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ELECTRONIC FILE NAME : 544-100-M001_R00

PLANT NORTH

WIND DIRECTION

HOLD

MATERIAL YARD
20723.00 SQM

ADHAPARA CHOWK

BM-1

GREEN BELT(TYP.)

10M(MIN.)

DETAIL-1

PROP. QUARRY LIMIT L-B-L OCP

GREEN BELT

MATERIAL YARD
39617.00 SQM

SWITCH YARD (43)

LSTK 2 PIE YARD

LAB

CONST. WATER RESERVOIR (44)

BATCHING PLANT, AREA 8174. SQM

NG SKID (45)

ASH POND (48)

COAL STORAGE STOCK PILE RAW WASHERY REJECT

COAL ENTRY POINT

MATERIAL GATE

MATERIAL YARD
21666.00 SQM

STORAGE STOCK PILE RAW WASHED COAL

THESE FACILITIES ARE NOT IN LSTK-1 SCOPE

LSTK 1 ETP

CONST. POWER SS (47)

DMCW (39)

SWGR (40)

SWGR (46)

MAIN SUBSTATION (35) [90 M x 50 M]

PLANT MAINT. OFFICE (19)

STORE CENTRAL (23)

BULK DIESEL STORAGE + EDG (42)

CCR (LSTK-1&2)

OPERATION WORKSHOP (21)

WORKSHOP (21)

BUILDING TECHNICAL (33)

BUILDING ADMINISTRATIVE (32)

PLANT ENTRY GATE

CANTEEN (20)

LABTECH BUILDING (41)

FIRE STATION (36)

GAS CLEANING & PURIFICATION PLANT

AIR SEPARATION UNIT (4)

AMMONIA TANK

AMMONIA PLANT

UTILITY SUBSTATION (34)

FIRE WATER STORAGE + PUMP HOUSE (28)

IA PLANT (38)

RAW WATER STORAGE (18)

GREEN BELT(TYP.)

COOLING TOWER FOR GASIFICATION

IDCT (24)

P/T CW

NA AN PLANT

DM/CPU WATER PLANT (13)

RAW WATER TREATMENT PLANT (12)

FLARE STACK (16)

ETP+POND (25)

WEIGH BRIDGE

MATERIAL YARD
30612.00 SQM

TRUCK PARKING AREA WITH DRIVER REST ROOM (17)

GREEN BELT

PRODUCT GATE

KHAIRA NALLAH

GREEN BELT

48635

62845

115460

51000

TABLE FOR FACILITIES/UNITS

SL.NO.	BLOCK DESCRIPTION	SIZE IN METER	REMARKS
1.	COAL & LIME STORAGE	PACKAGE	
2.	GASIFICATION PLANT	PACKAGE	
3.	GAS CLEANING & PURIFICATION PLANT	215 M x 115 M	
4.	AIR SEPARATION UNIT	250 M x 100 M	
5.	LSTK -3 (AMMONIA PLANT=AMMONIA STORAGE)	210 M x 165 M	
6.	~~NITRIC ACID PLANT~~	-	
7.	~~AMMONIUM NITRATE PLANT WITH PRILLING~~	100 M x 80 M	
8.	~~NITRIC ACID STORAGE~~	-	
9.	DELETED	-	
10.	LSTK -4 (WNA+AN PLANT+ CT+ ASSOCIATED FACILITIES)	355 M x 285 M	
11.	STEAM GENERATION PLANT	PACKAGE	
12.	RAW WATER TREATMENT PLANT	150 M x 100 M	
13.	DM/CPU WATER PLANT	130 M x 80 M	
14.	UTILITY SUBSTATION	65 M x 35 M	
15.	LAB TECH BUILDING	30 M x 20 M	
16.	FLARE STACK	R 90M	
17.	TRUCK PARKING AREA WITH DRIVER REST ROOM	120 M x 55 M	
18.	RAW WATER STORAGE	57000 SQM.	
19.	PLANT MAINT. OFFICE	60 M X 45 M	
20.	CANTEEN	45 M x 30 M	
21.	WORKSHOP	100 M x 50 M	
22.	ADMINISTRATIVE BUILDING	70 M x 50 M	
23.	CENTRAL STORE	80 M x 50 M	
24.	COOLING TOWER FOR GASIFICATION AND UTILITY	160 M x 100 M	
25.	ETP+POND	140 M x 100 M	
26.	DELETED	-	
27.	NON-TECH. SUBSTATION	50 M x 30 M	
28.	FIRE WATER STORAGE+FWPH	120 M x 70 M	
29.	DELETED	-	
30.	~~LOADING BAY ANS~~	-	
31.	~~COOLING TOWER FOR AMMONIA, NITRIC ACID AND AN PLANT.~~	-	
32.	CENTRAL CONTROL ROOM	DELETED	
33.	TECHNICAL BUILDING	60 M x 45 M	
34.	~~ANP STORAGE, BAGGING & TRUCK LOADING~~	-	
35.	MAIN SUB-STATION	80 M x 60 M	
36.	FIRE STATION	80 M x 50 M	
37.	ASH SILO	PACKAGE	
38.	IA PLANT	40 M x 40 M	
39.	SRU UNIT	35 M x 25 M	
40.	MAGNESIUM NITRATE, CAUSTIC, SULPHURIC ACID STORAGE	30 M x 15 M	
41.	~~ANS STORAGE~~	-	
42.	BULK DIESEL STORAGE + EDG	-	
43.	SWITCHYARD	135 M x 75 M	
44.	CONSTRUCTION WATER RESERVOIR	30M x 30M	
45.	NG SKID	55 M x 30 M	
46.	SULPHUR PIT	20 M x 20 M	
47.	CONSTRUCTION POWER SUB-STATION	30 M x 15 M	
48.	ASH POND	150 M x 60 M	
49.	~~LOADING/UNLOADING BAY FOR NITRIC ACID~~	-	
50.	LOADING/UNLOADING BAY FOR AMMONIA	48 M x 15 M	

NOTES:-

1. ALL DIMENSIONS AND COORDINATES ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2. REFERENCE BENCH MARK (⊕) POINTS IS W.R.T GLOBAL CO-ORDINATES HAVING N-2405091.480 & E-793109.852 (GRID COORDINATES N-1700.0M, E-000.0M).
3. BLOCK SIZE OF FACILITIES ARE TO BE FINALIZED AFTER GETTING VENDOR INFO.
4. * INDICATES HOLD.

LEGEND :~

- OFFSITE FACILITIES
- LSTK-1 FACILITIES
- LSTK-2 FACILITIES
- LSTK-3 FACILITIES
- LSTK-4 FACILITIES
- GREEN BELT AREA

TOTAL PLANT AREA WITH GREEN BELT = 350.00 ACRE (APPROX.)
PLANT AREA = 195.00 ACRE (APPROX.)
GREENBELT AREA = 155.00 ACRE (APPROX.)

REV.	DATE	ALTD	CHD	APPD	REV.	DATE	ALTD	CHD	APPD

PROJECT: COAL TO 2000 TPD AMMONIUM NITRATE PROJECT OF M/S BCGCL AT LAKHANPUR (ODISHA) INDIA.

CUSTOMER: Bharat Coal Gasification and Chemicals Limited

CONSULTANT: PROJECTS & DEVELOPMENT INDIA LIMITED

BHARAT HEAVY ELECTRICALS LTD
POWER SECTOR
PROJECT ENGINEERING MANAGEMENT
NOIDA

JOB NO. 544
STATUS CONTRACT
DISTRIBUTION

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DEPT CODE		NAME	SIGN	DATE
M	DRN	ABH		02.03.2020
	DESN	MH		02.03.2020
	CHD	PKJ		02.03.2020
	APPD	BKA		27.03.2020

TITLE GENERAL ARRANGEMENT LAYOUT OF COAL BASED AMMONIUM NITRATE PLANT

DEPT. SIGN SCALE 1:2500

DRAWING NO. PE-DG-544-100-M001

SHEET 1 OF 1 REV. 02

SIZE-A0