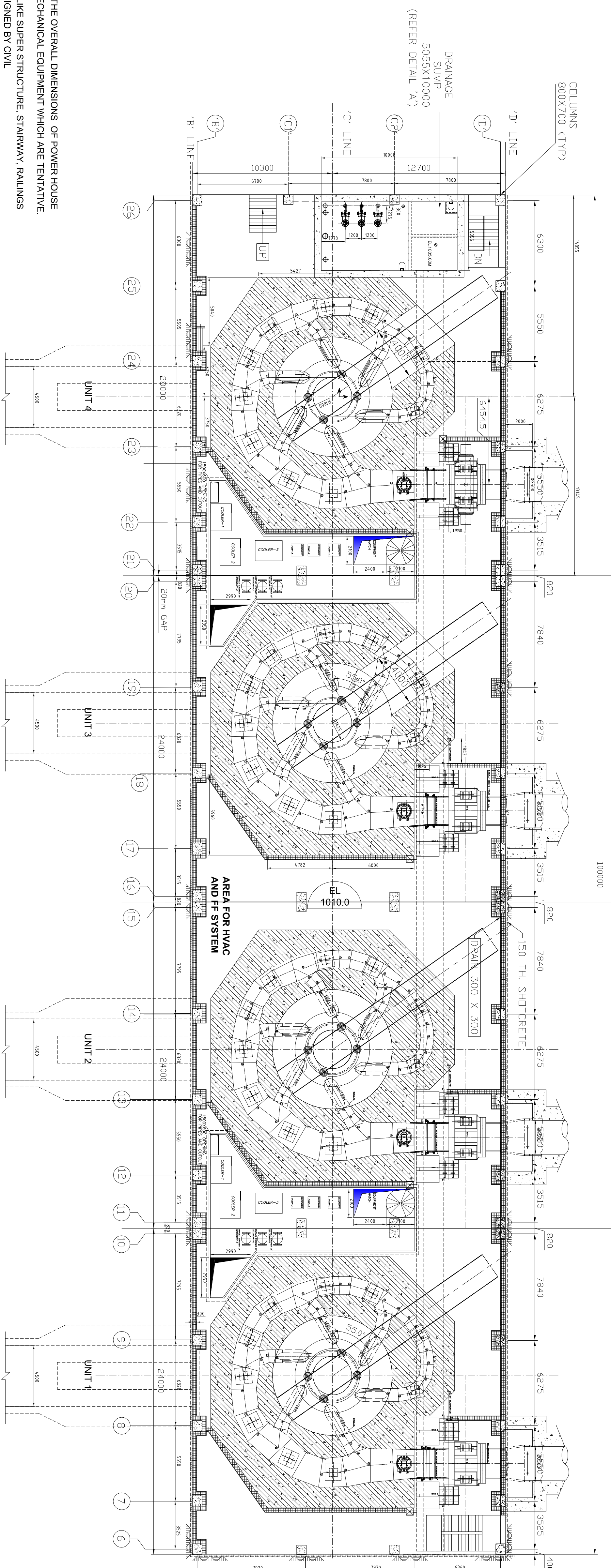


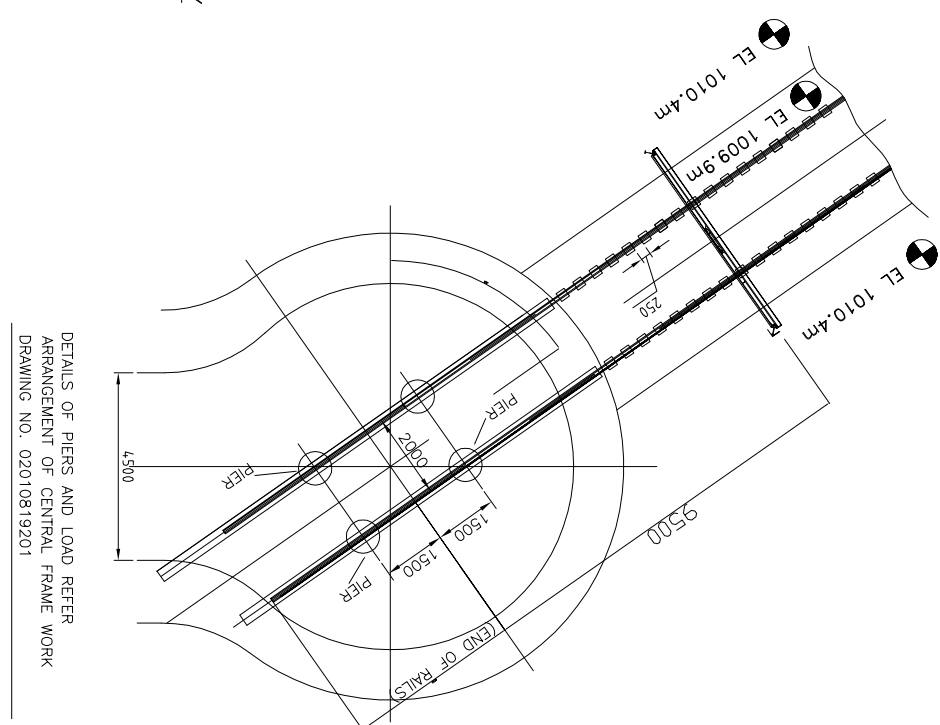
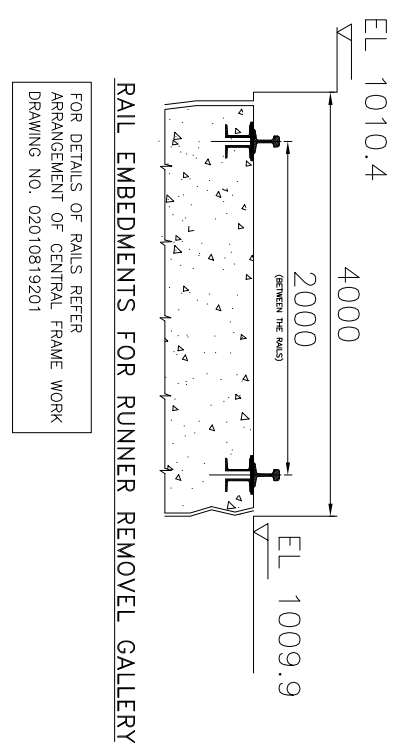
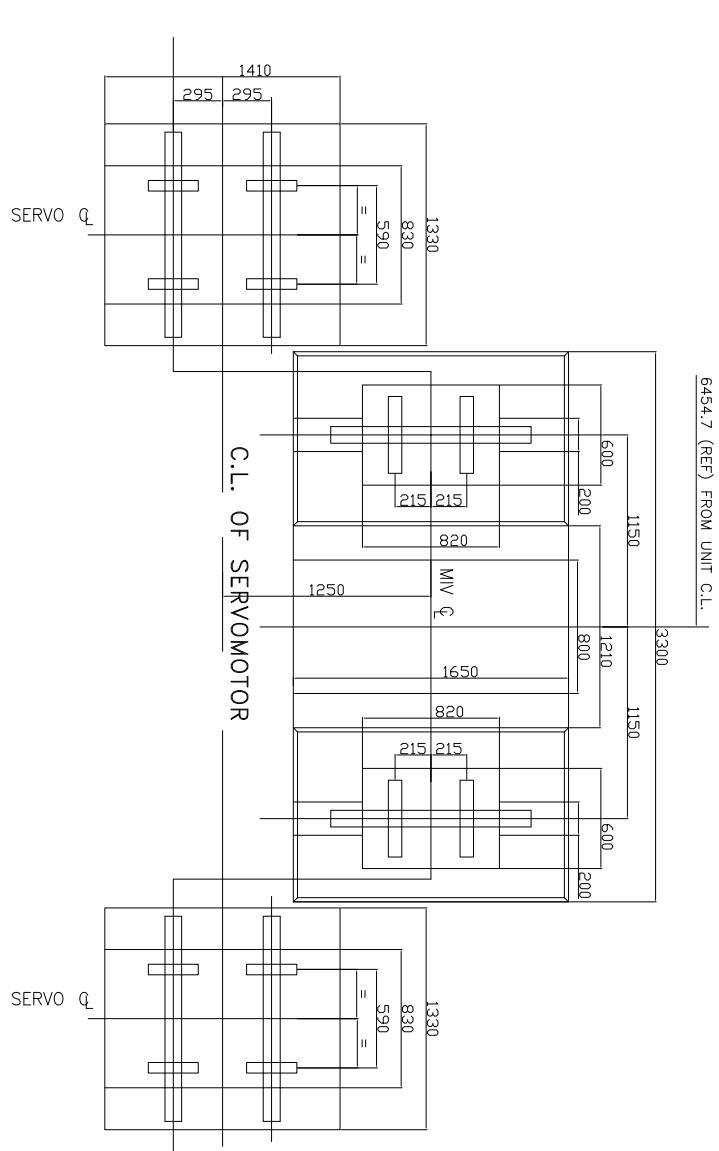
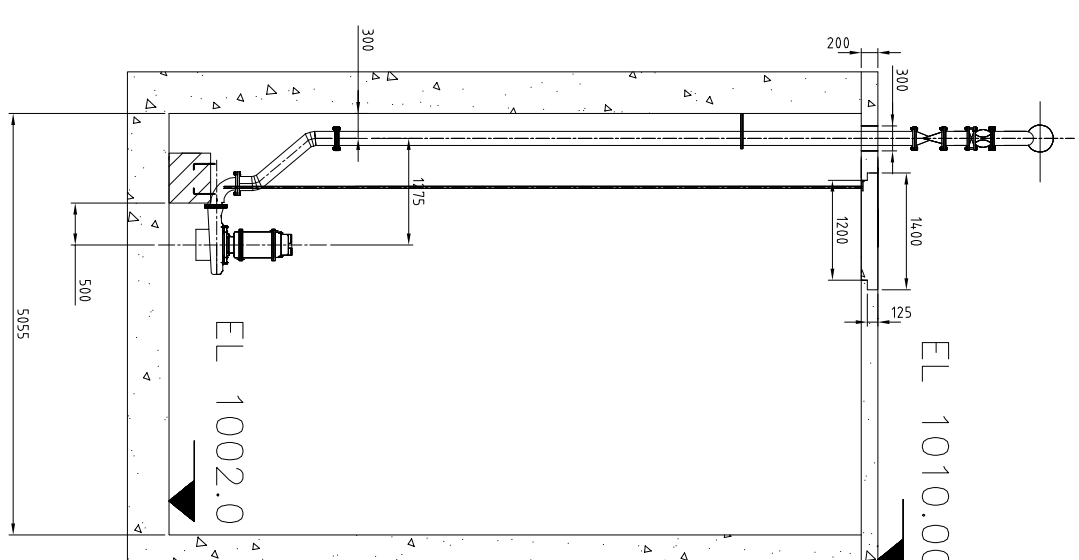
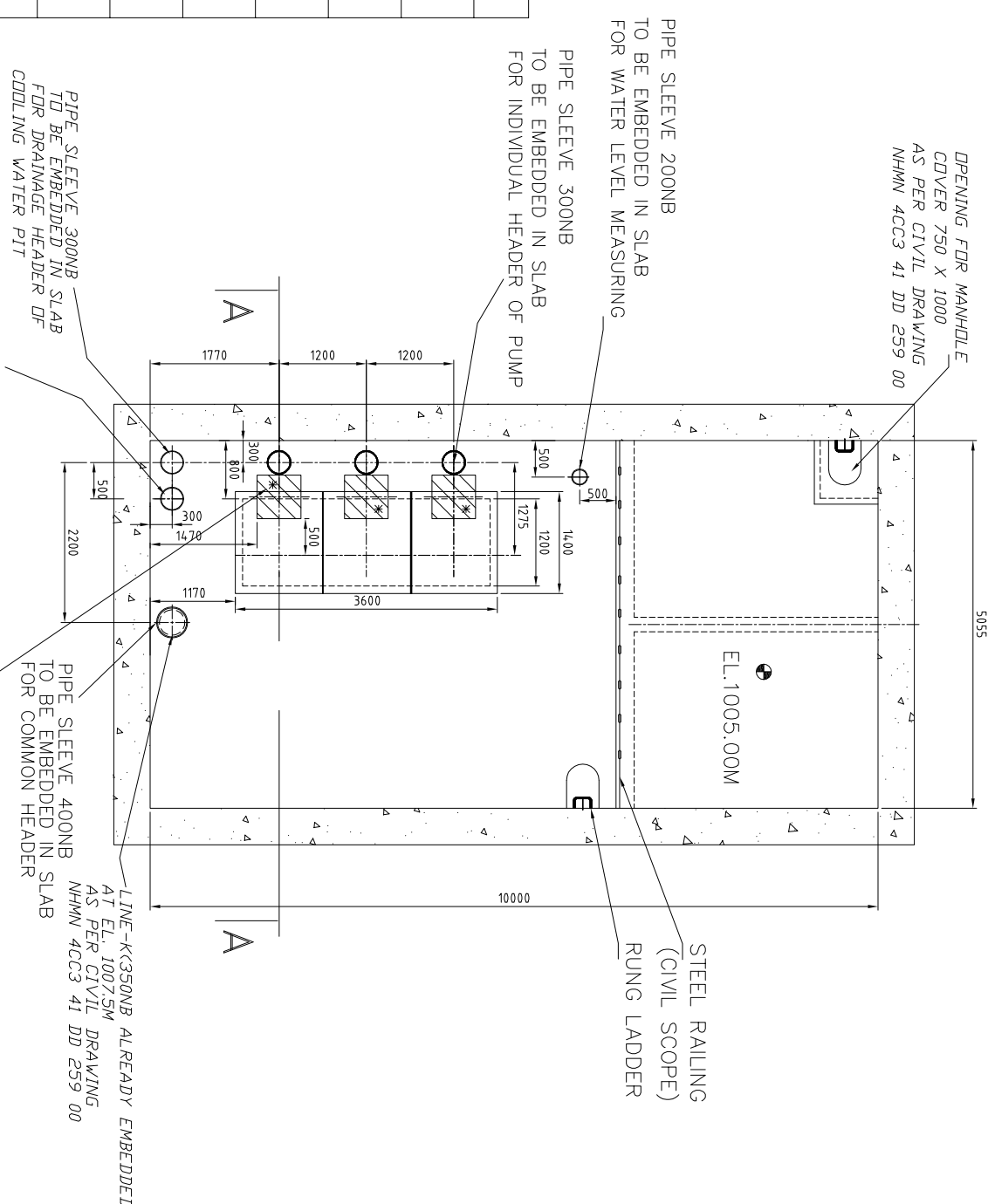


CIVIL GUIDELINES PLAN AT EL 1014.00/1010.00 (MIV FLOOR)

- 1) LAYOUT SHOWS THE OVERALL DIMENSIONS OF POWER HOUSE FOR ELECTRICAL MECHANICAL EQUIPMENT WHICH ARE TENTATIVE.
- 2) OTHER DESIGNS LIKE SUPER STRUCTURE, STAIRWAY, RAILINGS ALSO TO BE DESIGNED BY CIVIL.
- 3) DETAILS OF DRAINAGE SUMP SHALL BE PROVIDED AFTER APPROVAL OF DRAINAGE CALCULATION.
- 4) ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES.

REFERENCE DRAWINGS:

NO. & DATE	REF. DRG. NO.		
		S.NO	DRAWING DESCRIPTION
		1	0-200-00-19251 CROSS SECTION OF POWER HOUSE
		2	0-200-00-19271 CIVIL GUIDELINES PLAN AT EL. 1005.0M
		3	0-200-00-19273 CIVIL GUIDELINES PLAN AT EL. 1017.0M
		4	0-200-00-19274 CIVIL GUIDELINES PLAN AT EL. 1021.5M
		5	0-200-00-19275 CIVIL GUIDELINES PLAN AT EL. 1028.4M
		6	0-200-00-19276 CIVIL GUIDELINES PLAN AT VARIOUS AUXILIARY BLOCKS
		7	0-200-00-19258 L-SECTION OF POWER HOUSE
		8	0-201-04-192-01 PIPES & EMBEDMENTS IN FIRST STAGE
		9	0-201-08-192-01 CENTRAL FRAME WORK
		10	0-212-00-192-01 LOAD & FOUNDATION OF SPH. VALVE



SECTION A-A

PLAN VIEW OF MIV FOUNDATION
(1:25)

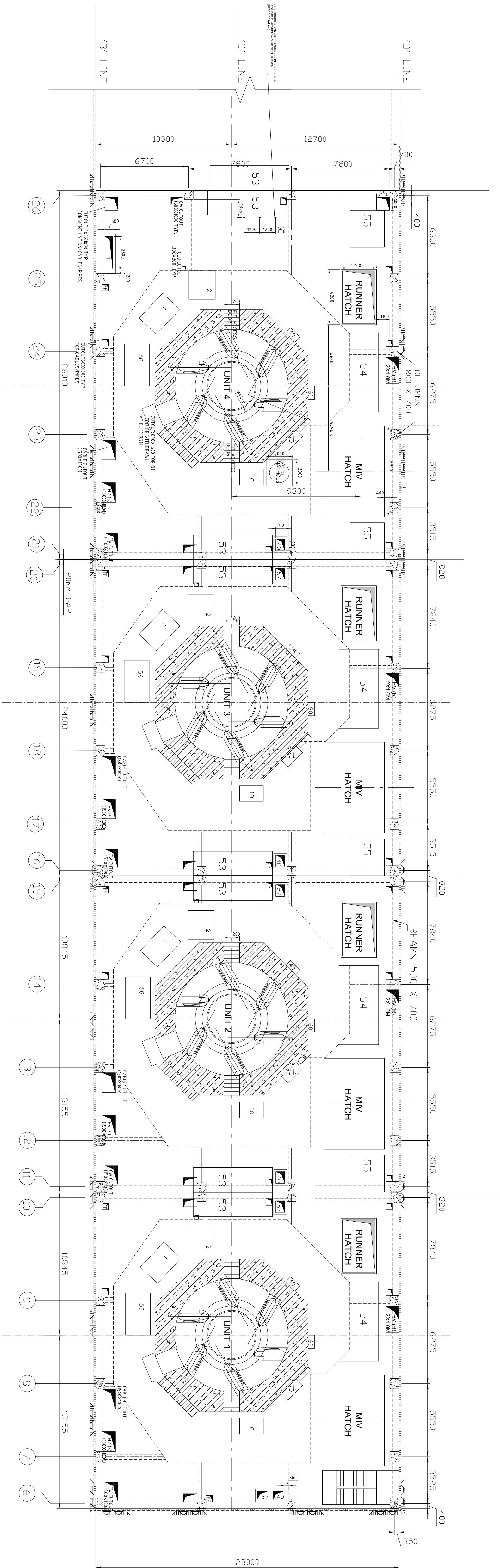
LEGEND :-

FIRST STAGE CONCRETE

SECOND STAGE CONCRETE

THIRD STAGE CONCRETE

5	0-200-00-19275	CIVIL GUIDELINES PLAN AT EL. 1028.4M		PLAN VIEW OF MIV FOUNDATION (1:25)		ADDITIONAL INFORMATION	PROJECT	4X100MW MANGDECHHU HEP
6	0-200-00-19276	CIVIL GUIDELINES PLAN AT VARIOUS AUXILIARY BLOCKS		STATUS OF DRAWING	CUSTOMER	MHPA, BHUTAN		
7	0-200-00-19258	L-SECTION OF POWER HOUSE		LEGEND :- FIRST STAGE CONCRETE SECOND STAGE CONCRETE THIRD STAGE CONCRETE	DISTRIBUTION OF PRINTS	CONSISTANT		
8	0-201-04-192-01	PIPES & EMBEDMENTS IN FIRST SINCE					CONTRACTOR	NHPC LIMITED (A COVL. OF INDIA ENTERPRISE)
9	0-201-08-192-01	CENTRAL FRAME WORK						BHARAT HEAVY ELECTRICALS LTD. BHOPAL
10	0-212-00-192-01	LOAD & FOUNDATION OF SPH. VALVE						
PLAN VIEW OF DRAINAGE SLUMP			DETAIL A-A (SCALE 1:200)					
REVISIONS			REVISIONS					
REV.	DATE	ALTERED BY	REV.	DATE	ALTERED BY			
01	26.04.16	AS	01	26.04.16	AS			
02	21.04.16	AS	02	21.04.16	AS			
03	15.04.16	AS	03	15.04.16	AS			
04	29.03.16	AS	04	29.03.16	AS			
05	12.01.16	AS	05	12.01.16	AS			
06	25.04.15	AS	06	25.04.15	AS			
07	11.02.2015	AS	07	11.02.2015	AS			
08	26.12.14	AS	08	26.12.14	AS			
09	26.12.14	AS	09	26.12.14	AS			
10	26.12.14	AS	10	26.12.14	AS			
11	26.12.14	AS	11	26.12.14	AS			
12	26.12.14	AS	12	26.12.14	AS			
SUB-SUPPLIER/VENDOR			CONTRACTOR					
NAME	SCD	DATE	NAME	SCD	DATE			
09H BSP		04.07.18	09H BSP		04.07.18			
09H BSP		04.07.18	09H BSP		04.07.18			
TITLE			TITLE					
CIVIL GUIDELINES			CIVIL GUIDELINES					
PLAN AT EL. 1010.0M			PLAN AT EL. 1010.0M					
DRAWING NO. 02000019272			DRAWING NO. 02000019272					
SFT. NO. 01			SFT. NO. 01					
NO. OF SFT. 01			NO. OF SFT. 01					



CIVIL GUIDELINES PLAN AT EL. 1017.00 (TURBINE FLOOR)

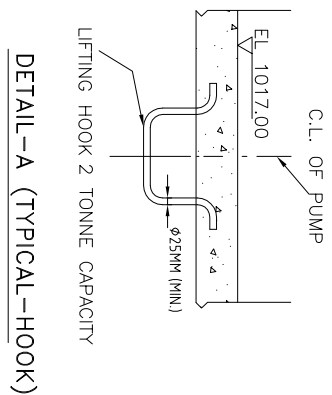


TABLE FOR DIMENSIONS OF EQUIPMENTS PLACED AT TURBINE FLOOR:-

ITEM NO.	DESCRIPTION	AMOUNT	SIZE	UNIT	LOCATION	QUANTITY	REMARKS
1	2	3	4	5	6	7	8
1	PISTON ACCUMULATOR (GV)	1	1000	3/8"	107.0	3500	PEA UN. TOTAL
2	PISTON PUMP (GV)	2	2000	2000	107.0	4000	4 HSE/GV
3	STARTER PUMP FOR DRAINAGE PUMP	3000	2000	2000	107.0	4000	1 HSE
4	STARTER PUMP FOR AIR COMPRESSOR	2000	800	2000	107.0	2000	1 HSE
5	AIR COMPRESSOR	1	1000	3/8"	107.0	2000	2 HSE
6	PISTON ACCUMULATOR (GV)	1	1000	3/8"	107.0	3500	PEA UN. TOTAL
7	PISTON PUMP (GV)	2	2000	2000	107.0	4000	4 HSE/GV
8	STARTER PUMP FOR DRAINAGE PUMP	3000	2000	2000	107.0	4000	1 HSE
9	STARTER PUMP FOR AIR COMPRESSOR	2000	800	2000	107.0	2000	1 HSE
10	AIR COMPRESSOR	1	1000	3/8"	107.0	2000	2 HSE
11	PISTON ACCUMULATOR (GV)	1	1000	3/8"	107.0	3500	PEA UN. TOTAL
12	PISTON PUMP (GV)	2	2000	2000	107.0	4000	4 HSE/GV
13	STARTER PUMP FOR DRAINAGE PUMP	3000	2000	2000	107.0	4000	1 HSE
14	STARTER PUMP FOR AIR COMPRESSOR	2000	800	2000	107.0	2000	1 HSE
15	AIR COMPRESSOR	1	1000	3/8"	107.0	2000	2 HSE
16	PISTON ACCUMULATOR (GV)	1	1000	3/8"	107.0	3500	PEA UN. TOTAL
17	PISTON PUMP (GV)	2	2000	2000	107.0	4000	4 HSE/GV
18	STARTER PUMP FOR DRAINAGE PUMP	3000	2000	2000	107.0	4000	1 HSE
19	STARTER PUMP FOR AIR COMPRESSOR	2000	800	2000	107.0	2000	1 HSE
20	AIR COMPRESSOR	1	1000	3/8"	107.0	2000	2 HSE
21	PISTON ACCUMULATOR (GV)	1	1000	3/8"	107.0	3500	PEA UN. TOTAL
22	PISTON PUMP (GV)	2	2000	2000	107.0	4000	4 HSE/GV
23	STARTER PUMP FOR DRAINAGE PUMP	3000	2000	2000	107.0	4000	1 HSE
24	STARTER PUMP FOR AIR COMPRESSOR	2000	800	2000	107.0	2000	1 HSE
25	AIR COMPRESSOR	1	1000	3/8"	107.0	2000	2 HSE
26	PISTON ACCUMULATOR (GV)	1	1000	3/8"	107.0	3500	PEA UN. TOTAL
27	PISTON PUMP (GV)	2	2000	2000	107.0	4000	4 HSE/GV
28	STARTER PUMP FOR DRAINAGE PUMP	3000	2000	2000	107.0	4000	1 HSE
29	STARTER PUMP FOR AIR COMPRESSOR	2000	800	2000	107.0	2000	1 HSE
30	AIR COMPRESSOR	1	1000	3/8"	107.0	2000	2 HSE
31	PISTON ACCUMULATOR (GV)	1	1000	3/8"	107.0	3500	PEA UN. TOTAL
32	PISTON PUMP (GV)	2	2000	2000	107.0	4000	4 HSE/GV
33	STARTER PUMP FOR DRAINAGE PUMP	3000	2000	2000	107.0	4000	1 HSE
34	STARTER PUMP FOR AIR COMPRESSOR	2000	800	2000	107.0	2000	1 HSE
35	AIR COMPRESSOR	1	1000	3/8"	107.0	2000	2 HSE
36	PISTON ACCUMULATOR (GV)	1	1000	3/8"	107.0	3500	PEA UN. TOTAL
37	PISTON PUMP (GV)	2	2000	2000	107.0	4000	4 HSE/GV
38	STARTER PUMP FOR DRAINAGE PUMP	3000	2000	2000	107.0	4000	1 HSE
39	STARTER PUMP FOR AIR COMPRESSOR	2000	800	2000	107.0	2000	1 HSE
40	AIR COMPRESSOR	1	1000	3/8"	107.0	2000	2 HSE
41	PISTON ACCUMULATOR (GV)	1	1000	3/8"	107.0	3500	PEA UN. TOTAL
42	PISTON PUMP (GV)	2	2000	2000	107.0	4000	4 HSE/GV
43	STARTER PUMP FOR DRAINAGE PUMP	3000	2000	2000	107.0	4000	1 HSE
44	STARTER PUMP FOR AIR COMPRESSOR	2000	800	2000	107.0	2000	1 HSE
45	AIR COMPRESSOR	1	1000	3/8"	107.0	2000	2 HSE
46	PISTON ACCUMULATOR (GV)	1	1000	3/8"	107.0	3500	PEA UN. TOTAL
47	PISTON PUMP (GV)	2	2000	2000	107.0	4000	4 HSE/GV
48	STARTER PUMP FOR DRAINAGE PUMP	3000	2000	2000	107.0	4000	1 HSE
49	STARTER PUMP FOR AIR COMPRESSOR	2000	800	2000	107.0	2000	1 HSE
50	AIR COMPRESSOR	1	1000	3/8"	107.0	2000	2 HSE
51	PISTON ACCUMULATOR (GV)	1	1000	3/8"	107.0	3500	PEA UN. TOTAL

LEGEND :-

	FIRST STAGE CONCRETE
	SECOND STAGE CONCRETE
	THIRD STAGE CONCRETE

NOTES:- 1) LAYOUT SHOWS THE OVERALL DIMENSIONS OF POWER HOUSE FOR ELECTRO MECHANICAL EQUIPMENT																																			
2) ALL CIVIL DESIGN INCLUDING CONCRETE THICKNESSES OF TURBINE GENERATOR, WALLS , BEAMS , FLOORS TO BE DEVELOPED BY CIVIL PARTNER.																																			
3) OTHER DESIGNS LIKE SUPER STRUCTURE, STAIRWAY , RAILINGS ALSO TO BE DESIGNED BY CIVIL																																			
4) OPENINGS AND CUTOUPS OF EQUIPMENT ARE TENTATIVE AND MAY CHANGE DURING DETAIL DESIGN.																																			
5) ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES.																																			
ADDITIONAL INFORMATION				PROJECT				4X180MW MANGDCECHHU HEP																											
STATUS OF DRAWING				CUSTOMER																															
DISTRIBUTION OF PRINTS				CONSULTANT				MHPA DRG. NO. <table border="1"><tr><td>M</td><td>H</td><td>P</td><td>-</td><td>P</td><td>G</td><td>A</td><td>0</td><td>2</td><td>G</td><td>A</td><td>0</td><td>0</td><td>4</td><td>-</td><td>7</td><td></td><td></td><td></td><td></td></tr></table>								M	H	P	-	P	G	A	0	2	G	A	0	0	4	-	7				
								M	H	P	-	P	G	A	0	2	G	A	0	0	4	-	7												
																																			
NAME				SIGN				DATE				NO. OF																							
IN HSD				06.07.13																															
DO HSD				06.07.13																															
DS-SUPPLIER/VENDOR				DESIGN				UNITS, DIMS. OR				SCALE																							
				CODE								WEIGHT (K.G.)																							
TITLE				CIVIL GUIDELINES				PLAN AT EL. 1007.00M				DRAWING NO. 02000019273																							
												REV/ 07																							
												NO. OF SHEET 01																							

INVENTORY NO.	SIGN. & DATE	REF. Dwg. NO.
K		
1	DRAWING NO 0-200--00--19251	DRAWING DESCRIPTION CROSS SECTION OF POWER HOUSE
2	0-200--00--19272	CIVIL GUIDELINES PLAN AT EL 1010.0M
3	0-200--00--19271	CIVIL GUIDELINES PLAN AT EL 1005.0M
4	0-200--00--19274	CIVIL GUIDELINES PLAN AT EL 1021.5M
5	0-200--00--19275	CIVIL GUIDELINES PLAN AT EL 1028.4M
6	0-200--00--19276	CIVIL GUIDELINES PLAN AT VARIOUS AUXILIARY BLOCKS
L 7	0-200--00--19258	L-SECTION OF POWER HOUSE
8	0-201--04--192--01	PIFES & EMBEDMENTS IN FIRST STAGE
9	0-201--08--192--01	CENTRAL FRAME WORK
1		
2		
3		

6	BRACE STOPPED AND BRACE JACK WHEEL WAS REELY SHIPPED	ZONE	REV.	DATE	ALTERED	BSF	REV.	DATE	ALTERED	BSF	ZONE
			07	21.04.16	CHECKED	BSF	06	24.06.16	ALTERED	BSF	
						15				15	
7	MOGS FOR DRAKAD FAIR, MICROBORDERS	ZONE	REV.	DATE	ALTERED	BSF	REV.	DATE	ALTERED	BSF	ZONE
			05	02.05.16	CHECKED	BSF	04	19.04.16	CHECKED	BSF	
						15		14.05.16		15	
8	TRUCKMAN NO. 9 AND 10 RELOCATED	ZONE	REV.	DATE	ALTERED	BSF	REV.	DATE	ALTERED	BSF	ZONE
			05	02.05.16	CHECKED	BSF	04	19.04.16	CHECKED	BSF	
						15		14.05.16		15	
9	RELOCATED AS PER MEETING DATE 19.04.16	ZONE	REV.	DATE	ALTERED	BSF	REV.	DATE	ALTERED	BSF	ZONE
			03	12.01.16	CHECKED	BSF	03	12.01.16	CHECKED	BSF	
						15		14.05.16		15	
10	DATE CROUD SHOWN	ZONE	REV.	DATE	ALTERED	BSF	REV.	DATE	ALTERED	BSF	ZONE
			01	25.04.15	CHECKED	BSF	01	25.04.15	CHECKED	BSF	
						15		14.05.16		15	
11	EXAMINER REQUESTED AS PER MEETING DATED 11.02.2015	ZONE	REV.	DATE	ALTERED	BSF	REV.	DATE	ALTERED	BSF	ZONE
			01	26.12.14	CHECKED	BSF	01	26.12.14	CHECKED	BSF	
						15		14.05.16		15	
12	DRAINAGE REQUESTED AS PER MEETING COMMENTS RE: HWY/330/23-17/17/2015/2014/2013 DATED 22.12.2014	ZONE	REV.	DATE	ALTERED	BSF	REV.	DATE	ALTERED	BSF	ZONE
			01	26.12.14	CHECKED	BSF	01	26.12.14	CHECKED	BSF	
						15		14.05.16		15	