

Enquiry Corrigendum-1

NIT – 16338

Enquiry No. 2661400039 dated 24.01.2014

Due date for submission of quotation: 18.02.2014 & now extended up to 06.03.2014

Item Description: HORIZONTAL RECIPROCATING TRIPLEX PLUNGER PUMP

Details of Corrigendum:

- The due date of the tender is extended up to 06.03.2014. Kindly arrange to send your offer before the due date.
- The offer should reach us 30 minutes before the time of opening of tenders. In case the offer has been sent already, the same need not be sent again.

P.S. In the event of non-participation in this tender, please send your response without fail by email/fax.

All other terms & conditions as published in the NIT – 16338 remain unaltered.

NOTE:

Confirmation of acceptance for BHEL Commercial terms & conditions & Price Bids formats have been posted in BHEL corporate website www.bhel.com or from the government tender website <http://tenders.gov.in> (public sector→Bharat Heavy Electricals Limited page) under Enquiry reference " 2661400039"

FOR BHEL TRICHY:

ENGINEER/PURCHASE/CP & SP

ANNEXURE - I.

TECHNICAL SPECIFICATION FOR BOILER FEED PUMP-PART-B

Pl. find attached corrigendum for Enq No. - 2661400039

Sl.No.	DESCRIPTION	SPECIFICATION	BIDDER'S OFFER [with technical details]	DEVIATIONS / REMARKS
1.0	PURPOSE :			
1.1	To feed Demineralized water to boiler in Valves Steam Testing Station at building-7			
2.0	EQUIPMENT CONSTRUCTION:			
2.1	A high-pressure plunger pump coupled with Electrical Motor, Starter all of suitable capacity along with all the accessories such as Pressure Regulator - cum - Automatic Un loader Valve, Water Inlet shut off valve, Water Outlet Valve, Safety valve, Bye-Pass Valve, Pressure Relief Valve and Pressure Gauges etc., interconnected with suitable piping. The complete unit shall be erected and commissioned on the shop floor by foundation bolts.	Vendor to Confirm		
3.0	PLUNGER PUMP			
3.1	Pump Parameters			
3.1.1	Max. working pressure	300 kg/cm2(g)		
3.1.2	Discharge Capacity	50 LPM		
3.1.3	Type	Horizontal, Portable		
3.1.4	Number of Stages	Single		
3.1.5	Working Media	DM Water		
3.2.0	Special Features			
3.2.1	A pressure regulator-cum-automatic unloader valve shall be provided at the delivery end to regulate the pressure from zero to the required pressure within the rated capacity. Also one lockable safety relief valve for maximum pressure setting to be provided for the rated capacity. A pulsation dampener on the delivery line shall also be provided for continuous operation.	Vendor to Confirm		
3.2.2		Vendor to Confirm		

3.2.3	All valve seats shall be Stellite coated for long life with high efficiency and smooth functioning.	Vendor to Confirm	
3.2.4	Spring loaded stuffing box (SS304) for self-tightening of the hydraulic sealing 'V' rings in the pump shall be provided. .	Vendor to Confirm	
3.3.0	Material of Construction		
3.3.1	Pump Body ----- "A" Grade Cast Iron	Vendor to specify	
3.3.2	Pump Head-----EN-9 Steel/ C.I	Vendor to specify	
3.3.3	Plunger----- SS 304 Ground and Polished	Vendor to specify	
3.3.4	Crankshaft- -----EN-24 Forged Steel	Vendor to specify	
3.3.5	Connecting Rods----- EN-8 Forged Steel	Vendor to specify	
3.3.6	Connecting Bearings- Bi-Metal	Vendor to specify	
3.3.7	Gudgeon Pins-----High Carbon Steel	Vendor to specify	
3.3.8	Cross heads-----Cast Iron	Vendor to specify	
3.3.9	Valve & Valve Seating- S.S 410.Hardened and. Tempered with stellite Valve Seats	Vendor to specify	
3.3.10	Sealing Elements- Reinforced Synthetic Rubber Hydraulic Sealing 'V' Rings	Vendor to specify	
3.3.11	Glands----- Gun Metal	Vendor to specify	
3.3.12	Pressure Regulator-cum-Automatic Unloader Valve - SS 410	Vendor to specify	
3.3.13	Bye-pass Valve----- SS 410	Vendor to specify	
3.3.14	Pressure Relief Valve-----SS 410	Vendor to specify	
3.3.15	Safety Valve----- SS 410	Vendor to specify	
3.3.16	Isolating Valve----- SS 410	Vendor to specify	
3.3.17	Suction & delivery manifold : EN 9	Vendor to specify	
3.3.18	All pipe line connections and fitting : SS410	Vendor to specify	
4.0	Spares		
4.1	All Mechanical, Electrical, Hydraulic Spare parts required for 2 years of trouble free operation to be listed (Item wise quotation to be enclosed with price bid)	Vendor to Confirm	
5.0	GENERAL POINTS		
5.1	The Pressure Gauge shall be of Glycerene filled FIEBIG/MANOMETER makes and the dial fixing shall be of	Vendor to Confirm	

	BEZEL RING type and SS bourdon tube.			
5.2	Inlet & Outlet Connection		Vendor to specify	
5.3	The offer shall contain a detailed general arrangement drawing with part indications with catalogues of all bought out items		Vendor to Confirm with Details	
6.0	ELECTRICAL POINTS			
SI.No.	DESCRIPTION	SPECIFICATION	BIDDER'S OFFER [with technical details]	DEVIATIONS / REMARKS
6.1	Power Rating of Electric motor shall be 40 kW (minimum). and 1440 rpm Vendor to provide actual Power Rating and Power Rating calculation detail.	Vendor to Specify		
6.2	IP54 protection for all electrics.	Vendor to Confirm		
6.3	All Electric Motors shall be of energy efficient type any of the following makes: SIEMENS / ABB / CROMPTON/BBL/ KIRLOSKAR/HINDUSTAN makes conforming to IEC Standards.	Vendor to specify		
6.4	Suitable Variable Frequency Drive to suit electric motor of capacity 40 kW (Minimum) should be provided for driving the pump. Make: Siemens/ABB/ Intramat /Allen Bradley / Danfoss / L&T / Mitsubishi / Schneider	Vendor to specify		
6.5	All electrical devices like contactors, relays, limit switches, push buttons etc are from SEW / Siemens/ Cutler hammer / Telemecanique / ROCKWELL-Allen Bradley / Delta.	Vendor to specify		
6.6	Speed control regulator of the pump is to be fitted on the existing control panel and interfaced to the Variable Frequency Drive. (Control Panel away from 15 m (approx.) from the pump and VFD location)	Vendor to Confirm		
7.0	SAFETY ARRANGEMENT			
SI.No.	DESCRIPTION	SPECIFICATION	BIDDER'S OFFER [with technical details]	DEVIATIONS / REMARKS
8.0	DOCUMENTATION			
8.1	Three sets of following documents (3 Hard copies,) in English language should be supplied along with the machine	Vendor to Confirm		
8.2	Operating & maintenance Manuals of Pump	Vendor to Confirm		
8.3	The O&M Manual should contain the following			
	a. Drawing of the Pump	Vendor to Confirm		
	d. Electrical Wiring Drawings – Power & Control Circuits	Vendor to Confirm		

	f. Hydro-pump test certificate	Vendor to Confirm		
	g. Hydro-pump guarantee certificate	Vendor to Confirm		
	h. Test Certificate for electric motor	Vendor to Confirm		
	k. Test certificates for all materials specified			
8.4	One set all the above documents in CD	Vendor to Confirm		
9.0	PAINTING:			
9.1	Painting colour scheme shall be RAL 6011 IS-5 (Reside Green/Apple Green).	Vendor to Confirm		
Sl.No.	DESCRIPTION	SPECIFICATION	BIDDER'S OFFER [with technical details]	DEVIATIONS / REMARKS
10.0	INSPECTION			
10.1	The Machine shall be offered for inspection and performance trials to test the design features and capacity of the test station, by BHEL Engineers before dispatch, at Supplier's works.	Vendor to Confirm		
11.0	ERECTION & COMMISSIONING			
11.1	The supplier shall depute his engineer(s) for supervising the erection and commissioning of the machine at BHEL and prove-out trials.	Vendor to Confirm		
12.0	PERFORMANCE GUARANTEE			
	Equipment has to be guaranteed for its performance, for a minimum period of 12 months from the date of commissioning or 18 months from the date of supply whichever is earlier	Vendor to Confirm		