

To

ALL BIDDERS

JOB: COLLECTION OF MATERIALS FROM BHEL/CLIENT'S STORES/STORAGE YARD, TRANSPORTATION TO SITE, **ERECTION , TESTING & COMMISSIONING, TRIAL OPERATION AND HANDING OVER OF BOILER AND ITS AUXILIARIES** INCLUDING ESP, AIR PREHEATERS, DUCTS AND DAMPERS, FANS, COAL MILLS, FUEL PIPING, BOILER INTEGRAL PIPING, POWER CYCLE PIPING, CHEMICAL DOZING SYSTEM, LINING & INSULATION, FINAL PAINTING (INCLUDING SUPPLY OF PAINT) ETC FOR **UNIT-3 & 4 OF 2X660 MW NTPC MOUDA PROJECT** AT MOUDA, DISTRICT NAGPUR IN MAHARASHTRA STATE

SI No	Tender Specification Number	Unit Number & Project
1	BHE/PW/PUR/MADT2 - BLR(Vertical Pkg) U 3/1088	600 MW Boiler Vertical Pkg of Unit 3
2	BHE/PW/PUR/MADT2 - BLR(Vertical Pkg) U 4/1089	600 MW Boiler Vertical Pkg of Unit 4

Bidders to kindly take note of the following:

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AA) Clarification to the Queries of Bidder

SI No.	Reference Clause	Bidder's query	BHEL's clarification
1	Clause No 2.0: Sr. No. 7 at page no. 33 & Sr No. 13 at page 34 of Vol IA 'TCC'	As per Sr. No.7 Pre-commissioning/ commissioning are in contractor scope and as per Sr No 13 only assistance during commissioning is to be provided by contractor. Please Clarify.	Commissioning is in BHEL scope. However contractor has to assist during commissioning activities as per instruction of BHEL engineer.
2	Chapter IV of Vol IA 'TCC' Sr No. 17 at page 43	As per tender 5 sets of Iridium – 192 is required. We feel that two nos. of IR 192 is sufficient. Please confirm.	04 sets of Iridium -192 are required
3	Cl. No. 3.1.2 (a) at page 35, Cl. No. 3.2.1 at page 36 and Cl. No. 3.2.3 at page 37 of Vol I A TCC– facilities in the scope of contractor / BHEL of TCC	As per tender, Open space for labour colony and power connection for construction is to be provided by BHEL free of cost whereas the power connection for labour / staff colony is to be arranged by contractor. Please confirm that power connection for labour and staff colony shall also to be provided by BHEL on chargeable basis.	Power supply for labour colony shall be provided at one point of the plant boundary either of 11 KV or 415 V depending on the distance. It shall be responsibility of the sub-contractor to take the power supply up to point of their use. The supply of electricity for labour colony shall be on chargeable basis at rates prevaluted at site.
4	Sr. No. 35 on page 45 of Vol IA 'TCC' – List of T&P to be deployed by contractor	Usually BHEL provides only one HT pump to contractor with variable pressure. As such please confirm if three pumps are required or only one will do.	One HT Pump each of 450 & 250 Kg/Cm² is in the scope of Contractor. One HT Pump of 1000 kg/cm² shall be deployed by BHEL
5	Cl. 3.2.1 (a) at page 36 of Vol IA TCC – facilities in the scope of contractor / BHEL	As per tender Single point power connection shall be provided by BHEL at a distance of 1000 meter from site. Laying of cable for power connection for a distance of 1000 meter, voltage drop shall be very high for 440 Volt supply and also for such a distance there will be chances of damaging of cable by other agency shall be very high. You may	Construction power shall be taken through shortest possible distance. The distance of 1000 mtr is approximate and may vary as per site conditions. Overhead lines are not permitted

SI No.	Reference Clause	Bidder's query	BHEL's clarification
		allow us to lay overhead lines for such a distance. Pl. confirm	
6	Sr No. 5 & 7 at pages 50 & 51 of vol IA 'TCC' – T&P's to be deployed by BHEL	As per tender Crane Operator for BHEL owned crane / hiring basis will be provided by BHEL / hire agency. Please confirm that operator is provided free of cost or on chargeable basis	Operator will be provided free of cost for BHEL owned/hired crane.
7	Clause No. 11.9 at page98 and Clause. No. 17.15 at page 129 of Vol IA TCC	As per Cl. 11.9 The contractor shall perform work with in quoted rates And as per cl. 17.15 - Contractor shall carry out perform by contractor Since BHEL is the manufacturer, pl. let us know the range / kind of services / tests required.	Contractor has to perform tests like EDTA Cleaning, steam blowing, air leak test of ESP, Kerosene test of duct, other tests during pre-commissioning & commissioning activities etc. which will be related with equipment erected under scope of contract by Contractor.
8	Cl. No. 4.2.2.9 on page 12 of Vol IC 'SCC'	As per clause 'the area and infrastructure development Shall be responsibility of contractor' Pl, confirm the approx. area which the contractor has to back fill & consolidate so that proper costing could be done.	The approaches for placement of contractors scope cranes in Boiler & ESP is considered for area development. However the clause number 4.2.2.9 on page 12 of SCC shall prevail.
09	Clause 3.3.0, 3.3.1a, at page no. 37 Chapter III of Vol IA 'TCC',	As per specification Water supply for construction purpose is in bidder scope. Please confirm whether DM water for hydro test, chemical cleaning & flushing provided by BHEL (or) Not.	DM water for hydro test shall be provided by BHEL.
10	Clause No 13.2, Para 2 Chapter III of Vol IA TCC	As per tender Neutralization pit for EDTA cleaning is to be made by the contractor. What is the size of pit? Any kind of flooring is required or not? What will be the volume of effluent to be disposed?	Sample drawing of 1200 m ³ of Neutralisation PIT is attached here with as (Annexure I to Corrigendum III). The requirement for 660 MW Unit would be 1500 m ³ (25 mX 30mX 2m)
11	Annexure-I of Vol IA 'TCC', Estimated weight for various system in scope of work at page no. 93	Table Column of HERP Varansi: tonnage under Rotating part: There is no rate schedule identifier in rate schedule.	Rate schedule identifier is 2.1 as already mentioned in the Annexure-I of Vol IA 'TCC'.
12	Annexure-I of Vol IA 'TCC', Estimated weight for various system in scope of work at page no. 93	Items Under Rate schedule Identifier 3.1 at Page 81 of Vol IA 'TCC have been Stroked out. However same is appearing under Tricy column at Page 93.	Strike out part is not in the scope of bidder. Same has been deleted in the summary of estimated weight of Annexure I of vol IA 'TCC' (Corrected Summary Sheet of Annexure-I is enclosed here with as Annexure II to Corrigendum III.)
13		Please provide the List of BHEL approved brands of "Non Shrink Grout Mix", as only CONBEXTRA GP 1 / GP 2 are mentioned in Tender Spec.	CONBEXTRA GP 1 / GP 2 only is the approved make.
14	Annexure II 'List of IBR Weld Joints' in Vol IA TCC	It is mentioned that the tentative HP erection Joints is 52,569 + 276. Does this include Critical Piping also? Please confirm.	It does not include critical piping joints. Details of tentative power cycle piping joints are as follows:

SI No.	Reference Clause	Bidder's query	BHEL's clarification
			HP Piping (P-91) MS, HRH, HPBP, LPBP, Aux. PRDS -316 Nos. HP PIPING - CRH, BFD, SPRAY WATER PIPING- 627 nos. Above number of joints are only tentative and it may vary upward & downward
15	Annexure-I of Vol IA 'TCC', Estimated weight for various system in scope of work at Page Nos 92, 93 and 94	Rate Schedule Identifier SI No. 5.5, Wool Mattress, PC Chennai Supply: Quantity indicated in page 92 is 4,00,000 Kg and in Page 94 i.e summary sheet, it is indicated as 4,88,500 kg. Please Clarify	Correct tonnage is 4,88,500 kg as indicated in Annexure I of Vol IA TCC 'Summary Sheet' at Page 94.
16	Annexure-I of Vol IA 'TCC', Estimated weight for various system in scope of work at Page Nos 93 and 94	Total of Sr.No. 4.3, 4.4, 4.6 & total of IS-Motor (Bhopal) are not matching	Total Summary sheet Annexure -1 of Vol IA 'TCC' has been amended. (Corrected Summary Sheet of Annexure-I is enclosed here with as Annexure II to corrigendum III.)
17	Annexure-I of Vol IA 'TCC', Estimated weight for various system in scope of work at Page Nos 93 and 94	Tonnage of Temporary piping for chemical cleaning and steam blowing is not indicated in Annexure-1 (Summary) of Vol IA TCC	Tentative tonnage of temporary piping are given in Vol II 'Price Bid Specification'. However further details are issued as Annexure III to Corrigendum III.
18	Annexure II 'List of IBR Weld Joints' in Vol IA TCC	IBR weld joints location, diameter and thickness details are not available.	Details from 2X660 MW NTPC Barh project is enclosed here with as (Annexure IV to corrigendum III) . The details provided are only for reference & it may vary to any extent.
19	Volume-II - Price Bid, and Annexure-1 of Vol IA 'TCC'	Quantity of Piping P22 is not given in Volume-II - Price Bid and Annexure-1 of Vol IA 'TCC'	P-22 piping is covered under rate schedule identifier of 4.2 'Piping - AS')
20	Cl. No. 4.1.4 at page 7 of Vol IC 'SCC'	Title of Clause No 4.1.4 of Volume IC' SCC' may be read as: "TIG Filler Wire for Boiler and Filler wires and Electrodes for P-91/T-91 Piping"	

BB) REVISION IN VOLUME II PRICE BID SPECIFICATIONS:

Percentage Weightage for **SI No 1.2 'Pressure Parts'** of Volume II Price bid Specification shall be reckoned as **'130 % of X'** in place of '115 % of X'.

Calculation of Total Price based on the 'Single Notional Rate - X' quoted by the bidder shall be based on the revised Percentage for SI No 1.2 'Pressure Parts' indicated herein.

CC) Negative Price Impact on Quoted Price:

Bidders who have already submitted the offers and consider revising their price consequent upon the Revision/Clarifications above, can submit the Negative Price Impact' on the quoted 'Single Notional Rate' in the format attached.

Duly filled in and signed format sealed in a envelope shall reach us before the due date of offer submission, failing which original 'single Notional price' quoted by the bidder shall be considered for the evaluation.

Sealed envelope shall super-scribe, tender Specification Number and the title 'Negative Price Impact based on Corrigendum 03 dated 07/02/2013.'

Negative percentage impact shall be considered during price Bid opening stage and shall be applied on the 'Single Notional Rate' quoted.

DD) Volume I C ' General Conditions of Contract'

Clause No 2.26, 2.27 and 2.28 at Page 30 of Volume I B 'General conditions of Contract' has been inadvertently missed out in the tender documents issued. Same is hereby issued as **Annexure V to Corrigendum 03.**

EE) EXTENSION of LAST DATE:

The last date for submission of Tender has been re scheduled to 14/02/2013, 15.00 hrs.

Technical Bid shall be opened on 14/02/2013 at 16.00 hrs

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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 Technical Bid, a copy of this corrigendum duly countersigned by the authorized signatory and stamped with the Official seal as a token of Bidder's unqualified acceptance of this corrigendum.

This letter is hosted as file titled "Corrigendum-03 (Clarification-1091)" against NIT-13461 in BHEL web page (www.bhel.com→Tender Notifications → View Corrigendum).

Thanking you,

Yours faithfully,

AGM (Purchase)

Encl:

1. Annexure I to Corrigendum 03: Neutralizing PIT Details
2. Annexure II to Corrigendum 03: Revised Summary Sheet of Annexure I
3. Annexure III to Corrigendum 03: Details of Temporary piping
4. Annexure IV to Corrigendum 03: details of weld Joints
5. Annexure V to Corrigendum 03: GCC Clauses



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SI No	Tender Specification Number	Unit Number & Project
1	BHE/PW/PUR/MADT2 - BLR(Vertical Pkg) U 3/1088	600 MW Boiler Vertical Pkg of Unit 3
2	BHE/PW/PUR/MADT2 - BLR(Vertical Pkg) U 4/1089	600 MW Boiler Vertical Pkg of Unit 4

Format for Negative Percentage Price Impact on Quoted 'Single Notional Rate'

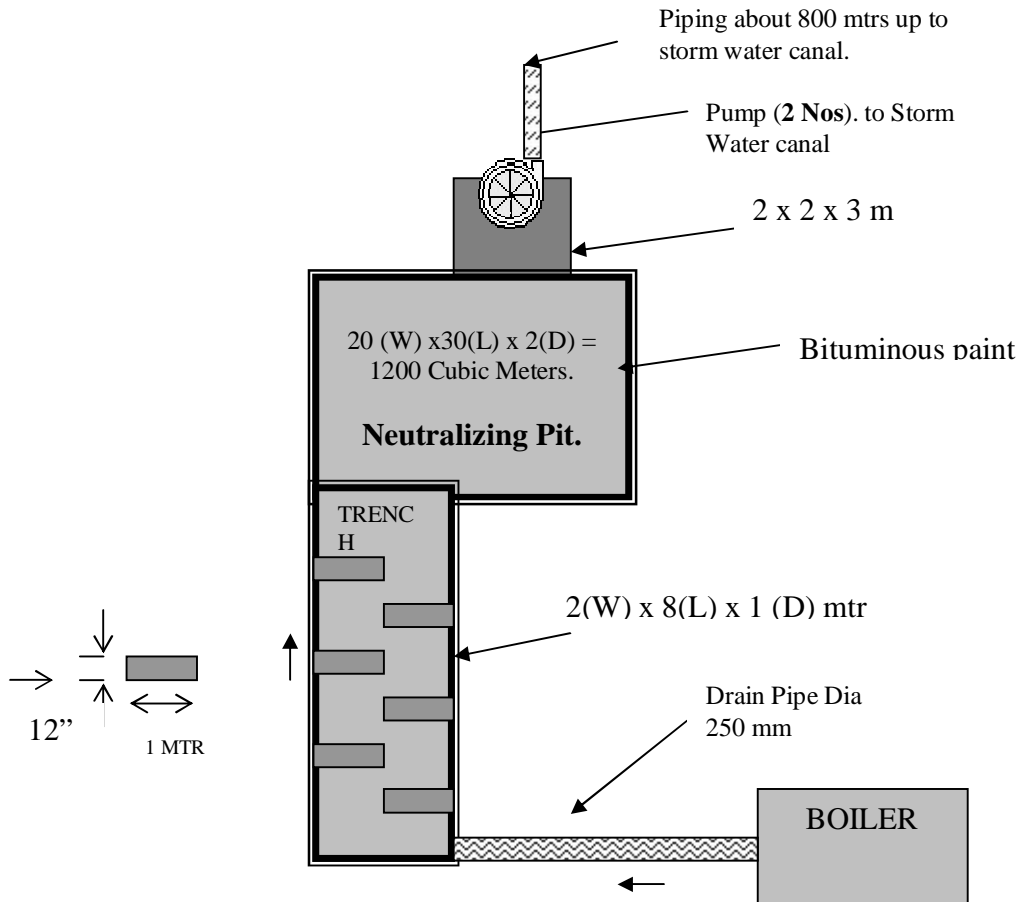
To be Submitted in Separate Sealed Envelope as detailed in SI No CC of Corrigendum 03 dated 08/02/2013

S.N.	DESCRIPTION	Negative (%) Impact Single Notional Rate
1	Erection, Testing, Assistance for Commissioning etc of ONE UNIT of Boiler –Vertical Pkg as per scope of work detailed in Tender Specification BHE/PW/PUR/MADT2-BLR(Vertical Pkg) /1088-1089	MINUS % (IN FIGURES) MINUSPERCENT (IN WORDS)
		NO CHANGE OR,

Bidders may kindly note that the Negative percentage impact offered shall be applied to the 'Single Notional Price' Quoted in the Price Bid' rounded of to the 2 places of decimal and the Total Amount shall be calculated accordingly.

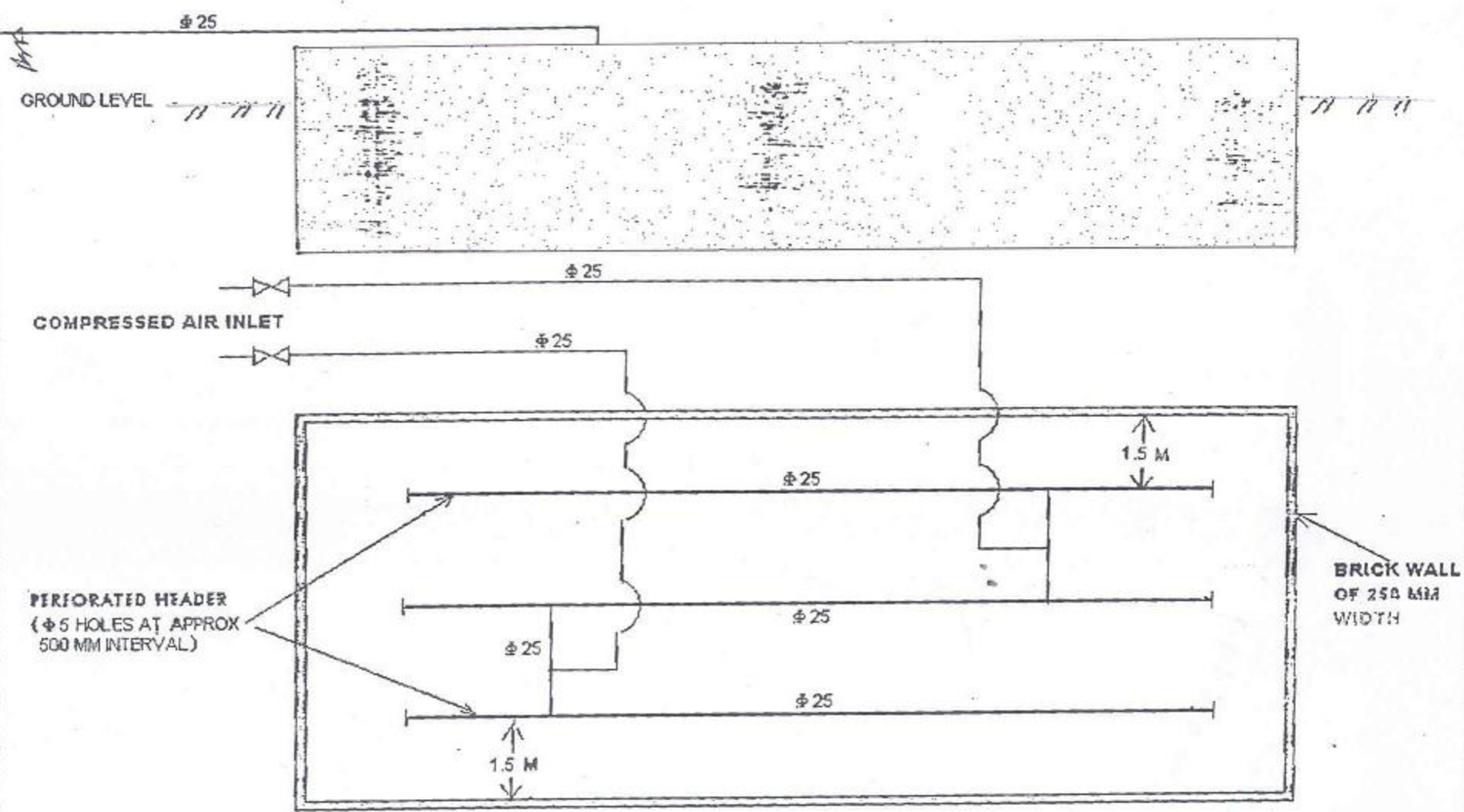
**Annexure I to Coorigendum 03 dated 08/02/2013 issued to
T.S.No: BHE/PW/PUR/MADT2-BLR(Vertical Pkg)/1088-1089**

NEUTRALISING PIT FOR 500 MW TPS BOILER ACID CLEANING



Note:

1. The neutralizing pit to be made of Bricks and cemented/plastered from inside with bituminous paint.
2. The length of the trench may be extended to the suitable point up to waste disposal.
3. All dimensions are in meters.
4. The W (width) and L(Length) dimensions can be altered keeping the area (20 x 30 x 2 meter = 1200 Sq. Meter) constant depending upon space at site .
5. 2 Nos. of dewatering pump, Suction head (-) 3 meter ,Discharge head 5 to 8 mtrs. Flow 50 to 60 Cubic meter .



NEUTRALISING PIT OF SIZE 16M X 25 M X 3M

(FOR EDTA CLEANING)

TECHNICAL CONDITIONS OF CONTRACT (TCC)
Annexure-I ESTIMATED WEIGHT FOR VARIOUS SYSTEMS IN
SCOPE OF WORK (Revised issued with corrigendum 03)

Estimated Weight (In KG) of Various System in The Scope of Work for Unit # 1

SN	Package	Trichy	PC - Chennai	BAP - RPT	Hyderabad	HERP - Varanasi	CBU	Jhansi	IS - Motor	PEM	Total
1.1	Structure	13299250	0	0	0	0	0	0	0	0	13299250
1.2	Pressure Parts	7937702	0	455860	0	0	0	0	0	0	8393562
1.3	Non Pressure Parts (Upto ESP Inlet Funnel)	4703000	0	614837	0	0	325000	0	0	0	5642837
2.1	Rotating Machines	1716400	0	409492	1516280	78220	0	0	185000	0	3905392
2.2	Handling Equipment of Rotating Machines	23100	0	0	0	0	0	0	0	12000	35100
3.1	ESP	0	0	8988173	0	0	0	509240	0	0	9497413
3.2	Non Pressure Parts (ESP Outlet Funnel to Chimney)	3016700	0	521535	0	0	0	0	0	0	3538235
4.1	Piping - P91	0	733000	0	0	0	0	0	0	0	733000
4.2	Piping - AS	0	252950	0	0	0	0	0	0	0	252950
4.3	Piping - CS (HP)	0	476500	0	0	0	0	0	0	0	476500
4.4	Piping - CS (LP)	101970	1373750	0	0	0	0	0	0	0	1475720
4.5	Piping - SS	0	2000	0	0	0	0	0	0	0	2000
4.6	Piping - Hangers and Support	56225	920500	0	0	0	0	0	0	0	976725
4.7	Piping - Temporary (Steam Blowing)	0	0	0	0	0	0	0	0	0	0
4.8	Piping - Temporary (Chemical Cleaning)	0	0	0	0	0	0	0	0	0	0
5.1	Insulation	700	1000	0	0	0	0	0	0	0	1700
5.2	Pourable and Castable	265000		0	0	0	0	0	0		265000
5.3	Iron Parts	6300	30000	0	0	0	0	0	0	50000	86300
5.4	Aluminium Cladding Sheets		160000	90324	0	0	0	0	0	85000	335324
5.5	Wool Mattress	978320	488500	381495	0	0	0	0	0	600000	2448315
Total =		32104667	4436200	11461716	1516280	78220	325000	509240	185000	747000	51365323

**ANNEXURE III TO CORRIGENDUM 03 DATED 08/02/2013 ISSUED TO
T.S.No BHE/PW/PUR/MADT2 BLR(VERTICAL PKG)/1088-1089
SUGGESTED BOM FOR STEAM BLOWING ACTIVITY - MAUDA 660 MW**

SR NO.	DESCRIPTION	MATERIAL SPECN	QUANTITY	AREA
1	PIPE Ø 355.6 X 11.13	SA 106 GR B	250 m	MS blowing pipe, loop between ESV and CRH NRV
2	PIPE Ø 508 X 16	SA 106 GR B	70 m	HPBP loop line
3	PIPE Ø 610 X 10	SA 672 GR B70	220 m	HRH blowing pipe, CRH blowing pipe
4	PIPE Ø 406.4 X 12.7	SA 106 GR B	100 m	LPBP blowing pipe
5	PIPE Ø 323.9 X 9.53	SA 106 GR B	150 m	HPBP loop, TDBFP blowing pipe
6	PIPE Ø 219.1 X 8.18	SA 106 GR B	150 m	Overload line loop, Misc Aux steam line blowing
7	PIPE Ø 168.3 X 7.11	SA 106 GR B	150 m	Overload line blowing line, Aux Steam blowing line
8	PIPE Ø 114.3 X 6.02	SA 106 GR B	80 m	Seal steam blowing line
9	ASME B16.9 BW LR 90DEG ELBOW Ø 355.6 X 11.13	SA 234 WPB	20 NOS.	Bends in MS blowing pipe, loop between ESV outlet line tapping and CRH NRV
10	ASME B16.9 BW LR 90DEG ELBOW Ø 508 X 16	SA 234 WPB	10 NOS.	Bends in HPBP loop line
11	ASME B16.9 BW LR 90DEG ELBOW Ø 610 X 10	SA 234 WPB	20 NOS.	Bends in HRH and CRH blowing lines
12	ASME B16.9 BW LR 90DEG ELBOW Ø 406.4 X 12.7	SA 234 WPB	6 NOS.	Bends in LPBP blowing lines
13	ASME B16.9 BW LR 90DEG ELBOW Ø 323.9 X 9.52	SA 234 WPB	10 NOS.	Bends in HPBP loop, TDBFP blowing pipe
14	ASME B16.9 BW LR 45DEG ELBOW Ø 323.9 X 9.53	SA 234 WPB	2 NOS.	Elbow in TDBFP blowing pipe exhaust end
15	ASME B16.9 BW LR 45DEG ELBOW Ø 355.6 X 11.13	SA 234 WPB	2 NOS.	Elbow in MS blowing pipe exhaust end
16	ASME B16.9 BW LR 45DEG ELBOW Ø 508 X 16	SA 234 WPB	2 NOS.	Elbow in HPBP loop line
17	ASME B16.9 BW LR 45DEG ELBOW Ø 610 X 10	SA 234 WPB	4 NOS.	Elbow in HRH blowing pipe, CRH blowing pipe exhaust end
18	ASME B16.9 BW LR 45DEG ELBOW Ø 406.4 X 12.7	SA 234 WPB	6 NOS.	Elbow in LPBP blowing pipe exhaust end
19	ASME B16.9 BW EQ TEE Ø 355.6 X 11.13	SA 234 WPB	2 NOS.	Tapping from MS blow pipe for CRH NRV upstream end loop connection
20	ASME B16.9 BW FABRICATED UNEQ TEE Ø 660 X 20 / Ø 610 X 10	SA 234 WPB	2 NOS.	Tapping from CRH line to CRH exhaust
21	ASME B16.9 BW FABRICATED UNEQ TEE Ø 864 X 29 / Ø 355.6 X 11.13	SA 234 WPB	1 NO.	CRH NRV upstream line end to ESV outlet loop connection
22	ASME B16.9 BW FABRICATED UNEQ TEE Ø 355.6 X 11.13 / Ø 219.1 X 8.18	SA 234 WPB	2 NO.	Tapping from CRH-MS loop line to overload line connection
23	ASME B16.9 BW REDUCER Ø 864 X 29 / Ø 355.6 X 11.12	SA 234 WPB	1 NO.	CRH line end to ESV outlet loop connection
24	ASME B16.9 BW REDUCER Ø 355.6X 11.13 / Ø 323.9 X 20	SA 234 WPB	2 NOS.	ESV outlet
25	ASME B16.9 BW REDUCER Ø 508 X 16 / Ø 355.6 X 11.13	SA 234 WPB	2 NOS.	HPBP loop line
26	ASME B16.9 BW REDUCER Ø 864 X 29 / Ø 355.6 X 11.12	SA 234 WPB	2 NOS.	CRH NRV upstream line end to ESV outlet loop connection
27	ASME B16.9 BW REDUCER Ø 660 X 20 / Ø 610 X 10	SA 234 WPB	2 NOS.	Tapping from CRH line to CRH exhaust
28	ASME B16.9 BW REDUCER Ø 508 X 20 / Ø 323.9 X 9.53	SA 234 WPB	2 NO.	HPBP loop line dia change
29	ASME B16.9 BW MATCHING PIECE Ø 355.6X 11.13 / Ø 323.9 X 20	SA 234 WPB	2 NO.	ESV outlet
30	ASME B16.9 BW MATCHING PIECE Ø 660X 23 / Ø 610 X 10	SA 234 WPB	2 NO.	CRH exhaust

**ANNEXURE III TO CORRIGENDUM 03 DATED 08/02/2013 ISSUED TO
T.S.No BHE/PW/PUR/MADT2 BLR(VERTICAL PKG)/1088-1089**

31	ASME B16.9 BW MATCHING PIECE Ø 323.9X 48(P91) / Ø 323.9 X 9.53 GRB	WELDMNT	2 NOS.	HPBP permanent- temporary matching
32	TARGET PLATE ASSEMBLY NB 300	WELDMNT	2 NOS.	TDBFP exhaust
33	TARGET PLATE ASSEMBLY NB 350	WELDMNT	2 NOS.	MS exhaust
34	TARGET PLATE ASSEMBLY NB 600	WELDMNT	4 NOS.	HRH exhaust , CRH exhaust
35	TARGET PLATE NB 300	SS	50 NOS	TDBFP exhaust
36	TARGET PLATE NB 350	SS	50 NOS	MS exhaust
37	TARGET PLATE NB 600	SS	75 NOS	CRH exhaust, HRH exhaust
38	TARGET PLATE NB 400	SS	20 NOS	LPBP exhaust
39	PLATE t=50, Ø 380	SA 515 GR70	4 NO.	Blank
40	PLATE t=60, Ø 520	SA 515 GR70	4 NO.	Blank
41	PLATE t=80, Ø 715	SA 515 GR70	10 NO.	Blank
42	TEMP STUB M33 X 2 (HT 45)		6 NOS.	In Blow exhaust line
43	QUICK OPENING MOTOR OPERATED VALVE Nb350, 2500 class	CLASS 2500	4 NOS.	MS blowing pipe, loop line between MS and CRH, HPBP loop line
44	HAND OPERATED VALVE Nb350	CLASS 2500	1 NO.	Overload line isolation
45	HAND OPERATED VALVE Nb200	CLASS 2500	1 NO.	MS-CRH loop line isolation
46	HAND OPERATED VALVE Nb50	Class 800	10 NOS.	drain
47	HAND OPERATED VALVE Nb25	Class 800	10 NOS.	drain
48	SHORTH LENGTH THERMOWELL (150 mm)		20 Nos	For disturbance factor calculation in MS, CRH, HRH, HPBP, LPBP lines
49	THERMOCOUPLE (suitable for 150 mm thermowell) K type		20 Nos	For disturbance factor calculation in MS, CRH, HRH, HPBP, LPBP lines
50	PRESSURE TRANSMITTER 0- 20 Kg/cm2 range		3 NOS.	For disturbance factor calculation in exhaust lines
51	ISMB 400		60 m	For anchoring exhaust pipe end
52	ISMB 200		80 m	support material
53	ISMC 200		80 m	support material
54	ISMB 150		80 m	support material
55	ISMC 150		100 m	support material

SUGGESTED BOM FOR PREBOILER ALKALI FLUSHING AND BOILER ACID CLEANING ACTIVITY - MAUDA 660 MW

SR NO.	DESCRIPTION	MATERIAL SPECN	QUANTITY	AREA
1	PIPE Ø 406.4 X 12.7	SA 106 GR B	30 m	Pump Suction header
2	PIPE Ø 323.9 X 9.57	SA 106 GR B	30 m	Pump discharge header, each pump suction line
3	PIPE Ø 273 X 9.1	SA 106 GR B	700 m	Each pump discharge line, System I/L & O/L, loop lines near deaerator
4	PIPE Ø 219.1 X 8.18	SA 106 GR B	250 m	loop lines in drip system, LPBP spray
5	PIPE Ø 168.3 X 7.11	SA 106 GR B	300 m	Loop lines in drip system, chemical filling line to bottom ring header, Pump Recirculation line, DM water supply line
6	PIPE Ø 114.3 X 6.02	SA 106 GR B	300 m	Steam supply, overflow, EDTA supply & outlet line
7	PIPE Ø 48.3 X 5.08	SA 106 GR B	300 m	Drain lines, pump gland cooling header, EDTA transfer line, CC pump suction manifold drain line, sample cooler cooling water line

**ANNEXURE III TO CORRIGENDUM 03 DATED 08/02/2013 ISSUED TO
T.S.No BHE/PW/PUR/MADT2 BLR(VERTICAL PKG)/1088-1089**

8	PIPE Ø 21.3 X 3.73	SA 106 GR B	100 m	Vent lines, sampling lines, pump gland cooling lines
9	PIPE Ø 273.1 X 9.1	API 5LGRB (ERW)	1500 m	System drain to neutralising pit
10	ASME B16.9 BW LR 90DEG ELBOW Ø 168.3 X 7.11	SA 234 WPB	15 NO.	
11	ASME B16.9 BW LR 90DEG ELBOW Ø 219.1 X 8.18	SA 234 WPB	15 NO.	
12	ASME B16.9 BW LR 90DEG ELBOW Ø 114.3 X 6.02	SA 234 WPB	12 NO.	
13	ASME B16.9 BW LR 90DEG ELBOW Ø 273 X 9.1	SA 234 WPB	15 NO.	
14	ASME B16.9 BW EQ TEE ELBOW Ø 273 X 9.1	SA 234 WPB	12NO.	
15	ASME B16.9 BW EQ TEE ELBOW Ø 219.1 X 8.18	SA 234 WPB	4 NO.	
16	SW EQUAL TEE NB - 1.5 INCH CL-3000	SA105	2 NO.	
17	ASME B16.9 BW UN EQ TEE Ø 323.9 X 9.57 / Ø 273 X 9.1	SA 234 WPB	12 NO.	
18	ASME B16.9 BW UN EQ TEE Ø 273.9 X 9.1 / Ø 219.1 X 8.18	SA 234 WPB	8 NO.	
19	ASME B16.9 BW UN EQ TEE Ø 323.9 X 9.57 / Ø 168.3 X 7.11	SA 234 WPB	1 NO.	
20	ASME B16.9 BW UN EQ TEE Ø 323.9 X 9.57 / Ø 114.3 X 6.02	SA 234 WPB	1 NO.	
21	ASME B16.9 BW UN EQ TEE Ø 273 X 9.1 / Ø 219.1 X 8.18	SA 234 WPB	1 NO.	
22	ASME B16.9 BW UN EQ TEE Ø 273 X 9.1 / Ø 168.3 X 7.11	SA 234 WPB	1 NO.	
23	SW UNEQUAL TEE NB - 1.5 INCH/0.5 INCH CL-3000	SA105	6 NO.	
24	ASME B16.9 BW REDUCER Ø 323.9 X 9.57 / Ø 273.3 X 9.1	SA 234 WPB	2 NO.	
25	ASME B16.9 BW REDUCER Ø 273.3 X 9.2 / Ø 219.1 X 8.18	SA 234 WPB	14 NO.	
26	ASME B16.9 BW REDUCER Ø 219.1 X 8.18 / Ø 168.3 X 7.11	SA 234 WPB	4 NO.	
27	ASME B16.9 BW REDUCER Ø 168.3 X 7.11 / Ø 114.3 X 6.02	SA 234 WPB	6 NO.	
28	ASME B16.11 SW STUB NB-15 CLASS -3000 (CS)	SA 105	12 NO.	
29	ASME B16.11 SW STUB NB-40 CLASS -3000 (CS)	SA 105	4 NO.	
30	PLATE	IS2062 Fe410WA	12 mm X 2 m X 120 m	Storage and mixing Tank fabrication, Blanks, support plate
31	TEMPERATURE STUB M33X2 (CS)	SA105	4 NO.	
32	PACKING RING M33 X 2	IS 1972	4 NO.	
33	SCREW PLUG M33 X 2	SA 105	4 NO.	
34	CHANNEL 150 mm		300 m	Pipe support, tank stiffener, ladder
35	ISMB BEAM 600 mm, each 10 m length		8 nos	Tank floor support
36	HAND OPERATED GATE VALVE, NB 300, CLASS 800		5 NOS	Pump suction
37	HAND OPERATED GATE VALVE, NB 250, CLASS 800		5 nos	Pump discharge
38	HAND OPERATED GLOBE VALVE, NB 250, CLASS 600		2 NOs.	System I/L & O/L pressure control valve

**ANNEXURE III TO CORRIGENDUM 03 DATED 08/02/2013 ISSUED TO
T.S.No BHE/PW/PUR/MADT2 BLR(VERTICAL PKG)/1088-1089**

39	HAND OPERATED GATE VALVE, NB 250, CLASS 800		2 NOs.	Netrailingising pit - canal changeover valves
40	NRV, Nb300, CLASS 800		5 nos	Pump discharge
41	HAND OPERATED GATE VALVE, NB 200, CLASS 800		6 nos	Stage isolation valves
42	HAND OPERATED GATE VALVE, NB 150, CLASS 800		3 NOs.	Pump Recirculation, DM water supply, overflow
43	HAND OPERATED GATE VALVE, NB 100, CLASS 800		4 Nos	Steam supply, EDTA supply & outlet line
44	HAND OPERATED GATE VALVE, NB 50, CLASS 800		20 nos	drain valves
45	HAND OPERATED GATE VALVE, NB 25, CLASS 800		20 nos	drain & vent valves

**ANNEXURE V TO CORRIGENDUM 03 DATED 08/02/2013 ISSUED WITH
T.S.No BHE/PW/PUR/MADT2-BLR(Vertical Pkg)/1088-1089**

General Conditions of Contract (Common for Power Sector Regions)
(Document No. PS:MSX:GCC. Rev 01)

1st June 2012

2.23 REVERSE AUCTION:

BHEL reserves the right to go for Reverse Auction for Price Bid Opening by BHEL appointed service provider, instead of opening the submitted sealed price bid in the conventional way. The Business Rules for Reverse Auction shall be as per BHEL guidelines issued from time to time.

2.24 SUSPENSION OF BUSINESS DEALINGS

BHEL reserves the right to take action against Contractors who either fail to perform or Tenderers/Contractor who indulge in malpractices, by suspending business dealings with them in line with BHEL guidelines issued from time to time.

2.25 OTHER ISSUES

2.25.1 Value of Non judicial Stamp Paper for Bank Guarantees and for Contract Agreement shall be not less than Rs 100/- unless otherwise required under relevant statutes.

2.25.2 In case of any conflict between the General Conditions of Contract and Special Conditions of Contract, provisions contained in the Special Conditions of Contract shall prevail.

2.25.3 Unless otherwise specified in NIT, offers from consortium/JVs shall not be considered.

2.25.4 BHEL may not insist for signing of Contract Agreements in respect of low value and short time period contracts like providing services for Hot water flushing, Chemical Cleaning, Transportation, etc