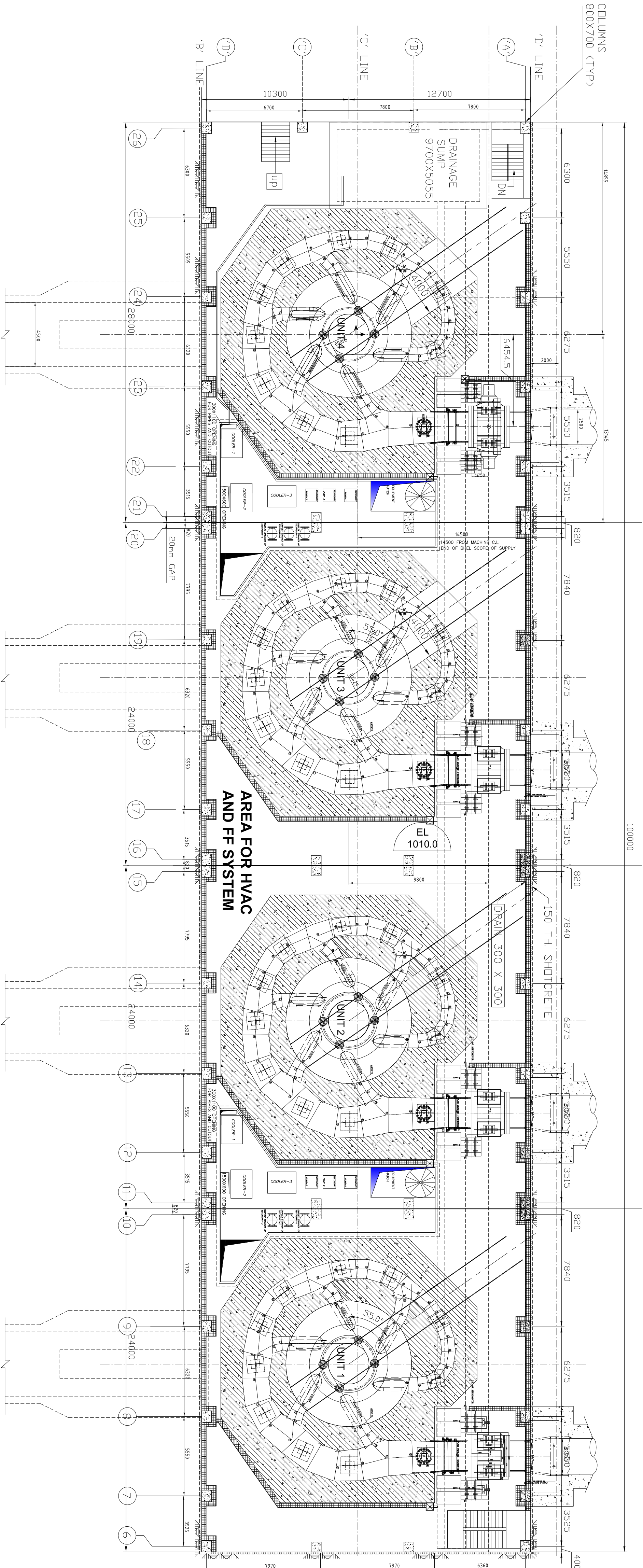




PLAN EL 1014.00/1010.00 (MIV FLOOR)

REFERENCE DRAWINGS:

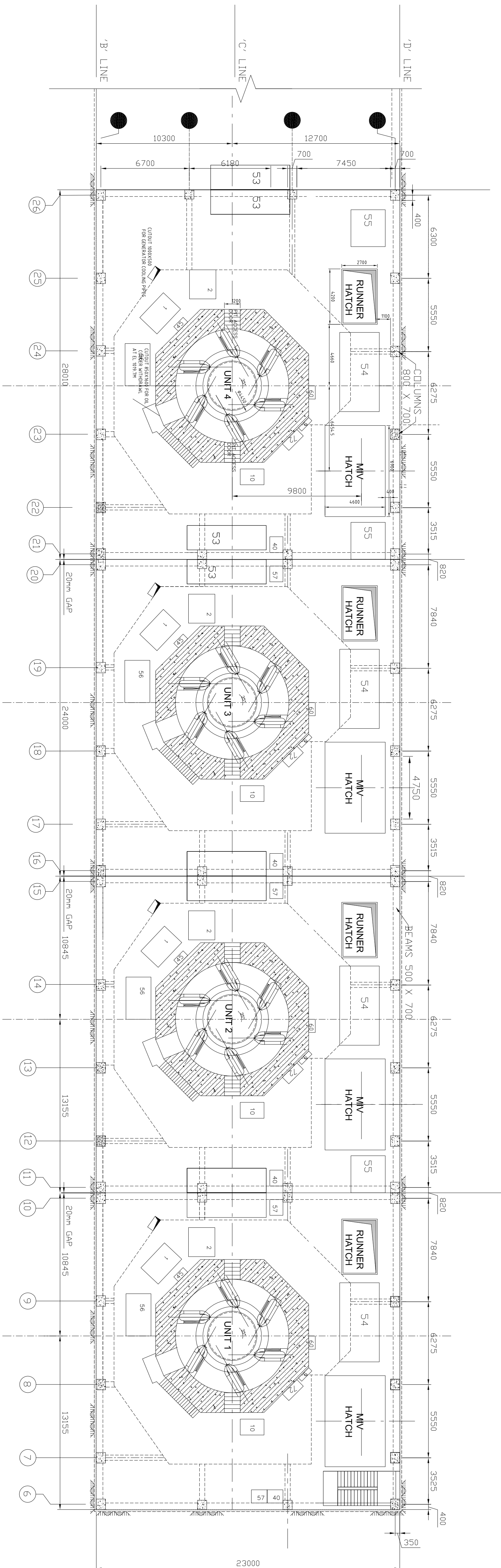
S.NO	DRAWING NO	DRAWING DESCRIPTION
1	0-200-00-19251	CROSS SECTION OF POWER HOUSE
2	MHP-PCA 01 GA 001 02	PLAN AT EL. 1005.0M
3	MHP-PCA 01 GA 002 02	PLAN AT EL. 1017.0M
4	MHP-PCA 01 GA 004 02	PLAN AT EL. 1021.5M
5	MHP-PCA 01 GA 004 02	PLAN AT EL. 1028.4M
6	MHP-PCA 01 GA 004 02	PLAN AT VARIOUS AUXILIARY BLOCKS
7	MHP-PCA 01 GA 004 02	L-SECTION OF POWER HOUSE
8	MHP-PCA 01 GA 004 02	PIPS & EMBEDMENTS IN FIRST STAGE

LEGEND :-

- FIRST STAGE CONCRETE
- SECOND STAGE CONCRETE
- THIRD STAGE CONCRETE

- NOTES:-
- LAYOUT SHOWS THE OVERALL DIMENSIONS OF POWER HOUSE FOR ELECTRO MECHANICAL EQUIPMENT
 - ALL CIVIL DESIGN INCLUDING CONCRETE THICKNESSES OF TURBINE GENERATOR, WALLS, BEAMS, FLOORS TO BE DEVELOPED BY CIVIL.
 - OTHER DESIGNS LIKE SUPER STRUCTURE, STAIRWAY, RAILINGS ALSO TO BE DESIGNED BY CIVIL
 - AREAS IDENTIFIED FOR EQUIPMENT ARE TENTATIVE AND MAY CHANGE DURING DETAIL DESIGN.
 - ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES.

ADDITIONAL INFORMATION		PROJECT	
STATUS OF DRAWING		CUSTOMER	
DISTRIBUTION OF PRINTS		CONSULTANT	
NAME		CONTRACTOR	
DATE		SCALE	
BY		TITLE	
CHECKED		DRAWING NO.	
APPROVED		REV.	
SUB-SUPPLIER/VENDOR		NO. OF SHEET	
		NO. OF SHEET	



PLAN EL 1017.00 (TURBINE FLOOR)

REFERENCE DRAWINGS:

S.NO	DRAWING NO	DRAWING DESCRIPTION
1	0-200--00-19251	CROSS SECTION OF POWER HOUSE
2	0-200--00-19252	PLAN AT EL. 1005.0M
3	0-200--00-19253	PLAN AT EL. 1010.0M
4	0-200--00-19255	PLAN AT EL. 1021.5M
5	0-200--00-19256	PLAN AT EL. 1028.4M
6	0-200--00-19257	PLAN AT VARIOUS AUXILIARY BLOCKS
7	0-200--00-19258	L-SECTION OF POWER HOUSE
8	0-200--00-19259	GIS CUM TRANSFORMER CAVERN LONGITUDINAL AND CROSS SECTIONS
9	0-200--00-19260	GIS CUM TRANSFORMER CAVERN PLANS AT EL.1028.4,1036.4,1040.5M
10		
11		

S.No	DESCRIPTION	LENGTH	SIZ. (mm)	LOGGED WEIGHT	QUANTITY	REMARKS
		(m)	(mm)	(kg)	(No.)	
1	STEEL PIPE (40mm (1.57 in))	2200	40	10.70	4000	4 HSE
2	P-F.S.T (60%)	2200	2000	10.170	4000	4 HSE
4	STARTER PUMP FOR DRAINAGE PLUMB	3000	1000	2.300	10.170	—
6	STARTER PUMP FOR AIR COMPRESSOR	2600	800	2.100	10.170	1 HSE
A	L.P. AIR COMPRESSOR	2200	800	20.000	10.170	—
B	L.P. AIR HEATER	8100	500	2.400	2400	2 HSE
37	W/S ACDB	1000	1000	12.300	10.170	—
40	HOTWATER CONTROL PANEL (40%)	12000	1000	26.000	10.170	10000
41	HOTWATER CONTROL PANEL	6000	1600	18.500	10.170	4 HSE
54	PESTION (ACCUUMULATOR) (MM)	6000	3000	40.000	10.170	70000
54	P-F.S.T (60%)	5000	2200	30.000	10.170	4 HSE
55	ELECTRIC (ACCUUMULATOR) (MM)	4000	2200	10.170	2400	1 HSE
55	ELECTRIC (ACCUUMULATOR) (MM)	4000	2200	28.000	10.170	2400
59	UNDERGROUND PIPE (UB) (L) PLANTS	17000	1800	20.000	2800	—
60	WATER CONTROL PANEL	10000	3500	10.000	10.170	4 HSE
60	WATER CONTROL PANEL	10000	3500	10.000	10.170	4 HSE
10	BROKE DRAIN COLLECTOR & PANEL	12000	1000	22.000	10.170	4 HSE
10	BROKE DRAIN COLLECTOR & PANEL	1500	800	700	600	1 HSE

LEGEND:-

 **FIRST STAGE CONCRETE**

0	0-200-00-19260	G/S CUM TRANSFORMER CAVEN LONGITUDINAL AND CROSS SECTIONS	
9	0-200-00-19260	G/S CUM TRANSFORMER CAVEN PLANS AT EL.1028.4,1040.5M	
10			
11			

53	WINCHEN BANK (M)	4600+6600 180 3500 1017.0m 2000 1 4	HSE (GOV)
54	PISTON ACCUMULATOR (M)	6000 3000 4000 1017.0 8000 1 4	HSE (GOV)
55	P. P. SET (M)	3500 2700 3500 1017.0 7000 1 4	HSE (GOV)
56	WINCHEN BANK (CONCRETE)	3200 1900 2800 1017.0m 2000 1 4	HSE (GOV)
57	WINCHEN BANK (CONCRETE & MUD)	1500 1000 1500 1017.0 2800 1 4	HSE (GOV)
58	CENTRIFUGAL TYPE LUB. OIL PLANTS	4000 2200 2800 1017.0 2800 -- 2	HSE (GOV)
59	LUBRICATING OIL TANK	1700 1900 2000 1017.0 2800 -- 2	HSE (GOV)
60	M/W OPU STARTER PANEL	1000 500 1000 1017.0 700 1 4	HSE
61	BRASS & JACK PUMP	1000 500 1000 1017.0 700 1 4	HSE
62	WINCHEN BANK (CONCRETE & MUD)	1500 1000 1500 1017.0 2800 1 4	HSE
72	BRAKE AIR RECEIVER	1500 800 700 600 1 4	HSE

53	WINCHEN BANK (M)	4600+6600 180 3500 1017.0m 2000 1 4	HSE (GOV)
54	PISTON ACCUMULATOR (M)	6000 3000 4000 1017.0 8000 1 4	HSE (GOV)
55	P. P. SET (M)	3500 2700 3500 1017.0 7000 1 4	HSE (GOV)
56	WINCHEN BANK (CONCRETE)	3200 1900 2800 1017.0m 2000 1 4	HSE (GOV)
57	WINCHEN BANK (CONCRETE & MUD)	1500 1000 1500 1017.0 2800 1 4	HSE (GOV)
58	CENTRIFUGAL TYPE LUB. OIL PLANTS	4000 2200 2800 1017.0 2800 -- 2	HSE (GOV)
59	LUBRICATING OIL TANK	1700 1900 2000 1017.0 2800 -- 2	HSE (GOV)
60	M/W OPU STARTER PANEL	1000 500 1000 1017.0 700 1 4	HSE
61	BRASS & JACK PUMP	1000 500 1000 1017.0 700 1 4	HSE
62	WINCHEN BANK (CONCRETE & MUD)	1500 1000 1500 1017.0 2800 1 4	HSE
72	BRAKE AIR RECEIVER	1500 800 700 600 1 4	HSE

LEGEND :-

FIRST STAGE CONCRETE

SECOND STAGE CONCRETE

THIRD STAGE CONCRETE

DISTRIBUTION OF PRINTS

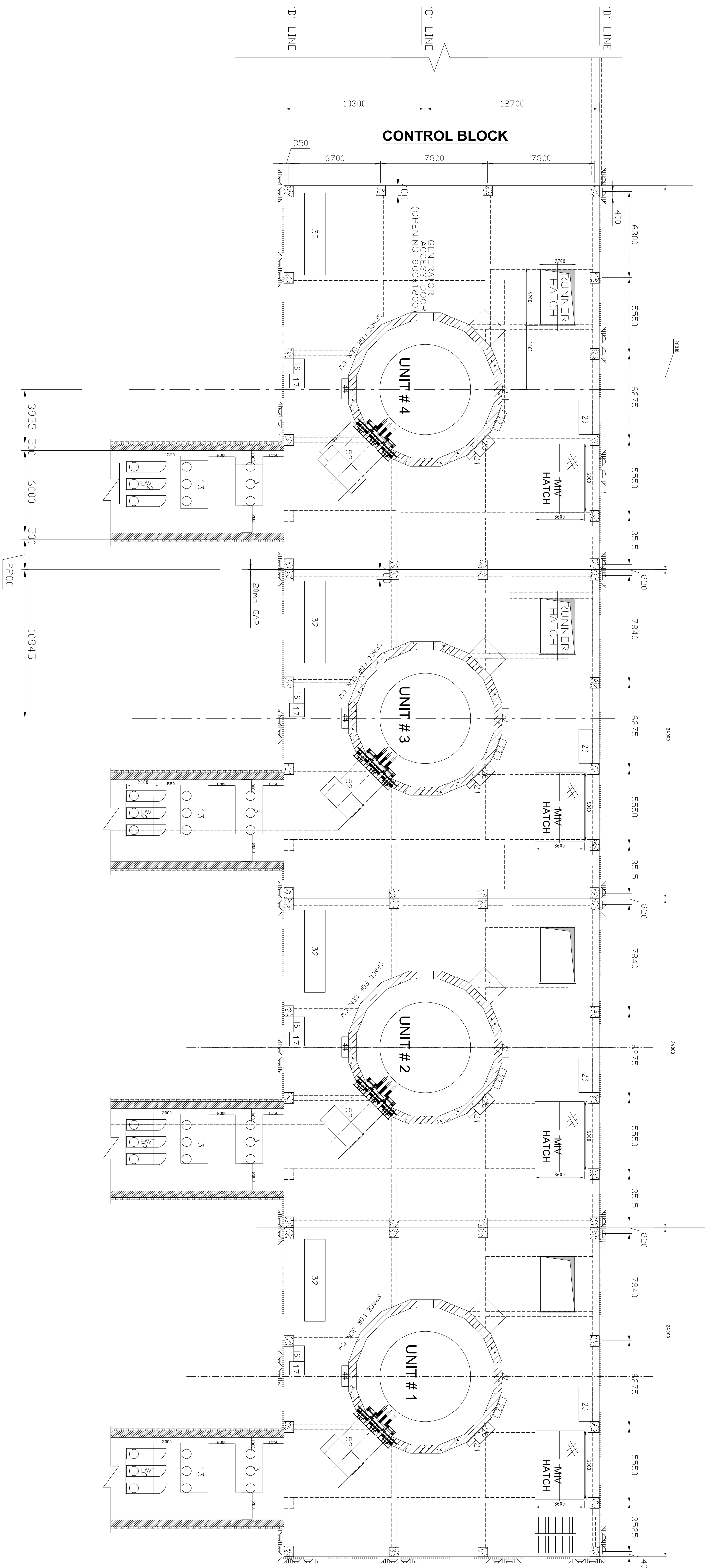
NAME	SIGN	DATE	NO. OF SETS
DR. B.S.P.		04.07.13	100
DR. B.S.P.		04.07.13	100
MR. B.S.		04.07.13	100

CONTRACTOR

CLIENT

 NHPCL (A CO. OF INDIAN ENTERPRISE)	4X100MW MANGDECHHU HEPP MHPA, BHUTAN MHPA, DRC. NO. MHP-P-161011CA1014-6
CONSULTANT NHPCL LIMITED (A CO. OF INDIAN ENTERPRISE)	PROJECT 4X100MW MANGDECHHU HEPP MHPA, BHUTAN
CONTRACTOR BIHARAT HEAVY ELECTRICALS LTD. BHOPAL	CUSTOMER MHPA, BHUTAN

POWER HOUSE GENERAL ARRANGEMENT PLAN AT EL.1017.0M	DRAWING NO. 02000019254 REV. 08
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REFERENCE DRAWINGS:

S.NO	DRAINING NO	DRAWING DESCRIPTION
1	0-200-00-19251	CROSS SECTION OF POWER HOUSE
2	0-200-00-19252	PLAN AT EL 1005.0M
3	0-200-00-19253	PLAN AT EL 1010.0M
4	0-200-00-19254	PLAN AT EL 1017.0M
5	0-200-00-19256	PLAN AT EL 1028.4M
6	0-200-00-19257	PLAN AT VARIOUS AUXILIARY BLOCKS
7	0-200-00-19258	L-SECTION OF POWER HOUSE
8	0-200-00-19259	GIS CUM TRANSFORMER CAVERN LONGITUDINAL AND CROSS SECTIONS
9	0-200-00-19260	GIS CUM TRANSFORMER CAVERN PLANS AT EL.1028.4,1036.4,1040.5M
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11		

TABLE FOR DIMENSIONS OF EQUIPMENTS AT GENERATOR FLOOR:-

S.No	DESCRIPTION	APPROX. SIZE (mm)	LOCATED AT ELV.	WEIGHT	QUANTITY PER UNIT	TOTAL QUANTITY	REMARKS		
3	UNIT AUXILIARY TRANSFORMER	2800	2000	2600	1021.5	5000	1	4	JHNS
9	BKAGE & JUCK PANEL	1100	350	1200	1021.5	5000	1	4	HGE
10	BACK & JUCK PANEL	1100	350	1200	1021.5	5000	1	4	HGE
11	EN. CABLE	2000	1600	2000	1021.5	1400	1	4	JHS
12	UNIT CABLE	2400	2250	2450	1021.5	5500	1	4	JHS
13	EXCITATION TRANSFORMER	3500	2000	2600	1021.5	5500	1	4	EN
16	HYDRO MECHANICAL CONNET	1125	800	2800	1021.5	1700	1	4	HTE(COY)
20	H.S. LUBRICATION UNIT	1500	700	2000	1021.5	600	1	4	HSE
21	H.S. LUB. STARTER PANEL	700	300	800	1021.5	600	1	4	HSE
22	WATER-INDUCTION SYSTEM PANEL	2500	1000	2200	1021.5	200	1	4	HGE
23	SPARKPLUG SYSTEM PANEL	2500	1000	2200	1021.5	4500	2	2	HGE
25	INFEEDER	1000	2500	1000	1021.5	1500	1	2	HSE
29	GENERATOR DISTRIBUTION BOARD	1000	800	2000	1021.5	-	-	1	HSE
39	INFEEDER DISTRIBUTION BOARD	1000	800	2000	1021.5	-	-	1	HSE
47	M.O.B	3000	1000	2350	1021.5	-	-	2	HSE
48	M.O.B	3000	1000	2350	1021.5	-	-	2	HSE
50	GENERATOR STARTER	3000	1000	2350	1021.5	-	-	2	HSE
52	HYDRAIC BRAKING CIRCUIT	3500	1500	2350	1021.5	2000	1	1	EN

PLAN EL 1021.50 (GENERATOR FLOOR)

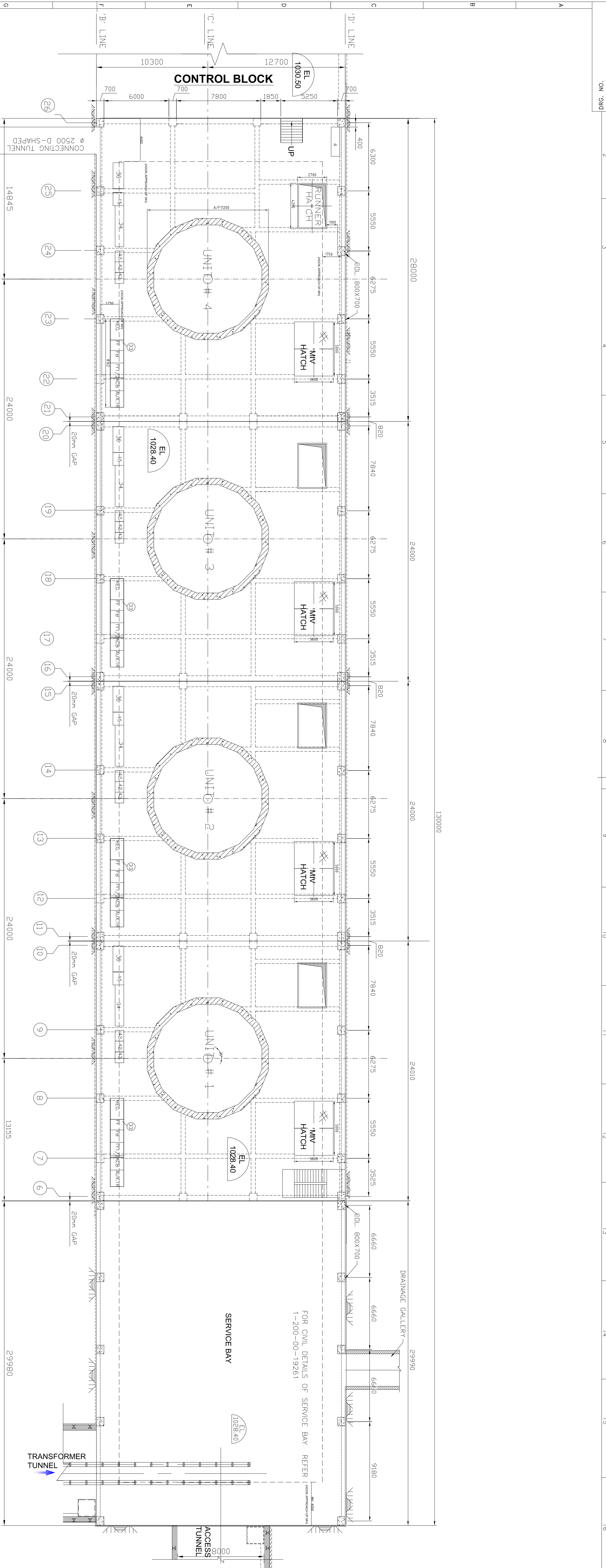
LEGEND :-

- | | |
|---|-----------------------|
|  | FIRST STAGE CONCRETE |
|  | SECOND STAGE CONCRETE |
|  | THIRD STAGE CONCRETE |

ADDITIONAL INFORMATION										PROJECT										4X180MW MANGDECHHU HEP									
STATUS OF DRAWING										CUSTOMER										MHPA, BHUTAN									
DISTRIBUTION OF PRINTS										CONSULTANT										MHPA, BHUTAN									
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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.
- 3) OTHER DESIGNS LIKE SUPER STRUCTURE, STAIRWAY, RAILINGS ALSO TO BE DESIGNED BY CIVIL
- 4) AREAS IDENTIFIED FOR EQUIPMENT ARE TENTATIVE AND MAY CHANGE DURING DETAIL DESIGN.
- 5) ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES.



PLAN EL 1028.40 (MACHINE FLOOR)

REFERENCE DRAWINGS:

S.NO	DRAWING NO	DRAWING DESCRIPTION
1	0-200-00-19251	CROSS SECTION OF POWER HOUSE
2	0-200-00-19252	PLAN AT EL. 1005.0M
3	0-200-00-19253	PLAN AT EL. 1010.0M
4	0-200-00-19254	PLAN AT EL. 1017.0M
5	0-200-00-19255	PLAN AT EL. 1021.5M
6	0-200-00-19257	PLAN AT VARIOUS AUXILIARY BLOCKS
7	0-200-00-19258	L-SECTION OF POWER HOUSE
8	0-200-00-19259	GIS CUM TRANSFORMER CAVERN
9	0-200-00-19260	LONGITUDINAL AND CROSS SECTIONS
10	1-200-00-19261	PLANS AT EL. 1028.4, 1036.4, 1040.5M
11		CIVIL GUIDELINES AT SERVICE BAY

TABLE FOR DIMENSIONS OF EQUIPMENTS:-

S.No	DESCRIPTION	LENGTH	SIZE (mm)	HEIGHT	WIDTH	DEPTH	AT EL. (mm)	PER UNIT	QUANTITY	REMARKS
4	D/P PUMP MOTOR CONTROL PANEL	3000	1000	1200	1028.4	900	1	4	HSE (GOV.)	
15	ELECTRO HYDRAULIC GOVERNOR	1200	1000	2520	1028.4	500	1	4	HSE (GOV.)	
18	POWER PACK (PORTABLE)	800	550	650	1028.4	500	1	4	HSE	
33	BEL COBABLE	1800	1250	2350	1028.4	8100	1	4	HSE	
34	UNIT CONTROL BOARD(CSB)	3604	800	1215	1028.4	1500	1	4	HSE	
36	GENERATOR AND GENERATOR	1000+	1000	2295	1028.4	1000	1	4	SME	
42	TRANSFORMER & VALVE PANEL	2000	1600	12415	1028.4	1300	1	4	EN	
43	TURBINE GENERATOR INTERNAL PANEL	1000	800	2320	1028.4	1300	1	4	EN	
44	D/P PUMP MOTOR CONTROL PANEL	3000	1000	1200	1028.4	-	-	-	HSE (GOV.)	

LEGEND :-

- FIRST STAGE CONCRETE
- SECOND STAGE CONCRETE
- THIRD STAGE CONCRETE

- NOTES:-
- LAYOUT SHOWS THE OVERALL DIMENSIONS OF POWER HOUSE
 - FOR ELECTRO MECHANICAL EQUIPMENT
 - ALL CIVIL DESIGN INCLUDING CONCRETE THICKNESSES OF TURBINE GENERATOR, WALLS, BEAMS, FLOORS TO BE DEVELOPED BY CIVIL.
 - OTHER DESIGNS LIKE SUPER STRUCTURE, STAIRWAY, RAILINGS ALSO TO BE DESIGNED BY CIVIL
 - AREAS IDENTIFIED FOR EQUIPMENT ARE TENTATIVE AND MAY CHANGE DURING DETAIL DESIGN.
 - ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES.

ADDITIONAL INFORMATION		PROJECT		4X180MW MANGDECHHU HEP	
STATUS OF DRAWING		CUSTOMER		MHPA, BHUTAN	
DISTRIBUTION OF PRINTS		CONSULTANT		NHPC LIMITED (A COE. OF NHPC ENTERPRISE)	
NAME		SIGN		DATE	
DRN		BSP		19.07.13	
COC		BSP		19.07.13	
APPD		RS		19.07.13	
SUB-SUPPLIER/VENDOR		CONTRACTOR		BHARAT HEAVY ELECTRICALS LTD. BHOPAL	
SCALE		WEIGHT (K.G.)		REF. TO DES/SEC.	
TITLE		DRAWING NO.		REV.	
POWER HOUSE GENERAL ARRANGEMENT		02000019256		05	
PLAN AT EL. 1028.4M		SHT. NO.		NO. OF SHT.	
		01		01	