

# TENDER SPECIFICATION

**BHE/PW/PUR/HZRI-DHJRI-PIPG/1427-1428**

**FOR**

**A**

**JOB:** 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 **Unit # 1, 2, 3 & 4 OF 4x93.1 MW RUPPL HMD HAZIRA PROJECT** At MORA, RELIANCE UTILITIES AND POWER PVT. LTD DIST- SURAT, GUJARAT

**B**

**JOB:** 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 **UNIT # 1, 2 & 3 OF 3X90.3 MW RUPPL DMD DAHEJ PROJECT** AT RELIANCE UTILITIES AND POWER PVT. LIMITED (RUPPL), DAHEJ TALUKA : VAGRA, DIST- BHARUCH, GUJARAT

**VOLUME – II**

**(PRICE BID SPECIFICATION)**



**BHARAT HEAVY ELECTRICALS LIMITED**

(A GOVERNMENT OF INDIA UNDERTAKING)  
POWER SECTOR : WESTERN REGION  
345, KINGSWAY : NAGPUR 440 001

# TENDER SPECIFICATION

**BHE/PW/PUR/HZRI-DHJRI-PIPG/1427-1428**

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**JOB:** 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 **UNIT # 1, 2 & 3 OF 3X90.3 MW RUPPL DMD DAHEJ PROJECT** AT RELIANCE UTILITIES AND POWER PVT. LIMITED (RUPPL), DAHEJ TALUKA : VAGRA, DIST- BHARUCH, GUJARAT

EARNEST MONEY DEPOSIT: Please see Special Conditions of Contract.

LAST DATE FOR  
TENDER SUBMISSION: Please see Notice Inviting Tender

THESE TENDER DOCUMENTS CONTAINING Volume-**I** (TECHNICAL BID SPECIFICATION) AND Volume- **II**: PRICE BID (ARE ISSUED TO:

M/s.....

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(TENDER DOCUMENTS ARE NOT TRANSFERABLE)

FOR BHARAT HEAVY ELECTRICALS LIMITED

AGM (Purchase)  
PLACE: NAGPUR  
DATE :

**Bharat Heavy Electricals Limited (PSWR, Nagpur)**  
**Tender Specification no. BHE/PW/PUR/HZRI-DHJRI-PIPG/1427-1428**  
**Volume- II: Price Bid Specification**

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**A : Schedule of Quantities and Applicable Rate per Unit of Measurement**

**For HMD Hazira**

SL.NO	Item	QTY	UNIT	Applicable Rate per Unit of measurement
<b>A</b>	<b>Piping System (IBR)</b>			
A.1	Piping - P91	290	MT	149 % of 'X'
A.2	Piping-AS	57	MT	114 % of 'X'
A.3	Piping-CS	944	MT	100 % of 'X'
<b>B</b>	<b>Piping System (NIBR)</b>			
B.1	Piping-CS	628		86 % of 'X'
B.2	Piping-SS	134	MT	177 % of 'X'
<b>C</b>	<b>Piping-Hangers and Supports</b>	150	MT	51 % of 'X'
<b>D</b>	<b>Piping-Temporary (Steam Blowing)</b>	120	MT	33 % of 'X'
<b>E</b>	<b>Insulation</b>			
E.1	Insulation- Fixing Components Iron Parts	95	MT	49 % of 'X'
E.2	Insulation- Aluminum Cladding Sheets	47	MT	51 % of 'X'
E.3	Insulation- Wool Mattress	77	MT	35% of 'X'
E.4	Insulation- Pyrogel	27	MT	35% of 'X'

Note:

1. Rate per Unit of measurement as calculated above shall be rounded off to the nearest whole number
2. X : is the Single Notional Rate per UOM quoted by Bidder in the Price Bid

Date:

Signature & Official Seal of Bidder

**Bharat Heavy Electricals Limited (PSWR, Nagpur)**  
**Tender Specification no. BHE/PW/PUR/HZRI-DHJRI-PIPG/1427-1428**  
**Volume- II: Price Bid Specification**

**B : Schedule of Quantities and Applicable Rate per Unit of Measurement**

**For DMD Dahej**

SL.NO	Item	QTY	UNIT	Applicable Rate per Unit of measurement
<b>A</b>	<b>Piping System (IBR)</b>			
A.1	Piping - P91	263	MT	149 % of 'X'
A.2	Piping-AS	55	MT	114 % of 'X'
A.3	Piping-CS	776	MT	100 % of 'X'
<b>B</b>	<b>Piping System (NIBR)</b>			
B.1	Piping-CS	521		86 % of 'X'
B.2	Piping-SS	101	MT	177 % of 'X'
<b>C</b>	<b>Piping-Hangers and Supports</b>	120	MT	51 % of 'X'
<b>D</b>	<b>Piping-Temporary (Steam Blowing)</b>	90	MT	33 % of 'X'
<b>E</b>	<b>Insulation</b>			
E.1	Insulation- Fixing Components Iron Parts	62	MT	49 % of 'X'
E.2	Insulation- Aluminum Cladding Sheets	36	MT	51 % of 'X'
E.3	Insulation- Wool Mattress	74	MT	35% of 'X'
E.4	Insulation- Pyrogel	21	MT	35% of 'X'

Note:

1. Rate per Unit of measurement as calculated above shall be rounded off to the nearest whole number
2. X : is the Single Notional Rate per UOM quoted by Bidder in the Price Bid

Date:

Signature & Official Seal of Bidder

**Bharat Heavy Electricals Limited (PSWR, Nagpur)**  
**Tender Specification no. BHE/PW/PUR/HZRI-DHJRI-PIPG/1427-1428**  
**Volume- II: Price Bid Specification**

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**Example:-**

Say Rs 10,537.77 is the notional rate ("X") in Rupees per UOM quoted by the bidder in the price bid.

The applicable rate per MT for items referred in above table shall be as calculated below:

<b>SL.NO</b>	<b>Rate schedule Identifier</b>	<b>Applicable rate per MT (rounded off to nearest integer)</b>
A.1	Piping - P91	149% of Rs 10,537.77 = Rs 15,701/-
A.2	Piping-AS	114% of Rs 10,537.77 = Rs 12,013/-
A.3	Piping-CS	100% of Rs 10,537.77 = Rs 10,538/-
B.1	Piping-CS	86% of Rs 10,537.77 = Rs 9,062/-
B.2	Piping-SS	177% of Rs 10,537.77 = Rs 18,652/-
<b>C</b>	<b>Piping-Hangers and Supports</b>	51% of Rs 10,537.77 = Rs 5,374/-
<b>D</b>	<b>Piping-Temporary (Steam Blowing)</b>	33% of Rs 10,537.77 = Rs 3,477/-
E.1	Insulation- Fixing Components Iron Parts	49% of Rs 10,537.77 = Rs 5,163/-
E.2	Insulation- Aluminum Cladding Sheets	51% of Rs 10,537.77 = Rs 5,374/-
E.3	Insulation- Wool Mattress	35% of Rs 10,537.77 = Rs 3688/-
E.4	Insulation- Pyrogel	35% of Rs 10,537.77 = Rs 3688/-

Date:

Signature & Official Seal of Bidder

**Bharat Heavy Electricals Limited (PSWR, Nagpur)**  
**Tender Specification no. BHE/PW/PUR/HZRI-DHJRI-PIPG/1427-1428**  
**Volume- II: Price Bid Specification**

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**C: PRICE BID**

SN	Description / Item of Work	Single Notional Rate "X" in Rupees per MT	
		In Figures (In Rs.)	In words (In Rs.)
1	<b>One Single Notional Rate</b> for Erection, Testing, Assistance for Commissioning etc of <b>Piping Packages</b> of <b>RUPPL HMD Hazira &amp; DMD Dahej</b> as per scope of work detailed in Tender Specification <b>BHE/PW/PUR/HZRI-DHJRI-PIPG/1427-1428</b>		

Note :

1. Notional Rate "X" shall be quoted in Rupees and shall be up to a maximum of 2 decimal places; for example Rs 10,537.77
2. After Price Bid opening, and in case of a tie among two or more bidders in L-I rates (i.e quoting exactly the same LEAST notional rate "X" in Rupees per MT), then these bidders shall be intimated separately to submit rebate in Rupees (upto a maximum of two decimal places) in a 'SEALED ENVELOPE'. The L-I shall be the party who offers the maximum rebate and the new notional rate shall be "X" less the rebate offered.
3. In case of further tie, process of sl no 2 is repeated so as to arrive at a single L-I Notional rate
4. Total amount for the work shall be the summation of amounts obtained by multiplying respective item 'Quantities' to the applicable rate per MT (Obtained from single notional rate as explained in the Example above).

Date:

Signature & Official Seal of Bidder