

TENDER SPECIFICATION

SI No	Tender Specification Number	Unit Number & Project
1	BHE/PW/PUR/ DHJOI-BLR (BLOCK-I)/966	UTILITY BOILER 1, HRSG 2 AND 4 (Block I)
2	BHE/PW/PUR/ DHJOI-BLR (BLOCK-II)/967	UTILITY BOILER 2, HRSG 1 AND 3 (Block II)

RECEIPT/COLLECTION/LOADING/UNLOADING/TRANSPORTATION OF MATERIALS FROM BHEL/CLIENT'S STORES/STORAGE YARD TO SITE OF WORK, ERECTION, TESTING, COMMISSIONING, SUPPLY OF PAINTS/PRIMER AND APPLICATION OF PAINTS FOR FINAL PAINTING AND HANDING OVER OF 220 TPH UTILITY BOILER (UB) + 110 TPH HEAT RECOVERY STEAM GENERATORS (HRSG) ALONG WITH ITS AUXILIARIES, STEEL STACK WITH COMPLETE PLATFORMS ETC INCLUDING ELECTRICAL WORK OF STACK, PIPING (POWER CYCLE PIPING, INTEGRAL PIPING, CONDENSATE & FEED WATER PIPING, DM WATER, HSD & NAPHTHA PIPING, NATURAL GAS, COOLING WATER, REGENERATIVE CYCLE PIPING, INCLUDING PLANT AIR, INSTRUMENT AIR & SERVICE AIR PIPING ETC.) WITH ASSOCIATED FITTINGS, VALVES, HANGERS & SUPPORTS, APPLICATION OF THERMAL INSULATION OF UB AND HRSG WITH AUXILIARIES, STEEL STACK, PIPING WITH VALVES & FITTINGS INCLUDING GAS TURBINE AND STEAM TURBINE SET EQUIPMENTS – HEATERS, DE-AERATOR, TANKS, VESSELS & PIPING ETC FOR OPAL (ONGC PETRO ADDITIONS LIMITED) STEAM AND POWER GENERATION SYSTEM PACKAGE FOR DAHEJ PETROCHEMICAL COMPLEX, SPLIT AS (Block I) UTILITY BOILER 1, HRSG 2 AND 4, (Block II) UTILITY BOILER 2, HRSG 1 AND 3.

AT

2X30MW STG + 2X220 TPH UB + 4XFr6 B GT + 4X110 TPH HRSG AT OPaL,
DAHEJ- BHARUCH, GUJARAT

VOLUME II – PRICE BID REV01 dated 14/02/2011



BHARAT HEAVY ELECTRICALS LIMITED
(A GOVERNMENT OF INDIA UNDERTAKING)
POWER SECTOR - WESTERN REGION
345, KINGS WAY - NAGPUR 440 001

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AT

**2X30MW STG + 2X220 TPH UB + 4XFr6 B GT + 4X110 TPH HRSG AT OPAL,
DAHEJ- BHARUCH, GUJARAT**

EARNEST MONEY DEPOSIT: Refer Notice Inviting Tender
LAST DATE FOR Refer Notice Inviting Tender
TENDER SUBMISSION .

THESE TENDER SPECIFICATION DOCUMENTS CONTAINING VOLUME-I AND VOLUME- II ARE ISSUED TO:

M/s.

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PLEASE NOTE:
THESE TENDER SPECS DOCUMENTS ARE NOT TRANSFERABLE.

For Bharat Heavy Electricals Limited

ADDITIONAL GENERAL MANAGER (Purchase)
Place: Nagpur
Date :

IMPORTANT INFORMATION

This tender is for 6 Units of Steam Generators (2 Units of 220 TPH Utility Boiler and 4 Units of 110 TPH HRSG), which is divided into 2 Blocks. Block – I comprises of (UB # 1, HRSG 2 & 4) and Block – II comprises of (UB # 2, HRSG 1 & 3).

1. Tender specification (Volume I) is common for both the Blocks.
2. Both the BLOCKS shall be awarded to separate agencies.
3. Rates for E & C of Steam Generators in ONE BLOCK has been invited in Volume II price bid specification.
4. Bidders are required to submit their rates/price for Steam Generators in ONE BLOCK only in Volume II Price bid
5. L-1 bidder shall be considered for award of BLOCK 1 (**UB # 1, HRSG 2 & 4**).
6. For award of BLOCK 2 (**UB # 2, HRSG 1 & 3**), next bidder in the order of their price competitiveness (i.e L-2, then L-3 and hence forth) shall be given an option to match their Per unit rate/price, with the Awarded per unit rate/price of BLOCK I. In case none of the bidders agree to match the Awarded per unit rate of BLOCK I, then BHEL may consider awarding the BLOCK 2 (**UB # 2, HRSG 1 & 3**) to L-1 bidder or opt any other suitable method to finalize BLOCK 2 (**UB # 2, HRSG 1 & 3**).
7. In case after award of job, the agency fails to display satisfactory performance in execution of job and BHEL feels it is necessary to make alternate arrangement to execute balance work or any portion of work on risk purchase basis or otherwise, then BHEL reserves the right to exercise the method mentioned in SI No 6 to finalize another/additional agency.

BHEL-PSWR-NAGPUR

VOLUME-II PRICE BID REV 01 DATED 14/02/2012 SPECIFICATION FOR ONE BLOCK

Tender Specification No: BHE/PW/PUR/ DHJOI-BLR(BLOCK-I)/966 & BHE/PW/PUR/ DHJOI-BLR(BLOCK-II)/967

PRICE SCHEDULE FOR ONE BLOCK OF STAEM GENERATOR (1 UNIT OF 220 TPH UB AND 2 UNITS OF 110 TPH HRSG)									
SL.NO	Contract (Main Package) - UBs, HRSGs	Rate schedule Identifier	QTY	UNIT	RATE PER UNIT (In Figures)	RATE PER UNIT (In Word)	TOTAL AMOUNT (In Figures)	PGMAs covered	Remarks
1	Boiler (UBs, HRSGs)	Structure	2160	MT				08, 09, 35, 36, 37, 38, 39, 41, 97	
2	Boiler (UBs, HRSGs)	Pressure Parts (Incl. Heat Transfer Module of HRSG)	1532	MT				04, HL, 05, 06, 07(part), 10, 11, 12, 18, 19, 20, 21, 24, 42, 43, 81, 33, 08,	
3	Boiler (UBs, HRSGs)	Non Pressure Parts	501	MT				07(part), 18, 19, 24, 28, 30, 31, 32, 41, 42, 43, 45, 48, 57, 81, HL, 80	
4	RM (UBs, HRSGs)	Rotating Machines (FD/ GR Fans etc and aux.), Handling Equipments of Rotating Machines	166	MT				99, 50, 53, 56	
5	STEEL STACK (UBs, HRSGs)	Chimney in Shell/Sections, Foundation parts/Materials, Platforms, Ladders etc and Painting trolley etc.	219	MT				87	
6	PIPING (UBs, HRSGs))	UB Piping (PC Chennai Supply)	40	MT				80	
7	PIPING (UBs, HRSGs)	Power Cycle Piping, Regenerative Cycle piping, Tanks and Vessels etc.	34	MT				12, 19, 80, 81	
8	PIPING (UBs, HRSGs)	IBR Piping with fittings-CS (PC Chennai Supply)	219	MT					All Pipes, Flanges & Fittings are supplied by Piping Centre, Chennai Valves are supplied by BHEL-Tiruchy or Other manufacturers.

DATE

SIGNATURE OF BIDDER

BHEL-PSWR-NAGPUR

VOLUME-II PRICE BID REV 01 DATED 14/02/2012 SPECIFICATION FOR ONE BLOCK

Tender Specification No: BHE/PW/PUR/ DHJOI-BLR(BLOCK-I)/966 & BHE/PW/PUR/ DHJOI-BLR(BLOCK-II)/967

PRICE SCHEDULE FOR ONE BLOCK OF STAEM GENERATOR (1 UNIT OF 220 TPH UB AND 2 UNITS OF 110 TPH HRSG)									
SL.NO	Contract (Main Package) - UBs, HRSGs	Rate schedule Identifier	QTY	UNIT	RATE PER UNIT (In Figures)	RATE PER UNIT (In Word)	TOTAL AMOUNT (In Figures)	PGMAs covered	Remarks
9	PIPING (UBs, HRSGs)	IBR Piping with fittings-AS (PC Chennai Supply)	267	MT					All Pipes, Flanges & Fittings are supplied by Piping Centre, Chennai Valves are supplied by BHEL-Tiruchy or Other manufacturers.
10	PIPING (UBs, HRSGs)	NON-IBR Piping with fittings-CS (EMRP Supply)	266	MT					Mitre bends and reducers to be made at site
11	PIPING (UBs, HRSGs)	NON-IBR Piping with fittings-SS (EMRP Supply)	6	MT					
12	PIPING (UBs, HRSGs)	Pipe Hanger Assemblies, Structural Steel for Pipe Supports	23	MT					
13	INSULATION (UBs, HRSGs)	Insulation/Wool Mattress	169	MT				33, 81	
14	INSULATION (UBs, HRSGs)	Pourable and Castable	61	MT				33	
15	INSULATION (UBs, HRSGs)	Iron parts/Anciliary materials	47	MT				32, 37	
16	INSULATION (UBs, HRSGs)	Aluminium Cladding Sheets	96	MT				32, 28, 37	
Grand Total Amount (Figures)								-----	-----
Grand Total Amount (In Words)				RUPEES.					

NOTE:

1. NO UNCALLED FOR ENTRIES SHALL BE MADE IN THE RATE SCHEDULE, WHICH OTHERWISE MAY LEAD TO THE REJECTION OF OFFER.
2. OVERWRITINGS, CORRECTIONS, IF ANY, SHALL BE AUTHENTICATED BY THE SIGNATURE OF THE BIDDER.

DATE

SIGNATURE OF BIDDER