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	Phone: +91 431 257 76 53 Fax : +91 431 252 07 19 Email : skaruna@bheltry.co.in Web : www.bhel.com

TWO PART BID Tender to be submitted in two parts.	Enquiry Number: 2711100013	Enquiry Date: 28.06.2011	Due date for submission of quotation: 28.07.2011

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	Hydraulic System for CPE 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)	1 Set

Important points to be taken care during submission of offer

1. **The Drawings as per the list mentioned in the Point No. 29 are available with Material Management / Capital Equipment / Purchase Department. Interested Parties can collect the drawings can collect the drawings from the above said Department.**
2. **The Drawings collected shall be returned along with the offer, since it is BHEL property.**
3. **A Declaration in this regard duly signed by an authorized official of vendor shall be attached along with the offer. The Drawings shall not be copied or given to any other company / consultant/ sub vendor of yours without specific written permission from BHEL.**
4. **In case of an order and the Drawings is attached with the order shall also be returned to BHEL after supply is completed.**
5. **Checklist for acceptance of commercial terms and conditions to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation.**
6. **Subsequent to the hosting of this Enquiry, any corrigendum to the Enquiry that may be hosted in the BHEL Web-site as well as Government Tenders-portal shall be viewed by the vendors regularly to know the details of corrigendum. In case if any vendor without seeing the corrigendum quoted as per original Enquiry and intimate that they have wrongly quoted, their offer will not be considered and hence rejected. However as per the existing Policy of BHEL appropriate action will be taken on them in this regard.**

BHEL's General guidelines / instructions (refer MM/CE/GT/001) 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 referred above.

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 Manager / MM / Capital Equipment

S.KARUNANIDHY
Manager
MM / Capital Equipment
BHEL. TRICHY-620 014

Scope of Supply for Hydraulic power pack and valve stands

Sl. No.	Description
1	Scope includes supply, erection & commissioning of **NINE** Hydraulic Circuits as per the Drawings attached, should be of manifold /stacking valve construction with minimum number of pipes and pipe joints with easy accessibility of components for maintenance.
2	Type of Oil – Servo system 68 or Indian equivalent
3	Before manufacturing, the design of Power pack and Valve stands should be approved by BHEL
4	The Tank, Pumps and related Accessories should be located in cellar. The valve blocks should be located in various locations where the circuits required by BHEL with easy accessibility of components for maintenance
5	Pipe lines interconnecting one circuit to another and pipe lines connecting the actuators from valve stands should be laid properly with suitable clamps with minimum joints. Lay out should be acceptable by BHEL
6	All Pumps, Valves, Pressure switches, Accumulators, Accessories, etc. in the system should be of Rexroth / Vickers or equivalent reputed make acceptable to BHEL (Details to be submitted). Capacities and sizes of components should be as per Circuit Drawings.
7	Filter elements in Duplex / Standby filter units should be reusable type. The filter unit should be of Rexroth / Vickers / Hydac / Parker or any other equivalent reputed make acceptable to BHEL (Details to be submitted)
8	Motors should be of Siemens , ABB, Bharat Bijlee or equivalent reputed make acceptable to BHEL (Details to be submitted)
9	The flexible hoses used in the system should be of Gates, Monuli or equivalent make acceptable to BHEL (Details to be submitted)
10	Heat exchanger for oil cooling system should be of reputed make acceptable to BHEL (Details to be submitted).
11	Heating arrangement shown in the drawing may be deleted as the same is not required for our climatic condition
	The Pressure gauges used in the system should be Glycerine filled ones and to be provided as per the Drawing.
12	All accumulators in the system should be of Nitrogen filled with replaceable bladder.
13	wherever elements are combined in to a block the same is to be explicitly mentioned in the offer
14	Control voltage for solenoids of valves should be of 24 Volt DC with manual overrides and LED light indication

15	Power and control supply for motor operation is in scope of BHEL. Control supply for solenoid valve operation which requires 24 V DC is in scope of BHEL. However for proportional valves and any other special valve power supply (230 V AC or 24 V DC) will be provided by BHEL. Required electrical and electronic hardware for valve control is in the scope of vendor.
16	Each valve stand should be equipped with Prewired junction boxes
17	All components in the hydraulic power pack should be provided with identification numbers as per the circuit and should be pasted with metallic identification number plates
18	Suitable leakage oil collection metallic tray is to be provided wherever required
19	All pipe lines should be painted with standard colour coding accepted internationally for hydraulic system
20	All pipe / hose end fittings should be of standard weld nipple with suitable 'O'- rings. No ferrule joint is to be used. All threaded connection should be of BSP
21	All elements shown in the drawings are in the scope of vendor, except the actuators. Only actuators are in the scope of BHEL. They are shown in drawing for reference.
22	The Power pack should be designed taking into account the energy efficiency
23	All pipelines & hoses are in the scope of vendor
24	All oil pipe lines should be of seamless steel and should undergo pickling process and components and pipe lines should be of dust free.
25	Bill of material shall be prepared and enclosed along with the offer.
26	During commissioning First fill oil (SS68) will be supplied by SSTP/BHEL
27	Separate rate shall be quoted for supply quantity & erection portion
28	In addition to supply & erection rates for components (power pack & valve stand etc.), supplier shall also quote unit rate in measureable unit for supply & erection of pipe lines
29	List of drawing is enclosed (29 Nos.)

7/16/11

List of Drawing for Hydraulic system

Circuit	BHEL Drawing No:	Sheet No.	Description
Circuit 1	2-7-1123-40-08021	Sheet No: 1/4	Tank and Pumps Circuit
	2-7-1123-40-08022	Sheet No: 2/4	
	2-7-1123-40-08023	Sheet No: 3/4	
	2-7-1123-40-08024	Sheet No: 4/4	
Circuit 2	1-7-1123-40-08022	Sheet No:1/23	Ejector to scrap, Cross transfers inlet, intermediate and behind RHF, Hollow bloom stopper
	1-7-1123-40-08023	Sheet No:2/23	
Circuit 3	1-7-1123-40-08024	Sheet No:3/23	Entry pusher
Circuit 4	1-7-1123-40-08025	Sheet No:4/23	Drum pusher down (lower), Drum balancing (upper), Feed angle adjusting + clamping upper and lower, Roll stand cap moving, Drum clamping (Upper and lower), Balance cylinder build in housing, Carriage clamping vertical, Carriage moving and Build in housing vertical adjustment
	1-7-1123-40-08026	Sheet No:5/23	
	1-7-1123-40-08027	Sheet No:6/23	
	1-7-1123-40-08028	Sheet No:7/23	
	1-7-1123-40-08029	Sheet No:8/23	
	1-7-1123-40-08030	Sheet No:9/23	
	1-7-1123-40-08031	Sheet No:10/23	
Circuit 5	1-7-1123-40-08032	Sheet No:11/23	Three Roller guide 2 & 3, Pinch Roll, Spindle lower and upper support move in and move out, raising and lowering, drive for Transport roller 1 - 5
	1-7-1123-40-08033	Sheet No:12/23	
	1-7-1123-40-08034	Sheet No:13/23	
	1-7-1123-40-08035	Sheet No:14/23	
	1-7-1123-40-08036	Sheet No:15/23	
Circuit 6	1-7-1123-40-08037	Sheet No:16/23	Three roller guides, Transport rolls
	1-7-1123-40-08038	Sheet No:17/23	
	1-7-1123-40-08039	Sheet No:18/23	
Circuit 7	1-7-1123-40-08040	Sheet No:19/23	Brake Drive unit Thrust block, Thrust block clamping, Balancing axial adjusting, Bloom stopper, Thrust block rope, Rope supporting carriage
	1-7-1123-40-08041	Sheet No:20/23	
Circuit 8	1-7-1123-40-08042	Sheet No:21/23	Transport SWW (Take over levers and Hollow bloom stopper)
	1-7-1123-40-08043	Sheet No:22/23	
	1-7-1123-40-08044	Sheet No:23/23	
Circuit 9	1-7-1124-40-08045	Sheet No: 01/02	Crimping Press
	2-7-1124-40-08027	Sheet No: 02/02	

17/6/11