

BHEL PAN: AAACB4146P

Ref: BHE/PW/PUR/NTPRT-STR ERE PKG-A/2117/Pkg-B/2118/Corr-03

Date: 11/07/2019

Page 1 of 2

To

ALL BIDDERS,

Sub: Corrigendum-03: Issue of Drawings

Job: Package-A: Erection, Alignment, Bolting/Welding, Roofing & Cladding Work of Power House Building (including control room of Unit#01) (Power House Unit#01 {Grid-1 to Grid13a} + Power House Unit#03 {Grid-28a to Grid-39}), Pipe/cable rack along C row for Unit#01 & Unit#03, Misc. structural work in T/ O yard area of Unit#01 & Unit#03, FGD System structural work (including ball mill, gypsum dewatering, oxidation pump house), Structural works of Misc. BOP Building, Ammonia storage shed and Handling of Materials at BHEL / Client's Stores / Storage yard and transportation to site at 3X800 MW PVUNL PATRATU, Jharkhand.

AND

Package-B: Erection, Alignment, Bolting/Welding, Roofing & Cladding Work of Power house building (Grid 13a to Grid-28a) including CCR (i.e. common control room of Unit#02 & Unit#03), Pipe/cable rack along C row for Unit#02, Misc. structural work in T/ O yard area of Unit-2, BOP Pipe Rack & Cable Rack, Compressor Building, Service Building etc and Handling of Materials at BHEL / Client's Stores / Storage yard and transportation to site at 3X800 MW PVUNL PATRATU, Jharkhand.

S. No.	Package	E- TENDER SPECIFICATION NUMBER
01	Package-A	BHE/PW/PUR/NTPRT-STR ERE PKG-A/2117
02	Package-B	BHE/PW/PUR/NTPRT-STR ERE PKG-B/2118

Bidders to kindly take note of the following:

AA) ISSUE OF CLARIFICATIONS:

Sl. No.	Bidder's query	BHEL's Clarification
1.	Please provide the Plot plan & foundation drawing for Patratu Main plat structure PKG A & PKG B details as below, 1. Main power house building 2. Misc. Structure work in T/O Yard area 3. FGD system structural work 4. Structural work of Misc. BOP Pump House 5. Ammonia storage shed. 6. Pipe/ cable rack	Please find the following drawing/clarification: 1) Main power house building foundation drawings– Attached with this corrigendum 2) Pipe/ cable rack layout Drg:- Attached with this corrigendum 3) Misc. Structure work in T/O Yard area –Shall be issued progressively during execution of work. 4) FGD system structural work - Shall be issued progressively during execution of work . 5) Structural work of Misc. BOP Pump House- Shall be issued progressively during execution of work. 6) Ammonia storage shed. - Shall be issued progressively during execution of work.



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Date: 11/07/2019

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All other Terms and conditions of the Tender Specification shall remain unaltered unless expressly amended by BHEL in writing. Bidders are requested to submit as a part of their offer, a copy of this corrigendum duly Digitally countersigned by the authorized signatory as a token of Bidder's unqualified acceptance of this corrigendum.

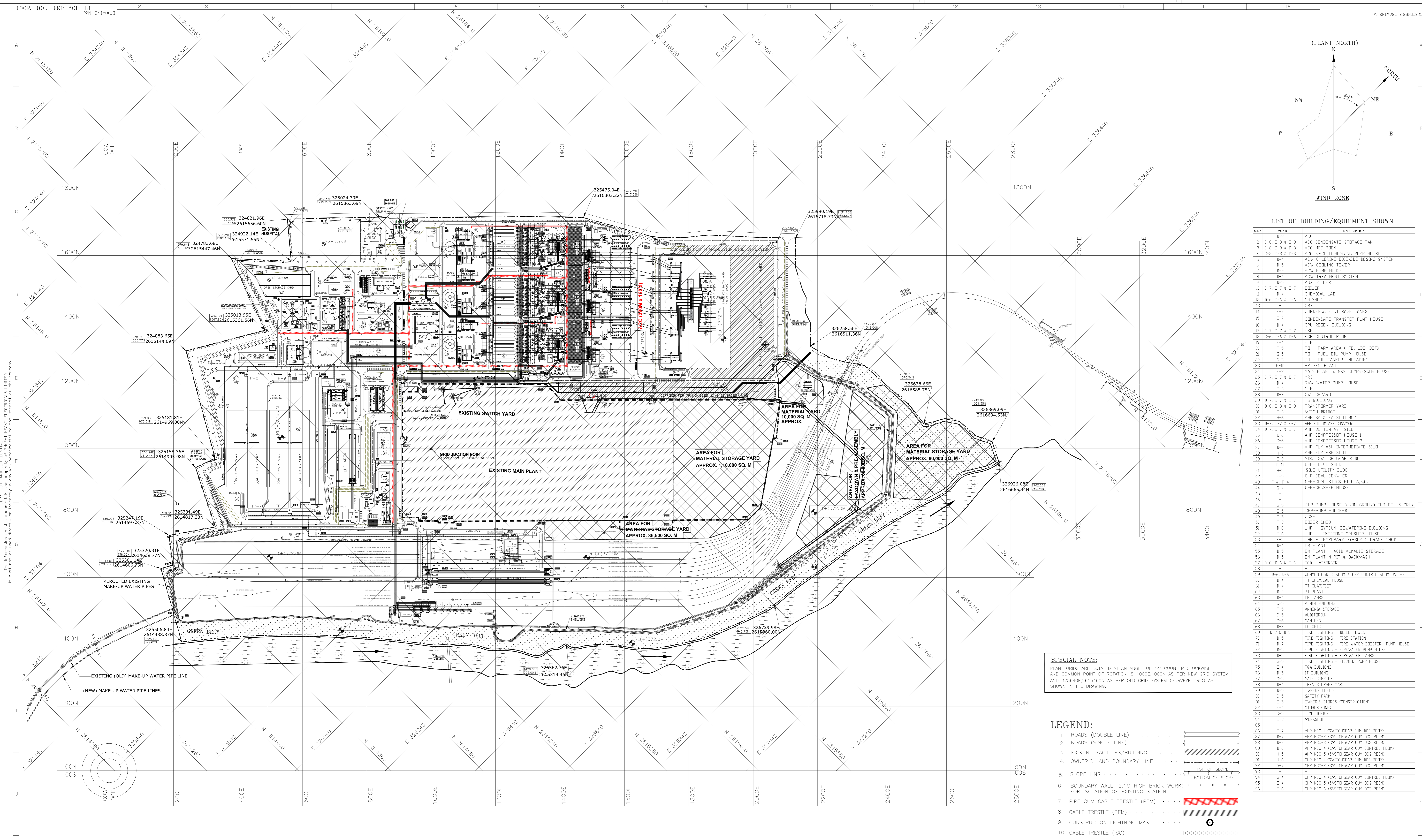
BIDDERS MAY PLEASE NOTE THAT SUBJECT TENDER IS E-TENDER AND THE OFFER IS TO BE SUBMITTED ONLY IN E-PROCUREMENT PORTAL → www.bhel.abcprocure.com

BIDDERS WHO HAVE ALREADY SUBMITTED THEIR OFFERS PRIOR TO ISSUANCE OF THIS CORRIGENDUM IN E-TENDER PORTAL ARE REQUIRED TO RE-SUBMIT THEIR OFFER AFTER TAKING COGNIZANCE OF THIS CORRIGENDUM.

Thanking you,

Yours faithfully,

AGM (Purchase)



LIST OF BUILDING/EQUIPMENT SHOWN

S.No.	ZONE	DESCRIPTION
1	D-8	ACC
2	C-8, D-8 & E-8	ACC CONDENSATE STORAGE TANK
3	C-8, D-8 & E-8	ACC MCC ROOM
4	C-8, D-8 & E-8	ACC VACUUM HEATING PUMP HOUSE
5	D-4	ACW CHLORINE BICHLORIDE DOSING SYSTEM
6	D-5	ACW COOLING TOWER
7	D-9	ACW PUMP HOUSE
8	D-4	ACW TREATMENT SYSTEM
9	D-5	ALK. BOILER
10	C-7, D-7 & E-7	BOILER
11	D-4	CHEMICAL LAB
12	D-6, D-6 & E-6	CHEMIST
13	D-6	CHB
14	E-7	CONDENSATE STORAGE TANKS
15	E-7	CONDENSATE TRANSFER PUMP HOUSE
16	D-4	CPU REGEN. BUILDING
17	C-7, D-7 & E-7	ESP
18	C-6, D-6 & E-6	ESP CONTROL ROOM
19	E-4	ETP
20	F-5	FD - FARM AREA (GFD, LID, BOT)
21	G-5	FD - FUEL OIL PUMP HOUSE
22	G-5	FD - OIL TANKER UNLOADING
23	E-10	HE GEN. PLANT
24	E-8	MAIN PLANT & MRS COMPRESSOR HOUSE
25	C-7, D-7 & E-7	MES
26	D-4	RAW WATER PUMP HOUSE
27	E-3	STP
28	D-9	SWITCHYARD
29	D-7, D-7 & E-7	TG BUILDING
30	D-8, D-8 & E-8	TRANSFORMER YARD
31	E-3	WEIGH BRIDGE
32	H-6	AHP BA & FA SILD MCC
33	D-7, D-7 & E-7	AHP BOTTOM ASH CONVEY
34	D-7, D-7 & E-7	AHP BOTTOM ASH SILD
35	D-6	AHP COMPRESSOR HOUSE-1
36	C-6	AHP COMPRESSOR HOUSE-2
37	D-6	AHP FLY ASH INTERMEDIATE SILD
38	H-6	AHP FLY ASH SILD
39	E-9	MISC. SWITCH GEAR BLDG.
40	F-11	CHP - LODD SHED
41	H-5	SILD UTILITY BLDG
42	E-5	CHP-COAL CONVEY
43	F-4, F-4	CHP-COAL STOCK PILE A,B,C,D
44	G-4	CHP-CRUSHER HOUSE
45	-	-
46	-	-
47	G-5	CHP-PUMP HOUSE-A (ON GROUND FLR OF LS CRHD)
48	E-5	CHP-PUMP HOUSE-B
49	E-5	CSSP
50	F-3	DOZER SHED
51	D-6	LHP - GYPSUM DEWATERING BUILDING
52	E-6	LHP - LINE STONE CRUSHER HOUSE
53	E-5	LHP - TEMPORARY GYPSUM STORAGE SHED
54	D-4	BM PLANT
55	D-5	BM PLANT - ACID ALKALINE STORAGE
56	D-5	BM PLANT N-PIT & BACKWASH
57	D-6, D-6 & E-6	FGD - ABSORBER
58	-	-
59	D-6, D-6	COMMON FGD C ROOM & ESP CONTROL ROOM UNIT-2
60	D-4	PT CHEMICAL HOUSE
61	D-4	PT CLARIFIER
62	D-4	PT PLANT
63	D-4	DM TANKS
64	C-5	ADMIN BUILDING
65	F-5	AMMONIA STORAGE
66	D-5	AUDITORIUM
67	C-6	CANTEN
68	D-8	DG SETS
69	D-8 & D-8	FIRE FIGHTING - BRILL TOWER
70	D-5	FIRE FIGHTING - FIRE STATION
71	D-7	FIRE FIGHTING - FIRE WATER BOOSTER PUMP HOUSE
72	D-5	FIRE FIGHTING - FIRE WATER PUMP HOUSE
73	D-5	FIRE FIGHTING - FIRE WATER TANKS
74	D-5	FIRE FIGHTING - FLOWING PUMP HOUSE
75	F-4	FIB BUILDING
76	D-5	IT BUILDING
77	C-5	GATE COMPLEX
78	D-4	OPEN STORAGE YARD
79	D-5	OWNERS OFFICE
80	C-5	SAFETY PARK
81	E-5	OWNER'S STORES (CONSTRUCTION)
82	D-4	STORIES (GND)
83	C-5	TIME OFFICE
84	E-3	WORKSHOP
85	-	-
86	E-7	AHP MCC-1 (SWITCHEAR CUM BCS ROOM)
87	D-7	AHP MCC-2 (SWITCHEAR CUM BCS ROOM)
88	D-7	AHP MCC-3 (SWITCHEAR CUM BCS ROOM)
89	D-6	AHP MCC-4 (SWITCHEAR CUM CONTROL ROOM)
90	H-5	AHP MCC-5 (SWITCHEAR CUM BCS ROOM)
91	H-6	CHP MCC-1 (SWITCHEAR CUM BCS ROOM)
92	G-7	CHP MCC-2 (SWITCHEAR CUM BCS ROOM)
93	G-4	CHP MCC-4 (SWITCHEAR CUM CONTROL ROOM)
94	E-4	CHP MCC-5 (SWITCHEAR CUM BCS ROOM)
95	E-6	CHP MCC-6 (SWITCHEAR CUM BCS ROOM)

SPECIAL NOTE:
 PLANT GRID ARE ROTATED AT AN ANGLE OF 44° COUNTER CLOCKWISE AND COMMON POINT OF ROTATION IS 1000E,1000N AS PER NEW GRID SYSTEM AND 325640E,2615460N AS PER OLD GRID SYSTEM (SURVEY GRID) AS SHOWN IN THE DRAWING.

LEGEND:

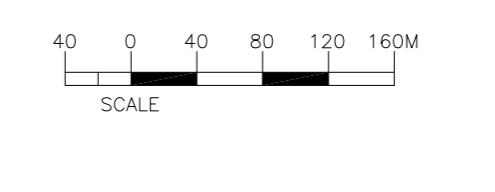
1. ROADS (DOUBLE LINE)	----
2. ROADS (SINGLE LINE)	----
3. EXISTING FACILITIES/BUILDING	▨
4. OWNER'S LAND BOUNDARY LINE	----
5. SLOPE LINE	-----
6. SLOPE WALL (2.1M HIGH BRICK WORK) FOR ISOLATION OF EXISTING STATION	-----
7. PIPE CUM CABLE TRESTLE (PEM)	----
8. CABLE TRESTLE (PEM)	----
9. CONSTRUCTION LIGHTNING MAST	○
10. CABLE TRESTLE (SC)	-----

REFERENCE DRGS:

SL No.	TITLE	DRG. NUMBER	SCOPE
1	REFERENCE PLOT PLAN	9585-999-POC-F-001	NTPC

NOTES:-

- ALL DIMENSIONS ARE IN MM & ELEVATIONS IN METERS UNLESS STATED OTHERWISE.
- FINISH FLOOR LEVEL = RL (+)375.50 M, CORRESPONDS TO PLANT EL 0.0M (GROUND FLOOR OF STG BUILDING) FINISHED GROUND LEVEL OF BOP AREAS AS MARKED.
- LOCATION/SIZE OF BOP FACILITIES IS TENTATIVE ONLY



JOB NO.	434
STATUS	CONTRACT
DISTRIBUTION	

NTPC DRG NO.: 9585-001-999-POC-F-001

CUSTOMER
 NTPC LIMITED

3x800MW PATRATU SUPER THERMAL POWER PROJECT

CONTRACTOR
 BHARAT HEAVY ELECTRICALS LTD
 POWER SECTOR
 PROJECT ENGINEERING MANAGEMENT
 NOIDA

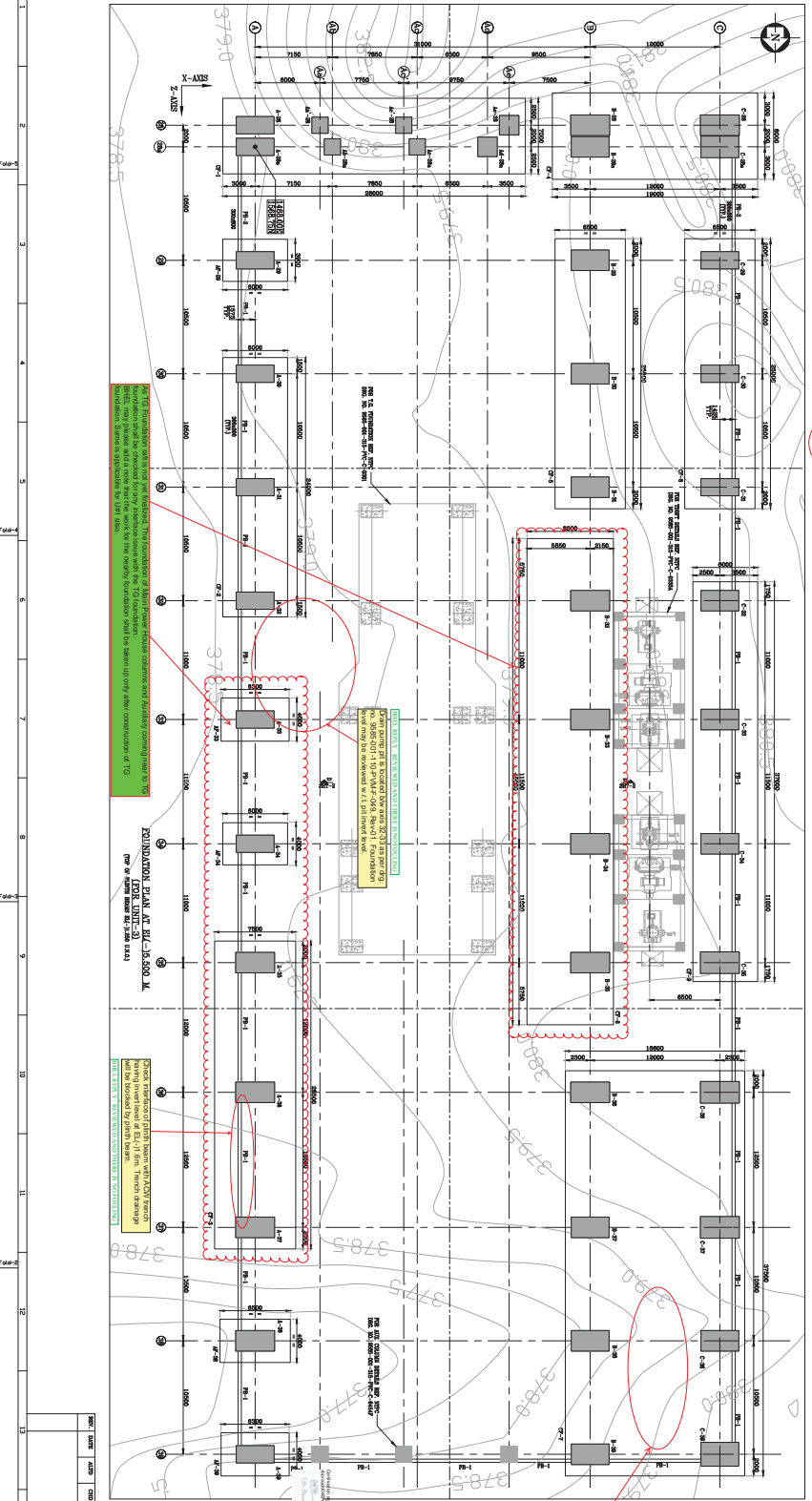
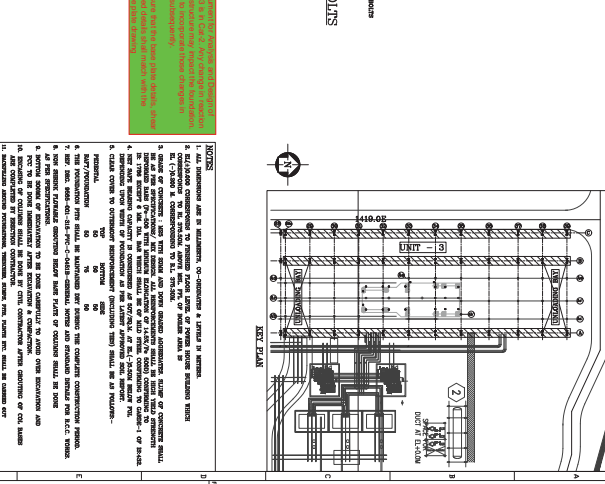
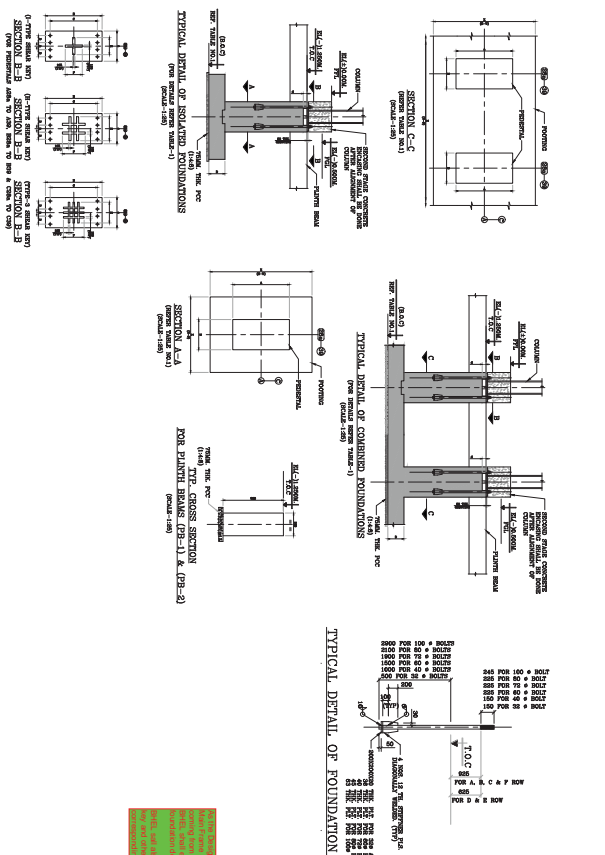
REV.	DATE	ALTD	CHD	APPD	REV.	DATE	ALTD	CHD	APPD
1	27.09.2018	EC	BA	JP	1	18.07.2018	EC	BA	JP
2					1				

TITLE
 PLOT PLAN

DEPT. SCALE 1:45 DRAWING NO. PE-DG-434-100-M001
 SHEET 1 OF 1 REV. 3F

SCHEDULE OF FOUNDATION/FOUNDATION DETAIL

S.No.	Foundations Made	Founding (D/C)	Size of footing (mm)		Column / Wall / Height (mm)	Size of pile shaft (mm)		Foundation Soil Details						Type of Soil		
			(N)	(E/W)		(D)	(N)	(E/W)	Depth (mm)	Area (mm ²)	Perimeter (mm)	Length (mm)	Width (mm)		Height (mm)	
1			2500	2500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
2			2500	2500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
3			2500	2500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
4			2500	2500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
5			2500	2500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
6			2500	2500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
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8			2500	2500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
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10			2500	2500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
11			2500	2500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
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18			2500	2500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
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20			2500	2500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
21			2500	2500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
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32			2500	2500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
33			2500	2500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
34			2500	2500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
35			2500	2500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
36			2500	2500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
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39			2500	2500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
40			2500	2500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
41			2500	2500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
42			2500	2500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
43			2500	2500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
44			2500	2500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
45			2500	2500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000



3800DW PATRATU SUPPER THERMAL POWER PROJECT

BHARAT HEAVY ELECTRICALS LTD

PROJECT ENGINEERING MANAGEMENT

CLIENT: NTPC LIMITED

PROJECT NO. 434

DWG NO. 9895-001-315-PVC-C-0454C

TITLE: MAIN ENGINE HOUSE BUILDINGS ON ROW A TO C

DATE: 15/07/2010

BY: [Signature]

CHECKED: [Signature]

APPROVED: [Signature]

SCALE: AS SHOWN

SHEET NO. 1 OF 2

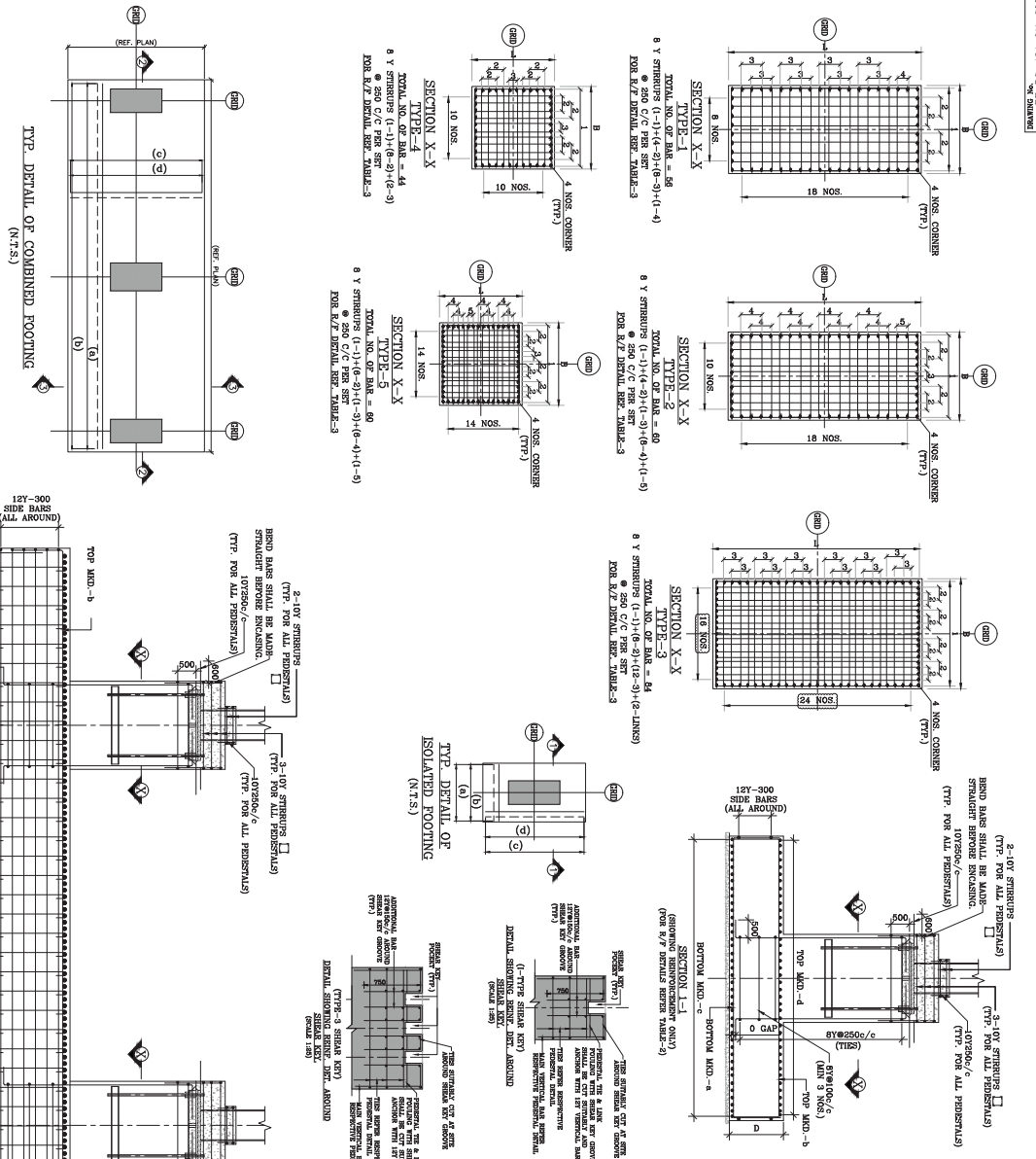
PROJECT LOCATION: PATRATU SUPPER THERMAL POWER PROJECT, PATRATU, WEST BENGAL, INDIA

TABLE-2
FOOTING R/P SUMMARY

S.NO.	Foundation	Parallel to Power House		Perpendicular to Power House		Sole base RE	Shear RE
		Bar Mat (a)	Bar Mat (b)	Bar Mat (c)	Bar Mat (d)		
1	CFI	25 Y 175	25 Y 175	25 Y 175	25 Y 175	12 Y 300	-
2	A/20	30 Y 200	30 Y 200	30 Y 200	30 Y 200	12 Y 300	-
3	A/13	32 Y 150	32 Y 150	30 Y 150	30 Y 150	12 Y 300	-
4	A/13	30 Y 175	30 Y 175	30 Y 175	30 Y 175	12 Y 300	-
5	A/13	30 Y 200	30 Y 200	30 Y 200	30 Y 200	12 Y 300	-
6	A/13	32 Y 150	32 Y 150	30 Y 150	30 Y 150	12 Y 300	8 Y 300
7	A/20	30 Y 175	30 Y 175	30 Y 175	30 Y 175	12 Y 300	-
8	A/20	30 Y 175	30 Y 175	30 Y 175	30 Y 175	12 Y 300	-
9	A/13	32 Y 150	32 Y 150	30 Y 150	30 Y 150	12 Y 300	8 Y 300
10	A/13	32 Y 150	32 Y 150	30 Y 150	30 Y 150	12 Y 300	8 Y 300
11	A/13	32 Y 150	32 Y 150	30 Y 150	30 Y 150	12 Y 300	8 Y 300
12	A/13	32 Y 150	32 Y 150	30 Y 150	30 Y 150	12 Y 300	8 Y 300
13	A/13	32 Y 150	32 Y 150	30 Y 150	30 Y 150	12 Y 300	8 Y 300
14	A/13	32 Y 150	32 Y 150	30 Y 150	30 Y 150	12 Y 300	8 Y 300

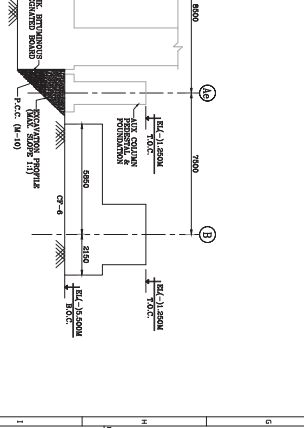
TABLE-3
PILASTER R/P SUMMARY

Ref ID	Size of pedestal	Total no. of Long Bars	Total no. of Short Bars	Splicing TYPE
A38	1000 x 300	16	56	250 TYPH-1
A39	1000 x 300	16	56	250 TYPH-1
A40	1000 x 300	16	56	250 TYPH-1
A41	1000 x 300	16	56	250 TYPH-1
A42	1000 x 300	16	56	250 TYPH-1
A43	1000 x 300	16	56	250 TYPH-1
A44	1000 x 300	16	56	250 TYPH-1
A45	1000 x 300	16	56	250 TYPH-1
A46	1000 x 300	16	56	250 TYPH-1
A47	1000 x 300	16	56	250 TYPH-1
A48	1000 x 300	16	56	250 TYPH-1
A49	1000 x 300	16	56	250 TYPH-1
A50	1000 x 300	16	56	250 TYPH-1
A51	1000 x 300	16	56	250 TYPH-1
A52	1000 x 300	16	56	250 TYPH-1
A53	1000 x 300	16	56	250 TYPH-1
A54	1000 x 300	16	56	250 TYPH-1
A55	1000 x 300	16	56	250 TYPH-1
A56	1000 x 300	16	56	250 TYPH-1
A57	1000 x 300	16	56	250 TYPH-1
A58	1000 x 300	16	56	250 TYPH-1
A59	1000 x 300	16	56	250 TYPH-1
A60	1000 x 300	16	56	250 TYPH-1
A61	1000 x 300	16	56	250 TYPH-1
A62	1000 x 300	16	56	250 TYPH-1
A63	1000 x 300	16	56	250 TYPH-1
A64	1000 x 300	16	56	250 TYPH-1
A65	1000 x 300	16	56	250 TYPH-1
A66	1000 x 300	16	56	250 TYPH-1
A67	1000 x 300	16	56	250 TYPH-1
A68	1000 x 300	16	56	250 TYPH-1
A69	1000 x 300	16	56	250 TYPH-1
A70	1000 x 300	16	56	250 TYPH-1
A71	1000 x 300	16	56	250 TYPH-1
A72	1000 x 300	16	56	250 TYPH-1
A73	1000 x 300	16	56	250 TYPH-1
A74	1000 x 300	16	56	250 TYPH-1
A75	1000 x 300	16	56	250 TYPH-1
A76	1000 x 300	16	56	250 TYPH-1
A77	1000 x 300	16	56	250 TYPH-1
A78	1000 x 300	16	56	250 TYPH-1
A79	1000 x 300	16	56	250 TYPH-1
A80	1000 x 300	16	56	250 TYPH-1
A81	1000 x 300	16	56	250 TYPH-1
A82	1000 x 300	16	56	250 TYPH-1
A83	1000 x 300	16	56	250 TYPH-1
A84	1000 x 300	16	56	250 TYPH-1
A85	1000 x 300	16	56	250 TYPH-1
A86	1000 x 300	16	56	250 TYPH-1
A87	1000 x 300	16	56	250 TYPH-1
A88	1000 x 300	16	56	250 TYPH-1
A89	1000 x 300	16	56	250 TYPH-1
A90	1000 x 300	16	56	250 TYPH-1
A91	1000 x 300	16	56	250 TYPH-1
A92	1000 x 300	16	56	250 TYPH-1
A93	1000 x 300	16	56	250 TYPH-1
A94	1000 x 300	16	56	250 TYPH-1
A95	1000 x 300	16	56	250 TYPH-1
A96	1000 x 300	16	56	250 TYPH-1
A97	1000 x 300	16	56	250 TYPH-1
A98	1000 x 300	16	56	250 TYPH-1
A99	1000 x 300	16	56	250 TYPH-1
A100	1000 x 300	16	56	250 TYPH-1



BILL OF QUANTITY

S.NO.	DESCRIPTION	UNIT	QUANTITY
1	REINFORCING (MESH)	SQ.M	33800
2	CONCRETE	CUM	12000
3	FORMWORK	SQ.M	15000
4	BRICKWORK	SQ.M	10000
5	PAINT	SQ.M	10000
6	LABOUR	MAN-DAY	10000
7	TRANSPORT	SQ.M	10000
8	WATER	SQ.M	10000
9	ELECTRICITY	SQ.M	10000
10	TESTING	SQ.M	10000
11	PROTECTION	SQ.M	10000
12	MAINTENANCE	SQ.M	10000
13	DEMOLITION	SQ.M	10000
14	REPAIR	SQ.M	10000
15	OTHER	SQ.M	10000
16	TOTAL REINFORCING (MESH)	SQ.M	33800



NOTES

- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- ALL REINFORCING SHALL BE MADE IN ACCORDANCE WITH IS:1786.
- CONCRETE SHALL BE OF GRADE M20.
- FORMWORK SHALL BE OF GRADE M20.
- BRICKWORK SHALL BE OF GRADE M20.
- PAINT SHALL BE OF GRADE M20.
- LABOUR SHALL BE OF GRADE M20.
- TRANSPORT SHALL BE OF GRADE M20.
- WATER SHALL BE OF GRADE M20.
- ELECTRICITY SHALL BE OF GRADE M20.
- TESTING SHALL BE OF GRADE M20.
- PROTECTION SHALL BE OF GRADE M20.
- MAINTENANCE SHALL BE OF GRADE M20.
- DEMOLITION SHALL BE OF GRADE M20.
- REPAIR SHALL BE OF GRADE M20.
- OTHER SHALL BE OF GRADE M20.

33800W PATRATU SUPPER THERMAL POWER PROJECT

BHARAT HEAVY ELECTRICALS LTD

PROJECT MANAGER

DESIGNER

CHECKER

APPROVED

DATE

SCALE

PROJECT NO.

454

33800W PATRATU SUPPER THERMAL POWER PROJECT

MAIN POWER HOUSE BUILDING UNIT 3

6.1 & 6.2 DETAILS OF FOUNDATIONS ON R/W 1 TO 3

DATE

15/07/2015

SCALE

1:100

PROJECT NO.

454

33800W PATRATU SUPPER THERMAL POWER PROJECT

BHARAT HEAVY ELECTRICALS LTD

PROJECT MANAGER

DESIGNER

CHECKER

APPROVED

DATE

15/07/2015

SCALE

1:100