



FACILITY	DESCRIPTION OF FACILITIES	SIZES (M)
1.0 POWER BLOCK AREA		
1.1	TG BUILDING	139.5x48
1.2	TG CONTROL EQUIPMENT ROOM/PCR	21x33.85
1.3	BOILER	82x53
1.4	FD/PA FANS	2 No Each
1.5	MILLS & BUNKERS	8 Bunkers
1.6	ESP	—
1.7	ESP CONTROL ROOM	56.7x18
1.8	ID FANS	—
1.9	CHIMNEY	—
1.10	SPACE FOR FGD	70x90
1.11	MILL REJECT SILD	7.5x5.0
1.12	AIR COMPRESSOR BUILDING/MILL REJECT COMPRESSOR & CONTROL ROOM	14x48
1.13	CONDENSATE STORAGE TANK	811
1.14	CONDENSATE STORAGE TANK PUMP HOUSE	15x7.5
1.15	DG BUILDING/AIR WASHER BLDG.	20x26/18x16
2.0 ELECTRICAL FACILITIES		
2.1	GENERATOR TRANSFORMER	—
2.2	STATION TRANSFORMER	—
2.3	UNIT TRANSFORMER	—
2.4	UNIT AUXILIARY TRANSFORMER	—
2.5	STATION AUXILIARY TRANSFORMER	—
2.6	400V SWITCH YARD (CUSTOMER SCOPE)	400x350
3.0 WATER SYSTEM		
3.1	RAW WATER & FIRE WATER STORAGE TANK	120x100
3.2	RAW & FIRE WATER PUMP HOUSE	90x12
3.3	DM WATER CLARIFIER (PT PLANT)	—
3.4	NON-DM WATER CLARIFIER (PT PLANT)	—
3.5	GRAVITY FILTERS(FOR DM WATER) (PT PLANT)	—
3.6	GRAVITY FILTERS(FOR NON DM WATER) (PT PLANT)	—
3.7	FILTER WATER TANK & PUMP HOUSE FOR DM	24x10
3.8	FILTER WATER RESERVOIR & PUMP HOUSE FOR NON DM	41x2
3.9	OZONIZATION PLANT(PRE-TREATMENT AREA)	19x16.5
3.10	CHEMICAL HOUSE/ELEC. & CONTROL ROOM	—
3.11	N.D. COOLING TOWER	81x32
3.12	CW/ ACW PUMP HOUSE	13.5x28.5
3.13	OZONIZATION & CW TREATMENT AREA (C.W.SYSTEM)	36x10
3.14	CW SILE STREAM FILTRATION PLANT	46x30
3.15	DM WATER STORAGE TANK(S) (NOS.)	81x2
3.16	POST WATER TREATMENT PLANT AREA (DM PLANT)	55x35
3.17	NEUTRALISING PIT	12x10
3.18	AC/ALKALI STORAGE AREA	20x8
3.19	RAIN WATER HARVESTING POND	—
3.20	SULPHURIC ACID STORAGE AREA FOR CW TREATMENT	14x14.5
3.21	CHEMICAL LAB (POST-HWR)	50x30
3.22	GPU REGENERATION BUILDING	40x38.5
4.0 COAL HANDLING PLANT (ISG SCOPE)		
4.1	WAGON TIPLER	—
4.2	CONTROL ROOM FOR WAGON TIPLER	—
4.3	CRUSHER HOUSE	36x30
4.4	CRUSHED COAL STORAGE AREA	270x50x11(2nos.)
4.5	CHP MCC/CONTROL ROOM	21x34
4.6	STACKER RECLAIMER	—
4.7	TRANSFER POINTS	12x12
4.8	PENT HOUSE	—
4.9	DRIVE HOUSE FOR STACKER RECLAIMER	—
4.10	COAL PILE RUN-OFF POND	30x40
4.11	CHP MAINTENANCE BUILDING	28x40
4.12	AREA FOR GROUND UNLOADING OF COAL	450 MP
4.13	CHP PUMP HOUSE	50x25
5.0 ASH HANDLING PLANT (ISG SCOPE)		
5.1	H.C.S.D. PUMP HOUSE & MCC ROOM	10x30
5.2	DELETED	—
5.3	DELETED	—
5.4	DRY ASH SILD	24x8
5.5	DRY ASH SILD UTILITY BUILDING	24x8
5.6	ASH WATER TANK & ASH SLURRY PUMP HOUSE	40x69
5.7	AHP COMPRESSORS & BLOWERS	15x30
5.8	TUBE SETTLER PLANT	20x35
5.9	ASH COLLECTION SUMP-1&2	—
5.10	AHP MCC CUM CONTROL ROOM	45x15
6.0 FUEL OIL SYSTEM		
6.1	FUEL OIL TRANSFER PUMP HOUSE	14x22
6.2	HFO & LDO DAY TANK AREA	32x20
6.3	HFO & LDO PRESSURIZING PUMP HOUSE	22x10
6.4	ELECTRICAL ANNEXE FOR FOPH	9x25
7.0 EFFLUENT TREATMENT PLANT		
7.1	EFFLUENT TREATMENT PLANT	56x30
8.0 SEWAGE TREATMENT PLANT		
8.1	SEWAGE TREATMENT PLANT	20x10
9.0 NON-PLANT BUILDING		
9.1	SERVICE BUILDING	12x42
9.2	WORKSHOP-DELETED	65x30
9.3	LUBE OIL STORAGE SHED WITH STORAGE YARD	15x15
9.4	FIRE STATION-DELETED	10x25
9.5	GAS CYLINDER STORAGE AREA	15x25
9.6	FOPH FOM SHED	10x13
9.7	STORES	75x30
9.8	CANTEEN	17.5x17.5
9.9	TIME OFFICE & SECURITY OFFICE	20x10
9.10	SECURITY OFFICE FOR STORES	10x5
9.11	SECURITY CABIN	10x5
9.12	COAL SAMPLING & PROCESSING ROOM	15x25
9.13	WEIGH BRIDGE FOR DRY ASH SILD	—
9.14	PARKING SHEDS WITH GATE OFFICE	30x50
9.15	PAN LOADER SHED	12x66
9.16	STEEL YARD INCLUDING STORES & WEIGH BRIDGE	135x60
9.17	FIRE WATER BOOSTER PUMP HOUSE	9x6
9.18	AMBIENT AIR QUALITY MONITORING SYSTEM	4x5
9.19	AMMONIA UNLOADING AND STORAGE AREA (FOR SCR)	21x35

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- NOTES:**
- ALL DIMENSIONS ARE IN MM AND ALL ELEVATIONS ARE IN METERS.
 - THE GRIDS AND CO-ORDINATES ARE SHOWN IN METERS.
 - BUILDINGS OUTER LINES SHOWN ARE COLUMNS GRID LINES.
 - ALL ELEVATIONS ARE REFERRED TO POWER HOUSE FINISHED GROUND FLOOR ELEVATION ± 0.00 WHICH CORRESPONDS TO RL(+)+209.0M.
 - HIGH FLOOD LEVEL RL198.20M
 - PROPOSED RCC BOX CULVERTS SHALL BE AS PER INDIAN RAILWAY STANDARD.
 - RAILWAY LAYOUT IS INDICATIVE AND THE SAME SHALL BE PROVIDED AS PER RAILWAY'S APPROVAL.
 - EXISTING FIRE STATION OF 2x500MW UNITS SHALL BE USED FOR 1x660MW. (CO-ORDINATES OF EXISTING FIRE STATION E'517.0 & N'352.6, SIZE 20.5Mx10M)
 - LAYOUT/SIZE OF VARIOUS EQUIPMENTS/FACILITIES IS TENTATIVE ONLY AND SHALL BE FINALIZED DURING DETAIL ENGINEERING.
 - CHANGES DUE TO INTRODUCTION OF MoEF NORMS, FGD & SCR, CHANGE IN WORST COAL PARAMETER (GCV 3200KCAL/KG) & VAM TYPE AC SYSTEM (NOT IN PRESENT SCOPE OF LOA) ARE SHOWN INDICATIVELY.
- IMPACT OF THE PROVISION ARE LISTED BELOW:
- SCR-CHIMNEY TO BOILER 'D' ROW INCREASED.
 - FGD - FGD FACILITIES INDICATED, CHIMNEY RELOCATED.
 - VAM - ADDITIONAL SPACE OF 10.5Mx11M INDICATED NEAR CONTROL TOWER.
 - RAIN WATER POND, CHP MCC/CONTROL ROOM, PUMP HOUSE & MAINTENANCE BUILDING RELOCATED.

400KV SWITCH YARD	F.G.EL.211.00
MAIN PLANT AREA, LAYDOWN SPACE & AREA INCLUDING RAIN WATER HARVESTING TANK, WORKSHOP & POST WATER TREATMENT PLANT & GAS CYLINDER STORAGE AREA	F.G.EL.208.50
CHP AREA, FGD AREA & FUEL OIL AREA	F.G.EL.208.00
WATER TREATMENT PLANT AREA INCLUDING RAW WATER RESERVOIR, STORES, FILTER WATER RESERVOIR & PUMP HOUSE FOR DM AND CLARIFIERS.	F.G.EL.214.00
CW & CW PUMP HOUSE, FILTER WATER RESERVOIR & PUMP HOUSE FOR NON DM, ETP & STP	F.G.EL.210.50
H.C.S.D. PUMP HOUSE, HESS SILD, CANTEEN, TIME OFFICE & SECURITY OFFICE	F.G.EL.206.50
AREA FOR WAGON TIPLER RAIL TRACK RAIL TOP	F.G.EL.209.10 EL.209.75

PLANT AREA	: 175.8 ACRE (71.14 HECTARE)
GREEN AREA	: 93.4 ACRE (37.8 HECTARE)
TOTAL PLOT AREA *	: 269.2 ACRE (108.94 HECTARE)
* EXCLUDING 500 MW UNITS RAILWAY SIDING AREA.	

- REFERENCE DRAWINGS:**
- CUSTOMER PLOT PLAN (GENERAL LAYOUT) PE-189-GA-101-REV.09
 - PLOT PLAN BOUNDARY MARKING DG/253-NEW-001/REV.0 (189-MAHAGENCO-05/RO)

LEGEND:

	COMPOUND WALL		BCN BELT CONVEYOR
	EXISTING PLANT BOUNDARY		PH PENT HOUSE
	MSPCL PROPERTY FENCING		PCH PRIMARY CRUSHER HOUSE
	GREEN BELT		SCH SECONDARY CRUSHER HOUSE
	PIPE/CABLE RACK		JNT JUNCTION TOWER
	400KV TRANSMISSION LINE		ERH EMERGENCY RECLAIM HOPPER
	RAILWAY LINE		WT WATCH TOWER
			400KV LINE TOWER

MAHARASHTRA STATE POWER GENERATION CO.LTD.
BHUSAWAL T.P.S. UNIT-6 : 1 X 660 MW PROJECT

1 X 660 MW BHUSAWAL T.P.S. UNIT-6 TPP

JOB NO. 415
STATUS CONTRACT
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POWER SECTOR
PROJECT ENGINEERING MANAGEMENT
Noida

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REV.	DATE	ALTD	CHD	APPO	REV.	DATE	ALTD	CHD	APPO
02	24.07.18	AK	AMT	PM	01	18.04.18	AK	-SS/	AMT-SS/

DEPT. SCALE 1:2750
DRAWING NO. PE-DG-415-100-M001
SHEET 1 OF 1
REV. 02