



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

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ENQUIRY

Ref: 711700161

Date 29-04-2017

Enquiry for **100kN Servohydraulic HCF Testing Machines**

Enquiry No:711700161 Enquiry Date : 29-04-2017 Due Date: 30-05-2017 Indicative Delivery Date : 28-02-2018

Sl.No	Item Description	Unit	Qty
1	100kN Servohydraulic HCF Test Machine	LOT	2
2	Erection and Commissioning of HCF Test Machine	LOT	2

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

Virendra Dixit
Sr Dy General Manager
virendra@bhelrnd.co.in

	ENQUIRY & QUALIFYING CRITERIA	Volume - 1 Enquiry No 711700161
100kN Servohydraulic HCF Testing Machines		

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) 100kN Servohydraulic HCF Test Machine - 2 LOT 2) Erection and Commissioning of HCF Test Machine - 2 LOT
3	Enquiry Reference no.	711700161
4	Indicative Delivery Date	28-02-2018
5	Due date, Time and place for submission of tender	30-05-2017 upto 12 noon. Sealed Quotations shall be addressed to Additional General Manager(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. 30-05-2017, 2 PM
		Please submit your offer in one common sealed cover containing two parts in separate sealed covers as detailed below. 1) First Cover shall contain: - Signed General Terms & Conditions (GTC) - Filled and Signed Commercial Terms & Conditions (CTC) - Filled and Signed Vendor Specifications against BHEL Specifications (Item wise) - Signed commercial bid - Copy of Price-bid with price(s) cells blank (un-priced price bid) as per annexure 2) Second cover shall contain Price Bid Containing Price quotes, applicable taxes, 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 as per annexure. If the price bid was found later to be different from the unpriced pricebid format in any way, the offer will be rejected

7	Mode of Submission of Tender	summarily. The rates shall be quoted both in figures and in words. 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@bhelrnd.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. The e-mail offers should have two attachments. 1) One attachment shall contain a. Signed General Terms & Conditions (GTC) b. Filled and Signed Commercial Terms & Conditions (CTC) c. Filled and Signed Vendor Specifications against BHEL Specifications (Item wise) d. Signed commercial bid e. Copy of Price-bid with price(s) cells blank (un-priced price bid), as per annexure 2) Second attachment shall contain Price Bid Containing Price quotes, applicable taxes, 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 as per annexure. The subject of the e-mail should contain Enquiry No, Enquiry Date and Due date.
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	GENERAL TERMS & CONDITIONS (GTC)	Volume - 1 Enquiry No 711700161
100kN Servohydraulic HCF Testing Machines		

SL.No.	Clause	BHEL REQUIREMENT
1	General	a. All offers must include name of the contact person, phone no/mobile no, Fax no, email-id. Unsigned offers are liable for rejection. 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. 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. 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. 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. e. BHEL R&D do not issue 'C' form . f. L1 status shall be decided on Cost to BHEL Basis.
2	Late Tenders	Tenders received after due date/time(12:00hrs) will not be considered
3	Discrepancy in words and figures	(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. (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 (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. (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.
4	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.
5	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.
6	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.
7	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.
8	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.
9	Risk Purchase	In case of default/late delivery, BHEL reserves the right to make alternate arrangement for procurement at suppliers risk and cost.
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. Guidelines for suspension of business dealings with suppliers/contractors are available on www.bhel.com under supplier registration page
11	Over All L1	Order will be placed on overall L1 basis. Vendors should quote for all items, otherwise the offer will be rejected.

12	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.
13	Arbitration	Subject to the jurisdiction of Hyderabad/Secunderabad, Andhra Pradesh, India in respect of any suit or other legal proceedings relating this contract.
14	Micro Small Enterprises (MSEs)	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. Certificate by chartered Accountant on letter head 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). Further verified from the Books of Accounts that the investment of the company as on date..... as per MSMED Act 2006 is as follows : 1. For manufacturing Enterprises : Investment in plant and machinery (i.e. Original 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. 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 The above investment of Rs..... Lacs is within permissible limit of Rs..... Lacs for.....Micro/Small (Strike off which is not applicable) Category under MSMED Act 2006. Date: (Signature)

		Name- Membership number -- Seal of Chartered Accountant
15	Contract execution Bank Guarantee (CEBG)-Capital	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). 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. 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. 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.
16	Foreign Vendors	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 (as per *). * The Agency Agreement shall specify 1) Agency commission, 2) Responsibilities of the agent, 3) Territory, 4) Agreement Period
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.
18	Fraud Prevention Policy	The Bidder along with its associate/collaborators/sub-contractors/sub-vendors/consultants/service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website http://www.bhel.com and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice.
19	Signing & Stamping	Documents of BHEL's all Terms and conditions submitted with the offer shall be signed and stamped in each page of authorized representative of the bidder

Documents submitted with the offer shall be signed and stamped in each page of authorized representative of the bidder

Read and agreed for all the above general terms and conditions

Signature of the bidder with Seal & Date



COMMERCIAL TERMS & CONDITIONS (CTC)

Volume - 1
Enquiry No
711700161

100kN Servohydraulic HCF Testing Machines

SL.No.	Clause	BHEL REQUIREMENT	SUPPLIERS ACCEPTANCE / REMARKS
1	Reverse Auction	BHEL reserves the right to go for Reverse Auction (RA) (Guidelines as available on www.bhel.com) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. Bidders to give their acceptance with the offer 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. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit 'Process compliance form' (to the designated service provider) as well as 'Online sealed bid' in the Reverse Auction. Non-submission of 'Process compliance form' or 'Online sealed bid' by the agreed bidder(s) will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com). The bidders have to necessarily submit online sealed bid less than or equal to their envelope sealed price bid already submitted to BHEL along with the offer. The envelope sealed price bid of successful L1 bidder in RA, if conducted, shall also be opened after RA and the order will be placed on lower of the two bids (RA closing price & envelope sealed price) thus obtained. The	

		bidder having submitted this offer specifically agrees to this condition and undertakes to execute the contract on thus awarded rates. If it is found that L1 bidder has quoted higher in online sealed bid in comparison to envelope sealed bid for any item(s), the bidder will be issued a warning letter to this effect. However, if the same bidder again defaults on this count in any subsequent tender in the unit, it will be considered as fraud and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com).	
2		Please submit your offer in one common sealed cover containing two parts in separate sealed covers as detailed below. 1) First Cover shall contain: - Signed General Terms & Conditions (GTC) - Filled and Signed Commercial Terms & Conditions (CTC) - Filled and Signed Vendor Specifications against BHEL Specifications (Item wise) - Signed commercial bid - Copy of Price-bid with price (s) cells blank (un-priced price bid) as per annexure 2) Second cover shall contain Price Bid Containing Price quotes, applicable taxes, 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 as per annexure. 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	

	Two part	figures and in words. 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@bhelrnd.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. The e-mail offers should have two attachments. 1) One attachment shall contain a. Signed General Terms & Conditions (GTC) b. Filled and Signed Commercial Terms & Conditions (CTC) c. Filled and Signed Vendor Specifications against BHEL Specifications (Item wise) d. Signed commercial bid e. Copy of Price-bid with price (s) cells blank (un-priced price bid), as per annexure 2) Second attachment shall contain Price Bid Containing Price quotes, applicable taxes, 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 as per annexure. The subject of the e-mail should contain Enquiry No, Enquiry Date and Due date.	
3	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.	
4	Validity of Offer	90 days from date of techno-commercial bid opening.	

5	Agency Agreement	Guidelines regarding dealing with Indian agents of foreign suppliers 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 Indian agent / associate, whether general in nature or in relation to the particular contract, must clearly be stated by the foreign supplier / Indian Agent. Any payment, which the Indian 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. 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.	
6	Nature of Vendor submitting the Offer	OEM / Agent / Representative / Dealer / Distributor / Stockist / Trader / Reseller / Channel Partner/ System Integrator / Any Other (Pl. Specify)	
7	Foreign Suppliers without Indian	To be quoted in Foreign Currency. Purchase Order will be placed on	

	Agent	Foreign Supplier.	
8	Foreign Principal availing services of an Indian Agent	Foreign principal should ensure compliance to regulatory guidelines which require mandatory submission of Agency agreement. (as per *) To be quoted in Foreign Currency. Purchase order will be placed on Foreign Supplier. Agency Commission will be paid to Indian Agent in Indian rupees. * The Agency Agreement shall specify 1) Agency commission, 2) Responsibilities of the Agent, 3) Territory, 4) Agreement Period	
9	Indian Agent desirous of quoting imported Equipment	Any Indian Agent desirous of quoting imported Equipment, they should submit the quote in foreign currency along with copy of agency agreement (as per *). To be quoted in Foreign Currency. Purchase order will be placed on Foreign Supplier. Agency Commission will be paid to Indian Agent in Indian rupees. * The Agency Agreement shall specify 1) Agency commission, 2) Responsibilities of the agent, 3) Territory, 4) Agreement Period	
10	Indian Vendor Offering Equipment with partly imported & partly indigenous Items/Services	Imported Items to be quoted in Foreign Currency.(**) Purchase order for imported items will be placed on Foreign Supplier. Indigenous items/services to be quoted in Indian rupees.(**) Purchase order for indigenous items/services will be placed on Indian Supplier. ** 1) As BHEL R&D is registered with Department of Scientific and Industrial Research (DSIR) for the purpose of availing Customs	

		Duty exemption, BHEL desires to import the foreign items from foreign supplier with concessional custom duty. 2) In case if it is not possible to quote in foreign currency for imported items, reasons for the same to be mentioned. 3) Authorisation Letter from Foreign Supplier should be submitted.	
11	Indian Vendor offering Items manufactured / assembled / customized in India with imported/indigenous material/sub components.	Please specify both imported and indigenous content in percentage / customization done.	

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.

Read and understood the above commercial terms and conditions

Signature of the bidder with Seal & Date



OTHER TERMS & CONDITIONS

Volume - 1
Enquiry No
711700161

100kN Servohydraulic HCF Testing Machines

SL.No.	Clause	BHEL REQUIREMENT	SUPPLIERS ACCEPTANCE / REMARKS
1	General Terms and Conditions (GTC) - 1.b General (Contd.)	The DSIR registration certificate was valid up to 31-Mar-2017 and is under renewal. c). The current procurement is under Government of India funded project. Concessional duties, if any, available to BHEL at price bid opening shall be taken into account for evaluating landed cost calculation. Hence suppliers are requested to submit their bids clearly stating applicable taxes/duties. All offers shall be evaluated at concessional rates of duties in case the registration certificate is renewed or Government of India funded project concessions available, if any, on or before opening of price bid date or otherwise it shall be evaluated with quoted/prevaling rates at price bid opening for cost comparison. However, all suppliers have to accept Concessional duties in case if the same is available to BHEL at dispatch.	
		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	

2	Payment Term	to operators etc, and Submission of Performance Bank Guarantee (PBG). 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 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 with an additional claim period of 2 months 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. Under all circumstances, CEBG shall be kept valid till be PBG becomes operational. 2 Direct Payment.	
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		(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 with clear documents 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) by Supplier in the prescribed Format valid for 30 days beyond the warranty period with an additional claim period of 2 months 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 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. 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) Base rate of SBI as applicable on the date of tender opening + 6%, 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.	
3		1 For the purpose of penalty for delay in E&C of the equipment the	

Penalty for Delay
in supply and E
& C

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 . 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 nonacceptance 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.	
4	Installation & Commissioning Charges	Installation & Commissioning Charges value will include services to be rendered at BHEL like erection, commissioning, job proving, performance tests, and on-site training to operators etc. The estimated percentage value of these charges as per BHEL: as per % specified in the NIT/itemspecification/ technical specifications. The Supplier should quote these charges as % of (exw total Supply value) separately in technical bid. Only in case where quoted value is less than the value (in %) specified in the NIT or separate value is not mentioned in the offer, value for E&C portion shall be deemed to be considered as the value indicated in NIT & accordingly supply value will be adjusted from that quoted value and balance will be released as E&C payment as per Payment terms of enquiry.	
5	Force Majeure clause	If at any time during the continuance of the contract the performance in whole or in part by either party of any obligations under the contract is prevented or delayed by reason, of any war, hostilities, acts of the public enemy, civil commotion, sabotage, fires, explosions, epidemics, quarantine, restrictions or acts of GOD (hereinafter referred to as events) and notice of happening of any such events is given by either party to other within twenty one days from the date of occurrence thereof then neither party shall by reason of such events be entitled to terminate the contract. If the performance in whole or part of any obligation under this contract is prevented or delayed by reason of occurrence of such events, then claims for extension of time shall be granted for period considered	

		reasonable by the purchaser subject to prompt notification by the seller to the purchaser the particulars of the events, if required with supporting evidence. Any waiver of time in respect of partial instalment shall not be deemed to be a waiver of time in respect of remaining deliveries.	
6	ARBITRATION & CONCILIATION	Except as provided elsewhere in this Contract, in case amicable settlement is not reached between the Parties, in respect of any dispute or difference; arising out of the formation, breach, termination, validity or execution of the Contract; or, the respective rights and liabilities of the Parties; or, in relation to interpretation of any provision of the Contract; or, in any manner touching upon the Contract, then, either Party may, by a notice in writing to the other Party refer such dispute or difference to the sole arbitration of an arbitrator appointed by Unit-Head, Corporate Research and Development, Vikasnagar, Hyderabad-500093, Telangana State, India (Head of the BHEL Unit issuing the Contract). The Arbitrator shall pass a reasoned award and the award of the Arbitrator shall be final and binding upon the Parties. Subject as aforesaid, the provisions of Arbitration and Conciliation Act 1996 (India) or statutory modifications or re-enactments thereof and the rules made there under and for the time being in force shall apply to the arbitration proceedings under this clause. The seat of arbitration shall be Corporate Research and Development, Vikasnagar, Hyderabad-500093, Telangana State, India (the place from which the contract is issued) The cost of arbitration shall be borne as per the award of the Arbitrator. Subject to the arbitration in terms of Clause	

		above, the Courts at Hyderabad/ Secunderabad, Telangana State, India (Name of the place where the Principal Civil Court having ordinary original civil jurisdiction to decide questions forming subject matter of the arbitration is located) shall have exclusive Jurisdiction over any matter arising out of or in connection with this Contract. Notwithstanding the existence or any dispute or differences and/or reference for the arbitration, the Contractor shall proceed with and continue without hindrance the performance of its obligations under this Contract with due diligence and expedition in a professional manner except where the Contract has been terminated by either Party in terms of this Contract.	
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Signature of the bidder with Seal & Date

	ITEM SPECIFICATIONS	Volume - 2 Enquiry NO 711700161
100kN Servohydraulic HCF Testing Machines		

SL.No.	Item			
1	100kN Servohydraulic HCF Test Machine			
	sl no	Descriptions	BHEL Specifications	Vendor Specifications/ Deviations
	1	Scope of supply and testing	Supply, installation, commissioning, demonstration and user training of 100kN servo hydraulic High Cycle Fatigue (HCF) machines (2Nos) for carrying out the following tests. 1) High cycle fatigue test as per ASTM E466 2) Pre – cracking /fatigue crack growth rate test (da/dN) as per ASTM E 647 3) Tensile test as per ASTM E8M 4) Compression test as per ASTM E9 5) 3-point bend test as per ASTM E855 6) J1c test as per ASTM E1820 7) K1c test as per ASTM E399 The test system should possess the following capabilities and features.	
			1) Load frame shall be of fatigue rated two column self-reacting type with ± 100 kN Dynamic Capacity 2) Total Test Day Light (distance between base platen and crosshead) shall be minimum 1600 mm 3) Space between	

			columns shall be minimum 650mm 4) It should have hydraulic lifts & clamps for cross head movement and locking. 5) Frame Stiffness should be minimum of 600 kN/mm at crosshead at 1m 6) It should have Load frame mounted control and/or in remote handset/panel with display for Power Pack On/Off, Emergency Stop, Actuator jog UP & Down Slow & Fast , Crosshead position Up & Down, Hydraulic Grips Close & Open, etc. 7) The load frame should be capable of taking test frequency from 0.01Hz to 100Hz. 8) Machine should be CE Compliant 9) Anti-vibration leveling units should be provided for the loading frame	
	2	Loading Frame (Two Individual Machines)		
			1) Fatigue rated double acting, double ended, equal piston area, linear hydrostatic bearing actuator 2) Actuator mounted in the lower base platen 3) One set of Accumulators directly mounted on actuator 4) $\pm 100\text{kN}$ Fatigue rated dynamic capacity actuator with $\pm 50\text{mm}$ (total 100mm) displacement/stroke. 5) Actuator should have LVDT (Linear Variable Differential Transformer) or Digital magnetostrictive	

			encoder with SSI (Serial Synchronous Interface) output for displacement measurement with resolution of 0.001mm 6) Low friction and wear resistant and high side load carrying capabilities 7) Hydraulic cushioning should be provided 8) It should be capable of achieving frequencies from 0.01 to 100Hz dynamic load applications. 9) Suitable flow rate servo valve (not proportional valves) shall be provided for conducting tests mentioned above on Stroke, Load & Strain control modes with above referred frequency range. 10) Dual Manifold for two stage servo valve with at least 10 LPM and 60 LPM servo valves and with two flushing plates 11) Anti-rotation assembly shall be provided.	
	3	Servo Hydraulic Hydrostatic Actuator (For each machine)		
			1) Vendors should submit performance curve along with the technical offer 2) The performance curve should match the following Dynamic Frequency (Hz) Vs (+/-) Amplitude (mm) values 0.2Hz-50mm 1Hz-49mm 5Hz-9.5mm 10Hz-4.5mm 20Hz-2.2mm 50Hz-0.7mm 100Hz-0.2mm	

4

Hydraulic power pack
(For each machine)

- 3) The power pack should be variable displacement pump with automatic flow regulation to save power when the maximum oil flow is not required
- 4) Suitable flow rate Hydraulic Power pack of 210 bar to 280 bar system pressure
- 5) Supply to meet the test applications, strain rates and frequencies as mentioned above should be offered.
- 6) Safety features to trip at over temperatures, over pressure, low oil level, filter clogging, power failure, motor over load etc. shall be incorporated.
- 7) Acoustic hood is mandatory such that noise level at a distance of 1 meter should be less than 65 dB
- 8) Pressure-line oil filtration (Filter size of maximum 3 microns)
- 9) Hydraulic oil for the HPU to be provided.
- 10) Hoses of min 6m length needs to be provided.
- 11) Power supply 400-440 Volts , 3Phase
- 12) Power pack should be supplied with suitable closed loop refrigerant based chiller unit with following specifications
 - a) The cooling liquid to be used water with or without additives.
 - b) Temperature constancy +/-2 K
 - c) Pump pressure of minimum 2.5 bar
 - d) Stainless steel tank

		reservoir of 200L (or more) capacity e) Operating voltage. 400V/50Hz/3 Phases f) Noise level at 5 meter distance should be less than 63 dB g) Refrigerant CFC-free R407C or equivalent h) Automatic operation i) Max ambient operating temperature of 50 Deg. C	
5	Load Cell (For each machine)	1) $\pm 100\text{kN}$ Dynamic Capacity Fatigue Rated Load Cell. 2) Accuracy should be 0.5% of Indicated load 3) 150% over load capacity and 100% Side Load Capacity. 4) 350 Ohm strain Bridge design. 5) Non Linearity: $\pm 0.02\%$ of Full Scale or better. 6) Hysteresis: $\pm 0.025\%$ of full Scale or better. 7) Fatigue life of 10^9 full stress reversed cycles at full capacity 8) Integrated acceleration sensor	
		1) The servohydraulic test system shall be controlled by a fully digital, closed-loop control system based on at least 32-bit architecture. 2) Data acquisition / signal conditioners 19 bit or better 3) Data acquisition rate 5kHz 4) Digital Input and output (I/O) lines of minimum 8 Nos should be available (one for load, one for	

	6	Control Electronics (For each machine)	stroke/crosshead travel, one for strain, balance I/O selectable according sensors and analogue or digital signals) 5) Auto Calibration and digital Auto Zero capability. 6) Internal data sampling rate 2 MHz 7) Adaptive peak control 8) Adaptive control and PID parameter modification & compensation of sample stiffness gradient 9) Easy Downloadable Firmware for future up gradations, without making any changes in the controller. 10) Controller should be capable of conducting all Tests mentioned above. 11) Should be capable of acquiring data from all control and feedback channels. 12) It shall be compatible with industry standard Ethernet or USB communication ports.	
	7	Remote Control Hand Set (For each machine)	Multifunctional Remote Control Hand Set with Display. The Remote Control Hand Set with display should offer convenient test Set-up and Operation of the Testing Machine. The Remote Control should offer: a) Digital Display of Force / Travel b) Upper Crosshead unclamping and positioning c) Opening and Closing	

		of hydraulic grips d) Digital Setting Mode of the piston or crosshead e) Emergency Button	
8	Software (For each machine)	1. Software to run static and cyclic tests with Sine, square, triangle, ramp, hold, profile, other necessary waveforms and custom waveform activities. Ability to create test templates, Data export to ASCII and report generation. Pre-defined templates for tensile, compressive and bending testing are required. 2. High-Cyclic Fatigue (HCF) test software to meet ASTM E466, stress-controlled high-cycle fatigue test standard. 3. Software also to meet ASTM E606, strain-controlled low-cycle fatigue test standards and run constant-amplitude, strain-controlled fatigue testing in compliance with ASTM standards. Ability to allow user defined hold times. 4. Fatigue Crack Growth software to meet ASTM E647 test standard. Should also feature online load-displacement, crack length vs. cycles, and da/dN plotting, test shutdown and test parameter changes during the test execution. 5. K1c Fracture Toughness software to meet ASTM E 399 test	

		standard, and J1c Fracture Toughness software to meet ASTM E 1820 test standard. 6. Advanced data filtering options on all feedback channels must be available. 7. Software offered should be capable of generating the final test report including Raw data in the general purpose MS Office (EX: Excel) format	
9(a)	100kN Alignment fixture (One for each machine)	1. Alignment fixture capable to perform alignment adjustments while the load train is fully pre-loaded. 2. To be fixed between crosshead and load cell	
9(b)	Alignment verification specimen and software – One set (will be used on either of the machine)	1. Alignment verification software ASTM E1012. 2. Strain gauge rod (round specimen) with 12 strain gauges for correction of both concentric and angular misalignment. The specimen should withstand stress up to 400 MPa. 3. Strain gauge (flat specimen) with 12 strain gauges also needs to be provided. The specimen should withstand stress up to 400 MPa. 4. Multi-channel electronic measurement unit for measurement and data acquisition 5. Software package with pre-programmed Alignment application. 6. A suitable laptop (Make DELL/HP/LENOVO with Windows OS, Intel	

		Processor, 8GB RAM, 1TB HDD, Full HD LED 14 Inch Screen, DVD RW) to be supplied with the alignment software pre-installed 7. Additional Strain gauge rod with thread-end and 12 strain gauges for correction of both concentric and angular misalignment 8. Sample design according to BHEL requirements.	
10		1. Water cooled $\pm 100\text{kN}$ self-aligning high temperature grips for carrying out HCF and LCF test on M10 samples. Additional set of sample holders for M10 threaded ends to be provided 2. 100 kN Hydraulic non shift wedge grips for static, pseudo-static and dynamic (through-zero) testing with open front construction design with following jaw faces for flat and round specimens (a) Set inserts for flat specimen 0 – 10 mm x 50 mm wide (b) Set inserts for flat specimen 10 – 20 mm x 50 mm wide (c) Set inserts for round specimen $\varnothing$ 5 – 13 mm (d) Set inserts for round specimen $\varnothing$ 14 – 20 mm 3. Slick High temperature 3-zone split furnace with following specifications a) Temperature range: 200 Deg C to 1200 Deg C.	

Standard accessories
(For each machine)

- b) Heating rates: up to 20 Deg C /minute.
 - c) Temperature accuracy: ± 2 Deg C
 - d) Programmable PID Eurotherm Controller.
 - e) Heating System: Kanthal
 - f) Heating zone Diameter: 100 mm
 - g) Heating zone height: 300mm
 - h) Outer diameter: Up to 350 mm
 - i) Max Height: Up to 500mm
 - j) Electronic 3-zone control unit complete with 3-PID controllers (Eurotherm 2216 series).
 - k) Hinged Swiveling Furnace Mounting Bracket for furnace installation. The furnace should be conveniently swung out of the testing area when not used. Also, should have the capability of centering facility and horizontal position be adjusted. Free Standing Mounting Bracket to avoid any vibrations from load frame introduced into the furnace.
 - l) "R" type furnace thermocouple 3 nos for measurement and control of temperature with calibration certificate
 - m) Additional thermocouple with an additional display for sample temperature monitoring with calibration certificate
 - n) Extensometer slot
4. High temperature (1000deg C) CT Grips

for samples with 12.5mm width, 50 mm length and 12.5 mm width and 25mm length for conducting Fatigue Crack Growth Rate (FCGR) tests.

5. High Temperature (1000deg C) COD Gauge having a GL of 5mm and travel of +2.5mm and should be of Full bridge, 350 ohm strain gauged design.

Provide suitable mounting brackets for COD Extensometer.

The extensometer should be conveniently adjusted in height or taken away from the testing area when not used. Including two set of spare of ceramic rods.

6. Room temperature COD Gauge with GL 5mm and with +2.5mm

7. Room temperature Dynamic Extensometer for fatigue tests

a) Gauge length 12.5 mm travel up to ± 2 mm

b) Gauge length 25 mm travel up to ± 5 mm

c) Gauge length 50 mm travel up to ± 10 mm

8. High Temperature Axial Extensometer for use with high temperature furnace

(a) Gauge Length- 25mm travel up to ± 2.5 mm

(b) With signal conditioner and power supply included

(c) Meeting ASTM class B-1 for accuracy

(d) Max operating temperature 1200 Deg C

(e) Provision to set

		gauge length prior to mounting (f) Two set of ceramic rods	
11	Common Accessories (Will be used on either of the machine)	1. 100 kN Dynamic Room temperature Compression Platens with 100mm dia. Upper platen spherical seating and lower plain 100mm dia compression platens. 2. 100 kN Dynamic Room temperature 3-point bend fixture with continuously adjustable span of 25 to 350 mm and roller diameter 10mm and max specimen width of 100mm	
12	Work Station (For each machine)	High Performance compatible workstation & Printer should be provided along with each machine with following specifications a) Windows OS (64bit) b) Hard disk 1 TB SATA c) 23 Inch (Minimum) Full HD (1920x1080) LED monitor d) Colour Laser Printer for report generation and printing (HP Laser Jet Pro CP1025 Equivalent or better) e) Suitable Single phase online UPS should be provided for peripherals for saving of data in case of power failure (with 30 min back-up) f) Computer table with power distribution and CPU Holder	
		1. Standard manual forklift for lifting hydraulic grips 2. To lift and maneuver	

13	Standard fork Lift (Will be used on either of the machine for handling hydraulic grips)	in congested areas 3. It should have lightweight aluminium construction with steel forks 4. Working height (Max lifting height) of 1.8 meter 5. Maximum lifting capacity of 200Kgs 6. Standard winch 7. Reversible winch handle for easy storage 8. 20 cm non-marking rear wheels and 5 cm dual wheel front swivel casters	
	14	Basic tools and spare parts kit (For each machine)	With essential spares and consumables (grease, fuses, lamps, etc.) required for maintaining the machine for at least 5 five years.
	15	Calibration certificates (For each machine)	Calibration certificates as per standard indicated or equivalent for: 1. Force (ISO 7500-1) 2. Piston Stroke (ISO EN 9513) 3. Extensometers (ISO EN 9513) Certificates include determination of measuring uncertainties.
2	Erection and Commissioning of HCF Test Machine		
	sl no	Descriptions	BHEL Specifications Vendor Specifications/ Deviations
			a) E&C or Installation has to be carried out at BHEL Corporate R&D Division, Hyderabad – 500093, India, by the OEM or their authorized service agency/ personnel only. b) Supplier should indicate number of days

	1	Erection and	required to start the E&C after receiving intimation from BHEL on readiness of the site for E&C. c) Supplier should indicate duration (in days) for completion of E&C, demonstration and post-installation training at site of installation. d) Delay in completion of E&C within stipulated time indicated earlier will attract penalty as per Late Delivery (LD) clause mentioned in commercial terms and conditions (CTC) as applicable. e) All cables, adapters, etc. required for integration of each and every component of Instrumented Impact Testing Machine must be supplied along with the system. Any requirement for handling, etc. the equipment(s) during E&C/ Installation should be arranged by the supplier/vendor. It is the responsibility of the supplier to integrate all the systems (including accessories, auxiliaries, if any) and ensure the functionality of the entire Instrumented Impact Testing Machine and accessories, auxiliaries as per technical scope of the enquiry.	
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Commissioning (E&C)
or Installation

f) E & C charges will include services to be rendered at site of installation like erection, commissioning, job proving, performance tests, and onsite training to operators etc.

g) The estimated percentage value of these charges as per BHEL: 6% of basic equipment price (i.e., price of equipment with accessories and auxiliaries (if any), excluding spares).

h) The Supplier should quote these charges as % of basic equipment price separately in unpriced and price bids as per enclosed foreign ANNEXURE-5: FA and/ or 5: FB / Indian ANNEXURE-5: IA and/ or 5: IB respectively. Only in case where quoted value is less than the value (in %) specified above or separate value is not mentioned in the offer, value for E&C shall be deemed to be considered as the value indicated above (6%) and accordingly supply value will be adjusted from that quoted value and balance will be released as E&C payment as per Payment terms- under Commercial terms and conditions of enquiry.

i) E&C report should be submitted to BHEL

		after successful completion of the same. E&C charges will be paid only after successful completion of E&C and submission of report. j) All travel, boarding, lodging and other charges (if any) for authorized personnel deputed for E&C/ Installation and demonstration should be borne by the vendor.		
G	General Specifications			
	sl no	Descriptions	BHEL Specifications	Vendor Specifications/ Deviations
			1. Original Equipment Manufacturer (OEM) means, the manufacturer and supplier of this “Servohydraulic high cycle fatigue (HCF) testing machine(s) ” is the vendor/ supplier for this tender with the following criteria: 2. Country of OEM must also be the country of origin (manufacture). A declaration has to be submitted as a proof of compliance to this clause 3. OEM must have supplied Servohydraulic HCF testing machines in the past 5 (five) years to a minimum of 5 (five) different customers as on the date of tender opening mentioned in the original enquiry. 4. Out of the 5 (five) different customers mentioned in S.NO.3, of PQC clause, OEM should have supplied and	

		installed/commissioned at least one equipment in the last 3 years. 5. Of the 5 customers mentioned in S.No.3, OEM must also have supplied Servo hydraulic high cycle fatigue testing machine(s) in the past 5 (five) years to at least 2 countries outside the country of origin (manufacture). 6. Of the 5 customers mentioned in S.No.3, OEM should have supplied at least two Servo hydraulic high cycle fatigue testing machine (s) in India in past 5 years. 7. The average financial turnover of OEM in the past 5 financial years should be equal or above 1 million US dollars or equivalent currency (exchange rate of USD as on enquiry date mentioned in the tender shall be considered). Details, i.e., copies of documents, wherein the financial turnover of OEM are reflected, should be provided (e.g. Financial statement of Profit and Loss account, balance sheet, etc.). 8. Prospective bidder shall furnish specific details of the company performance in the enclosed ANNEXURE-1: I and/ or 1: F. 9. A detailed list of customers with Purchase Order (PO) number and date of purchase, date of Erection and Commissioning (E&C), contact details of customers
1	Pre-Qualification Criteria (PQC)	

		to whom these equipments were supplied in past 5 (five) years as on enquiry date mentioned in the tender must be provided as per ANNEXURE-2: I and/ or 2: F enclosed with the enquiry. 10. Apart from the above mentioned list, one of the following reports/ certificates per customer for a minimum of 3 customers from the list mentioned in S.No. 8, have to be provided along with technical bid: Service reports OR Performance emails/ reports, which are not less than one year old as on enquiry date mentioned in the tender. These should indicate clearly that the equipment must be operating without breakdown for at least 1 year as on date of performance certification. 11. OEM must have an office in India or authorized service provider/ agency in India to provide after-sales service, support and maintenance for Servohydraulic HCF testing machines being quoted. A certificate in proof of this has to be submitted along with the bids.	
	Pre-Qualification Criteria (PQC)	12. BHEL reserves the right to carry out independent verification of performance certification. Hence, prospective bidders are required to give only reference of those customers who are willing to confirm independent verification and not refrain from the same on the grounds of confidentiality.	

		13. Both unpriced and price bids of “HCF testing machines” must be quoted in unpriced and price bids only as per foreign ANNEXURE-3: FA and/ or 3: FB / Indian ANNEXURE-3: IA and/ or 3: IB respectively	
2	Warranty	a) Warranty for all parts (including UPS, if any): Warranty for 12 months from the date of completion of E&C or 18 months from the date of receipt at BHEL R&D, Stores whichever is earlier. If any vendor quotes more than the above stipulated warranty period, cost implication of extra warranty period will not be considered for cost comparison. b) During warranty period, the repairs/ maintenance of the equipment, if any, shall be carried out by the vendor at free of cost at BHEL R&D, Hyderabad only. c) During warranty period, all upgrades to the operation related, data acquisition, processing and data-logging software must be provided free of cost. d) During warranty period, spares to be procured under recommended spares along with equipment will not be utilized as this is comprehensive in nature. Hence, all necessary parts should be provided by the OEM as and when required during warranty period. e) If during warranty period, there is any breakdown of the equipment for a duration beyond 7 days from the date	

		of reporting, warranty period will be extended by that duration. This should be complied by the vendor. f) Contact information of service engineers MUST be provided at the time of installation or E&C. g) Availability of trained service engineers in India for attending the problem in at most 3 days has to be ensured and complied to.	
3		a) Supplier should intimate the readiness of equipment for PDI at OEM's works. b) The OEM should intimate for PDI and Training at least 45 days in advance from the proposed PDI and Training date. c) Scope, Duration and daily schedule for PDI should be indicated in the offer. d) At the OEM works/ factory, the equipment shall be demonstrated for following performance tests as a part of PDI: 1) Demonstration of HCF, LCF, Compression Test, 3-point bend test, J1c and K1c tests on standard specimens (Sample drawing to be given along with intimation of readiness for PDI) which will be prepared by BHEL on each machine. e) During PDI, suggested modifications/ changes, if any by BHEL official should be carried out and intimated to BHEL for dispatch clearance. f) Dispatch clearance for	

Pre Dispatch
Inspection (PDI) and
Training at OEM
works

consignment will be given by BHEL Official after carrying out PDI at OEM's works.

g) Training at OEM works will be conducted subsequent to PDI

h) Detailed training at OEM work's / factory has to be provided by factory engineer to two BHEL officials on working of all modes of the equipment along with the accessories, handling the software for operation or data acquisition and maintenance procedures.

i) Training should also be provided on safety features, tasks to be performed in case of emergency, etc.

j) Detailed scope, duration and daily schedule for training at OEM works has to be indicated in the offer. The training charges, if any, have to be quoted separately as per foreign ANNEXURE-3: FA and/ or 3: FB / Indian ANNEXURE-3: IA and/ or 3: IB enclosed with the enquiry. The duration and total charges for the same has to be indicated appropriately in unpriced and price bids as enclosed as per foreign ANNEXURE-4: FA and/ or 4: FB / Indian ANNEXURE-4: IA and/ or 4: IB, respectively.

k) Training certificate/ report should be submitted to BHEL official after successful completion of the same.

		1) Travel and hospitality for personnel deputed for PDI and Training will be borne by BHEL.	
4	Operation and Maintenance (O&M) Manual(s)	One O&M manual in English (1 No. Hardcopy and 1 No. softcopy (in a CD/DVD/Data card)) should be supplied along with each machine.	
5	Demonstration at site of installation	a) For acceptance at the installation site, the supplier shall be responsible for performing the following tests as a part of E&C of the equipment: 1) High cycle fatigue test as per ASTM E466 2) Pre –cracking /fatigue crack growth rate test as per ASTM E 647 3) Tensile test as per ASTM E8M 4) Compression test as per ASTM E9 5) 3-point bent test as per ASTM E855 6) J1c test as per ASTM E1820 7) K1c test as per ASTM E399 b) These tests will be carried out on samples supplied by BHEL. Demonstration report should be submitted after successful completion of the same. c) Demonstration charges at site of installation should be quoted separately in unpriced and price bids as per foreign ANNEXURE-3: FA and/ or 3: FB / Indian ANNEXURE-3: IA and/ or 3: IB respectively d) All travel, boarding, lodging and other charges (if	

		any) for authorized personnel deputed for demonstration will be to vendor's account.	
6	Other installation requirements at site of supply	a) Supplier should intimate all pre-installation and utility requirements (such as: (a) power requirement(s); (b) earthing/ grounding requirement(s); (c) temperature, humidity control requirement(s); (d) dimensions of equipment, weight and space requirements; (e) civil works such as head room requirement, special foundation requirement with drawings and procedure for laying foundation, etc.) along with the technical bid.	
7	Post-installation Training	a) Post-installation training shall also be provided by the installation engineer(s) for all modes of Servo hydraulic high cycle fatigue testing machines along with accessories (if any) being provided, at site of installation for at least 2 officials from BHEL b) Post-installation charges at site of installation should be quoted separately in unpriced and price bids as per foreign ANNEXURE-3: FA and/ or 3: FB / Indian ANNEXURE-3: IA and/ or 3: IB respectively. c) Post-installation training certificate/ report should be submitted to BHEL after successful completion of the same. d) All travel, boarding, lodging and other charges (if any) for authorized personnel deputed for post	

		installation training should be to vendors account.	
8	After sales support and Non-comprehensive Annual Maintenance Contract (AMC)	a) Non-comprehensive AMC charges for all the same being quoted for 5 years beyond the stipulated warranty period have to be quoted in per year basis (in terms of % of basic equipment cost), for 5 years, after expiration of the stipulated warranty period as per unpriced and price bids foreign ANNEXURE-5: FA and/ or 5: FB / Indian ANNEXURE-5: IA and/ or 5: IB enclosed with the enquiry b) These charges have to be valid for 5 years beyond the stipulated warranty period. c) BHEL will consider loading of AMC charges for cost evaluation while deciding the tender priorities d) BHEL reserves the right to place a separate order/ orders for AMC contract for 5 years and/ or part thereof, at the rates quoted. e) All software upgrades have to be provided free of cost during service AMC period f) If during AMC period there is any breakdown of the equipment for a duration beyond 7 days from the date of reporting, AMC period will be extended by that duration. This should be complied by the vendor. g) The vendor should ensure the availability of spares for Six (6) years from the date of installation or for 5 years	

		beyond the standard warranty period.	
9	Brochures/ Technical details	Brochures/ Technical details/ supporting information for compliance to all the item specifications listed in the enquiry has to be submitted along with the offer.	
		The equipment enquired forms a part of a Government of India funded Project (Scheme) and the delivery period mentioned below has been derived keeping in view of the Scheme completion date. Vendor shall comply with this required period. Bidder should quote time period separately for 'Supply' and 'E&C' of equipment (A) Supply period: For Supply portion, duration shall be counted from the date of Purchase Order. Vendors are required to indicate the best delivery period, i.e., Order acceptance, submission of drawings, etc., should not be linked to the delivery period. Supply period indicated by bidder should include reasonable time required for approval of drawings and other inputs from BHEL. In the Techno-Commercial Bid, the bidder shall submit milestones for various activities in correlation with Supply and E&C period quoted by bidder.	

10 Delivery Period

Time period required for dispatch, OBL (Ocean Bill of Lading) date for outside India Suppliers/ LWB (Lorry Way Bill) date for FOR - BHEL R&D Stores for Indian Suppliers from the date of Purchase Order in the "Vendor's confirmation" below.

DELIVERY PERIOD (in Weeks) REQUIRED BY BHEL (SUPPLY PORTION) (PO date to OBL/LWB date):: 28 weeks

An additional period of 4 weeks from OBL date to IGM date at Mumbai/Nhavaseva/Chennai Seaport, India,

An additional period of 6 weeks from OBL date to IGM (Inward Goods Manifest) date at ICD Sanathnagar, Hyderabad, India, shall be given towards sailing period for outside India Suppliers.

An additional 2 weeks (LWB date to BHEL R&D Stores) shall be given to Indian Suppliers
DELIVERY PERIOD (in Weeks) OFFERED BY VENDOR (SUPPLY PORTION) (PO date to OBL/LWB date)::_____

(B) E&C period: Duration shall be counted from the E&C start date.

E & C PERIOD (in Weeks) REQUIRED BY BHEL: 2 weeks
E & C PERIOD (in Weeks) OFFERED BY VENDOR (E & C PORTION):_____

		However, while evaluating the offers, those offers which are not conforming the requested delivery and E & C period by BHEL, COMMERCIAL LOADING @ 0.5 % of the purchase order value per week will be done for the EXTRA PERIOD requested. Commercial loading on the offered price will be done during evaluation of the offers.	
11	Future up gradation of hardware possibilities	All future upgrade possibilities to the present Servo hydraulic high cycle fatigue testing machines being quoted have to be indicated in detail (if any).	
12	Test Certificates required	a) Manufacturer's test certificate shall be provided along with the items b) Calibration certificates should be provided with thermocouples, extensometers and COD gauges	

* 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

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
A.1	SUPPLY OF EQUIPMENT	PAYMENT TERMS	100% PAYMENT, WITH IN 30 DAYS FROM THE DATE OF RECEIPT AND ACCEPTANCE OF MATERIAL AT BHEL R& D	SAME	NIL
				PAYMENT AGAINST PROFORMA INVOICE / DESPATCH DOCUMENTS	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON THE TOTAL PO VALUE FOR ONE MONTH
				FULL ADVANCE PAYMENT WITH BANK GUARANTEE	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON THE TOTAL PO VALUE FOR THE DELIVERY PERIOD (Rounded off to nearest month) + 1 MONTH
				PART ADVANCE (X%) PAYMENT WITH BANK GUARANTEE AND BALANCE PAYMENT WITH IN 30 DAYS FROM THE DATE OF RECEIPT AND ACCEPTANCE OF THE MATERIAL	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON PART ADVANCE AMOUNT (X%) FOR THE DELIVERY PERIOD (Rounded off to nearest month) + 1 MONTH
				PART ADVANCE (X%) PAYMENT WITH BANK GUARANTEE AND BALANCE PAYMENT ON RECEIPT AND ACCEPTANCE OF MATERIAL	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON PART ADVANCE AMOUNT (X%) FOR THE DELIVERY PERIOD (Rounded off to nearest month) + 1 MONTH AND LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON BALANCE AMOUNT FOR ONE MONTH
A.2	SUPPLY OF EQUIPMENT INCLUDING ERECTION AND COMMISSIONING (E&C)	PAYMENT TERMS	90% PAYMENT, WITH IN 30 DAYS FROM THE DATE OF RECEIPT AND ACCEPTANCE OF MATERIAL AND BALANCE 10% WITH IN 30 DAYS OF COMPLETION OF E&C.	SAME	NIL
				100% PAYMENT WITH IN 30 DAYS AFTER COMPLETION OF SUPPLIES AND E&C	NIL
				90% PAYMENT AGAINST PROFORMA INVOICE/ DESPATCH DOCUMENT AND BALANCE 10% WITH IN 30 DAYS AFTER COMPLETION OF E&C.	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON 90% OF THE VALUE OF PO FOR ONE MONTH
				90% PAYMENT AGAINST PROFORMA / DESPATCH DOCUMENT AND BALANCE 10% AFTER COMPLETION OF E&C	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON TOTAL VALUE OF THE PO FOR ONE MONTH
				90% ADVANCE PAYMENT WITH BANK GUARANTEE AND BALANCE 10% PAYMENT WITH IN 30 DAYS AFTER COMPLETION OF E&C	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON 90% OF THE PO VALUE FOR DELIVERY PERIOD (ROUNDED OFF TO THE NEAREST MONTH) + 1 MONTH
				PART ADVANCE (X%) PAYMENT WITH BANK GUARANTEE AND (90 -X) % PAYMENT ON RECEIPT AND ACCEPTANCE OF THE MATERIAL AND 10% PAYMENT WITH IN 30 DAYS AFTER COMPLETION OF E&C	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON THE PART ADVANCE AMOUNT (X%) FOR THE DELIVERY PERIOD (ROUNDED OFF TO THE NEAREST MONTH)+ 1 MONTH AND LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON BALANCE (90-X)% AMOUNT FOR ONE MONTH
				PART ADVANCE (X%) PAYMENT WITH BANK GUARANTEE AND BALANCE (90 - X) % PAYMENT AFTER RECEIPT AND ACCEPTANCE OF THE MATERIAL AND 10% PAYMENT AFTER COMPLETION OF E&C	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON THE PART ADVANCE AMOUNT (X%) FOR THE DELIVERY PERIOD (ROUNDED OFF TO THE NEAREST MONTH)+ 1 MONTH AND LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON BALANCE AMOUNT (100-X)% FOR ONE MONTH

B. FOR FOREIGN PURCHASES (IMPORTED)					
SLNO	SCOPE	COMMERCIAL TERMS	BHEL STANDARD TERM	AS OFFERED	LOADING FACTOR FOR NON COMPLIANCE TO BHEL STANDARD TERMS
B.1	SUPPLY OF EQUIPMENT	PAYMENT TERMS	100% PAYMENT BY WIRE TRANSFER WITHIN 30 DAYS FROM THE DATE OF RECEIPT AND ACCEPTANCE OF MATERIAL AT BHEL R&D. (DESPATCH DOCUMENTS WILL BE SENT TO BHEL R&D DIRECTLY ALONG WITH BANK DETAILS)	SAME	NIL
				SIGHT DRAFT ON PRESENTATION OF DESPATCH DOCUMENTS VIZ INVOICE, AWB ETC TO OUR BANKERS	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+6%) ON THE BASIC VALUE FOR ONE MONTH PLUS PAYMENT RELATED BANK CHARGES INCURRED BY BHEL
				LC PAYMENT AGAINST DESPATCH DOCUMENTS	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON THE BASIC VALUE FOR ONE MONTH PLUS LC RELATED BANK CHARGES INCURRED BY BHEL
				FULL ADVANCE PAYMENT BY WIRE TRANSFER /LC WITH BANK GUARANTEE	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON THE BASIC VALUE FOR DELIVERY PERIOD (Rounded off to nearest month) + 1 MONTH PLUS LC RELATED BANK CHARGES INCURRED BY BHEL
				PART ADVANCE (X%) PAYMENT BY WIRE TRNSFER/LC WITH BANK GUARANTEE AND BALANCE PAYMENT WITH IN 30 DAYS FROM THE DATE OF RECEIPT AND ACCEPTANCE OF THE MATERIAL	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON THE PART ADVANCE AMOUNT (X%) FOR THE DELIVERY PERIOD (Rounded off to nearest month) + 1 MONTH PLUS LC RELATED BANK CHARGES INCURRED BY BHEL
				PART ADVANCE (X%) PAYMENT BY WIRE TRNSFER/LC WITH BANK GUARANTEE AND BALANCE PAYMENT ON RECEIPT AND ACCEPTANCE OF MATERIAL	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON THE PART ADVANCE AMOUNT (X%) FOR THE DELIVERY PERIOD (Rounded off to nearest month) + 1 MONTH AND LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON BALANCE AMOUNT FOR ONE MONTH PLUS LC RELATED BANK CHARGES INCURRED BY BHEL
B. FOR FOREIGN PURCHASES (IMPORTED)					
SLNO	SCOPE	COMMERCIAL TERMS	BHEL STANDARD TERM	AS OFFERED	LOADING FACTOR FOR NON COMPLIANCE TO BHEL STANDARD TERMS
B.2	SUPPLY OF EQUIPMENT INCLUDING ERECTION AND COMMISSIONING (E&C)	PAYMENT TERMS	90% PAYMENT BY WIRE TRANSFER WITH IN 30 DAYS FROM THE DATE OF RECEIPT AND ACCEPTANCE OF THE MATERIAL AND BALANCE 10% WITH IN 30 DAYS AFTER COMPLETION OF E&C	SAME	NIL
				SIGHT DRAFT ON RESENTATION OF DESPATCH DOCUMENTS VIZ INVOICE, AWB ETC TO OUR BANKERS	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+6%) FOR ONE MONTH PLUS PAYMENT RELATED BANK CHARGES INCURRED BY BHEL
				90 PAYMENT BY WIRE TRANSFER /LC AGAINST DESPATCH DOCUMENTS BALANCE 10% WITH IN 30 DAYS AFTER COMPLETION OF E&C	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+6%) ON 90% OF BASIC VALUE FOR ONE MONTH PLUS LC RELATED BANK CHARGES INCURRED BY BHEL
				90% PAYMENT BY WIRE TRANSFER / LC AGAINST DESPATCH DOCUMENTS, BALANCE 10% AFTER COMPLETION OF E&C	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+6%) ON THE BASIC VALUE FOR ONE MONTH PLUS LC RELATED BANK CHARGES INCURRED BY BHEL
				90% OF BASIC VALUE AS ADVANCE PAYMENT BY WIRE TRANSFER /LC WITH BANK GUARTEE AND BALANCE 10% WITH IN 30 DAYS AFTER COMPLETION OF E&C	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+6%) ON 90% OF THE BASIC VALUE FOR DELIVERY PERIOD (Rounded off to nearest month) + ONE MONTH PLUS LC RELATED BANK CHARGES INCURRED BY BHEL
				PART ADVANCE (X%) PAYMENT BY WIRE TRANSFER /LC WITH BANK GUARANTEE AND BALANCE (90-X)% PAYMENT BY WIRE TRANSFER /LC AFTER RECEIPT AND ACCEPTANCE OF THE MATERIAL AND 10% PAYMENT WITH IN 30 DAYS AFTER COMPLETION OF E&C	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON THE PART ADVANCE AMOUNT (X%) FOR THE DELIVERY PERIOD(Rounded off to the nearest month) + ONE MONTH AND LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON BALANCE (90-X)% FOR ONE MONTH
				PART ADVANCE (X%) PAYMENT BY WIRE TRANSFER /LC WITH BANK GUARANTEE AND BALANCE (90-X)% PAYMENT BY WIRE TRANSFER /LC AFTER RECEIPT AND ACCEPTANCE OF THE MATERIAL AND 10% PAYMENT AFTER COMPLETION OF E&C	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON THE PART ADVANCE AMOUNT (X%) FOR THE DELIVERY PERIOD(Rounded off to the nearest month) + ONE MONTH AND LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON BALANCE AMOUNT (100-X)% FOR ONE MONTH
				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		STIPULATED OR REQUIRED GUARANTEE/ WARRANTY PERIOD(X)	AGREED	NIL
			MINIMUM ACCEPTABLE GUARANTEE / WARRANTY PERIOD(Y)	NOT AGREED FOR STIPULATED BUT AGREED FOR MINIMUM GUARANTEE/WARRANTY(Y)	LOADING @ 10 % OF THE ORDER VALUE PER ANNUM FOR THE REDUCED GUARANTEE PERIOD (X-Y)

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 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 :



RD:MPX:F-13

Bharat Heavy Electricals Limited

Corp. R&D DIVISION

VIKAS NAGAR,

HYDERABAD- 500 093 (INDIA)

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 and tick the following:

Type of Major Activity: Manufacturing / Service

Category of Enterprise: Micro / Small / Medium

Social Category : GENERAL / SC / ST / OBC

Udyog Adhaar Number (UAN):_____

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		

9.0 REFERENCE LIST :

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

#	Customer	Volume / Year
1		
2		
3		
4		
5		

10.0 INFRASTRUCTURE / FACILITIES:

#	Facility (with specifications)	Age/ Year procured
1		
2		
3		
4		
5		

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 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



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 relevent authorisation letter and agreement copy to be enclosed along with Technical bid to consider the offer.

ANNEXURE 1: I

A. Capacity Details of Machines (100kN Servohydraulic HCF Testing Machines-2 Nos with Spares and Accessories)

Manufacturing Capacity (Major Machines with Quantity)	Type of Major Machines	Quantity
Machines Supplied during last 5 Years (Year wise with quantity)	Scheduled Supply Period	Actual Supply Period
Outstanding Order Book Position(Type of Machines and Name of Customers)		
Liquidation plan of all machines including BHEL machines under consideration of ordering		

SIGNATURE OF THE BIDDER WITH SEAL

ANNEXURE-2: I

Details of the orders executed for last five years from the date of enquiry for 100kN Servohydraulic HCF Testing Machines

S.No.	Details of the equipment/ system: Model number, capacity and other major details	Details of the customer: Name of the organization, Contact person: Name, E-mail, Phone Number, Fax	P.O. No & Date	Delivery Date	E & C Date		Present condition of the system/ equipment; (In continuous operation since dd/mm/yyyy must be mentioned)	Whether AMC was taken (Yes/ No)
					Start Date	End Date		
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

NOTE:BHEL will carry out independent verification of performance certification. Hence, prospective bidders are required to give only reference of those customers who are willing to confirm independent verification and not refrain from the same on the grounds of confidentiality

SIGNATURE OF THE BIDDER WITH SEAL

ANNEXURE-3: IA

**UN-PRICED BID FORMAT FOR 100KN SERVOHYDRAULIC HCF
TESTING MACHINES– INDIAN SUPPLIER**

Enquiry Description	Enquiry No	Enquiry Date	Vendor's Name and Address	

S. No.	Item Description	Units	Qty	Unit Rate	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL	2	3	4	5	6	7
			(A)	(B)	C=A*B	
1.0	Deliverable Items**					
1.1	100kN Servohydraulic HCF testing machines as per item specifications with the following items:					
1.1.1	Loading frame (100kN) with Servo hydraulic hydrostatic actuator, 100kN Load cell and Alignment Fixture	Set	2	Quoted	Quoted	
1.1.2	Hydraulic Power Pack	Set	2	Quoted	Quoted	
1.1.3	Chiller/Recooler	No	2	Quoted	Quoted	
1.1.4	Controller and softwares	Set	2	Quoted	Quoted	
1.1.5	Remote Control Handset with Display	No	2	Quoted	Quoted	
1.1.6	Alignment verification specimen and a laptop pre-installed with alignment verification software	Set	1	Quoted	Quoted	
1.1.7	Work Station and Printer with UPS and computer table	Set	2	Quoted	Quoted	
1.2	Accessories					
1.2.1	Water cooled 100kN HCF and LCF high temperature mechanical grip with M10 threaded end sample holder	Set	2	Quoted	Quoted	
1.2.1.1	Additional sample holders for M10 Threaded ends	Set	2	Quoted	Quoted	
1.2.2	100kN Hydraulic non shift wedge grips with following set of inserts	Set	2	Quoted	Quoted	
1.2.2.1	Inserts for flat specimen, with 0-10mm thickness (One set includes upper and lower inserts)	Set	2	Quoted	Quoted	

SIGNATURE OF THE BIDDER WITH SEAL

S. No.	Item Description	Units	Qty	Unit Rate	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL	2	3	4	5	6	7
			(A)	(B)	C=A*B	
	Deliverable Items**					
1.2.2.2	Inserts for flat specimen, with 10-20mm thickness (One set includes upper and lower inserts)	Set	2	Quoted	Quoted	
1.2.2.3	Inserts for round specimen with 5mm – 13 mm diameter (One set includes upper and lower inserts)	Set	2	Quoted	Quoted	
1.2.2.4	Inserts for round specimen with 14mm – 20 mm diameter (One set includes upper and lower inserts)	Set	2	Quoted	Quoted	
1.2.3	Three zone furnace (200-1200 Deg C)	No	2	Quoted	Quoted	
1.2.4	Hinged mounting bracket for furnace	No	2	Quoted	Quoted	
1.2.5	Additional thermocouple with additional display for specimen temperature	Set	2	Quoted	Quoted	
1.2.6	High Temperature CT Grips			Quoted	Quoted	
1.2.6.1	For specimens of width 12.5mm and length 50mm	Set	2	Quoted	Quoted	
1.2.6.2	For specimen of width 25mm and length 50mm	Set	2	Quoted	Quoted	
1.2.7	High Temperature COD Gauges of gauge length=5mm, travel +2.5mm with furnace attachment and ceramic rods	No	2	Quoted	Quoted	
1.2.7.1	Load frame mounting brackets for COD Extensometer	No	2	Quoted	Quoted	
1.2.8	Room temperature COD Gauge with gauge length 5mm with extension 2.5mm/-1mm	No	2	Quoted	Quoted	
1.2.9	RT Extensometer for HCF and LCF with following gauge lengths			Quoted	Quoted	
1.2.9.1	Gauge length 12.5 mm travel up to ±2mm	No	2	Quoted	Quoted	
1.2.9.2	Gauge length 25 mm travel up to ±5mm	No	2	Quoted	Quoted	
1.2.9.3	Gauge length 50 mm travel up to ±10mm	No	2	Quoted	Quoted	
1.2.10	HT Axial extensometer with gauge length 25mm and travel ±2.5mm (Furnace attachment and ceramic rods)	Set	2	Quoted	Quoted	

SIGNATURE OF THE BIDDER WITH SEAL

S. No.	Item Description	Units	Qty	Unit Rate, INR (Rs.)	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL	2	3	4	5	6	7
			(A)	(B)	C=A*B	
	Deliverable Items**					
1.2.11	100kN Dynamic Compression platens	Set	1	Quoted	Quoted	
1.2.12	100kN Dynamic 3-point bend fixture	Set	1	Quoted	Quoted	
1.2.13	Fork lift for Fixing/Removing grips	No	1	Quoted	Quoted	
1.2.14	Basic tools and spare parts (Grease, Fuses, Lamps etc.) for maintaining the machine for 5 years	Set	2	Quoted	Quoted	
1.3.1	Recommended spares for trouble free operation of the HCF machines for 3 Years can be suggested and quoted	Set	2	Quoted	Quoted	
1.4.0	Other (Misc.) charges					
1.4.1	Packing and Forwarding charges	Lot	1	Quoted	Quoted	
1.4.2	Subtotal					
1.4.3	Excise Duty (ED)	%	1	Quoted	Quoted	
1.4.4	Sub Total				Quoted	
1.4.5	Taxes/duties, CST/ VAT, Form 'C' will not be issued.	%		Quoted	Quoted	
1.4.6	Subtotal (EXW Price)				Quoted	
1.4.7	Charges for Loading at supplier's works, incl taxes, if any	Lot	1	Quoted	Quoted	
1.4.8a	F.O.R Charges (Freight & Insurance, entry tax, octroi, etc). to BHEL R&D Stores, incl. taxes	Lot	1	Quoted	Quoted	
1.4.8b	For ex-works shipment, Freight and Insurance charges shall be added based on Weight/ dimensions	Lot	1	BHEL	BHEL	
1.4.9	Unloading charges at BHEL R&D Stores	Lot	1	BHEL	BHEL	
1.5.0	Total Price (Delivery to BHEL Stores)(1.4.6+1.4.7+1.4.8 a or b + 1.4.9)					
2.0	Training at OEM works (Refer annexure V)	Lot	1	Quoted	Quoted	
2.1	Service Tax	%		Quoted	Quoted	
2.2	Sub Total					
3.0	Erection and Commissioning at site/ BHEL					
3.1	Erection and Commissioning	Lot	1	Quoted	Quoted	
3.2	Demonstration at site of installation	Lot	1	Quoted	Quoted	
3.3	Post-installation training	Lot	1	Quoted	Quoted	
3.4	Sub Total	%		Quoted	Quoted	

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S. No.	Item Description	Units	Qty	Unit Rate, INR (Rs.)	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL	2	3	4	5	6	7
			(A)	(B)	C=A*B	
3.5	Service Tax	%		Quoted	Quoted	
3.6	Sub Total					

** Items may be quoted in same format only as per actual nomenclature and part numbers with quantity and unit price at appropriate location. All columns to be filled. If any item does not carry any value it must be mentioned as zero (0).

#Actual taxes/ rates as applicable at the time of placement of Purchase Order

Note:

1. BHEL R&D do not issue 'C' form. Suppliers are requested to submit their bids clearly stating applicable taxes/duties and fill the applicable Excise duty, CST/VAT and Service tax as % and actuals for the items.
2. In case any Taxes/ Duties exempted, a self-declaration for the same may be attached to the offer along with support document.
3. Please note that we are availing Input Tax Credit on Service Tax to the tune of 14.5% against the current prevailing Service tax rate of 15%, i.e., we will be considering 0.5% of Service tax rate while arriving at the calculation of landed cost to BHEL. Service Tax shall be released on submission of proof of remittance. Income tax will be deducted as per Income tax act 1961, Please furnish PAN No and Service tax registration no.
4. Central Excise Duty Exempted as per Government Notification No. 16/2007-Central Excise dated 01-Mar-2007; valid for shipments up to 31.03.2017 and is under renewal.
5. The current procurement is under Government of India funded project. Concessional taxes/duties, if any, available to BHEL as on date of price bid opening shall be taken into account for evaluating landed cost.
6. Hence All offers shall be evaluated at concessional rates of duties in case the registration certificate is renewed or Government of India funded project concessions available, if any, on or before opening of price bid date or otherwise it shall be evaluated with quoted/prevaling rates as on date of price bid opening for landed cost comparison. However, all suppliers have to accept Concessional taxes/duties in case if the same is available to BHEL as on date of dispatch.
7. Suppliers are requested to quote on FOR BHEL (R&D) Stores, Hyderabad. In case of EXW, Please specify the Works address.
8. This Un-Price bid format should be submitted along with Techno-Commercial Bid.
9. Unit rate of spares shall have validity of 5 years post stipulated warranty period.
10. Basic equipment value is defined as price of equipment with accessories and auxiliaries (if any), excluding spares
11. Rates to be quoted in figures with corresponding words.
12. Vendor's undertaking: I/We have read and understood the NIT terms and conditions.

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ANNEXURE- 4: IA

UN-PRICED BID FORMAT - TRAINING CHARGES AT OEM WORKS

Training charges* (per day basis)	For One BHEL Engineer (To be quoted as % of basic equipment value)	For Two BHEL Engineers (To be quoted as % of basic equipment value)
1st day	Quoted	Quoted
2nd day	Quoted	Quoted
3rd day	Quoted	Quoted
4th day	Quoted	Quoted
5th day	Quoted	Quoted
Sub Total		

*** Rows may be added/ deleted as required, according to training schedule**

NOTE:

- Basic equipment value is defined as price of equipment with accessories and auxiliaries (if any), excluding spares
- Travel and hospitality for BHEL engineers will be to BHEL's account.
- Detailed training at OEM works / factory has to be provided by factory engineer to BHEL officials 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 training schedule must be submitted along with the bid.
- All Offers shall be evaluated for the training charges quoted for the total no. of days. However, payment shall be released on actual no. of days of training undergone by BHEL Engineer(s) at supplier's works.
- The above training charges at actuals, shall be released after completion of E&C along with 20% supply value stage payment.
- Please note that we are availing Input Tax Credit on Service Tax to the tune of 14.5% against the current prevailing Service tax rate of 15%, i.e., we will be considering 0.5% of Service tax rate while arriving at the calculation of landed cost to BHEL. Service Tax shall be released on submission of proof of remittance. Income tax will be deducted as per Income tax act 1961, Please furnish PAN No and Service tax registration no.
- Rates to be quoted in figures with corresponding words.
- Vendor's undertaking: I/We have read and understood the NIT terms and conditions.

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ANNEXURE-5: IA

UN-PRICED BID FORMAT
ANNUAL MAINTENANCE CHARGES (AMC)- Non-Comprehensive Type only
(SPARES excluded)

AMC charges after stipulated Warranty for	To be quoted as % of Basic Equipment Value
1st Year	Quoted
2nd Year	Quoted
3rd Year	Quoted
4th Year	Quoted
5th Year	Quoted

NOTE:

- a) Basic equipment value is defined as price of equipment with accessories and auxiliaries (if any), excluding spares.
- b) During AMC service, 2 routine visits per a year, each visit shall include general service and maintenance, calibration (if any), etc. and breakdown visits (as and when required) have to be made for ensuring continuous operation of the system/ machine
- c) The service personnel should report within 3 days for attending the problem during emergency visit as a part of AMC.
- d) All software upgrades have to be provided free of cost during AMC period.
- e) The AMC charges will be paid on half-yearly basis after completion each half year of the AMC service period and with submission of service report along with the original invoice as per the terms and conditions of Letter Order during AMC period. These charges will be paid within 30 days from date of submission of service report and original invoice.
- f) AMC Order(s) may be placed after expiry of standard warranty quoted at the unit rate(s) quoted. The AMC charges Quoted shall be firm and valid for the period quoted.
- g) If during the AMC period there is any breakdown of the equipment for a duration beyond 7 days from the date of reporting, AMC period will be extended by that duration. This should be complied by the vendor
- h) AMC Charges quoted for the total number of years shall be considered for landed cost comparison.
- i) Please note that we are availing Input Tax Credit on Service Tax to the tune of 14.5% against the current prevailing Service tax rate of 15%, i.e., we will be considering 0.5% of Service tax rate while arriving at the calculation of landed cost to BHEL. Service Tax shall be released on submission of proof of remittance. Income tax will be deducted as per Income tax act 1961, Please furnish PAN No and Service tax registration no.
- j) Rates to be quoted in figures with corresponding words.
- k) Vendor's undertaking: I/We have read and understood the NIT terms and conditions.

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ANNEXURE-3: IB**PRICE BID FORMAT FOR 100KN SERVOHYDRAULIC HCF TESTING MACHINES – INDIAN SUPPLIER**

Enquiry Description	Enquiry No	Enquiry Date	Vendor's Name and Address	

S. No.	Item Description	Units	Qty	Unit Rate	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL	2	3	4	5	6	7
			(A)	(B)	C=A*B	
1.0	Deliverable Items**					
1.1	100kN Servohydraulic HCF testing machines as per item specifications with the following items:					
1.1.1	Loading frame (100kN) with Servo hydraulic hydrostatic actuator, 100kN Load cell and Alignment Fixture	Set	2			
1.1.2	Hydraulic Power Pack	Set	2			
1.1.3	Chiller/Recooler	No	2			
1.1.4	Controller and softwares	Set	2			
1.1.5	Remote Control Handset with Display	No	2			
1.1.6	Alignment verification specimen and a laptop pre-installed with alignment verification software	Set	1			
1.1.7	Work Station and Printer with UPS and computer table	Set	2			
1.2	Accessories					
1.2.1	Water cooled 100kN HCF and LCF high temperature mechanical grip with M10 threaded end sample holder	Set	2			
1.2.1.1	Additional sample holders for M10 Threaded ends	Set	2			
1.2.2	100kN Hydraulic non shift wedge grips with following set of inserts	Set	2			
1.2.2.1	Inserts for flat specimen, with 0-10mm thickness (One set includes upper and lower inserts)	Set	2			

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S. No.	Item Description	Units	Qty	Unit Rate	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL	2	3	4	5	6	7
			(A)	(B)	C=A*B	
	Deliverable Items**					
1.2.2.2	Inserts for flat specimen, with 10-20mm thickness (One set includes upper and lower inserts)	Set	2			
1.2.2.3	Inserts for round specimen with 5mm – 13 mm diameter (One set includes upper and lower inserts)	Set	2			
1.2.2.4	Inserts for round specimen with 14mm – 20 mm diameter (One set includes upper and lower inserts)	Set	2			
1.2.3	Three zone furnace (200-1200 Deg C)	No	2			
1.2.4	Hinged mounting bracket for furnace	No	2			
1.2.5	Additional thermocouple with additional display for specimen temperature	Set	2			
1.2.6	High Temperature CT Grips					
1.2.6.1	For specimens of width 12.5mm and length 50mm	Set	2			
1.2.6.2	For specimen of width 25mm and length 50mm	Set	2			
1.2.7	High Temperature COD Gauges of gauge length=5mm, travel +2.5mm with furnace attachment and ceramic rods	No	2			
1.2.7.1	Load frame mounting brackets for COD Extensometer	No	2			
1.2.8	Room temperature COD Gauge with gauge length 5mm with extension 2.5mm/-1mm	No	2			
1.2.9	RT Extensometer for HCF and LCF with following gauge lengths					
1.2.9.1	Gauge length 12.5 mm travel up to ±2mm	No	2			
1.2.9.2	Gauge length 25 mm travel up to ±5mm	No	2			
1.2.9.3	Gauge length 50 mm travel up to ±10mm	No	2			
1.2.10	HT Axial extensometer with gauge length 25mm and travel ±2.5mm (Furnace attachment and ceramic rods)	Set	2			

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S. No.	Item Description	Units	Qty	Unit Rate, INR (Rs.)	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL	2	3	4	5	6	7
			(A)	(B)	C=A*B	
	Deliverable Items**					
1.2.11	100kN Dynamic Compression platens	Set	1			
1.2.12	100kN Dynamic 3-point bend fixture	Set	1			
1.2.13	Fork lift for Fixing/Removing grips	No	1			
1.2.14	Basic tools and spare parts (Grease, Fuses, Lamps etc.) for maintaining the machine for 5 years	Set	2			
1.3.1	Recommended spares for trouble free operation of the HCF machines for 3 Years can be suggested and quoted	Set	2			
1.4.0	Other (Misc.) charges					
1.4.1	Packing and Forwarding charges	Lot	1			
1.4.2	Subtotal					
1.4.3	Excise Duty (ED)	%	1			
1.4.4	Sub Total					
1.4.5	Taxes/duties, CST/ VAT, Form 'C' will not be issued.	%				
1.4.6	Subtotal (EXW Price)					
1.4.7	Charges for Loading at supplier's works, incl taxes, if any	Lot	1			
1.4.8a	F.O.R Charges (Freight & Insurance, entry tax, octroi, etc). to BHEL R&D Stores, incl. taxes	Lot	1			
1.4.8b	For ex-works shipment, Freight and Insurance charges shall be added based on Weight/ dimensions	Lot	1	BHEL	BHEL	
1.4.9	Unloading charges at BHEL R&D Stores	Lot	1	BHEL	BHEL	
1.5.0	Total Price (Delivery to BHEL Stores)(1.4.6+1.4.7+1.4.8 a or b + 1.4.9)					
2.0	Training at OEM works (Refer annexure V)	Lot	1			
2.1	Service Tax	%				
2.2	Sub Total					
3.0	Erection and Commissioning at site/ BHEL					
3.1	Erection and Commissioning	Lot	1			
3.2	Demonstration at site of installation	Lot	1			
3.3	Post-installation training	Lot	1			
3.4	Sub Total	%				

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S. No.	Item Description	Units	Qty	Unit Rate, INR (Rs.)	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL	2	3	4	5	6	7
			(A)	(B)	C=A*B	
3.5	Service Tax	%				
3.6	Sub Total					

1. Rates to be quoted in figures with corresponding words.
2. Vendor's undertaking: I/We have read and understood the NIT terms and conditions.

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ANNEXURE- 4: IB

PRICE BID FORMAT - TRAINING CHARGES AT OEM WORKS

Training charges* (per day basis)	For One BHEL Engineer (To be quoted as % of basic equipment value)	For Two BHEL Engineers (To be quoted as % of basic equipment value)
1st day		
2nd day		
3rd day		
4th day		
5th day		
Sub Total		

*** Rows may be added/ deleted as required, according to training schedule**

- Rates to be quoted in figures with corresponding words.
- Vendor's undertaking: I/We have read and understood the NIT terms and conditions.

ANNEXURE-5: IB

PRICE BID FORMAT

**ANNUAL MAINTENANCE CHARGES (AMC)- Non-Comprehensive Type only
(SPARES excluded)**

AMC charges after stipulated Warranty for	To be quoted as % of Basic Equipment Value
1st Year	
2nd Year	
3rd Year	
4th Year	
5th Year	

NOTE:

- Rates to be quoted in figures with corresponding words.
- Vendor's undertaking: I/We have read and understood the NIT terms and conditions.

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ANNEXURE 1: F

A. Capacity Details of Machines (100kN Servohydraulic HCF Testing Machines-2 Nos with Spares and Accessories)

Manufacturing Capacity (Major Machines with Quantity)	Type of Major Machines	Quantity
Machines Supplied during last 5 Years (Year wise with quantity)	Scheduled Supply Period	Actual Supply Period
Outstanding Order Book Position(Type of Machines and Name of Customers)		
Liquidation plan of all machines including BHEL machines under consideration of ordering		

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ANNEXURE-2: F

Details of the orders executed for last five years from the date of enquiry for 100kN Servohydraulic HCF Testing Machines

S.No.	Details of the equipment/ system: Model number, capacity and other major details	Details of the customer: Name of the organization, Contact person: Name, E-mail, Phone Number, Fax	P.O. No & Date	Delivery Date	E &C Date		Present condition of the system/ equipment; (In continuous operation since dd/mm/yyyy must be mentioned)	Whether AMC was taken (Yes/ No)
					Start Date	End Date		
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

NOTE:BHEL will carry out independent verification of performance certification. Hence, prospective bidders are required to give only reference of those customers who are willing to confirm independent verification and not refrain from the same on the grounds of confidentiality

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ANNEXURE-3: FA

**UN-PRICED BID FORMAT FOR 100kN SERVOHYDRAULIC HCF TEST
MACHINES – FOREIGN SUPPLIER**

Enquiry Description	Enquiry No	Enquiry Date	Vendor's Name and Address	

1.0 Supplies

S. No.	Item Description	Units	Qty	Unit Rate with Currency	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
			(A)	(B)	C=A*B	
1.0	Deliverable Items**					
1.1	100kN Servohydraulic HCF testing machines as per item specifications with the following items:					
1.1.1	Loading frame (100kN) with Servo hydraulic hydrostatic actuator, 100kN Load cell and Alignment Fixture	Set	2	Quoted	Quoted	
1.1.2	Hydraulic Power Pack	Set	2	Quoted	Quoted	
1.1.3	Chiller/Recooler	No	2	Quoted	Quoted	
1.1.4	Controller and softwares	Set	2	Quoted	Quoted	
1.1.5	Remote Control Handset with Display	No	2	Quoted	Quoted	
1.1.6	Alignment verification specimen and a laptop pre-installed with alignment verification software	Set	1	Quoted	Quoted	
1.1.7	Work Station and Printer with UPS and computer table	Set	2	Quoted	Quoted	
1.2	Accessories					
1.2.1	Water cooled 100kN HCF and LCF high temperature mechanical grip with M10 threaded end sample holder	Set	2	Quoted	Quoted	
1.2.1.1	Additional sample holders for M10 Threaded ends	Set	2	Quoted	Quoted	
1.2.2	100kN Hydraulic non shift wedge grips with following set of inserts	Set	2	Quoted	Quoted	
1.2.2.1	Inserts for flat specimen, with 0-10mm thickness (One set includes upper and lower inserts)	Set	2	Quoted	Quoted	
1.2.2.2	Inserts for flat specimen, with 10-20mm thickness (One set includes upper and lower inserts)	Set	2	Quoted	Quoted	
1.2.2.3	Inserts for round specimen with 5mm – 13 mm diameter (One set includes upper and lower inserts)	Set	2	Quoted	Quoted	
1.2.2.4	Inserts for round specimen with 14mm – 20 mm diameter (One set includes upper and lower inserts)	Set	2	Quoted	Quoted	
1.2.3	Three zone furnace (200-1200 Deg C)	No	2	Quoted	Quoted	

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Enq711700161 -100kN Servohydraulic HCF Testing machines- Bid Formats-Out-side India Supplier – Foreign Currency

1.2.4	Hinged mounting bracket for furnace	No	2	Quoted	Quoted	
S. No.	Item Description	Units	Qty	Unit Rate with Currency	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
			(A)	(B)	C=A*B	
1.2.5	Additional thermocouple with additional display for specimen temperature	Set	2	Quoted	Quoted	
1.2.6	High Temperature CT Grips					
1.2.6.1	For specimens of width 12.5mm and length 50mm	Set	2	Quoted	Quoted	
1.2.6.2	For specimen of width 25mm and length 50mm	Set	2	Quoted	Quoted	
1.2.7	High Temperature COD Gauges of gauge length=5mm, travel +2.5mm with furnace attachment and ceramic rods	No	2			
1.2.7.1	Load frame mounting brackets for COD Extensometer	No	2	Quoted	Quoted	
1.2.8	Room temperature COD Gauge with gauge length 5mm with extension 2.5mm/-1mm	No	2	Quoted	Quoted	
1.2.9	RT Extensometer for HCF and LCF with following gauge lengths					
1.2.9.1	Gauge length 12.5 mm travel up to ±2mm	No	2	Quoted	Quoted	
1.2.9.2	Gauge length 25 mm travel up to ±5mm	No	2	Quoted	Quoted	
1.2.9.3	Gauge length 50 mm travel up to ±10mm	No	2	Quoted	Quoted	
1.2.10	HT Axial extensometer with gauge length 25mm and travel ±2.5mm (Furnace attachment and ceramic rods)	Set	2	Quoted	Quoted	
1.2.11	100kN Dynamic Compression platens	Set	1	Quoted	Quoted	
1.2.12	100kN Dynamic 3-point bend fixture	Set	1	Quoted	Quoted	
1.2.13	Fork lift for Fixing/Removing grips	No	1	Quoted	Quoted	
1.2.14	Basic tools and spare parts (Grease, Fuses, Lamps etc.) for maintaining the machine for 5 years	Set	2			
1.3.1	Recommended spares for trouble free operation of the HCF machines for 3 Years can be suggested and quoted	Set	2	Quoted	Quoted	
1.4.0	Other (Misc. charges)					
1.4.1	Packing and Forwarding charges	Lot	1	Quoted	Quoted	
1.4.2	Sub total (EXW Price)					
1.4.3	Any other Charges like Export Clearance Charges etc.	Lot	1	Quoted	Quoted	
1.4.4a	FOB (Nearest Gateway SeaPort) Charges	Lot	1	Quoted	Quoted	
1.4.4b	CFR Charges (Mumbai/ Nhavasheva/ Chennai seaport/ CPT- ICD Sanathnagar, Hyderabad)	Lot	1	Quoted	Quoted	
1.4.5	Sub Total, CFR-India Seaport				Quoted	
1.5.0	Exchange rate on Technical bid opening date, to be filled by BHEL			BHEL	BHEL	
1.5.1	Sub Total, CFR-India Seaport in Indian Currency (INR), to be filled by BHEL			BHEL	BHEL	
1.5.2	Insurance (INR)			BHEL	BHEL	
1.5.3	Customs duty, (INR)			BHEL	BHEL	
1.5.4	Local Transport, India seaport to BHEL R&D Stores (for CFR-Mumbai/ Nhavasheva/	Lot	1	BHEL	BHEL	

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Chennai seaport shipment, (INR)						
S. No.	Item Description	Units	Qty	Unit Rate with Currency	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
			(A)	(B)	C=A*B	
1.5.5	Loading and Un-Loading Charges at India seaport and BHEL R&D Stores, (INR)	Lot	1	BHEL	BHEL	
1.5.6	Sub Total, imports (Delivery to BHEL R&D Stores), (1.5.1 to 1.5.5), (INR)					

1.6.0. If there is/are any supply Sourced from India that are certified by OEM, they have to be quoted in Indian currency on FOR-BHEL R&D Stores basis only, with order placement address in India

S. No.	Item Description	Units	Qty	Unit Rate, INR (Rs.)	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
			(A)	(B)	C=A*B	
1.6.1	Please specify, item-wise.	Lot	1	Quoted	Quoted	
1.6.2	Taxes/duties, ED	%	1	Quoted	Quoted	
1.6.3	Taxes/duties, CST/ VAT, Form 'C' will not be issued.	%	1	Quoted	Quoted	
1.6.4	Packing and Forwarding charges					
1.6.5	F.O.R Charges (Freight & Insurance, entry tax, octroi, etc). to BHEL R&D Stores, incl. taxes					
1.6.6	Sub total(Delivery to BHEL R&D Stores), indigenous					
1.7.0	Total, (Imports + Indigenous) = 1.5.6 + 1.6.6					

2.0 SERVICES

S. No.	Item Description	Units	Qty	Unit Rate with Currency	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
2.0	Applicable Service outside India to be quoted in foreign Currency.					
2.1	Training at OEM works (Refer annexure V)	Lot	1	Quoted	Quoted	
2.2	Service Tax to BHEL account			BHEL	BHEL	
2.3	Landed cost (2.1 + 2.2)					

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3.0. TRAINING / E&C, DEMONSTRATION ETC

3.a	Applicable Services in India (TRAINING / E&C, DEMONSTRATION ETC) provided by Foreign Vendor, to be quoted in foreign Currency.					
S. No.	Item Description	Units	Qty	with Currency	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
3.1	Erection and Commissioning	Lot	1	Quoted	Quoted	
3.2	Demonstration at site of installation	Lot	1	Quoted	Quoted	
3.3	Post-installation training	Lot	1	Quoted	Quoted	
3.5	Service Tax to BHEL account			BHEL	BHEL	

Note:-Withholding tax will be deducted as per Income tax act 1961, India and DTAA agreement. In case of non-acceptance of deduction of withholding tax, the offer will be rejected.

Alternately

3.b	Applicable Services in India (TRAINING / E&C, DEMONSTRATION ETC) provided by Foreign Vendor's India Office Engineer/ Indian Agent / Distributor in India, to be quoted in Indian Currency					
S. No.	Item Description	Units	Qty	Unit Rate, INR (Rs.)	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
3.1	Erection and Commissioning	Lot	1	Quoted	Quoted	
3.2	Demonstration at site of installation	Lot	1	Quoted	Quoted	
3.3	Post-installation training	Lot	1	Quoted	Quoted	
3.4	Service Tax	%		Quoted	Quoted	

Note: Income tax will be deducted as per Income tax act 1961, Please furnish PAN No and Service tax no. Service tax shall be released on submission of proof of remittance.

4. Indian agency commission is included in the price quoted: _____% (please specify the line item / items). Please attach Agency agreement copy.

** Items may be quoted in same format only as per actual nomenclature and part numbers with quantity and unit price at appropriate location. All columns to be filled. If any item does not carry any value it must be mentioned as zero (0).

Actual taxes/ rates as applicable at the time of placement of Purchase Order

Note:

1. If authorized Indian agent/ service provider is carrying out Supply/ Service activity, the Supplier has to fill the applicable CST/VAT and Service tax as % and actuals for the items. (Central Excise Duty Exempted as per Government Notification No. 16/2007-Central Excise dated 01-Mar-2007; valid for shipments up to 31.03.2017).
2. This Un-Price bid format should be submitted along with Techno-Commercial Bid.
3. **TERMS OF DELIVERY:** (Please tick A1 or A2 only)

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A1) CFR – MUMBAI / Nhavasheva Seaport / Chennai Seaport. Insurance @1% (Supplier's seaport to BHEL R&D Stores, Hyderabad) + local transport charges (Mumbai / Nhavasheva / Chennai Seaport to BHEL R&D Stores, Hyderabad) based on weight/dimensions furnished by the supplier in the tender shall be added for landed cost evaluation.

A2) CFR-ICD Sanathnagar, Hyderabad, India. Insurance @1% (Supplier's seaport to BHEL R&D Stores, Hyderabad) shall be added for landed cost evaluation.

4. Unit rate of spares shall have validity of 5 years post stipulated warranty period.
5. **If there is/are any local supply/ service(s) provision that are certified by OEM, they have to be quoted in Indian currency only.**
6. Basic equipment value is defined as price of equipment with accessories and auxiliaries (if any), excluding spares
7. In respect of any taxable services provided or agreed to be provided by any person who is located in non-taxable territory and received by any person located in the taxable territory, Service tax at the prevailing rate of 15% is to be borne by the service receiver. The same shall be considered for evaluating the landed cost
8. All the Non-resident of India either individual or company as defined under Indian Income tax act 1961, who are providing services of technical in nature like erection & commissioning, training etc in India are subject to withholding tax on the payments made to them. The technical bidders from countries for which DTAA agreement exist are required to submit the following documents:
 - (a) PAN Copy (Permanent Account Number allotted to foreign Supplier in **India** which is referenced for withholding tax OR Form 10F for Current Year disclosing the Company's Name, e-mail ID, Contact Number, address in the country of residence, Tax Identification Number and Tax Residency Certificate.
 - (b) While determining the rate of tax (when DTAA agreement exist) the lower of the two shall be considered:
 - Rate as per Withholding Tax Provisions of India
 - Rate as per DTAA (Double Taxation Avoidance Agreement between the Country of OEM and India
 - In case of foreign Supplier where DTAA agreement does not exists, the rate as per Indian Income Tax Provisions will attract.
9. Rates to be quoted in figures with corresponding words.
10. Supplier's undertaking: I/We have read and understood the NIT terms and conditions.

SIGNATURE OF THE BIDDER WITH SEAL

ANNEXURE- 4: FA

UN-PRICE BID FORMAT - TRAINING CHARGES AT OEM WORKS

Training charges* (per day basis)	For One BHEL Engineer (To be quoted as % of basic equipment value)	For Two BHEL Engineers (To be quoted as % of basic equipment value)
1st day	Quoted	Quoted
2nd day	Quoted	Quoted
3rd day	Quoted	Quoted
4th day	Quoted	Quoted
5th day	Quoted	Quoted

*** Rows may be added/ deleted as required, according to training schedule**

NOTE:

- Basic equipment value is defined as price of equipment with accessories and auxiliaries (if any), excluding spares
- Travel and hospitality for BHEL engineers will be to BHEL's account.
- Detailed training at OEM works / factory has to be provided by factory engineer to BHEL officials 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 training schedule must be submitted along with the bid.
- All Offers shall be evaluated for the training charges quoted for the total no. of days. However, payment shall be released on actual no. of days of training undergone by BHEL Engineer(s) at supplier's (OEM's) works.
- The above training charges at actuals, shall be released after completion of E&C along with 20% supply value stage payment.
- In respect of any taxable services provided or agreed to be provided by any person who is located in non-taxable territory and received by any person located in the taxable territory, Service tax at the prevailing rate of 15% is to be borne by the service receiver. The same shall be considered for evaluating the landed cost.
- In respect of foreign Supplier, as per Indian Income tax act 1961 and DTAA agreement, Income tax/ Withholding tax has to be recovered and remitted to the revenue authorities, and necessary recovery certificate shall be issued to that effect. In case of non-acceptance of deduction of withholding tax, the offer will be rejected.

SIGNATURE OF THE BIDDER WITH SEAL

ANNEXURE-5: FA

UN-PRICE BID FORMAT
ANNUAL MAINTENANCE CHARGES (AMC)- Non-Comprehensive Type only
(SPARES excluded)

AMC charges after stipulated Warranty for	To be quoted as % of Basic Equipment Value
1 st Year	Quoted
2 nd Year	Quoted
3 rd Year	Quoted
4 th Year	Quoted
5 th Year	Quoted

NOTE:

- a) Basic equipment value is defined as price of equipment with accessories and auxiliaries (if any), excluding spares.
- b) If the AMC Order is to be placed on Supplier's Indian office/ Authorized Service provider/Agency in India (certified by OEM), then order shall be placed in INR (Rs.) with exchange rate as specified elsewhere in the tender. No revision of AMC charges in INR on account of exchange rate variation or revision of prices by OEM is applicable.
- c) During AMC service, 2 routine visits per a year, each visit shall include general service and maintenance, calibration (if any), etc. and breakdown visits (as and when required) have to be made for ensuring continuous operation of the system/ machine
- d) The service personnel should report within 3 days for attending the problem during emergency visit as a part of AMC.
- e) All software upgrades have to be provided free of cost during AMC period.
- f) The AMC charges will be paid on half-yearly basis after completion each half year of the AMC service period and with submission of service report along with the original invoice as per the terms and conditions of Letter Order during AMC period. These charges will be paid within 30 days from date of submission of service report and original invoice.
- g) If during the AMC period there is any breakdown of the equipment for a duration beyond 7 days from the date of reporting, AMC period will be extended by that duration. This should be complied by the vendor
- h) AMC Order(s) may be placed after expiry of standard warranty quoted at the unit rate(s) quoted. The AMC charges Quoted shall be firm and valid for the period quoted.
- i) AMC Charges quoted for the total number of years shall be considered for landed cost comparison
- j) AMC Order(s) may be placed after expiry of standard warranty quoted at the unit rate(s) quoted. The AMC charges Quoted shall be firm and valid for the period quoted.
- k) AMC Charges quoted for the total number of years shall be considered for landed cost comparison.
- l) Rates to be quoted in figures with corresponding words.
- m) Supplier's undertaking: I/We have read and understood the NIT terms and conditions.

SIGNATURE OF THE BIDDER WITH SEAL

PRICE BID FORMAT**ANNEXURE-3: FB****PRICE BID FORMAT FOR 100kN SERVOHYDRAULIC HCF TEST MACHINES – FOREIGN SUPPLIER**

Enquiry Description	Enquiry No	Enquiry Date	Vendor's Name and Address	

1.0 Supplies

S. No.	Item Description	Units	Qty	Unit Rate with Currency	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
			(A)	(B)	C=A*B	
1.0	Deliverable Items**					
1.1	100kN Servohydraulic HCF testing machines as per item specifications with the following items:					
1.1.1	Loading frame (100kN) with Servo hydraulic hydrostatic actuator, 100kN Load cell and Alignment Fixture	Set	2			
1.1.2	Hydraulic Power Pack	Set	2			
1.1.3	Chiller/Recooler	No	2			
1.1.4	Controller and softwares	Set	2			
1.1.5	Remote Control Handset with Display	No	2			
1.1.6	Alignment verification specimen and a laptop pre-installed with alignment verification software	Set	1			
1.1.7	Work Station and Printer with UPS and computer table	Set	2			
1.2	Accessories					
1.2.1	Water cooled 100kN HCF and LCF high temperature mechanical grip with M10 threaded end sample holder	Set	2			
1.2.1.1	Additional sample holders for M10 Threaded ends	Set	2			
1.2.2	100kN Hydraulic non shift wedge grips with following set of inserts	Set	2			
1.2.2.1	Inserts for flat specimen, with 0-10mm thickness (One set includes upper and lower inserts)	Set	2			
1.2.2.2	Inserts for flat specimen, with 10-20mm thickness (One set includes upper and lower inserts)	Set	2			
1.2.2.3	Inserts for round specimen with 5mm – 13 mm diameter (One set includes upper and lower inserts)	Set	2			
1.2.2.4	Inserts for round specimen with 14mm – 20 mm diameter (One set includes upper and lower inserts)	Set	2			
1.2.3	Three zone furnace (200-1200 Deg C)	No	2			
1.2.4	Hinged mounting bracket for furnace	No	2			

SIGNATURE OF THE BIDDER WITH SEAL

Enq711700161 -100kN Servohydraulic HCF Testing machines- Bid Formats-Out-side India Supplier – Foreign Currency

S. No.	Item Description	Units	Qty	Unit Rate with Currency	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
			(A)	(B)	C=A*B	
1.2.5	Additional thermocouple with additional display for specimen temperature	Set	2			
1.2.6	High Temperature CT Grips					
1.2.6.1	For specimens of width 12.5mm and length 50mm	Set	2			
1.2.6.2	For specimen of width 25mm and length 50mm	Set	2			
1.2.7	High Temperature COD Gauges of gauge length=5mm, travel +2.5mm with furnace attachment and ceramic rods	No	2			
1.2.7.1	Load frame mounting brackets for COD Extensometer	No	2			
1.2.8	Room temperature COD Gauge with gauge length 5mm with extension 2.5mm/-1mm	No	2			
1.2.9	RT Extensometer for HCF and LCF with following gauge lengths					
1.2.9.1	Gauge length 12.5 mm travel up to ±2mm	No	2			
1.2.9.2	Gauge length 25 mm travel up to ±5mm	No	2			
1.2.9.3	Gauge length 50 mm travel up to ±10mm	No	2			
1.2.10	HT Axial extensometer with gauge length 25mm and travel ±2.5mm (Furnace attachment and ceramic rods)	Set	2			
1.2.11	100kN Dynamic Compression platens	Set	1			
1.2.12	100kN Dynamic 3-point bend fixture	Set	1			
1.2.13	Fork lift for Fixing/Removing grips	No	1			
1.2.14	Basic tools and spare parts (Grease, Fuses, Lamps etc.) for maintaining the machine for 5 years	Set	2			
1.3.1	Recommended spares for trouble free operation of the HCF machines for 3 Years can be suggested and quoted	Set	2			
1.4.0	Other (Misc. charges)					
1.4.1	Packing and Forwarding charges	Lot	1			
1.4.2	Sub total (EXW Price)					
1.4.3	Any other Charges like Export Clearance Charges etc.	Lot	1			
1.4.4a	FOB (Nearest Gateway SeaPort) Charges	Lot	1			
1.4.4b	CFR Charges (Mumbai/ Nhavasheva/ Chennai seaport/ CPT- ICD Sanathnagar, Hyderabad)	Lot	1			
1.4.5	Sub Total, CFR-India Seaport					
1.5.0	Exchange rate on Technical bid opening date, to be filled by BHEL			BHEL	BHEL	
1.5.1	Sub Total, CFR-India Seaport in Indian Currency (INR), to be filled by BHEL			BHEL	BHEL	
1.5.2	Insurance (INR)			BHEL	BHEL	
1.5.3	Customs duty, (INR)			BHEL	BHEL	
1.5.4	Local Transport, India seaport to BHEL R&D Stores (for CFR-Mumbai/ Nhavasheva/ Chennai seaport shipment, (INR)	Lot	1	BHEL	BHEL	

SIGNATURE OF THE BIDDER WITH SEAL

S. No.	Item Description	Units	Qty	Unit Rate with Currency	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
			(A)	(B)	C=A*B	
1.5.5	Loading and Un-Loading Charges at India seaport and BHEL R&D Stores, (INR)	Lot	1	BHEL	BHEL	
1.5.6	Sub Total, imports (Delivery to BHEL R&D Stores), (1.5.1 to 1.5.5), (INR)					

1.6.0. If there is/are any supply Sourced from India that are certified by OEM, they have to be quoted in Indian currency on FOR-BHEL R&D Stores basis only, with order placement address in India

S. No.	Item Description	Units	Qty	Unit Rate, INR (Rs.)	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
			(A)	(B)	C=A*B	
1.6.1	Please specify, item-wise.	Lot	1			
1.6.2	Taxes/duties, ED	%	1			
1.6.3	Taxes/duties, CST/ VAT, Form 'C' will not be issued.	%	1			
1.6.4	Packing and Forwarding charges					
1.6.5	F.O.R Charges (Freight & Insurance, entry tax, octroi, etc). to BHEL R&D Stores, incl. taxes					
1.6.6	Sub total(Delivery to BHEL R&D Stores), indigenous					
1.7.0	Total, (Imports + Indigenous) = 1.5.6 + 1.6.6					

2.0 SERVICES

S. No.	Item Description	Units	Qty	Unit Rate with Currency	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
2.0	Applicable Service outside India to be quoted in foreign Currency.					
2.1	Training at OEM works (Refer annexure V)	Lot	1			
2.2	Service Tax to BHEL account			BHEL	BHEL	
2.3	Landed cost (2.1 + 2.2)					

SIGNATURE OF THE BIDDER WITH SEAL

3.0. TRAINING / E&C, DEMONSTRATION ETC

3.a	Applicable Services in India (TRAINING / E&C, DEMONSTRATION ETC) provided by Foreign Vendor, to be quoted in foreign Currency.					
S. No.	Item Description	Units	Qty	with Currency	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
3.1	Erection and Commissioning	Lot	1			
3.2	Demonstration at site of installation	Lot	1			
3.3	Post-installation training	Lot	1			
3.5	Service Tax to BHEL account			BHEL	BHEL	

Alternately

3.b	Applicable Services in India (TRAINING / E&C, DEMONSTRATION ETC) provided by Foreign Vendor's India Office Engineer/ Indian Agent / Distributor in India, to be quoted in Indian Currency					
S. No.	Item Description	Units	Qty	Unit Rate, INR (Rs.)	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
3.1	Erection and Commissioning	Lot	1			
3.2	Demonstration at site of installation	Lot	1			
3.3	Post-installation training	Lot	1			
3.4	Service Tax	%				

SIGNATURE OF THE BIDDER WITH SEAL

ANNEXURE- 4: FB

PRICE BID FORMAT - TRAINING CHARGES AT OEM WORKS

Training charges* (per day basis)	For One BHEL Engineer (To be quoted as % of basic equipment value)	For One BHEL Engineer (To be quoted as % of basic equipment value)
1st day		
2nd day		
3rd day		
4th day		
5th day		

ANNEXURE-5: FB

PRICE BID FORMAT
ANNUAL MAINTENANCE CHARGES (AMC)- Non-Comprehensive Type only
(SPARES excluded)

AMC charges after stipulated Warranty for	To be quoted as % of Basic Equipment Value
1st Year	
2nd Year	
3rd Year	
4th Year	
5th Year	

- Rates to be quoted in figures with corresponding words.
- Supplier's undertaking: I/We have read and understood the NIT terms and conditions

SIGNATURE OF THE BIDDER WITH SEAL

PROFORMA OF CONTRACT EXECUTION BANK GUARANTEE (CEBG)

In consideration of the Bharat Heavy Electricals Limited¹ (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at BHEL House, Siri Fort, New Delhi - 110 049, India through its Unit at Corporate R&D, Vikasnagar, Hyderabad - 500 093, Telangana, (name of the Unit) having agreed to accept (Name of the Vendor / Contractor / Supplier) having its registered office at _____² (hereinafter called the said Contractor which term includes supplier), under the terms and conditions of the Contract reference No. _____ dated _____³ valued at Rs.⁴ (Rupees -----
----)⁴ (hereinafter called the said Contract) of Contract Execution Bank Guarantee for the due fulfilment by the said contractor of the terms and conditions contained in the said Contract, on production of a Bank Guarantee for Rs. _____⁵ (Rupees _____ only), we _____ (indicate the name and address of the Bank) having its Head Office at _____ (address of the head Office) (hereinafter referred to as the Bank) at the request of _____ [Contractor(s)] do hereby undertake to pay to the Employer an amount not exceeding Rs. _____ in the event of any breach by the said Contractor(s) of any of the terms and conditions contained in the said Contract.

We, _____ (indicate the name of the Bank), do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the Employer. Any such demand made on the bank, shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Contractor(s) in any suit or proceeding pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal.

The payment so made by us under this guarantee shall be a valid discharge of our liability for payment hereunder and the Contractor(s) shall have no claim against us for making such payment.

We, further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract and that it shall continue to be enforceable till erection and commissioning is completed and Performance Bank guarantee is submitted or till _____⁶ office/Department/Division of Bharat Heavy Electricals Limited certifies that the terms and conditions of the said Contract have been fully and properly carried out by the said contractor(s) and also including the satisfactory commissioning of the equipment and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the _____⁷, we shall be discharged from all the liability under this guarantee thereafter.

We, _____ (indicate the name of the Bank) _____ further agree with the Employer that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said Contract and we shall not be relieved from our liability by any reason of any such variation or extension being granted to the said contractor(s) or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).

We,..... BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed.....⁸
- b) This Guarantee shall be valid up to⁹
- c) Unless the Bank is served a written claim or demand on or before _____¹⁰ all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

We, _____ (indicate the name of the Bank) _____ lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Date _____ Day of _____
for _____ (indicate the name of the Bank) _____

(Signature of Authorised signatory)

* This date to be indicated should not be earlier than 60 days after the date contemplated under the contract.

¹ NAME AND ADDRESS OF THE EMPLOYER. I.e Bharat Heavy Electricals Limited

² NAME AND ADDRESS OF THE VENDOR /CONTRACTOR / SUPPLIER .

³ DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE

⁴ PROJECT/SUPPLY DETAILS

⁵ BG AMOUNT IN FIGURES AND WORDS

^{6 and 9} VALIDITY DATE: One Month beyond completion of E&C date

^{7 and 10} DATE OF EXPIRY OF CLAIM PERIOD: two months beyond validity date

⁸ BG AMOUNT IN FIGURES AND WORDS.

Note:

1. In Case of Bank Guarantees submitted by Foreign Vendors-

- a. From Nationalized/Public Sector / Private Sector/ Foreign Banks (BG issued by Branches in India)** can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e. Demand can be presented at the Branch located in the town/city or at nearest branch where the Unit is located.
- b. From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor country's Bank)**
 - b.1** In such cases, in the Tender Enquiry/ Contract itself, it may be clearly specified that Bank Guarantee issued by **any of the Consortium Banks only** will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter-Guarantee by Foreign Bank in favour of the Indian Bank (BHEL's Consortium Bank). It is advisable that all charges for issuance of Bank Guarantee/ counter- Guarantee should be borne by the Foreign Vendor. The tender stipulation should clearly specify these requirements.

- b.2** In case, Foreign Vendors intend to provide BG from Overseas Branch of our Consortium Bank (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at **sl.no. b.1** will required to be followed.
- b.3** The BG issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time). In case, of Foreign Vendors, the BG Format provided to them should clearly specify the same.
- b.4** The BG should clearly specify that the demand or other document can be presented in electronic form.

BANK GUARANTEE FOR PERFORMANCE SECURITY

Bank Guarantee No:

Date:

To

NAME

& ADDRESSES OF THE BENEFICIARY

Dear Sirs,

In consideration of the Bharat Heavy Electricals Limited ¹ (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at BHEL House, Siri Fort, New Delhi - 110 049, India through its Unit at Corporate R&D, Vikasnagar, Hyderabad - 500 093, Telangana, (name of the Unit) having awarded to (Name of the Vendor / Contractor / Supplier) having its registered office at _____ ² hereinafter referred to as the 'Contractor/Supplier', which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), a contract Ref No.....dated³ valued at Rs.....⁴ (Rupees ----- ----)/FC.....(in words.....) for⁵ (hereinafter called the 'Contract') and the Contractor having agreed to provide a Contract Performance Guarantee, equivalent to% (.... Percent) of the said value of the Contract to the Employer for the faithful performance of the Contract,

we,, (hereinafter referred to as the Bank), having registered/Head office at and inter alia a branch at being the Guarantor under this Guarantee, hereby, irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer a maximum amount Rs ----- (Rupees -----) without any demur, immediately on a demand from the Employer, .

Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Contractor/ Supplier in any suit or proceeding pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment thereunder and the contractors/supplier shall have no claim against us for making such payment.

We thebank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.

We BANK further agree with the Employer that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said Contractor/Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Contractor/Supplier and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor/Supplier or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Contractor/Supplier or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Contractor and notwithstanding any security or other guarantee that the Employer may have in relation to the Contractor's liabilities.

This Guarantee shall remain in force upto and including.....⁶ and shall be extended from time to time for such period as may be desired by Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Contractor/Supplier but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof.

Unless a demand or claim under this guarantee is made on us in writing on or before the⁷ we shall be discharged from all liabilities under this guarantee thereafter.

We, BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed.....⁸
- b) This Guarantee shall be valid up to⁹
- c) Unless the Bank is served a written claim or demand on or before¹⁰ all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

We, _____ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of
(Name of the Bank)

Dated.....

Place of Issue.....

¹ NAME AND ADDRESS OF EMPLOYER I.e Bharat Heavy Electricals Limited

² NAME AND ADDRESS OF THE VENDOR /CONTRACTOR / SUPPLIER.

³ DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE

⁴ PROJECT/SUPPLY DETAILS

⁵ BG AMOUNT IN FIGURES AND WORDS

^{6 and 9} VALIDITY DATE: warranty period from Commissioning date.

^{7 and 10} DATE OF EXPIRY OF CLAIM PERIOD: 2 months beyond validity date

⁸ BG AMOUNT IN FIGURES AND WORDS.

Note:

1. In Case of Bank Guarantees submitted by Foreign Vendors-

- a. From Nationalized/Public Sector / Private Sector/ Foreign Banks (BG issued by Branches in India)** can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e. Demand can be presented at the Branch located in the town/city or at nearest branch where the Unit is located.
- b. From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor country's Bank)**
 - b.1** In such cases, in the Tender Enquiry/ Contract itself, it may be clearly specified that Bank Guarantee issued by **any of the Consortium Banks only** will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter- Guarantee by Foreign Bank in favour of the Indian Bank (BHEL's Consortium Bank). It is advisable that all charges for issuance of Bank Guarantee/ counter- Guarantee should be borne by the Foreign Vendor. The tender stipulation should clearly specify these requirements.
 - b.2** In case, Foreign Vendors intend to provide BG from Overseas Branch of our Consortium Bank (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at **sl.no. b.1** will required to be followed.
 - b.3** The BG issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time). In case, of Foreign Vendors, the BG Format provided to them should clearly specify the same.
 - b.4** The BG should clearly specify that the demand or other document can be presented in electronic form.

CHECK POINTS FOR FURNISHING THE BANK GUARANTEE (BG) AND CEBG

1. The bank guarantee (BG) should be submitted on Rs. 100/- Non judicial stamp paper or part values totaling to Rs.200/-
2. The Non-judicial stamp paper should be purchased by the issuing bank.
3. The BG should be forwarded along with Banker's covering letter, with signature and seal. The contact details of the Issuing Bank such as Contact person(s), designation, Email ID, Phone No. and Fax No. should be indicated in the document
4. All the details in the blanks to be filled by typing, failing which every hand written entry / corrections should be attested with stamp.
5. The executor (bank authorities) is required to mention the power of attorney no. and date of execution in his favour authorizing him to sign the document.
6. Witnesses column should invariably be signed by the bank officials with name and designation.
7. Clear cut claim period of 2 months beyond the validity date, should be provided as per clause 14.
8. BG No. and date should be mentioned in all pages of BG. All pages should be endorsed/ signed by the executor(s)
9. Please note BG. from co-operative banks are not acceptable.
10. BG. from our consortium banks are preferable. (Our consortium banks list is enclosed).
11. **In case of BG. from non consortium bank (private or public sector bank) the clause no. 11 has to be mentioned with full address of the bank's branch at Hyderabad.**
12. In case of BG issued by foreign Bank, it may be confirmed by our consortium bank in India.
13. BG. of other banks (banks other than consortium banks, public sector banks and cooperative banks), can be accepted if their net worth is more than Rs. 500 crores as on last balance sheet date.(a certificate and copy of latest balance sheet to be given by the bank at the time of giving bank guarantee)