

# TENDER SPECIFICATION

S N	Tender Specification Number	Unit Number & Project
1	BHE/PW/PUR/ DHJOI-PIPG / PKG I/1077	PIPING FOR UB1, HRSG 2 & 4 + STG1, GT/GTG 2 & 4 (PKG-I)
2	BHE/PW/PUR/ DHJOI-PIPG / PKG II/1078	PIPING FOR UB2, HRSG 1 & 3 + STG2, GT/GTG 1 & 3 (PKG-II)

FOR

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, APPLICATION OF THERMAL INSULATION & SHEETING/CLADDING WORK AND HANDING OVER OF COMPLETE POWER CYCLE PIPING / EXTERNAL PIPING /FIELD PIPING TOGETHER WITH VALVES, HANGERS AND SUPPORTS, FITTINGS BOTH IBR PIPING (CARBON STEEL AND ALLOY STEEL) AND NON-IBR PIPING (CARBON & SS STEEL), COMPLETE WITH ASSOCIATED PIPES, FITTINGS AND ASSOCIATED, ACCESSORIES SPECIALITIES AND OTHER ACCESSORIES & EQUIPMENTS INCLUDING BOUGHT OUT ITEMS ETC FOR OPAL (ONGC PETRO ADDITIONS LIMITED) STEAM AND POWER GENERATION SYSTEM PACKAGE FOR DAHEJ PETROCHEMICAL COMPLEX, PACKAGE – I FOR PIPING FOR UB1, HRSG 2&4, STG1 AND GT/GTG 2&4 AND PACKAGE – II FOR UB 2, HRSG 1&3, STG2 AND GT/GTG 1&3.

AT

2X220 TPH UB + 2X30MW STG + 4XFr6 B GT + 4X110 TPH HRSG  
AT ONGC PETRO ADDITIONS LIMITED, SEZ, DAHEJ GUJARAT

PART II – PRICE BID

BOOK NO.



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

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

**TENDER SPECIFICATION NO.**

S N	Tender Specification Number	Unit Number & Project
1	<b>BHE/PW/PUR/ DHJOI-PIPG / PKG I/1077</b>	PIPING FOR UB1, HRSG 2 & 4 + STG1, GT/GTG 2 & 4 (PKG-I)
2	<b>BHE/PW/PUR/ DHJOI-PIPG / PKG II/1078</b>	PIPING FOR UB2, HRSG 1 & 3 + STG2, GT/GTG 1 & 3 (PKG-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, APPLICATION OF THERMAL INSULATION & SHEETING/CLADDING WORK AND HANDING OVER OF COMPLETE POWER CYCLE PIPING / EXTERNAL PIPING /FIELD PIPING TOGETHER WITH VALVES, HANGERS AND SUPPORTS, FITTINGS BOTH IBR PIPING (CARBON STEEL AND ALLOY STEEL) AND NON-IBR PIPING (CARBON & SS STEEL), COMPLETE WITH ASSOCIATED PIPES, FITTINGS AND ASSOCIATED, ACCESSORIES SPECIALITIES AND OTHER ACCESSORIES & EQUIPMENTS INCLUDING BOUGHT OUT ITEMS ETC FOR OPAL (ONGC PETRO ADDITIONS LIMITED) STEAM AND POWER GENERATION SYSTEM PACKAGE FOR DAHEJ PETROCHEMICAL COMPLEX, PACKAGE – I FOR PIPING FOR UB1, HRSG 2&4, STG1 AND GT/GTG 2&4 AND PACKAGE – II FOR UB 2, HRSG 1&3, STG2 AND GT/GTG 1&3.

LAST DATE AND TIME FOR  
RECEIPT OF OFFERS

THESE TENDER DOCUMENTS CONTAINING PART-I TECHNICAL BID (VOLUME I & II )AND PART- II  
PRICE BID, ARE ISSUED TO:

M/s. ....

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(THESE TENDER DOCUMENTS ARE NOT TRANSFERABLE)

FOR BHARAT HEAVY ELECTRICALS LIMITED

DGM (PURCHASE)

PLACE: NAGPUR

DATE:

## **IMPORTANT INFORMATION**

**1. This is a combined tender for Piping works for UB1, HRSG 2 & 4 + STG1, GT/GTG 2 & 4 (PACKAGE- I) & Piping work for UB2, HRSG 1 & 3 + STG2, GT/GTG 1 & 3 (PKG-II) of Opal Dahej Project**

- i Tender specification (Volume I) is common for both Packages (**Package I & Package-II**).
- ii **Package I & Package-II** shall be awarded to separate agencies.
- iii **Bidder has to submit price for One Package of Piping Works as indicated in the Price Bid.**
- iv L-1 Bidder shall be considered for award of Package-I
- v For award of Package-II, 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 price/rate, with the Awarded/Finalised price/rate of Package-II. In case none of the bidders agree to match the Awarded Lump sum price of Package-I, then BHEL may consider awarding the Package-II to L-1 bidder or opt any other suitable method to finalize Package-II

**BHEL-PSWR-NAGPUR**

**PART-II PRICE BID (RATE SCHEDULE)  
NO: BHE/PW/PUR/DHJOI-PIPG / PKG I/1077 &  
BHE/PW/PUR/DHJOI-PIPG / PKG II/1078**

<b>PRICE SCHEDULE FOR EACH PACKAGE</b>									
<b>SL.NO</b>	<b>Contract (Piping Package) - UBs, HRSGs</b>	<b>Rate schedule Identifier</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE PER UNIT IN RS ( In Figure )</b>	<b>Rate in Rs ( In Words )</b>	<b>TOTAL AMOUNT</b>	<b>PGMAs covered</b>	<b>Remarks</b>
1	PIPING (UBs, HRSGs, STG. GT/GTGS))	IBR Piping with fittings-CS (PC Chennai Supply)	240	MT				80, 81, xx	IBR pipes are supplied in single commercial lengths with edge prepared and fully formed like bends, curvature, coupler for pipes, branches etc.
2	PIPING (UBs, HRSGs, STG. GT/GTGS))	IBR Piping with fittings-AS (PC Chennai Supply)	266.78	MT				80, xx	IBR pipes are supplied in single commercial lengths with edge prepared and fully formed like bends, curvature, coupler for pipes, branches etc.
3	PIPING (UBs, HRSGs, STG. GT/GTGS))	NON-IBR Piping with fittings-CS (EMRP Supply)	554	MT					Non-IBR Pipes are supplied in Single commercial lengths, with edge prepared
4	PIPING (UBs, HRSGs, STG. GT/GTGS))	NON-IBR Piping with fittings-SS (EMRP Supply)	19	MT					--do--

DATE

SIGNATURE OF BIDDER

**BHEL-PSWR-NAGPUR**

**PART-II PRICE BID (RATE SCHEDULE)  
NO: BHE/PW/PUR/ DHJOI-PIPG / PKG I/1077 &  
BHE/PW/PUR/ DHJOI-PIPG / PKG II/1078**

5	PIPING (UBs, HRSGs, STG. GT/GTGS)	Pipe Hanger Assemblies, Structural Steel for Pipe Supports	11.67	MT					
6	INSULATION (UBs, HRSGs, STG. GT/GTGS)	Insulation/Wool Mattress	122	MT					
7	INSULATION (UBs, HRSGs, STG. GT/GTGS)	Iron parts/Anciliary materials	15	MT					
8	INSULATION (UBs, HRSGs, STG. GT/GTGS)	Aluminium Cladding Sheets	20	MT					
Grand Total Amount (Figures)									
Grand Total Amount (In Words)				RUPEES.					

**NOTE: Bidder should note the followings before quoting the rates:**

1. IBR pipes are supplied in single commercial lengths with edge prepared and fully formed like bends, curvature, coupler for pipes, branches etc.
2. Non-IBR Pipes are supplied in Single commercial lengths, with edge preparation by EMRP.
3. Cutting into required spool lengths, edge preparation of spools, welding of Stubs & support attachments are to be done at Site by Erection Agency.
4. IBR pipes are supplied in single commercial lengths with edge prepared and fully formed like bends, curvature, coupler for pipes, branches etc.

DATE

SIGNATURE OF BIDDER

**BHEL-PSWR-NAGPUR**

**PART-II PRICE BID (RATE SCHEDULE)  
NO: BHE/PW/PUR/DHJOI-PIPG / PKG I/1077 &  
BHE/PW/PUR/DHJOI-PIPG / PKG II/1078**

5. As far as possible welding shall be done with Orbital/automated welding machine. Bidders shall provide plan for automated pre-fabrication & installation of piping including welding and confirm mobilization of required equipment accordingly. Quoted price shall be inclusive of these aspects.
6. Bidder shall deploy any additional construction equipment (not categorically mentioned in T&P deployment plan) if required to meet the contractual schedule without any extra time & cost implication.
7. Bidders to provide proper arrangement for monsoon combat including suitable coverage for of pipe rack for uninterrupted construction activities during monsoon period.
8. No uncalled entries shall be made in the rate schedule, which otherwise may lead to the rejection of offer.
9. Overwriting, corrections, if any, shall be authenticated by the signature of the bidder.

DATE

SIGNATURE OF BIDDER