



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

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Ref: 751402941

ENQUIRY

Date 28-10-2014

Enquiry for **SERVO ELECTRIC LOW CYCLE FATIGUE (LCF) TEST MACHINE**

Enquiry No:751402941

Enquiry Date : 28-10-2014

Due Date: 27-11-2014

Indicative Delivery Date : 28-07-2015

Sl.No	Item Description	Unit	Qty
1	SERVO ELECTRIC LOW CYCLE FATIGUE (LCF) TEST MACHINE	NO	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

Nalini Thilak
Sr Dy GM (Purchase)
nalini@bhelrnd.co.in

	ENQUIRY & QUALIFYING CRITERIA	Volume - 1 Enquiry No 751402941
SERVO ELECTRIC LOW CYCLE FATIGUE (LCF) TEST MACHINE		

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) SERVO ELECTRIC LOW CYCLE FATIGUE (LCF) TEST MACHINE - 1 NO
3	Enquiry Reference no.	751402941
4	Indicative Delivery Date	28-07-2015
5	Due date, Time and place for submission of tender	27-11-2014 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. 27-11-2014, 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> <p>1. First Cover shall contain:</p> <ol style="list-style-type: none"> Technical & Commercial bid. Filled in commercial complaince statement(mandatory) Copy of Price-bid with price(s) cells blank (un-priced price bid) <p>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> <p>If the price bid was found later to be different from the unpriced pricebid 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 (files with PDF extension only). Files having extensions other than PDF like RAR, EXE,JPEG etc. and with external links will not be considered. They have to be sent to e-mail id: 'eoffers@bhelmd.co.in' only. Copies should not be marked to anyone. If the offers are marked to anyone other than to eoffers, their offer will not be considered.</p> <p>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). The second attachment shall contain price bid.</p> <p>The subject of the e-mail should contain Enquiry No, Enquiry Date and Due date.</p>

	GENERAL TERMS & CONDITIONS (GTC)	Volume - 1 Enquiry No 751402941
SERVO ELECTRIC LOW CYCLE FATIGUE (LCF) TEST MACHINE		

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. All foreign quotes will be evaluated with custom duty @ 5.15% for cost comparison.</p> <p>c. Taxes & Duties quoted will be taken for evaluation of landed cost & order placement and no change will be entertained later except in the case of changes made by the government. However please note that we are availing cenvat credit for service tax and hence service tax will be excluded in calculation of landed cost to BHEL.</p> <p>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.</p> <p>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
4	Discrepancy in words and figures	<p>(a) If, in the price structure quoted for the required goods/ 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	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.
6	Price Impacts	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.

7	Price bid evaluation	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 will be evaluated as per the LOADING FACTORS form as enclosed along with the enquiry. 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.
8	Packing	The supplier shall be responsible for the goods being properly and adequately packed so as to prevent any loss, damage or deterioration during transit.
9	Withdrawal	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.
10	Risk Purchase	In case of default/late delivery, BHEL reserves the right to make alternate arrangement for procurement at suppliers risk and cost.
11	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.
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: 1) BHEL R.O.D Office, Mumbai, India for sea consignments and 2) BHEL R&D, Hyderabad, India for air consignments.
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	Micro Small Enterprises (MSEs)	<p>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.</p> <p>The following are the benefits for the MSEs.</p> <ol style="list-style-type: none"> 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. <p>MSE suppliers can avail the intended benefits only if they submit along with offer, attested copies of either EM II certificate having deemed validity (Two years from the date of issue of acknowledgement in EM-II) or valid NSIC certificate or EM II certificate along with CA certificate (Format as below) applicable for the year, certifying quantum of investment in plant and machinery within the permissible limit as per the act for relevant status (Micro or small) Where the deemed validity of EM II is over. Date to be reckoned for determining the deemed validity will be the last date of technical bid submission. Non submission of such documents will lead to consideration of their bids at par with other bidders and MSE status of such suppliers shall be shifted to Non MSE supplier till the supplier submits these documents.</p> <p style="text-align: center;">Certificate by chartered Accountant on letter head</p> <p>This is to certify that M/s (hereinafter referred to as 'company') having its registered office at is registered under MSMED Act 2006, (Entrepreneur Memorandum No(Part-II) dtd:....., Category:.....(Micro/Small). (Copy enclosed).</p> <p>Further verified from the Books of Accounts that the investment of the company as on date..... as per MSMED Act 2006 is as follows :</p> <ol style="list-style-type: none"> 1. For manufacturing Enterprises : Investment in plant and machinery (i.e. Original

		<p>cost excluding land and building and the items specified by the ministry of small Scale Industries vide its notification No.S.O.1722(E) dated October 5, 2006.</p> <p>2. For Service Enterprises : Investment in equipment (Original cost excluding land and building and furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED Act, 2006: Rs..... Lacs</p> <p>The above investment of Rs..... Lacs is within permissible limit of Rs..... Lacs forMicro/Small (Strike off which is not applicable) Category under MSMED Act 2006.</p> <p>Date:</p> <p>(Signature) Name- Membership number – Seal of Chartered Accountant</p>
17	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.

Signature of the bidder with Seal & Date

	COMMERCIAL TERMS & CONDITIONS (CTC)	Volume - 1 Enquiry No 751402941
SERVO ELECTRIC LOW CYCLE FATIGUE (LCF) TEST MACHINE		

SL.No.	Clause	BHEL REQUIREMENT	SUPPLIERS ACCEPTANCE / REMARKS
1	Reverse Auction	<p>BHEL reserves the right to go for Reverse Auction (RA) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. All bidders to give their acceptance for participation in RA. Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA.</p> <p>In case BHEL decides to go for Reverse Auction, only those bidders who have given their acceptance to participate in RA will be allowed to participate in the Reverse Auction. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit „online sealed bid“ in the Reverse Auction. Non-submission of „online sealed bid“ by the bidder will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.</p>	
2	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.	
3	Validity of Offer	90 days from date of techno-commercial bid opening.	
4	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 'FOB-Nearest International Airport/Sea port' 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 only.</p>	
5	LD Clause	Failure to supply the goods and/or carryout the services within the stipulated delivery date will attract a penalty of 0.5% per week or part thereof for the value of the undelivered portion of the purchase order subject to a maximum of 10% of the total order value.In case of non acceptance to this LD Clause, 10% of basic material cost will be loaded on the quoted prices while cost comparison.(Please refer the enclosed 'Loading Factors' sheet).	
6	PBG	PBG of 10% of total order value is to be submitted by the successful vendor and shall be kept valid upto guarantee period with additional claim period of 2 months there after.The offers of the suppliers not accepting to this clause will be rejected.	
7	Freight & Insurance	Insurance will be arranged by BHEL in case of FCA / FOB basis supplies.In such cases ,an amount of 3% towards freight and insurance will be added for cost comparison.	
8	Agency Agreement	<p>Guidelines regarding dealing with Indian agents of foreign suppliers</p> <ol style="list-style-type: none"> 1. BHEL shall deal directly with foreign vendors, wherever 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. 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. 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 encurse compliance to the laws of the country. 4. Any agency commission to be paid by BHEL to the Indian agent shall be Indian currency. 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. 	
		FOR INDIAN SUPPLIES :	

9	Delivery Period	<p>Suppliers are requested to quote for the delivery mentioned in the enquiry. However, in case it is not possible to meet the delivery requirement of BHEL, they shall mention in the right column the best possible delivery period</p> <p>1) From date of Purchase order =====></p> <p>2) From receipt of material / input data / drawings etc. from BHEL=====> (if applicable)</p> <p>3) From receipt of approval of design documents / drawings etc. by BHEL=====> (if applicable)</p> <p>4) Time from PDI to despatch =====> (if applicable)</p> <p>However BHEL shall inform the vendor about rejection of the offer before price bid opening in case of not meeting the delivery requirements of BHEL.</p> <hr/> <p>FOR FOREIGN SUPPLIES :</p> <p>Suppliers are requested to quote for the delivery mentioned in the enquiry. However, in case it is not possible to meet the delivery requirement of BHEL, they shall mention in the right column the best possible delivery period</p> <p>1. From date of Purchase order :=====></p> <p>2. From receipt of input data / drawings etc. from BHEL=====> (if applicable)</p> <p>3. From receipt of approval of design documents / drawings etc. by BHEL =====> (if applicable)</p> <p>4. From date of LC Opening=====> (if applicable)</p> <p>5. From date of PO acceptance =====> (wherever issues like export clearance etc. are involved, mentioning the reasons)</p> <p>However BHEL shall inform the vendor about rejection of the offer before price bid opening in case of not meeting the delivery requirements of BHEL.</p>	
10	Taxes and duties	<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 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. Please note that we are availing cenvat credit for service tax and hence service tax will be excluded in calculation of landed cost to BHEL. However Proof of payment of service tax is required to be submitted for reimbursement of the same.</p>	
		<p>Payment</p> <p>1) Through L/C:Please note Payment through Letter of Credit (L/C) is for foriegn currency payments only.</p> <p>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:</p> <p>(i) With in 30 days of receipt of order acceptance, 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%)</p> <p>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</p>	

11	Payment Terms	<p>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 period extending 21 days beyond the shipment date for negotiation of documents.</p> <p>(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.</p> <p>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 60 days beyond the warranty period, from 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.</p> <p>2 Direct Payment (foreign and Indian Suppliers): In case of direct payment , 80% payment of Supply value shall be made with in 45 days form 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.</p> <p>3. Bank Guarantee and Loading 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 SBI as applicable on the 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>	
12	AMC	<p>AMC charges exclusive of service tax to be quoted as a percentage of basic equipment cost for a period of 3 years on completion of standard warranty.The AMC payment will be within 45 days on satisfactory completion of 6 months.The AMC charges will be added to equipment cost while arriving lowest bidder of the tender.BHEL reserves the right to issue AMC order before completion of standard warranty.</p>	
13	E&C	<p>Supplier to quote Supply and E&C portion with relevant taxes and time requirement seperately.BHEL reserves the right to issue two seperate orders.</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.

Signature of the bidder with Seal & Date

	ITEM SPECIFICATIONS	Volume - 2 Enquiry NO 751402941
SERVO ELECTRIC LOW CYCLE FATIGUE (LCF) TEST MACHINE		

SL.No.	Item			
1	SERVO ELECTRIC LOW CYCLE FATIGUE (LCF) TEST MACHINE			
	sl no	Descriptions	BHEL Specifications	Vendor Specifications/ Deviations
	A	Servo Electric Universal Testing Machine	<p>Servo-electric (Electric Actuator driven) closed loop controlled Universal Testing Machine is required for conducting Monotonic tests, Slow strain rate deformation tests, Low cycle fatigue (LCF) tests and fracture toughness tests (both K1c and J1c). Tests will demand glitch free through zero load traverse and load/position reversing. The test system should possess the following items and features:</p>	
	1	Loading Frame	<ul style="list-style-type: none"> • Load frame shall be of Fatigue Rated Two Column Self reacting type with $\pm 100\text{kN}$ Dynamic Capacity. • Total Day Light shall be 1200mm or more. • Minimum daylight shall be 300mm or nearer. • Space between columns shall be 600mm or more. • It shall have Hydraulic Lifts & Clamps for top cross head movement and locking. • Frame Stiffness should be 600kN/mm or better. • It should have Load frame mounted control panel for Emergency Stop, Actuator Jog Up & Down Slow & Fast, Crosshead position Up & Down, Locking and Unlocking at any desired position, Hydraulic Grips Close & Open etc. • Load Frame should be of Free Standing type and should not require foundation. 	
	2	Servo Electric Actuator	<ul style="list-style-type: none"> • Fatigue rated servo electric actuator with integrated Servo drive and servo motor. • $\pm 100\text{kN}$ Fatigue Rated Load Capacity actuator with $\pm 50\text{mm}$ (total 100mm) displacement. • Actuator should have LVDT or digital encoder for displacement measurement with resolution of 0.00001mm and accuracy of $\pm 0.5\%$ of readout value. • Test speed range shall be from 0.00001mm/min OR (1micron/hr) to 250 mm/min. • Optimized design for high stiffness. • Low friction and wear resistant and high side load carrying capabilities shall be available. • It should be capable of achieving frequencies from 0.001 to 1Hz cyclic load 	

		<p>applications. • Suitable for conducting Tensile, Compression, Low cycle fatigue, J1c and K1c tests in Stroke, Load & Strain control modes with above referred frequency range.</p>	
3	Load Cell	<ul style="list-style-type: none"> • ± 100kN Dynamic Capacity Load Cell. • Accuracy as per ASTM E4: 0.5% of read out value down to 1/500th of capacity. • 200% Safe Over Load Capacity. • 350 Ohm OR higher resistance Strain Bridge design. • Non Linearity: ± 0.15% of Full Scale or better. • Hysteresis: ± 0.02% of Full Scale or better. • Fatigue Life: 10⁹ or better. 	
4	Control Electronics	<ul style="list-style-type: none"> • Controller shall have the following features: • Controller shall be of Digital Signal Processor (DSP) based closed loop 32/64 bit digital controller. • 32/64 Bit Data Acquisition on the control and feedback channels. • Data sampling rates of 24 kHz or more from all primary channels shall be available. • Feedback loop update rates of 32 kHz or more. • Digital Input and Output lines of minimum 08 Nos. should be available. • Provision for minimum 2 Analog Output channels to deliver ± 10VDC should be there. • Provision for minimum 2 Analog Input channels to accept ± 10VDC should be provided. • It should have 4 Primary channels i.e., Position, Load, Strain1 & Strain2 with control mode on all channels. • Auto Calibration and Digital Auto Zero capability. • Easy Downloadable Firmware for Future Up gradations, with out making any changes in the controller. • Controller should be capable of conducting all the Tests mentioned above. • Should be capable of acquiring data from all control and feed back channels. • It shall be compatible with industry standard Ethernet or USB communication ports. 	
		<ul style="list-style-type: none"> • Windows 7.0 based Software, facilitating basic operation of the UTM. • Software should be capable of conducting Tuning of all control channels with PID gain control adjustment. • Should be capable of acquiring data from all control and feedback channels at 5KHz. • Servo Loop Update and Simultaneous data sampling rate 	

	5	Software	<p>of min 32 KHz shall be available. • It should provide Position control, Load Control and Strain control by default. • Automatic and Manual settable Data Acquisition rates for different test applications must be available. • Electronic Safety Limit (user settable) and safety interlocks on all control channels to protect Transducers and Machine from over loading and over travelling. • All safety Parameters like, Over Temp of Motor, over and Under current, Emergency Stop, Power Failure Indication, Motor over load, minimum & maximum limits to be monitored by the software and should be displayed accordingly. • Should be capable of applying cyclic loads or strains in different waveform modes like, Sine, Square, Triangular and Ramp in Stroke, Load and Strain control modes. • It shall have Adaptive Control feature. • Should be capable of creating User defined Non Standard waveforms with Dwell times. • Advanced data filtering options on all feedback channels must be available. • General purpose application to create user defined test profiles. • Advanced graphics to view all feedback and set points on single and multiple graphs. • Graphical display of Load Vs Displacement, Stress Vs Strain, load vs time, displacement vs time, stress vs temperature, temperature vs time, strain vs temperature etc should be available. • Software offered should be capable of generating the final test report including Raw Data in the general purpose MS Office (Ex: Excel) format Windows 7 or latest compatible Application Software packages shall be provided for conducting following tests: • Tensile test as per ASTM E8M • Compression test as per ASTM E9 • Low Cycle Fatigue test as per ASTM E606 • J1c test as per ASTM E1820 • K1c test as per ASTM E399 • Alignment verification software as per ASTM E1012.</p>	
			<p>• High Temperature (1000deg C) Self Aligning type Hydraulic Grips of 100kN dynamic load capacity to conduct Tensile & LCF tests on: M8, M10 & M12 dia. threaded samples: • Room Temperature Axial Extensometer for Tensile tests with: • 25mm Gage Length & ±5.0mm travel or close. •</p>	

6 Standard Accessories

Resolution of strain measurement display: 0.001mm or better • Full bridge strain gage based with 350 ohm OR higher resistance. • Accuracy of $\pm 0.5\%$ of read out value as per ASTM E 83 • Non linearity of 0.15% of full scale • High Temperature Axial Extensometer for Tensile tests with: 25.0mm Gage Length and travel of $\pm 5\text{mm}$ or close. • Resolution of strain measurement & control: 0.001mm or better • Full bridge strain gage based with 350 ohm OR higher resistance. • Accuracy of $\pm 0.5\%$ of read out value as per ASTM E 83 • Non linearity of 0.15% of full scale or better • Room Temperature Axial Extensometer for LCF tests with: • 12.5mm Gage Length & $\pm 1.0\text{mm}$ travel or close. • Resolution of strain measurement display: 0.001mm or better. • Full bridge strain gage based with 350 ohm OR higher resistance. • Accuracy of $\pm 0.5\%$ of read out value as per ASTM E 83. • Non linearity of 0.15% of full scale • High Temperature Axial Extensometer for LCF tests with: • 12.5mm Gage Length and travel of $\pm 1.0\text{mm}$ or close. • Resolution of strain measurement & control: 0.001mm or better • Full bridge strain gage based with 350 ohm OR higher resistance. • Accuracy of $\pm 0.5\%$ of read out value as per ASTM E 83 • Non linearity of 0.15% of full scale or better • High temperature 3-zone split tube furnace with following specifications: • Temperature Range: 300 to 1200deg C • Heating Rates: Up to 15deg C/min • Temperature Accuracy: $\pm 2\text{deg C}$ • Programmable PID Controller • The three zone split tube furnace ID:90mm or closer, OD:350mm or closer, Height: 450mm or higher. Heating zone height: 75 to 100mm(max). It should also be suitable for the high temperature grips and fixtures. • Heating System: Kanthal A1 • “R” - type thermo couple for measurement and control of temperature • Additional thermocouple for sample temperature monitoring • PID temperature controller for the above furnace • Provision to log the temperature vs time data in the system software. • Alignment fixture along with

		strain gaged specimen according to ASTM E1012 (along with attachment KIT).	
7	Optional Accessories	<ul style="list-style-type: none"> • 100kN Room Temperature Hydraulic Wedge Grips to conduct Tensile tests on: 0-16mm thick, 50mm wide flat samples and 6-16mm dia round samples. • 100kN Room Temperature Compression Platens with 100mm dia. Upper platen shall have spherical seating for self-alignment. • High Temperature COD Gage with 5mm GL and +3mm travel • Room Temperature COD Gage with 5mm GL and +3mm travel. • High temperature (1000deg C) CT Grips for samples with 12.5mm thickness, 50mm width and 12.5mm thickness and 25mm width for conducting J1c and K1c tests. 	
8	Personal Computer System	<ul style="list-style-type: none"> • High Performance Workstation PC & Printer with the following specification: • OS: Windows 7 Professional operating system (32/64 bit) option. • Processor: i5 or i7 (1 Serial & 1 Parallel Port) and with USB Communication. – Serial Interface • Memory: 8GB, DDR3 UDIMM 1600 NECC • Hard Disk 1TB SATA - 22inch Flat Panel LED Monitor. • D/DVD ROM. • HP color Laser Printer with suitable UPS. • 2 Ethernet ports (1 integrated, 1 on a PCI card) • PCI slots: Two PCIe x16 Gen 3; one PCIe x Gen 3 wired x4; one PCIe x4 Gen 2; one PCIe x1 Gen 2; One PCI 32bit/33MHz • PC specifications change on a regular basis. The above represents the minimum configurations that will be supplied. • Requires HDMI to VGA adapter cable for VGA monitors. 	
9	Pre - Dispatch Inspection (PDI) & Training	<ul style="list-style-type: none"> • Supplier should intimate the readiness of equipment before PDI. PDI of equipment will be carried out at supplier's works by BHEL engineers. The Vendor shall give minimum of 45 days notice for PDI. PDI & training at OEM works / factory shall be intimated • Detailed training at OEM works / factory has to be provided by factory engineer to 2 officials from BHEL on working of all modes of the equipment along with the accessories. • Training should also be provided on safety features, task to be performed in case of emergency, etc. Detailed 	

		scope/ daily schedule and duration of training has to be indicated. • The training charges have to be quoted separately. • Travel and hospitality for BHEL engineers will be to BHEL account. • Post-installation training may also be provided by the installation engineers for all modes of equipment along with accessories at site of installation.	
10	Spares	Vendor shall quote for all necessary spares (other than standard accessories) if any required, for 5 years of trouble free operation.	
G			
General Specifications			
sl no	Descriptions	BHEL Specifications	Vendor Specifications/ Deviations
1	General Specifications	<ul style="list-style-type: none"> • Supplier should possess ISO 9001 – 2008 accreditation. • Device drivers and original software should be provided for the computing hardware. • Spares to be supplied throughout the useful life of the equipment and should be made available within a month from supply order any time after warranty. Vendor shall give an undertaking to this effect. • After sales service to be provided from factory trained and competent service engineers in case of any breakdown. Service during the period of warranty should be free of charge. • The supplier should be prepared to enter into a service contract after the warranty period. • The supplier must submit original printed technical brochures and application notes adequately explaining and confirming the availability of the features in the model of the equipment being quoted. • The supplier must also provide guarantee in writing that the specifications being quoted for shall be demonstrated for conformance with the values quoted in quotation at the User's laboratory as in the technical specification and in case of failure of this clause the quotation will be liable to be rejected. • The supplier must submit a table indicating the compliance of the features of the model of the equipment being quoted with those given in the technical specification. • If any of the features are not matching- it must be clearly indicated. • Explanations on the non-matching may be considered depending on the justification 	

		<p>provided, if any. • If they are not given, it will be assumed that the quoted model does not have the desired features. • The supplier should strictly quote the cost of each item separately in order as per BHEL R&D specifications only. Any other accessory required for operation of the equipment not mentioned in the technical specification should also be included in the quote with clearly stating the cost separately. In addition, infrastructure/technical requirements for installation and smooth operation of the equipment should be mentioned. • All the calibrated test certificate(s) are shall be provided during PDI at OEM place and should be enclosed with other documents along with dispatch of the consignment.</p>	
2	General Specifications	<p>• The integration, installation and commissioning and functioning of the total system at BHEL R&D is the sole responsibility of the supplier, failing which the acceptance report will not be cleared. • Entire system should be supplied by one supplier. Part supply is not acceptable. OEM's should only quote and supply and NO third party integration will be acceptable. • Acceptance Criteria Functional qualification of the equipment should be demonstrated for its performance. • The OEM must have manufactured and supplied at least 5 laboratory similar systems that are proposed in the tender to other reputed organizations in India and/or abroad working on the principle. Details (telephone number(s) and e-mail iD with address and contact person) pertaining to these organizations should be given to BHEL R&D. • Customer satisfaction certificate in this regard is preferred. • Only firms internationally known for manufacturing such test systems, with good track record of after sales service or their authorized agents should quote. • The supplier should meet the following requirements strictly. Should be in manufacturing and service industry for at least 5 years. • Should have an excellent service support and represent the OEM for the same equipment existing within India. Details in this regard (company profile, year of</p>	

		<p>establishment, and number of factory trained engineers) should be provided. • Should submit a recent typical set of complete technical test reports (not schematic/published literature) also with brochure on a similar system. The documentary proof of such results must be provided for verification. A demo copy of software should also be provided in CD along with tender documents. • If the bidder is quoting for an imported system, the bidder will have to attach the authorized representative certificate from OEM. Ink signed authorized dealership certificate for the system as well as the software from the principals should be provided. Supplier has to confirm the compliance of his offer strictly against each and every point given above in the specification. Separate technical and commercial bids should contain all these details with technical support like original brochure, data sheets, etc. Photographs of the equipment also have to be submitted.</p>	
3	Compliance Statement	<ul style="list-style-type: none"> • The vendor should clearly indicate whether they are able to supply as per BHEL specifications for each item description. This should clearly be written in vendor compliance box of the enquiry as “Yes” or “No”. The vendor may mention reasons for: (i) deviations from specifications, (ii) providing better than mentioned specifications wherever applicable and (iii) mentioning “No” in the compliance box of enquiry. • Compliance statement for each and every point mentioned in the enquiry has to be provided indicating clearly the items/parts quoted against each point. Also in case any point being optional, the item/part quoted against the same should also be mentioned as optional. This statement has to be provided as a separate document and submitted along with the bid. • Non compliance/Incomplete compliance statement(s) is liable for rejection of the quote by BHEL. 	
		<ul style="list-style-type: none"> • The equipment should be under warranty for a period of 1 year from the date of commissioning or 18 months from dispatch, whichever is 	

4	Warranty	earlier. • During warranty period, if there is any repair to be carried out at the supplier's works, transport, all other incidental costs involved, cost of equipment / component besides repair / replacement charges, if any, should be borne by the supplier.
5	After Sales support and AMC	• After completion of standard warranty period, OEM/Authorized Indian Agent shall provide AMC for a period of 3 years and also quote for the same. • The AMC charge shall be quoted as a percentage (%) of basic cost of the main equipment. • The AMC charges will be added for cost evaluation for L1 bidder. • BHEL reserves the right to release separate AMC order after completion of standard warranty as per the quote given now.
6	Erection & Commissioning (E&C)	• E&C has to be done by the OEM or their authorised service agency / personnel at Metallurgy Department, BHEL Corporate R&D, Hyderabad. • All the necessary cables and adapters that are required for integration of the equipment have to be supplied along with the equipment. • It is the sole responsibility of the supplier to integrate all the system and ensure the functionality of the entire equipment and each accessory. • Supplier should intimate all pre - installation and utility requirements if any, if required so, a survey has to be carried out by the supplier, subsequent to the receipt of PO. • E&C has to be quoted separately.
	Manufactures Test Certificate	Manufacturer's Test Certificate required and shall be provided before dispatch.

* 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

BHEL R&D
RD:DP:MPX:F-22

LOADING FACTORS



NOTE : IN CASE OF DEVIATION TO BHEL TENDER SPECIFIED TERMS, LOADING FACTOR INDICATED IN FOLLOWING TABLE WILL BE APPLIED TO QUOTED PRICE WHILE EVALUATING THE LOWEST QUOTE

A. FOR INDIGENOUS PURCHASES					
SLNO	SCOPE	COMMERCIAL TERMS	BHEL STANDARD TERM	AS OFFERED	LOADING FACTOR FOR NON COMPLIANCE TO BHEL STANDARD TERMS
				SAME	NO LOADING
	SUPPLY OF EQUIPMENT INCLUDING		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		SUBMIT BANK GUARANTEE AT THE TIME OF PAYMENT IN THE PRESCRIBED FORMAT OF THE AMOUNT EXCEEDING 80% OF 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 ADDITIONALLY, LOADING AT BENCHMARK PRIME LENDING RATE(BPLR) OF SBI AS

A.1	ERECTION AND COMMISSIONING (E&C)	PAYMENT TERMS	AND SUBMISSION OF PERFORMANCE BANK GUARANTEE (PBG) VALID FOR 60 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	ANY OTHER	APPLICABLE ON THE SCHEDULED DATE OF TENDER OPENING+2%. FOR THE AMOUNT & PERIOD OF RELAXATION SOUGHT BY BIDDER				
B. FOR FOREIGN PURCHASES (IMPORTED)									
B.1	SUPPLY OF EQUIPMENT INCLUDING ERECTION AND COMMISSIONING (E&C)	PAYMENT TERMS	PAYMENT THROUGH LC (LC OPENING CHARGES ARE TO BE LOADED), 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 SHALL BE ISSUED BY BHEL. E&C CERTIFICATE SHALL BE ISSUED ON SATISFACTORY COMPLETION OF ERECTION, COMMISSIONING, JOB PROVING, PERFORMANCE TESTS, TRAINING TO OPERATORS ETC AS ENVISAGED IN PO. THE L/C SHALL BE OPENED BY BHEL AS PER FOLLOWING: (i) WITHIN 30 DAYS OF RECEIPT OF ORDER ACCEPTANCE, 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 PO. THE ABOVE L/C WILL BE VALID FOR A 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 60 DAYS BEYOND THE WARRANTY PERIOD FROM ONE OF THE CONSORTIUM BANKS OF BHEL OF 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.	ANY OTHER	<table border="1"> <thead> <tr> <th>SAME</th> <th>NO LOADING</th> </tr> </thead> <tbody> <tr> <td></td> <td>SUBMIT BANK GUARANTEE AT THE TIME OF OPENING OF LC IN THE PRESCRIBED FORMAT OF THE AMOUNT EXCEEDING 80% OF 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. 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 SBI 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 W.R.T. NIT NORMS, AS PER THE PREVAILING BANK RATES</td> </tr> </tbody> </table>	SAME	NO LOADING		SUBMIT BANK GUARANTEE AT THE TIME OF OPENING OF LC IN THE PRESCRIBED FORMAT OF THE AMOUNT EXCEEDING 80% OF 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. 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 SBI 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 W.R.T. NIT NORMS, AS PER THE PREVAILING BANK RATES
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C. PENALTY FOR DELAYED DELIVERY (COMMON FOR INDIGENOUS AND IMPORTS)				
SLNO	COMMERCIAL TERMS	BHEL STANDARD TERM	AS OFFERED	LOADING FACTOR FOR NON COMPLIANCE TO BHEL STANDARD TERMS
C	LD CLAUSE	IN THE EVENT OF DELAY IN AGREED CONTRACTUAL DELIVERY, PENALTY OF 0.5% (HALF PERCENT) PER WEEK BUT LIMITED TO A MAX OF 10% OF TOTAL ORDER VALUE WILL BE APPLICABLE	AGREED	NIL
			IF NOT AGREED	LOADING @ 10% OF THE BASIC MATERIAL COST
			IF AGREED FOR X%	LOADING @ (10-X)% OF THE BASIC MATERIAL COST
D. GUARANTEE/WARRANTY PERIOD (COMMON FOR INDIGENOUS AND IMPORTS)				
SLNO	COMMERCIAL TERMS	BHEL STANDARD TERM	AS OFFERED	LOADING FACTOR FOR NON COMPLIANCE TO BHEL STANDARD TERMS
D	GUARANTEE/WARRANTY PERIOD	STANDARD GUARANTEE/ WARRANTY PERIOD(X)	AGREED	NIL
		MINIMUM QUOTED GUARANTEE / WARRANTY PERIOD(Y)	NOT AGREED FOR STIPULATED BUT AGREED FOR DESIRED GUARANTEE/WARRANTY(Y)	LOADING @ 10 % OF THE ORDER VALUE PER ANNUM FOR THE REDUCED GUARANTEE PERIOD (X-Y)

BHEL R&D

Terms & Conditions of Reverse Auction



Against this enquiry for the subject item/ system with detailed scope of supply as per enquiry specifications, BHEL may resort to “REVERSE AUCTION PROCEDURE” i.e., ON LINE BIDDING (THROUGH A SERVICE PROVIDER). The philosophy followed for reverse auction shall be English Reverse (No ties).

1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
2. Those bidders who have given their acceptance for Reverse Auction (quoted against this tender enquiry) will have to necessarily submit „online sealed bid? in the Reverse Auction. Non-submission of „online sealed bid? by the bidder for any of the eligible items for which techno-commercially qualified, will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.
3. BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet.
4. In case of reverse auction, BHEL will inform the bidders the details of Service Provider to enable them to contact & get trained.
5. Business rules like event date, time, bid decrement, extension etc. also will be communicated through service provider for compliance.
6. Bidders have to fax the Compliance form (annexure IV) before start of Reverse auction. Without this, the bidder will not be eligible to participate in the event.
7. In line with the NIT terms, BHEL will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at “Total Cost to BHEL” like Packing & forwarding charges, Taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for non-compliance to BHEL standard Commercial terms & conditions) for each of the bidder to enable them to fill-in the price and keep it ready for keying in during the Auction.
8. Reverse auction will be conducted on scheduled date & time.
9. At the end of Reverse Auction event, the lowest bidder value will be known on auction portal.
10. The lowest bidder has to fax/e-mail the duly signed and filled-in prescribed format for price breakup including that of line items, if required, (Annexure VII) as provided on case-to-case basis to Service provider within two working days of Auction without fail.
11. In case BHEL decides not to go for Reverse Auction procedure for this tender enquiry, the Price bids and price impacts, if any, already submitted and available with BHEL shall be opened as per BHEL?s standard practice.
12. Bidders shall be required to read the “Terms and Conditions” section of the auctions site of Service provider, using the Login IDs and passwords given to them by the service provider before reverse auction event. Bidders should acquaint themselves of the „Business Rules of Reverse Auction?”, which will be communicated before the Reverse Auction.
13. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines, shall be initiated by BHEL and the results of the RA scrapped/ aborted.
14. The Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party.
15. In case BHEL decides to go for reverse auction, the H1 bidder (whose quote is highest in online sealed bid) may not be allowed to participate in further RA process.

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 :
Company
Seal

Authorised Signatory
Designation :



**Corp. R&D
DIVISION
VIKAS
NAGAR,**

RD:MPX:F-13

Bharat Heavy Electricals Limited

HYDERABAD- 500 093 (INDIA)

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 CPACITY :
 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 brouchers, catalogues, technical literature etc)

6.0 ANY OTHER INFORMATION:

SIGNATURE OF SUPPIER (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



Bharat Heavy Electricals Limited

Corp. R&D DIVISION

VIKAS NAGAR,

HYDERABAD- 500 093 (INDIA)

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

RD:MPX:F-13

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.

