



BHARAT HEAVY ELECTRICALS LIMITED
CORPORATE RESEARCH & DEVELOPMENT DIVISION
VIKASNAGAR, HYDERABAD - 500 093, INDIA

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RD:DP:MPX:F-04

ENQUIRY

Ref:
631390171

Date 25-07-2013

Enquiry for **High Temperature Pin-on-Disc Tribometer**

Enquiry No:631390171 Enquiry Date : 25-07-2013 Due Date: 24-08-2013 Indicative Delivery Date : 31-01-2014

Sl.No	Item Description	Unit	Qty
1	Supply of High Temperature Pin-on-disc Tribometer as per specs	NO	1
2	Erection and commissioning charges for the above at our Lab.	LOT	1

Please submit your quotation for the above material in sealed cover superscribed with enquiry no, enquiry date and due date subject to our enclosed terms and conditions. The quotations shall reach us on or before the due date by 12 noon. The tenders can also be dropped in the tender box kept at the security gate,BHEL R&D. In case you are not in position to submit the offer,please send reply suitably specifying the reasons.

Sl.No	Description	Document Ref.
01	Enquiry, General Terms & Conditions, Commercial Terms & Conditions etc.	Volume - 1
02	Technical specifications, Scope of Supply etc.	Volume - 2

MKVH Sarma
Addl General Manager
sarma_mkvh@bhelrnd.co.in

	ENQUIRY & QUALIFYING CRITERIA	Volume - 1 Enquiry No 631390171
High Temperature Pin-on-Disc Tribometer		

1	Tendor inviting officer / Authority, Designation and Address	Additional General Manager(MM) BHEL R & D, Vikas Nagar (Near Balanagar), Hyderabad -500093
2	Item Description - Qty	1) High Temperature Pin-on-disc Tribometer as per attached specifications. - 1 NO
3	Enquiry Reference no.	631390171
4	Indicative Delivery Date	31-01-2014
5	Due date, Time and place for submission of tender	24-08-2013 upto 12 noon. Sealed Quotations shall be addressed to AGM(MM), BHEL R & D Division, Vikas Nagar (Near Balanagar), Hyderabad AP,India Pin - 500 093 Quotations can also be deposited in the Tender box located at Security Gate of BHEL R & D BHEL shall not be responsible for any postal/courier delay.
6	Place, Date and time of Tech.Bid opening	Tender Opening Cell (Sangam) BHEL R & D Office. 24-08-2013, 2 PM
7	Mode of Submission of Tender	<p>Please submit your offer in one common sealed cover containing two parts in separate sealed covers as detailed below.</p> <ol style="list-style-type: none"> 1. First cover shall contain: <ol style="list-style-type: none"> a. Technical & Commercial bid b. Filled in Commercial Compliance Statement (mandatory) c. Copy of price-bid with price(s) cells blank (un-priced price bid) 2. Second cover shall contain price bid. Price bid containing price quotes ,installation and /or commissioning charges shall be spelt out clearly taking into account total charges rather than quoting vaguely such as charges per man-day or charges per engineer per day etc. <p>If the price bid was found later to be different from the unpriced price bid format in any way, the offer will be rejected summarily. The rates shall be quoted both in figures and in words.</p> <p>The offers can also be submitted through e-mail and have to be sent in PDF format to e-mail id: 'eoffers@bhelrnd.co.in' only. Copies should not be marked</p>

to anyone.

The e-mail offers should have two attachments.

One attachment shall contain

- a) Technical & Commercial bid
- b) Filled in Commercial Compliance Statement (mandatory) and
- c) Copy of price-bid with price(s) cells blank (un- priced price bid).
- d). Scan copy of EMD receipt/DD. DD to be sent by Speed post/International courier. Furnish docket no. courier details clearly.

The second attachment shall contain price bid.

The subject of the e-mail should contain Enquiry No, Enquiry Date and Due date.

	GENERAL TERMS & CONDITIONS (GTC)	Volume - 1 Enquiry No 631390171
High Temperature Pin-on-Disc Tribometer		


SL.No.	Clause	BHEL REQUIREMENT
1	General	<p>a. All offers must include name of the contact person, phone no/mobile no, Fax no, email-id. Unsigned offers are liable for rejection.</p> <p>b. We, BHEL R&D, is registered with Department of Scientific and Industrial Research (DSIR) for the purpose of availing Customs Duty exemption in terms of Government Notification no.24/2007-Customs dated 01-Mar-2007 & Central Excise Duty Exemption in terms of Government Notification No. 16/2007-Central Excise dated 01-Mar-2007 as amended from time to time. Hence suppliers are requested to submit their bids clearly stating applicable taxes/duties.</p> <p>c. Taxes & Duties quoted will be taken for cost evaluation & order placement and no change will be entertained later except in the case of changes made by the government. In case any Taxes/ Duties exempted, a self declaration for the same may be attached to the offer. Changes in taxes and duties because of the changes in turn over etc will be to supplier's account.</p> <p>d. Where ever vendor registration form and EFT details have been submitted earlier, the same need not be submitted again unless there is a change.</p> <p>e. BHEL R&D do not issue 'C' form .</p> <p>f. L1 status shall be decided on Cost to BHEL Basis.</p>
2	Foreign Suppliers	<p>BHEL will deal directly with foreign vendors, where ever required, for procurement of goods.However, if the foreign principal desires to avail of services of an Indian agent,then foreign principal should ensure compliance to regulatory guidelines which require mandatory submission of agency agreement containing agency commission.</p> <p>Any supplier (Agents/distributors/representatives) desirous of quoting imported goods/services, they should submit the quote in foreign currency along with agency agreement copy, failing which their offer is liable for rejection.In case of non submission of agency agreement copy,the principal should submit the quotation to BHEL directly. Foreign supplier will also indicate in their offer Indian agent's name, if any, address and percentage of agency commission out of the quoted price. Fully owned Indian Subsidiaries/distributors of Foreign Companies shall quote in Foreign Currency on FOB basis only.</p>
3	Late Tenders	Tenders received after due date/time(12:00hrs) will not be considered
		(a) If, in the price structure quoted for the required goods/

4	Discrepancy in words and figures	<p>Services/ works, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion of the purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly.</p> <p>(b) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and</p> <p>(c). If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject of (a) and (b) above.</p> <p>(d) If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date upto which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the purchaser, the bid is liable to be ignored.</p>
5	Two Part bid clarifications	<p>In the case of Two-part bid, the vendor should furnish technical and commercial clarifications, if any, within stipulated time mentioned, failing which, it will be construed that the vendor is not interested in the tender and BHEL shall not consider the offer for further evaluation.</p>
6	Price Impacts	<p>In the event of any bidder, after finalizing the technical specifications and scope of supply, opting to revise their original bid, they have to submit the Price-Impact only. The Original price bid along with Price-Impact bid shall be opened during price bid opening. Unsolicited price impacts will not be considered.</p>
7	Price bid evaluation	<p>All offers in price bid opening or reverse auction shall be evaluated in Indian currency based on unit price, packing & forwarding, taxes/duties, freight charges if any, exchange rate, Loading due to non-acceptance of our standard commercial terms. The exchange rate declared by State Bank of India under TT Selling rate on the technical bid open date shall be adopted for evaluating foreign currency bids.</p>
8	Packing	<p>The supplier shall be responsible for the goods being properly and adequately packed so as to prevent any loss, damage or deterioration during transit.</p>
9	Withdrawal	<p>In case the supplier withdraws their offer before placement of order, BHEL reserves the right not to send next enquiry(ies). In case the supplier withdraws the quotation after its acceptance by BHEL or fails to supply the goods as per the terms and conditions of contract, or at any time repudiated the contract wholly or in part, BHEL shall be at liberty to cancel the Purchase Order and to recover from the supplier the extra cost and other loss, incidentals due to the breach of contract on the part of the supplier through risk purchase.</p>

10	Banned List	The offers of the bidders who are in the banned list and the offers of the bidders who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL website www.bhel.com.
11	Reverse Auction	BHEL reserves the right, to procure above items through reverse auction. BHEL reserves the right to reject the offer, in-case of supplier's non-acceptance to reverse auction.
12	Over All L1	Order will be placed on overall L1 basis. Vendors should quote for all items, otherwise the offer will be rejected.
13	Additional Information	Suppliers are requested to visit our web site regularly for any updates and additional information, "All corrigenda, addenda, amendments, time extensions clarifications, etc. to the tender will be hosted on BHEL website only". The corrigendum will not be published in news paper.
14	Destination	Indian Vendors: Destination shall be Stores, BHEL R&D, Hyderabad. Foreign Vendors: BHEL R.O.D Office, Mumbai, India.
15	Arbitration	Subject to the jurisdiction of Hyderabad/ Secunderabad, Andhra Pradesh, India in respect of any suit or other legal proceedings relating this contract.
16	Inspection	On receipt, the goods shall be subjected to inspection and our decision regarding the acceptability of the goods shall be final and binding on the suppliers.
17	Micro Small Enterprises (MSEs)	In case the supplier belongs to MSEs (Micro Small Enterprises), Registration copy in this respect shall be submitted along with the offer. Further if MSEs are owned by the Scheduled Caste or the Scheduled Tribe entrepreneurs the same may be intimated. The following are the benefits for the MSEs. 1. MSEs are given tender documents free of cost and are exempted from payment of earnest money (EMD). 2. In tender, participating MSEs quoting price within price band of L1+15% shall also be allowed to supply a portion of requirement by bringing down their price to L1 price in a situation where L1 price is from someone other than a MSE and such MSE shall be allowed to supply up to 20% of total tendered value. In case of more than one such MSE, the supply shall be shared proportionately.
		1. Submission of earnest money deposit (EMD) along with offer is required. EMD is to be deposited in cash (as permissible under Indian income tax act) or pay-order/Demand Draft drawn in favour of BHEL R&D, Vikasnagar, Hyderabad 500093 only. In case of foreign bidders e-payment shall also be accepted as EMD.

18	EMD - CAPITAL	<p>Our bank details for e-payment by foreign vendors are: State Bank of India, BHEL(R&D)- Vikas Nagar Branch, Hyderabad, Andhra Pradesh, India; Pin-500093. Cash Credit A/C No: 10202162640 IFSC Code : SBIN0010622</p> <p>2.EMD by the Tenderer will be forfeited as per Tender Document if, the successful bidder/vendor refuses to honour the Order after award of the Contract on him and /or withdraws his bid and /or unilaterally changes the offer and changes the offer and /or any of its terms & conditions with in the validity period.</p> <p>3.EMD given by all unsuccessful Tenderers shall be refunded on acceptance of award /LOI/PO by successful Tenderer. The EMD of successful bidder shall be returned after submission of Contract Execution Bank Guarantee (CEBG).</p> <p>4.EMD shall not carry any interest.</p> <p>5.EMD amount is Rs/INR. 150000</p>
19	Contract execution Bank Guarantee (CEBG)-Capital	<p>CEBG shall be required for all POs where value (Supply +E&C) of each P.O. is estimated to be more than Rupees 20,00,000/- (INR).</p> <p>The successful vendor shall have to furnish a Contract Execution Bank Guarantee (CEBG) for 10% of the Total PO value in the prescribed format within 30 days from the date of P.O. but before L/C opening. CEBG shall be from one of the Consortium Banks of BHEL or from a reputed Bank and confirmed by any Consortium Bank of BHEL . All bank charges on account of issuance and conformation of CEBG whether incurred in India or outside India will have to be borne by the vendor.</p> <p>CEBG shall be kept valid unit 30 days after the date of E&C Certificate, which will be issued on completion of Erection & Commissioning of equipment which includes erection, commissioning, job proving, performance test, training to operators etc. as prescribed in PO.</p> <p>If the supplier fails to submit the CEBG even with in 60 days from the date of PO, BHEL reserves the right to cancel PO & forfeit the EMD given by the supplier. In addition, in such case, action will be initiated in line with extant guidelines for Suspension of Business dealings with Suppliers.</p>

Signature of the bidder with Seal & Date

	COMMERCIAL TERMS & CONDITIONS (CTC)	Volume - 1 Enquiry No 631390171
High Temperature Pin-on-Disc Tribometer		

SL.No.	Clause	BHEL REQUIREMENT	SUPPLIERS ACCEPTANCE / REMARKS
1	Validity of Offer	90 days from date of techno-commercial bid opening.	
2	Price basis	<p>The prices shall be firm for entire period of contract.</p> <p>The suppliers shall indicate packing and forwarding charges, if any, separately.</p> <p>All foreign suppliers shall quote the lowest prices on 'FCA-Nearest International Airport' basis. An amount of 3% on basic value towards freight and insurance will be added for cost comparison.</p> <p>All Indian suppliers shall quote the lowest prices on 'free delivery at BHEL R&D Stores or F.O.R destination' basis. In case of Ex-Works, an amount of 3% on basic value towards freight and insurance will be added for cost comparison.</p>	<p>a. For Destination</p> <p>b. Ex-Works</p>
3	Freight & Insurance	Insurance will be arranged by BHEL in case of Ex-Works as well as FCA / FOB basis supplies. In such cases ,an amount of 3% towards freight and insurance will be added for cost comparison.	
		<p>Guidelines regarding dealing with Indian agents of foreign suppliers</p> <p>1. BHEL shall deal directly with foreign vendors, where ever required, for procurement of goods. However, if the foreign principal desires to avail of services of an Indian agent, then the foreign principal should ensure compliance to regulatory guidelines which require mandatory submission of agency agreement.</p>	

4	Agency Agreement	<p>2. It shall be incumbent on the Indian agent and the foreign principal to adhere to the relevant guidelines of government of India, issued from time to time.</p> <p>3. The agency agreement should specify the precise relationship between the foreign oem and services to be rendered by agent / associate, whether general in nature or in relation to the particular contract, must clearly stated by the foreign supplier / Indian agent. Any payment, which the agent / associate receives in India or abroad from the oem, whether as commission or as a general retainer fee shall be brought out in record in the agreement and be made explicit in order to ensure compliance to the laws of the country.</p> <p>4. Any agency commission to be paid by BHEL to the Indian agent shall be Indian currency.</p> <p>5. When ever Indian agents are representing on behalf of their principals, the relevant authorization letter and agreement copy to be enclosed along with technical bid to consider the offer.</p>	
5	Delivery Date	<p>Suppliers are requested to quote for the delivery mentioned in the enquiry. However suppliers can quote best possible delivery period from the date of Purchase Order, in case it is not possible to meet the delivery requirement of BHEL.</p> <p>However BHEL reserves the right to reject the offer before price bid opening in case of not meeting the delivery requirements of BHEL.</p>	
		<p>All Indian suppliers shall clearly mention current sales tax/VAT,Excise duty and Service Tax etc, if any,payable in addition to the quoted price and indicate applicable rates/percentage,item-wise clearly.The vendors should mention applicable Registration Number(s) specifically in their</p>	

6	Taxes and duties	<p>quotation. The suppliers are requested to submit their bids clearly stating applicable taxes and duties. The quoted taxes/duties will be taken for cost evaluation and order placement and no change will be entertained later except in the case of changes made by the government. In case of Service Tax, proof of payment of service tax is required to be submitted for reimbursement of the same.</p>	
		<p>Payment 1) Through L/C:Please note Payment through Letter of Credit (L/C) is for foreign currency payments only. Where the payments are through L/C (L/C opening charges shall be loaded for landed cost evaluation), payment of Supply value shall be 80% on dispatch and 20% on issue of E&C Certificate. Payment of E&C Value shall be made against E&C certificate issued by BHEL. E&C certificate shall be issued on satisfactory completion of erection, commissioning, job proving, performance test, training to operators etc, as envisaged in PO. The L/C shall be opened by BHEL as per following: (i) With in 30 days of receipt of acceptable CEBG, an irrevocable unconfirmed L/C will be opened for 30% of the payment towards supply, due on shipment i.e. 24% of the Supply value of PO (30% of 80%) Not earlier than 60 days before the shipment date, the value of this irrevocable unconfirmed L/C would be enhanced from 24% to 80% of the Supply value of PO The above L/C can be negotiated after the Shipment against submission of B/L or AWB and such other documents as mentioned in the in the PO. The above L/C will be valid for a</p>	

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Payment terms
- Capital

period extending 21 days beyond the shipment date for negotiation of documents.

(ii) 15 days prior to the scheduled & confirmed arrival of the technicians of supplier with their names, an irrevocable unconfirmed L/C will be opened for a value equal to 20% of the Supply value of PO plus 100% of the E&C value of PO. The validity of L/C would be sufficient to cover the period required for the completion of E&C plus 21 days as negotiation period.

This L/C can be negotiated after:

(a) Completion of E&C of the equipment in BHEL and against E&C certificate issued by BHEL and (b) Submission of Performance Bank Guarantee (PBG) by Supplier in the prescribed Format valid for 30 days beyond the warranty period, form one of the Consortium Banks of BHEL or from a reputed Bank and confirmed by Consortium Bank of BHEL for 10% of total PO Value. The PBG confirmation charges shall be borne by vendor.

Under all circumstances, CEBG shall be kept valid till be PBG becomes operational.

2 Direct Payment:

In case of direct payment, 80% payment of Supply value shall be made within 45 days from the date of receipt of material at BHEL. Balance 20% of supply value plus 100% of the E&C portion of PO Value will be paid against E&C certificate issued by BHEL and submission of Performance Bank Guarantee (PBG) valid for 30 days beyond the warranty period by Supplier from any of the Consortium Banks of BHEL for 10% of total PO Value in the prescribed Format. The PBG confirmation charges shall be borne by vendor.

3. Bank Guarantee and Loading

		<p>against non acceptance of BHEL,s Payment Terms: If payment terms as mentioned by BHEL are not agreed by bidder, such bidder have to submit Bank Guarantee at the time of payment/opening of LC in the prescribed Format of the amount, exceeding 80% of the PO value, valid till issue of E&C Certificate for the equipment. However, in no case, payment against dispatch shall exceed 90% of the PO Value.</p> <p>Additionally, for any deviation sought including as mentioned above, in Payment Terms by bidder w.r.t. tender conditions, following loading shall be followed: (A) Benchmark Prime Lending Rate (BPLR) of State Bank of India as applicable on the scheduled date of tender opening +2%, for the amount & period of relaxation sought by bidder. (B) On account of payment through LC if insisted by bidder , bank charges shall also be loaded for the deviation in (i) opening of LC by BHEL and (ii) period and amount of LC as per prevailing bank rates.</p>	
8	Time period for Supply and E&C-Capital	<p>1 Bidder should quote time period separately for 'Supply' and 'E&C' of equipment. 2 The bidders should quote their earliest schedule for supply and E&C against the schedule indicated in the enquiry. BHEL, however, reserves the right to accept an offer not meeting the enquiry schedule.</p>	
		<p>1 For the purpose of penalty for delay in E&C of the equipment the duration will be reckoned from the date of intimation by BHEL to vendor for readiness of site. 2 Penalty on delay in 'Supply' and/or 'E&C' will be applicable to the delays attributed to vendor .</p>	

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Penalty for
Delay in
supply and
E&C-Capital

Penalty will be considered separately for 'Supply' and 'E&C'.

The rate of penalty for delayed Supply shall be @ 0.5% per week of delay of total PO value (Supply+E&C). in supply subject to a maximum of 10% of total PO value (Supply+E&C).

The rate penalty for delayed E&C shall be @0.5% per week of delay of total PO Value (Supply+E&C) in E&C subject to a maximum of 10% of total PO value (Supply+E&C)

Maximum penalty for delay in Supply and E&C together shall be limited to 15% of total PO value (Supply+E&C).

In case PO includes more than one machine, the penalty shall be limited to 0.5% per week of delay on total PO Value(Supply+E&C) for the delayed machine.

3 Loading on account of non-acceptance of Penalty for delayed Supply and /or E&C shall be as under:


In case any bidder is not accepting the above penalty for delayed Supply and/or E&C, the offer of bidder shall be loaded to the extent to which it is not agreed by the bidder.

4 Incase, any shortage is noticed viz-a-viz PO requirement in the main equipment/spares, such shortages shall be replenished by supplier on for destination basis without any cost implication to BHEL i.e. Custom Duty and freight charges etc. up to destination for such short supplies shall be borne by the supplier.

5. Supply period indicated by bidder should include reasonable time required for approval of drawings and other inputs form BHEL. In the Techno-Commercial Bid, the bidder shall submit milestones for various activities in co-relation with Supply and E&C period quoted by


		him.	
10	Weight and Packing Dimensions.	The Supplier shall indicate the shipping weight (Kgs) and dimensions(L x W x H in cms) clearly along with offer.	
<p>Note : All the clauses of the above format should be filled and submitted with the Techno Commercial Bid (Part-1). The filled in BHEL Commercial terms & Conditions format submitted with technical bid, responding to all the clauses duly signed with seal only shall be considered. Any other Commercial terms & conditions of bidders entered else where in their offer shall not be considered and are liable for rejection.</p>			

Signature of the bidder with Seal & Date

	OTHER TERMS & CONDITIONS	Volume - 1 Enquiry No 631390171
High Temperature Pin-on-Disc Tribometer		

SL.No.	Clause	BHEL REQUIREMENT	SUPPLIERS ACCEPTANCE / REMARKS
1	Value for Erection & Commissioning at BHEL	<p>Erection & Commissioning (E&C) value will include services to be rendered at BHEL like erection, commissioning, job proving, performance tests, training to operators etc. The estimated percentage of E&C value shall be as mentioned in the enquiry. E&C value should be quoted separately by all bidders. Only in case where quoted value is less than the value (in %) specified in the enquiry or separate E&C values are not mentioned in the offer, value for E&C portion shall be deemed to be considered as the value indicated in the enquiry & accordingly supply value will be adjusted from that quoted value and balance will be released as E&C payment as per 'Payment Terms-Capital'. Services to be rendered at BHEL like E&C, proving, training to operators, supervising foundation work etc. For Indian Suppliers: It should be quoted in Rupees. For Foreign suppliers: If supervision is being carried out by persons residing in India, it should be quoted in Indian Rupees. These charges are essentially to be indicated separately in price bid. Vendor to confirm. BHEL will not provide boarding, lodging, travel cost (Air ticket, local transport etc.) to vendor's representatives visiting BHEL for Erection & Commissioning.</p>	

Signature of the bidder with Seal & Date

		ITEM SPECIFICATIONS		Volume - 2 Enquiry NO 631390171
High Temperature Pin-on-Disc Tribometer				
SL.No.	Item			
1	High Temperature Pin-on-disc Tribometer as per attached specifications.			
	sl no	Descriptions	BHEL Specifications	Vendor Specifications/ Deviations
	1.0	Basic equipment:	a). The system should be capable of determining high temperature tribological properties of engineering materials, coatings and thin films used for sliding type of wear application with and without lubricant. The system should be able to determine the wear resistance and friction coefficient for a pair of materials, depending on sliding velocity, applied load, presence and kind of lubricant, temperature and test chamber environment. b). Suitable Pin/ Ball Holders along with 10 nos of standard test pins. c). Universal adjustable holder (Specimen Table) for disc to accommodate variable disc diameters specified in 1.5 (Chuck type or similar arrangement). 10 nos of standard discs for room temperature testing to be supplied. d) Motorized Positioning System for vertical and lateral positioning. e). Vibration-dampened	

		frame. f). Tool kit	
1.1	Normal Loading	0.1-200N, Programmable Servo- controlled precision loading.	
1.2	Type of Movement	Sliding/oscillating (curved length)	
1.3	Contact Geometry	Pin-on-Disc	
1.4	Nominal Pin Diameter	3-10mm	
1.5	Maximum Disc Diameter	Maximum disc diameter of 70mm is preferred. However, variation in maximum disc diameter upto 50mm based on system design is acceptable. Discs of variable diameters should be accommodated in the design.	
1.6	High Load Rotary Drive RPM	Variable speed upto 2000 rpm or more	
1.7	Track Radius	Upto 30 mm or more	
1.8	Sensors	Friction sensor, Wear sensor, Acoustic emission sensor. In- situ wear depth monitoring upto 2mm, Accuracy: 5 Microns	
2.0	High temperature module	a). High temperature testing chamber from ambient to 800°C. Both disc and pin to be heated to ensure an isothermal tribological contact. b). The material of the test chamber and related parts should be suitable for high temperature application. Material to be specified by supplier. c). 5 sets of standard pin and disc of material suitable for	

		<p>high temperature testing to be supplied .</p> <p>d). Measurement of temperature on pin as well as disc. Built-in temperature controller with front display for elevated temperature chambers up to 800 °C.</p> <p>e). Suitable chiller to cool the chamber and related parts. f). Suitable air compressor to be provided with the system.</p>	
3.0	Lubrication module	<p>Lubricant circulating system consisting lube pump, nozzle, splash guard. Suitable liquid container and re-collector for immersion test, continuous flow test and drop-by-drop test.</p>	
4.0	Instrumentation and Control Panel	<p>Control panel consisting the electronics, amplifiers & displays, computerized motor controllers along with suitable instrumentation for high temperature application.</p>	
5.0	Data acquisition system and Software	<p>a). Control Software and Data Analysis Software. b). Software control of upper and lower specimen motions. c). Computerized in-situ acquisition, real time display and recording of friction, forces and torques, displacements and wear, temperature and humidity, acoustical, time and distance. d). Automatic friction vs</p>	

		load/velocity curves. Analysis of recorded data during/after multiple tests including extensive statistics, plots of any parameters versus others or time, multi-parameter and multi-test comparative plots.	
6.0	Works station	a). Suitable work station having following minimum specification: Windows 7, i5 processor, 2 GB DDR, 1 TB HDD, CD writer, 17" LCD monitor for storage of developed test sequences, parameters and results. b). A4 size compatible Scanner. c). Laser Printer for printing of the results.	
7.0	Profilometer	Suitable Profilometer to analyse the wear track. The supplier should quote all the options available with them.	
8.0	Provision for Add-ons	System should have provision to add humidity control chamber, supply of inert gas in future.	
9.0	Estimated percentage of E&C value	3%	
G	General Specifications		
	sl no	Descriptions	BHEL Specifications
			Vendor Specifications/ Deviations
	1.0	OEM	The offer is invited from Original Equipment Manufacturer (OEM) only.
2.0	Systems supplied	The supplier should have supplied	

	worldwide.	minimum 3 similar systems worldwide.	
3.0	AMC	The supplier should quote separately one year AMC charges after the expiry of warranty period for the complete system.	
4.0	Delivery period	The supplier should quote their earliest schedule for supply and E&C. It Should be delivered within 16 weeks from date of Purchase order.	
5.0	E&C period	E&C should be completed with 4 weeks of delivery. E&C charges should be quoted separately.	
	Pre Dispatch Inspection	Inspection shall be carried out by BHEL.The Vendor shall give minimum of 7 days notice for inspection along with internal test certificates.	
	E & C Charges	Shall be quoted separately.	
	Manufactures Test Certificate	Manufacturer's Test Certificate required and shall be provided before dispatch.	
	Spares	Offer shall include all the spares required for normal operation of equipment.	
	Warranty	All supplied items to be provided with warranty for one year from the date of dispatch. In case of items involving erection and commissioning, supplier shall provide warranty for 18	

		months from date of dispatch or 12 months from erection and commissioning whichever is earlier.	
	Accessories	Offer shall include all the accessories required for normal operation of equipment.	
	Training	Shall be quoted separately as optional.	

* Vendors are advised to write specifications in detail and not to write like 'Complied/ Yes / No ' etc. in specifications.

Signature of the bidder with Seal & Date



Bharat Heavy Electricals Limited

Corp. R&D DIVISION

VIKAS NAGAR,

HYDERABAD- 500 093 (INDIA)

RD:MPX:F-13

Ph: 040 ? 23772704, Fax: 040 ? 23770698, email: mpx@bhelrnd.co.in

GUIDE LINES REGARDING DEALINGS WITH INDIAN AGENTS OF FOREIGN SUPPLIERS

- i. BHEL shall deal directly with foreign vendors, wherever required, for procurement of goods. However, if the foreign principal desires to avail of the services of an Indian agent, then the foreign principal should ensure compliance to regulatory guidelines - which require mandatory submission of an Agency Agreement.
- ii. It shall be incumbent on the Indian agent and the foreign principal to adhere to the relevant guidelines of Government of India, issued from time to time.
- iii. The Agency Agreement should specify the precise relationship between the foreign OEM / foreign principal and their Indian agent and their mutual interest in the business. All services to be rendered by agent/ associate, whether of general nature or in relation to the particular contract, must be clearly stated by the foreign supplier/ Indian agent. Any payment, which the agent or associate receives in India or abroad from the OEM, whether as commission or as a general retainer fee should be brought on record in the Agreement and be made explicit in order to ensure compliance to laws of the country.
- iv. Any agency commission to be paid by BHEL to the Indian agent shall be in Indian currency only.
- v. Whenever Indian agents are representing on behalf of their principals the relevant authorisation letter and agreement copy to be enclosed along with Technical bid to consider the offer.

AUTHORISATION LETTER FOR E-PAYMENT/ NEFT / RTGS
(PLEASE FILL UP THE FORM COMPLETELY IN CAPITAL LETTERS ON YOUR COMPANY LETTERHEAD ONLY)

Vendor Code (to be filled by BHEL)	
------------------------------------	--

Type of Request (Tick one)	NEW	CHANGE
1 Company Name		
2 Address		
3 City with PIN Code		
4 State		
5 PAN Number		
6 TIN/ VAT No.		
7 CST No.		
8 Service Tax No.		
9 Name of Contact Person		
10 Mobile number		
11 Ph. no. with STD Code		
12 Fax No. with STD Code		
13 Email ID		
14 Website (URL)		

BANK DETAILS FOR EFT / RTGS

1	Bank Name	
2	Branch	
3	Branch Code	
4	Branch Address	
5	Branch Phone No	
6	Account No.	
7	Account Type: SB/ Current/ other (Specify)	
8	MICR Code	
9	IFSC Code	

I, as an authorized representative / owner of the above named company, hereby state as under:

1. Enclosed here with a cancelled cheque in support of our company's bank details.
2. Authorize BHEL R&D Hyderabad, to electronically make payments to the designated bank account with bank charges, if any, to our account.
3. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold BHEL / transferring Bank responsible.
4. I hereby certify that the particulars given above are true, complete and correct.
5. This authority remains in full force until BHEL receives and acknowledge written notification requesting change or cancellation.

Date :

Authorised Signatory
Designation :

COMPANY SEAL



Bharat Heavy Electricals Limited

Corp. R&D DIVISION

VIKAS NAGAR,

HYDERABAD- 500 093 (INDIA)

RD:MPX:F-13

Ph: 040 - 23772704, Fax: 040 - 23770698, email: mpx@bhelrnd.co.in

VENDOR REGISTRATION FORM

(Indigenous supplier)

[FORM TO BE SUBMITTED* BY THE BIDDER ALONG WITH TECHNICAL-BID]

Before filling, please refer to instructions on page-4

1.0 VENDOR PROFILE:

1.1 Name and address of the vendor:

Phone Nos.:

Fax No.:

Email: 1.

2.

1.2 Local representative name & address in Hyderabad/Secundrabad :

Phone Nos.:

Fax No.:

Email:

Contact Person:

Mobile No:

2.0 TYPE OF ORGANISATION:

PROPRIETORSHIP	Company:	Sister Concern (mention vendor registration number of main organization)	
Partnership	CORPORATION	Small Scale Industry	ANY OTHER (Please specify)

In case of SSI unit, copy of registration to be enclosed. It is requested that MSME registration certificate to be enclosed

3.0 ANNUAL TURN OVER:

#	Year	Turn-Over, Rs.
1	Current Year(budgeted)	
2	Previous year (200 - 0)	
3	Prior Year (200 - 0)	

4.0 NAME AND ADDRESS OF THE BANKER:

- 4.1 Bank Name
 4.2 Branch name
 4.3 Account number
 4.4 Account Type
 4.5 MICR Code:
 4.6 IFSC Code(RTGS/NEFT):
 4.7 Bank Phone number(s),

Blank cheque, duly cancelled, to be enclosed.

Please note that all payments shall be made through Electronic clearance services to your above account against the orders executed, if any.

5.0 REGISTRATION PARTICULARS(relevant copies to be enclosed)

- 5.1 IT Permanent Account No.(PAN):
 5.2 State Sales Tax/VAT Registration No:
 5.3 Central Sales Tax Registration No:
 5.4 ED Registration No:
 5.5 Service Tax Registration No:
 5.6 PF Account No:
 5.7 Labour Licence No:
 5.8 ESI Account No:

6.0 CONTACT PERSON: S/Sri:

Designation:

Phone / Mobile No:

7.0 TOTAL NUMBER OF EMPLOYEES:

Graduates (Engr/Scientists/Mgmt/Fin.)	Consultants	Workers		
		Sup./Skilled	Semiskilled	Unskilled

8.0 LIST OF PRODUCTS/ SERVICES OFFERED:

#	Products/ Services	Capacity
1		
2		

3	
4	
5	
6	

9.0 REFERENCE LIST :

(Only recognized public and private sector companies, attach if printed copy available)

#	Customer	Volume / Year
1		
2		
3		
4		
5		
6		
7		

10.0 INFRASTRUCTURE / FACILITIES:

#	Facility (with specifications)	Age/ Year procured
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

11.0 REGISTRATION WITH OTHER BHEL UNIT/UNITS:

#	Unit	Registration No	Year
1			
2			
3			
4			

12.0 ANY OTHER INFORMATION :DECLARATION:

The information furnished above is true and authentic.

(CEO / PROPRIETOR)

SEAL:

DATE:

Note:

1. Registered bidders, having BHEL (R&D) registration no. or have submitted this format for registration, need not furnish this information again.
2. The competent authority reserves the right to accept or reject the registration.
3. Vendors approved for registration will be informed by mail / email, as convenient. A separate communication will be sent in case of non-registration also, citing reasons thereof.
4. BHEL reserves the right to take penal action as deemed fit if any of the information provided by the vendor(s) is found to be incorrect.
5. AGM, Head (MM) may be contacted for clarification/additional information on registration.

Instructions

1. Fill all items. Please mention ?N.A.? for items/ clauses not applicable.
2. Use A4 sheets for this document and the enclosures. Use of additional sheets is permitted if space provided is not adequate.
3. Attach copies of latest documents in respect of items 5.0 (Registration no.s)
4. Photographs of registered office and the chief executive/proprietor shall be furnished.



RD:MPX:F-14

Bharat Heavy Electricals Limited

Corp. R&D DIVISION

VIKAS NAGAR,

HYDERABAD- 500 093 (INDIA)

SUPPLIER REGISTRATION FORM

(FOREIGN SUPPLIER)

ALL COLUMNS SHOULD BE PROPERLY FILLED IN THE SPACE PROVIDED FOR.WHEREVER IT IS NOT APPLICABLE PLEASE WRITE ?NOT APPLICABLE?.INCOMPLETE OR INCORRECT FORMS MAY NOT BE CONSIDERED.

1.0 GENERAL INFORMATION:

1.1 NAME OF COMPANY

1.2 DETAILS OF HEAD OFFICE:

ADDRESS :
TELEPHONE :
FAX :
EMAIL :
WEB SITE :

1.3 DETAILS OF FACTORY/WORKS:

ADDRESS :
TELEPHONE :
FAX :
EMAIL :
WEB SITE :

1.4 DETAILS OF MARKETING AGENT

ADDRESS :
TELEPHONE :
FAX :
EMAIL :
WEB SITE :

1.5 CHIEF EXECUTIVE

1.6 CONTACT PERSON(S)
FOR PRODUCT OFFERED

NAME(S) :
OFFICIAL :
CAPACITY :
ADDRESS :
TELEPHONE :
FAX :
EMAIL :

1.7 YEAR OF ESTABLISHMENT

1.8 PRODUCTION CAPACITY PER ANNUM

1.9 PARTICULARS OF PRODUCT INCLUDING
SPECIFICATION AND RANGE OFFERED
FOR REGISTRTION
(Attach brouchers and catalogues)

1.10 NAME(S) OF BANKERS

1.11 BANKER'S CERTIFICATE

1.12 PORT OF LOADING

1.13 NEAREST AIRPORT

1.14 NAME OF THE INDIAN AGENT, IF ANY
WITH AUTHORIZATION LETTER

2.0 FINANCIAL INFORMATION:

2.1 TOTAL CAPACITY

2.2 ANNUAL TURN OVER FOR LAST 3 YEARS

2.3 WHEHER CREDIT LICENSE ACCEPTABLE YES/NO

3.0 QUALITY MANAGEMENT SYSTEMS

ENCLOSED FORMAT PART-B

3.1 EXPERIENCE LIST FOR SAME/ SIMILAR ITEMS
TO BE ENCLOSED

4.0 FUTURE EXPANSION PLANS:

(Give details)

5.0 LIST OF ENCLOSURES:

(Including brochures, catalogues, technical literature etc)

6.0 ANY OTHER INFORMATION:

SIGNATURE OF SUPPLIER (Authorized signatory)

NAME :

DESIGNATION :

DATE :

OFFICIAL SEAL

Note:

1. BHEL Reserves the right to take penal action as deemed fit if any of the information provided by the vendor is found to be incorrect.
2. Please attach separate sheets, if space found is inadequate