



Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT/ MATERIALS MANAGEMENT

An ISO 9001
Company

ENQUIRY

NOTICE INVITING TENDER

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TWO PART BID

Tender to be submitted in two parts.

Enquiry

Number:
2631300141

Enquiry

Date:
26.12.2013

Due date for submission

of quotation:
27.01.2014

You are requested to quote the Enquiry number date and due date in all your correspondence. This is only a request for quotation and not an order.

Please note that under any circumstances both delayed offer and late offers will not be considered. Hence vendors are requested to ensure that the offer is reaching physically our office before 14.00 hrs on the Date of tender opening.

Item	Description	Quantity
10	Horizontal Centrifugal Back Pullout Design Pump with Motor	01 No.
20	100HP Motor (ABB Make) to Suit the Existing Pump Type : CBK GB 200-500S of Frame Size HX+280 SMB4	01 No.
30	75HP Motor (ABB Make) to suit Existing Pump Type:- MEGB 125-400 of Frame Size HX+250 MB4	01 No.
40	60HP Motor (Jyoti Make) to suit existing WPIL make Vertical Hollow Shaft Turbine Pump	01 No.

as per the technical specification, general guidelines instructions & commercial conditions applicable (to be downloaded from web site www.bhel.com or <http://tenders.gov.in>)

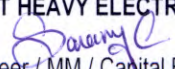
Important points to be taken care during submission of offer

1. The rate of EMD for this Tender will be (INR) – 40,000/-.
2. The Compliance Form for Commercial Terms & Conditions to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation.
3. All updates, amendments, corrigenda, etc., (if any), for each tender will be posted only on the websites from time to time, as and when required, until each tender is opened. There will be no publication of such updates, amendments, corrigenda, etc., through newspapers or any other media.

BHEL's General guidelines / instructions (refer MM/CE/GENL/001-EMD) including bank guarantee formats and list of consortium banks, commercial terms check-list can be downloaded from BHEL web site <http://www.bhel.com> or from the Government tender website <http://tenders.gov.in> (public sector units > Bharat Heavy Electricals Limited page) under Enquiry reference "2631300141".

Tenders should reach us before 14:00 hours on the due date.
Tenders will be opened at 14:30 hours on the due date.
Tenders would be opened in presence of the tenderers who have submitted their offers and who may like to be present

Yours faithfully,
For BHARAT HEAVY ELECTRICALS LIMITED


Engineer / MM / Capital Equipment

Technical Specification for Horizontal Centrifugal back pull out design pump with Motor.

Sl.No	BHEL'S SPECIFICATION		VENDOR'S CONFIRMATION	DEVIATION IF ANY
1	PUMP : Type Speed (RPM) Make Capacity Total head Efficiency NPSH (R) Service Specific Gravity Material of construction casing Impeller, Shaft, Sleeve Shaft Design	Horizontal Centrifugal back pull out pump 1450 KSB / Beacon weir / Kirloskar / Mather & Platt 200 Cum Per Hour 70 MLC 65 % 2.40 M Water 1 Cast Iron Bronze EN8 To design and submit relevant details like HP , power consumption, efficiency curve		

2	<p>MOTOR :</p> <p>Make</p> <p>Capacity</p> <p>Volts</p> <p>Phase</p> <p>Cycle</p> <p>Protection</p> <p>Insulation</p>	<p>ABB / Siemens</p> <p>75 KW</p> <p>415 with + / - 10% variation</p> <p>Three</p> <p>50 HZ</p> <p>IP 55</p> <p>Class F</p>		
3	<p>ACCESSORIES :</p>	<p>Base frame with foundation bolts , flexible coupling with coupling guard, suitable ball type foot valve HD flange ends with strainer , earthing , cable , wiring , fasteners and items not mentioned here but required for successful commissioning of pump.</p>		
4	<p>STAR DELTA STARTER :</p> <p>Make</p>	<p>Fully automatic star delta starter to match above motor.</p> <p>Siemens , L&T , Cutler Hammer .</p> <p>Shall be at least 20% more than the capacity of the motor .</p>		



	Capacity	Dust & vermin proof 14 /16G steel sheet totally enclosed indoor panel suitable for three phase		
	Panel	415 volts AC .		
	ACCESSORIES :	Sufficient numbers of suitable amper range contactors , one set of TP copper bus bar / power cables , Tape wound current transformer for metering, Bimetalic thermal over relay with single phase preventer , Digital voltmeter , Digital ammeter with selector switch , Push buttons for ON / OFF switches , Indication lamps for ON / OFF / TRIP indications . Door switch and Pneumatic timer ON / OFF delay . Control fuses / control terminals etc., all of standard make .		
5	Recommended spares	List of required spares for two years normal operation .		
6	General	Design of motor , power consumption , Efficiency curve of the proposed pump, test certificate for all items , Catalogue etc., to be submitted .		
7	Scope	Shall include supply , unloading at work site, erection & successful commissioning of pump including warranty .		
8	Quantity	One		

Technical Specification for 100HP Motor to suit the existing pump Type: (KSB make) CBK GB 200-500 S of Frame size HX + 280 SMB4 at Equalising Reservoir.

Sl.No.	BHEL's Specification		Vendor's Confirmation	Deviation if any
1	MOTOR: Make Type Kw HP RPM Frame Size Volts Phase Cycle Protection Insulation	ABB make only to suit KSB pump CBK GB 200-500 S EFF1 Squirrel cage induction type TEFC 75 100 1470 HX + 280 SMB 4 415 with +/- 10% variation Three 50 HZ with +/- 5% variation IP 55 Class F		
2	Scope	Shall include supply, unloading at work site, including warranty.		
3	Quantity	One		

Technical Specification for 75 HP Motor to suit the existing pump Type: (KSB make) MEGB 125-400 of Frame size HX + 250 MB4 at Equalising Reservoir.

Sl.No.	BHEL's Specification		Vendor's Confirmation	Deviation if any
1	MOTOR: Make Type Kw HP RPM Frame Size Volts Phase Cycle Protection Insulation	ABB make only to suit KSB pump MEGB 125-400 EFF1 Squirrel cage induction type TEFC 55 75 1470 HX + 250 MB 4 415 with +/- 10% variation Three 50 HZ with +/- 5% variation IP 55 Class F		
2	Scope	Shall include supply, unloading at work site, including warranty.		
3	Quantity	One		

Technical Specification for 60 HP Motor (preferred make Jyoti) to suit existing WPIL make vertical hollow shaft turbine pump at vengur pump house.

Sl.No.	BHEL's Specification		Vendor's Confirmation	Deviation if any
1	MOTOR: Make Type Kw HP RPM Frame Size Volts Phase Cycle Protection Insulation	Jyoti make only to suit exiting WPIL make pump Vertical Hollow shaft 45 60 1470 CVTF-225 415 with +/- 10% variation Three 50 HZ with +/- 5% variation IP 55 Class F		
2	Scope	Shall include supply, unloading at work site, including warranty.		
3	Quantity	One		