



BHARAT HEAVY ELECTRICALS LIMITED
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Tender No: NIT/E/4100/20165547Y/1**Due Date: 26.04.2017****Sub: BHEL-HEEP/OPEN-TENDER (Automatic Titrator for performing PH, potentiometric and karl Fischer)**

Dear Sir

The Heavy Electricals Equipment Plant (HEEP) located at Haridwar, India is one of the major manufacturing plants of Bharat Heavy Electricals Ltd. The core business of HEEP includes design and manufacture of large steam and gas turbines, turbo generators and so on.

Sealed tenders, with the **Tender No** and **opening date** clearly super scribed on the cover (refer ANNEXURE-C), are invited from manufacturers (registered as well as unregistered) for the supply of the following items.

Tender No	Item Description	Qty (Nos)
NIT/E/4100/20165547Y/1	ZZIS01616013 “(Automatic Titrator for performing PH, potentiometric and karl Fischer”	1 No

The tender documents can be downloaded from our web site www.bhel.com or www.bhelhwr.co.in or or <http://eprocure.gov.in> and to be submitted with requisite EMD and tender fee. Relevant specifications & drawings of the above items could be made available prior to due date against copy of NDA & proof of draft of the tender fee in favor of BHEL, Haridwar, however, originals must be submitted with Part-I. **Only those vendors who fulfill the Minimum/Pre Qualifying Requirements & Quality Requirements (as per Annexure-A) will be considered for further technical evaluation.**

This notification has been already published in Indian as well as International News paper. **The last date for taking tender documents shall be 25.04.2017 & opening of each tender shall be 26.04.2017.** Tenders will be received up to 1:45 PM on 26.04.2017 and opened on the same day at 2:00 PM in the Tender Room. **Please note that tender received after due date & time (1.45 PM on 26.04.2017) will not be opened.** BHEL will not be responsible for any type of postal / courier delay.

Interested vendors must remit the tender fee of Rs. 2,000/- for indigenous vendors (Rupees Two Thousand or equivalent amount in foreign currency for foreign vendors) against each tender along with the requisite EMD Rs 40,000/- (Forty thousand or equivalent amount in foreign currency for foreign vendors) in the form of bank draft while submitting the tender documents as detailed in **“GENERAL TERMS & CONDITIONS” (ANNEXURE-B)**, after downloading from either of these web sites. Estimated value of tender is approximately Rs 50 Lacs.

- The tenders shall be submitted in two parts, as described below, on or before the due date. (Refer Annexure-C for bid composition and marking of envelope)**
 - Part I – EMD, Tender Fee, Pre-qualification requirement (PQR), Vendor Registration Form & Techno -Commercial Bid along with Annexure-D**
 - Part II – Price Bid**
- (Refer Annexure-C for bid composition and marking of envelope, bids not in line with this will not be considered)**
- Relevant specifications & drawings** of the above items will be made available only *against copy of NDA & proof of draft of the tender fee in favor of BHEL, Haridwar*, however, originals must be submitted with

Part-I. Other cross referred documents can either be physically collected from BHEL, Haridwar or can be obtained by email bhojraj@bhelhwr.co.in or dbhatt@bhelhwr.co.in against proof of draft of the tender fee in favor of BHEL, Haridwar. This Tender fee draft & NDA are to be submitted along with Part-I (Techno-commercial) bid. Amendments/Corrigendum, if any, will be hosted on our web site only. Other terms and conditions will be as per tender documents.

- **The total quantity may undergo change at the time of ordering.** The details of each item with required deliveries are given in **ANNEXURE-E (Details of Items)**

PRICE BIDS SHALL BE OPENED OF THOSE VENDORS ONLY WHO SHALL SUBMIT EMD AND TENDER FEE (ENVELOP A). *[Please submit separate drafts for EMD and tender fee drawn in favor of BHEL, Haridwar in envelope (called A) super-scribed with bold letters "EMD & Tender Fee" to be submitted with Part-I bid before 1:45 PM on the due date].* The authorized representative should bring authority letter from their parent company (Manufacturer) for attending the bid opening.

KINDLY FOLLOW "GENERAL TERMS & CONDITIONS" (ANNEXURE-B).

Unregistered vendor shall be considered if and only if they meet the minimum qualification requirement and quality requirements as given below.

Following are the mandatory pre-Qualification requirement (Technical) for both the tenders. Offer of vendors not meeting these requirements will not be considered.

- A) Only manufacturer(s) or their sole authorized distributor/agent are eligible to bid. Authorizations letter in the prescribed format (Annexure-I) from original equipment manufacturer (OEM) in favor of authorized agent to bid/negotiate/conclude the order against this tender must be enclosed with technical bid.
- B) The offered equipment shall comply the technical specification as per annexure-A
- c) The tender should have a minimum 07 years of experience for supply & successful installation of automatic titrator of similar specifications. At least 03 latest satisfactory installation/operational reports along with their purchase order copies must be enclosed with the technical bid.
- d) Annual turnover of the tenderer for each of the last financial years should not be less than Rs 30,00,000/- (Rupees thirty lakh only). Financial statement with net profit, duly audited /certified by chartered accountant of the last three financial years along with the copies of income tax return must be enclosed with the technical bid. This clause may be exempted for the vendors who have been already registered in the product material directory of HEEP, BHEL Haridwar.
- e) Signed and stamped compliance sheet(as per annexure-B) of the technical specification(as per Annexure – A) of the goods with technical printed literature along with Bill of material(BoM) mentioning all the terms and conditions clearly, must be enclosed with the un priced technical bid.
- f) Signed and stamped Guarantee /Warranty declaration certificate must be enclosed with the technical bid in prescribed format as per annexure-II attached.
- g) Tenderer shall ensure that they will provide services and necessary spares of automatic titrator for at least 10 years from the date of commissioning.
- h) Tenderers must have fully trained technical staff for installation/commissioning of the equipment and efficient for 'after sales service'.
- i) The tender of any tenderer ,who has not complied with one or more of the conditions of Prequalification criteria and /or fail to submit the required documents in prescribed format as mentioned /or required/ or conditional tender are liable to be summarily rejected.

Vendors must confirm to above Minimum Qualifying Requirements (Please refer attachment for specification and PQR

1. **Validity of offer:** The offers shall be valid for a period of minimum of 90 days reckoned from the date of Part-I- Technical bid opening date. The rates so agreed shall be valid till completion of the contract or any extension thereof agreed with mutual consent.

NOTE: The requirement of individual items may be quite different - depending on confirm order by BHEL, changes in production schedule, customer requirements & other contractual issues etc. To cater this situation, it is proposed that full flexibility shall be available to BHEL to alter the quantity of item.

2. **Clause by Clause acceptance :** All testing requirement/general requirements as called in the purchase specification ISE & CPL /Auto Titrator/2017/Rv /01 dated 09.02.2017 and bring out clearly deviations if any from Terms and Conditions contained in this annexure-A(For import suppliers) and Annexure –B (for indigenous suppliers)

Standard Instructions:

Guarantee Certificate required

Test certificate required Operation and maintenance manual required

Pre inspection by BHEL required

Warrantee certificate required.

This instrument is getting procured under approved PIR no Q-C-23-15-016-HW-15.

Pre delivery inspection of instrument will be done by BHEL at vendors work.

Annexure-C

DETAILS OF COMPOSITION OF PART-I (Techno commercial bid and vendor registration form)& PART-II(Price bid)

Part-I – Techno commercial bid(shall comprise of the following documents.

1. Confirmation to Pre/Minimum Qualification Requirement along with supporting documents.
2. Complete technical offer as per specification, drawings, technical requirement along with unpriced bid giving FOB or C&F term and delivery schedule.
3. Deviation with reference to specification/drawing, if any, should be clearly indicated on a separate sheet.

SRF-Foreign suppliers or SRF-Indian suppliers. The SRF(as applicable) dully filled up will be assessed for manufacturing capability quality systems being followed ,organization soundness and financial worthiness . The same shall be submitted with part-1(Techno commercial bid) by unregistered vendor only with BHEL ,HEEP,Hardwar/ **can be submitted online also at <http://suppliers.bheltry.co.in/>.**

PART –II (Price Bid) (to be submitted in separate envelope with Part-I)

1. Price bid with prices to be submitted as part-II of the tender.
2. Prices should remain firm till the execution of the order.
3. In case of foreign vendors, prices to be quoted on FOB & C&F Mumbai (India) basis separately. In case of FOB, Loading port must be mentioned. Please note that **Ex-Works** price are **not** acceptable & offer may not be considered. In case of Indigenous vendor, prices must be quoted on FOR- Destination- CPS-HEEP-BHEL basis.
4. Insurance – Marine in case of foreign vendor & inland in case of Indigenous vendor shall be taken care by BHEL.
- a) Prices are to be written in both Figures & Words. In case of any difference between the two, the figure written in words shall be considered for evaluation. **No over writing in this is acceptable.**

MARKING OF ENVELOPE:

- Each envelope below is also to be super-scribed as “TENDER NO.-----DUE ON -----
- Drafts for Tender Fee & EMD to be kept in one envelop marked **Envelope –A**. On the Top of the envelope, please write Draft No., Issuing Bank Details & Amount.
- Techno commercial bid –Part-1 to be kept in another envelope. Envelope B and marked as Techno commercial offer.
- Vendor registration form to be kept in another envelope-envelope C and to be marked as vendor registration form.
- Price Bid i.e. Part-II to be kept in another **Envelope-D** & to be marked as “PART-II (Price Bid)”.
- **Envelope A, Envelope B, Envelope C and Envelope D to be kept in one big envelope and to be marked (super-scribed) as “TENDER NO.-----DUE ON -----**
- **Envelops not marked as above are liable to be ignored and will not be opened.**

TERMS AND CONDITIONS OF REVERSE AUCTIONING

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 ON INTERNET.

- For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
- 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.
- BHEL will inform the vendor in writing in case of reverse auction, the details of Service Provider to enable them to contact & get trained.
- Business rules like event date, time, start price, bid decrement, extensions etc. also will be communicated through service provider for compliance.
- Vendors have to fax the Compliance form in the prescribed format (provided by Service provider) before start of Reverse auction. Without this, the vendor will not be eligible to participate in the event.
- 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 vendor to enable them to fill-in the price and keep it ready for keying in during the Auction.
- Reverse auction will be conducted on scheduled date & time.
- At the end of Reverse Auction event, the lowest bidder value will be known on the network.
- The lowest bidder has to Fax the duly signed Filled-in prescribed format as provided on case-to-case basis to BHEL through Service provider within 24 hours of Auction without fail.
- Any variation between the on-line bid value and the signed document will be considered as sabotaging the tender process and will invite disqualification of vendor to conduct business with BHEL as per prevailing procedure.
- In case BHEL decides not to go for Reverse Auction procedure for this tender enquiry, the Price bids and price impacts, if any, already submitted and available with BHEL shall be opened as per BHEL's standard practice.

Annexure-B**GENERAL INFORMATION**

A	COMMON FOR BOTH INDIGENOUS & FOREIGN VENDORS/SUPPLIERS
1	These general terms & conditions shall apply to all enquiries, notice inviting tenders, request for quotations concerning the supply of goods and / or rendering of services to Bharat Heavy Electricals Ltd., HEEP, BHEL-Haridwar (hereinafter referred to as BHEL or the Purchaser).
2	Registered Vendors - Are those who are registered with BHEL, Haridwar for tendered items in respective material grade under 'M' code. Un-registered Vendors - Are those who are not registered with BHEL, Haridwar for tendered items in respective material grade. Both Registered & Un-registered vendors shall be considered, if and only if, they meet the minimum qualification requirement and quality requirements as given below. All un-registered vendors shall be approved by BHEL, if found suitable, on the basis of data furnished by them in Supplier Registration Form (SRF) [Website link for SRF for Foreign Vendors or Indigenous Vendors] and Non-Disclosure Agreement (NDA) [email for NDA format: bhojraj@bhelhwr.co.in]
3	ORIGIN OF QUOTATION: The quotation should be preferably from the principal vendor. However tender specific authorized registered agent can also submit the bid on their behalf, failing which the quotation is liable to be ignored. BHEL prefers to deal directly with the principal manufacturers. BHEL will not interact with agents directly and will not entertain any query/clarification from agents.
4	SUBMISSION OF TENDER: Quotation must be enclosed in sealed cover on which tender enquiry number and the due date MUST BE written and be invariably sent under REGISTERED POST / SPEED POST / COURIER: addressed as follows:- Due on _____ Enquiry No. _____ To, THE HEAD OF MATERIAL MANAGEMENT, Heavy Electrical Equipment Plant, Bharat Heavy Electricals Limited, HARDWAR-249403, INDIA. In case of Two Part Bid, technical bid containing technical offer, duly signed; and un-priced copy of the Price Bid should be kept in one envelope. Price Bid containing only the price should be kept in a separate envelope. Both envelopes indicating Part-1 or Part-2 as the case may be to be put in a bigger envelope. The quotation must be posted before due date, keeping allowance for postal transit time. Alternatively, the tenders duly sealed and super-scribed as above may be deposited in the Tender Box. Quotations sent by any mode but not received in time will be ignored. Tender received through E-mail is also acceptable. However, in time submission of tender in tender box shall be the responsibility of the vendor, sent through any mode. The bid/offer must be ink signed in original. In case of offers through Email, offer should be sent at the email id mentioned in the NIT (ink signed offer must be submitted subsequently). Bids without ink signed will be out rightly rejected. The offers of the bidders who are on the hold/delisted/ banned list and also the offers of the bidders, who engage the services of the hold / delisted / banned firms, shall be rejected. The cutting/overwriting in the bid / offer must be duly attested by the signatories to the offer. The list of firms banned by BHEL is available on BHEL web site www.bhel.com.
5	TENDER OPENING: Tender opening is scheduled to start in the Tender Room at 2:00 PM, on the due date. Therefore quotations must reach this office / tender Box latest by 1:45 PM on due date. Only participating vendors are allowed to attend tender opening. TENDERS RECEIVED AFTER THE SPECIFIED TIME OF THEIR 'SUBMISSION' WILL BE TREATED AS LATE TENDERS AND SHALL NOT BE CONSIDERED UNDER ANY CIRCUMSTANCES. HOWEVER, LATE OFFER RECEIVED AGAINST SINGLE TENDER MAY BE CONSIDERED. The suppliers or their authorized representatives may be allowed to attend tender opening if duly authorized by their principals, through a tender specific letter, for price bid opening on that particular day. General authorization letter is not acceptable.
6	RISK PURCHASE: In case of delays in supplies / defective supplies or non-fulfillment of any other terms and conditions given in Purchase Order, the purchaser may cancel the Purchase Order in full or part thereof, and may also make the purchase of such material from elsewhere / alternative source at the risk and cost of the supplier. If Vendors do not agree to the above RISK PURCHASE CLAUSE and in eventuality of RISK PURCHASE, may be banned for business with BHEL.
7	INCIDENTAL CHARGES: The vendor shall have to pay 5% incidental charges while taking back supplied material if it is found rejected on receipt. The rejected material shall be sent back only after receipt of replacement /submission of BG/refund of amount paid.
8	FORCE MAJEURE CLAUSE: Either party shall be entitled to suspend performance of his obligations under the contract to the extent that such performance is impeded or made unreasonably onerous by any of the following circumstances: fire, war, flood, riots, earthquake etc. or any other circumstances beyond the control of BHEL which inter alia include cancellation, suspension of order by our customer.

	The party claiming to be affected by force majeure shall notify the other party in writing immediately without delay on the intervention and on the cessation of such circumstances. If force majeure prevents the purchaser from fulfilling his obligations, he shall not be forced to compensate the contractor for expenses. Regardless of what might otherwise follow from these general conditions, either party shall be entitled to terminate the contract by notice in writing to the other party if performance of the contract remains suspended under Clause Force Majeure for more than 6 months.
9	SPECIFICATION: Please give your detailed specification in the quotation along with relevant technical literature/catalogue etc. against our tender specifications.
10	QUALITY REQUIREMENT: Your quotation should have specific confirmation regarding meeting all our quality requirements such as. (i) Test Certificate (TC), (ii) Guarantee Certificate (GC) / Warranty Certificate (WC), (iii) Quality Plan (QP) (if applicable); and (iv) Pre-Dispatch Inspection at your works (if applicable) (V) Refer Annexure-I.
11	VALIDITY: The quotation should be valid for a minimum period of 120 days, effective from the date of opening of tender.
12	RIGHT OF ACCEPTANCE: BHARAT HEAVY ELECTRICALS LIMITED HARDWAR reserves the right to reject any or all the quotations without assigning any reason thereof. BHEL also reserves the right to increase or decrease the tendered quantities. Vendors should be prepared to accept order for reduced quantity without any extra charges. Vendor should also be prepared for giving quantity discount in case of increase in quantity. Any discount / revised offer submitted by a bidder on its own shall be considered, provided it is received on or before the due date and time of offer submission (Part-1). Conditional discounts shall not be considered for evaluation of tenders. Unsolicited discounts / revised offers given after Part-1 bid opening shall not be accepted. No change in price will be permitted within the validity period asked for in the enquiry. In case of changes in scope and / or technical specification and / or commercial terms & conditions, having price implication, techno-commercially acceptable bidders shall be asked by BHEL to submit the impact of such changes on their price bids. In case a bidder opts to submit revised price bid instead of impact called for, then latest price bid shall prevail. However in both situations, original price bid will be necessarily opened. The bidder whose bid is technically not accepted will be informed & EMD wherever submitted shall be returned along with his price bid within 30 days of contract finalization date. No interest will be payable on EMD amount. EMD shall however be forfeited in the event of bidder opting out after tender opening Reverse Auction: The enquiry can be finalized through Reverse Auction. BHEL reserves the right to reject the offer in case of non-acceptance of this clause. In case BHEL decides to open the sealed paper price bids, bids of all the techno-commercially acceptable bidders will be opened on the assigned date.
12	BANK GUARANTEE: All bank guarantees for Security Deposit as well as Performance Bank Guarantee of the requisite value in the denominated currency of the purchase order should be from one of the BHEL consortium banks and the bank guarantee should be in the proforma as prescribed by BHEL. The proforma of bank guarantee and the list of consortium banks are displayed at BHEL website www.bhelhwr.co.in. However, in case the bank guarantee is not from BHEL consortium banks, then the vendor has to get the bank guarantee confirmed from one of the BHEL consortium banks and the bank charges are to be borne by the vendor. If any vendor does not accept this condition, their offer is likely to be ignored.
13	EMD & TENDER FEE: Offers must be accompanied with requisite EMD and Tender Fee except in the case of MSE vendors (applicable for 'Indigenous vendors' registered under MSMED Act-2006). The bidder whose bid is technically not accepted will be informed & EMD wherever submitted shall be returned along with his price bid. No interest will be payable on EMD amount. EMD shall however be forfeited in the event of bidder opting out after submission of the bid.
14	STATUTORY REQUIREMENTS: The Vendor should mention the PAN, Excise Registration No., TIN, Service tax Registration No. , as the case may be, on the documents and Bank Details as per BHEL e-Payment format along with the cancelled cheque; provided to BHEL for payment purpose. Any document if identified as "AWAITED" against any of the items above, has to be submitted by the vendor in 4 sets along with their offer, for one-time approval by BHEL. Each document must be identified with a unique document no and its revision no. Where ever national/international (N/IN) standards are referred, the latest N/IN standard & are to be followed. Mention year & date of standard revision that shall be followed for the supply.
15	No representation about the freight amount taken by BHEL will be entertained.
16	The offer should be accompanied with relevant copies of catalogues, drawings or specification. If these documents are not furnished the offer is liable to be rejected.
17	In case you are not quoting, please send your regret letter positively for our reference with valid reasons for not participating in the Tender. Repeated lack of response on the part of vendor may lead to his deletion from BHEL's approved vendor list.
18	The bidders will submit Integrity Pact, duly signed by its authorized signatory, where called for in the enquiry.

19	Wherever the enquiry is issued to unregistered vendor, the bidder shall submit duly filled-in Supplier Registration Form (SRF) along with the bid. Bidders can download the SRF from www.bhel.com . Price bids of such vendors will be opened only on techno-commercial acceptance of bid.
20	The Purchaser can consider awarding tendered quantities among more than one bidder (after acceptance of L1 price by the other bidders) in the manner and proportion disclosed in the tender conditions. Purchaser can also consider awarding of part of the tendered quantity to other than L-1 bidder at L1 counter offered rates, if the quantity offered by the L-1 bidder is less than the quantity tendered for.
21	Delivery Schedule & Completion date: - Commencement of delivery period shall be reckoned from the date of PO / LOI or any other agreed milestone. - Seller shall deliver the goods in the manner and schedule agreed under the Purchase order.
22	Transit Insurance: Except where delivery terms are agreed on CIF basis for Imports, transit insurance will be covered by BHEL under its open Marine Insurance Policy. Seller shall inform dispatch particulars with value of consignment to the Purchaser within 07 days of dispatch for BHEL to arrange insurance coverage in its policy. Failure on the part of seller to inform dispatch particulars will make him liable to pay for any transit damages / losses suffered by the Purchaser.
23	Non-Disclosure Agreement: All Drawing and Technical Documents relating to the product or it's manufacture submitted by one party to the other, prior or subsequent to the formation of contract, shall remain property of the submitting party. Drawing, technical documents or other technical information received by one party, shall not without the consent of the other party, be used for any other purpose than that, for which they were provided. Such technical information shall not without the consent of the submitting party, otherwise be used or copied, reproduced, transmitted or communicated to a third party. Patterns supplied by BHEL will remain BHEL's property which shall be returned by the bidder on demand to BHEL. Bidder shall in no way share or use such intellectual property of BHEL to promote his own business with others. BHEL reserves the right to claim damages from the bidder, or take appropriate penal action as deemed fit against the bidder, for any infringement of the provisions contained herein.
24	Guarantee / Warranty and Corresponding Repairs / Replacement of Goods: Goods shall comply with the specifications for material, workmanship and performance. The warranty shall be for a period of 12 months from the date of receipt. If the delivery is found non-compliant during the warranty period, leading to rejection, the Seller shall arrange free replacement / repair of goods, within one month from the date of intimation or any mutually agreed period. The rejected goods shall be taken away by the Seller at his cost and replaced on Delivered Duty Paid (DDP) (FOR - BHEL Stores / designated destination basis) within such period. In the event of the Seller's failure to comply, Purchaser may take action as appropriate, including Repair / Replenish rejected goods & disposal of rejections, at the risk & cost of the Seller. In case the defects attributable to Seller are detected during processing of the goods at purchaser's / his subcontractor's works, the Seller shall be responsible for free replacement / repair of the goods as required by the purchaser.
25	<u>BHEL reserves the right to short close the existing Purchase Order / Rate Contract / Work Order or any extension thereof at any stage.</u>
B	PRICES:
Common for both Indigenous & Foreign Vendors/Suppliers	
	Kindly quote your prices in figures and words both. In case of any discrepancy in value, the prices quoted in words shall be considered for evaluation and establishing L1 status.
	Please confirm that prices quoted are not more than the prices quoted to any other BHEL unit.
For Indigenous Vendors/Suppliers	
	Prices should be quoted on F.O.R. Destination basis. Quotations on other than FOR destination basis are liable to be rejected.
	Except delivery on FOR destination basis, Transit Insurance shall be taken care of by BHEL.
	In case of Indigenous Items covered by DGS&D Rate Contract, the vendors should submit latest valid copy of the rate contract along with quotation.
	Applicable Sales Tax, Excise Duty and any other statutory levy should be indicated separately and clearly in the quotation.
	Vendors can dispatch goods through any BHEL/Indian Bank Association approved transporters having their branch at Hardwar/destination. For your convenience the names and addresses of transporters approved by IBA & BHEL are posted at our website http://www.bhelhwr.co.in . If material is dispatched through other than BHEL approved transporter, material to be delivered on door delivery BHEL Stores basis.
	The bid will be evaluated on the basis of delivered cost (i.e. Total Cost) to BHEL. If any bidder still quotes on other than FOR destination basis then his offer will be loaded for freight, packing and forwarding charges etc. No representation about the freight amount taken by BHEL will be entertained. Further non-availability of BHEL approved transporter will not be accepted for rescheduling the delivery or waiver of penalties.
	In case of dispatch of material through any unapproved transporter, payment shall be made only after receipt of material and any additional charges payable to the transporter shall be to the vendor account.
For Foreign Vendors/Suppliers	
	Vendors to quote their prices on FOB dispatching port in Euro/USD/JPY only. However vendor may opt to quote their rates with both the options (a) C&F Landing Port & (b) FOB dispatching port. In case of FOB dispatching port, BHEL will add sea freight, insurance and administrative charges for comparison purpose. BHEL reserves the

	right to accept/reject the offers of the vendors not quoting FOB prices. The bids will be evaluated on the basis of delivered cost i.e. Total Cost to BHEL. Basis of evaluation for quotation in foreign currency: Currency exchange rate for evaluation of the quotation received in foreign currency will be as follows: A. Single part bid – Date of tender opening. B. Two / Three part bid – date of part 1 opening. C. Reverse auction – Date of part-1 opening. For evaluation, exchange rates (TT selling rates of SBI) as on scheduled date of tender opening (Part 1 bid in case of two part bid), shall be considered. Evaluation of Indian Agents Commission: BHEL prefers to deal directly with Foreign vendor, wherever required, for procurement of Goods. However if the Foreign Principal desires to avail services of an Indian Agent, then the Principal should ensure compliance to “regulatory guidelines” which will require submission of an agency agreement. The FOB / CIF price quoted will be deemed to be inclusive of Indian Agency commission. Agency commission if payable, as disclosed by the bidder in his quoted FOB / CIF price will be paid in Indian Rupees on receipt & acceptance of Materials or it's installation at destination, as the case may be. The lower of the TT buying rate prevailing on the date of technical bid opening shall be considered for computation of Agency commission. In a tender either the Indian Agent on behalf of Principal / OEM or the Principal / OEM itself can bid, but both cannot bid simultaneously for same item / product in the same Tender. If both OEM and its authorized agent submit their bids separately in that case only the offer of OEM can be considered as an exception. The vendor must indicate the Name of Port of Loading in their offer. While submitting your bids please clearly indicate: (a) Expected Weight of goods (lots wise). (b) The size of packed goods. (c) Whether the goods can be dispatched in containers?
C	PAYMENT TERMS:
	Common for both Indigenous & Foreign Vendors/Suppliers
	BHEL's standard payment term is Payment After Receipt and Acceptance of Material/Item at HECP, BHEL-Store. BHEL reserves the right to accept or reject the offer of the vendor who quotes the payment term other than BHEL's standard payment term. In case BHEL accepts any deviation from above payment term then loading will be done to evaluate the L-1 status of the vendor as under for payments to be done through Bank. Loading for period of relaxation: Base rate of SBI (as applicable on the date of bid opening; Techno-commercial bid opening in case of two part bids) + 6%, shall be considered for loading for the period of 2 months for foreign vendors and 1 month for indigenous vendor (if applicable). Documentation charges as Rs 1500 shall be loaded for foreign vendors and bank charges @0.8% subject to maximum of Rs 6000 shall be loaded for Indigenous vendors. LC opening charges, if applicable, shall be loaded @0.02% per quarter.
	Please note that BHEL does not open confirmed LC, even if vendor bears all the LC related bank charges.
D	DELIVERY TERMS
	Indigenous Purchase: Goods shall be delivered on 'FOR Destination' basis to the named destination unless otherwise called for in the enquiry. Foreign Purchase: - Goods shall be dispatched by sea, unless stated otherwise in the enquiry or purchase order. - Unless CIF / CFR deliveries are called for in the enquiry, the goods shall be delivered on FOB basis to the named Gateway Sea Port or FCA basis to the named Airport, if air freight is called for. - Goods shall be handled for ocean freight / air freight by BHEL's freight forwarder only, under FOB contracts and OBL / HAWB issued by BHEL appointed forwarder or his authorized agent(s) shall only be accepted for negotiation. - In the event of bidder offering CFR or CIF delivery terms for delivery in FCL (Full Container Load), the Bidder shall provide 14 days' time free of detention from the date of delivery at delivery port. Wherever the detention free period offered is less than 14 days, the bids shall be loaded for the period short of 14 days period. <u>Port congestion charges or any additional charges claimed by shipping line till delivery at destination port shall be to the Seller's account.</u>
E	LATE DELIVERY PENALTY CALUSE
	Common for both Indigenous & Foreign Vendors/Suppliers

	Date of delivery will be considered as per the delivery terms mentioned in the Purchase Order. Penalty will be applicable on basis of the items specified in the enquiry i.e. individual items, set wise, total items together. BHEL will levy a penalty for unexecuted portion /set value / PO value (as may be applicable) @0.5% per week or part thereof subject to maximum of 10% of the unexecuted portion /set value / PO value (as may be applicable). Acceptance / Non Acceptance of this CONDITION must be specifically mentioned in your quotation. Any deviation from this will be loaded accordingly i.e. BHEL shall load maximum penalty under Late Delivery Clause, to the extent the same is not agreed by the vendor, for the purpose of comparative statement. Where deliveries quoted by Vendors are not suiting, BHEL may also ignore the offer of the vendor. Further non-availability of ship will not be accepted for rescheduling the delivery or waiver of penalties. Where deliveries quoted by Vendors are not suiting, BHEL may also ignore the offer of the vendor.																								
For Indigenous Vendors/Suppliers Only																									
	In case of payment through bank, and as per the delivery terms mentioned in the Purchase Order, Terms being, "FOR destination/ FOR Haridwar/ FOR Transporter Godown", date of delivery date for the LD/ penalty purpose will be considered as : GR Date + 10 days																								
For Foreign Vendors/Suppliers Only																									
	In case of delivery terms being "C&F / CIF" delivery date for penalty purpose will be - Bill of Lading Date																								
	In case of delivery terms being "CPT" delivery date for penalty purpose will be - Date of Air way bill																								
	In case of delivery terms being "FOR destination / FOR Haridwar / FOR Transporters Godown" delivery date for penalty purpose will be considered as follows: ❖ In Case of Despatch by Sea: BL date ❖ In Case of Despatch by Air: AWB date																								
F	INSURANCE DECLARATION:																								
	Vendor will submit details of dispatches in the following format at email ID hwfaxfp@bhelhwr.co.in .																								
	For imported supplies:																								
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G	SETTLEMENT OF DISPUTES:																								
For Indigenous Vendors/Suppliers Only																									
	In all cases of dispute the matter shall be referred for ARBITRATION to any Arbitrator to be appointed by the Executive Director or any officer who is the administrative head of Bharat Heavy Electricals Ltd., at Haridwar. The award of the Arbitrator shall be final and binding on both the parties. The Arbitrator shall have the power to extend, from time to time, the time for making his award with the consent of the parties. All question, disputes or differences arising under, Out of or in connection with the Purchase Order shall be subject to the exclusive jurisdiction of Haridwar Courts.																								
For Foreign Vendors/Suppliers Only																									
	In case of event of any dispute or difference arising between parties regarding order execution of the same or their respective rights and liabilities there under, the same shall except otherwise expressly provided therein, be referred to the arbitration of two arbitrators, one to be appointed by each party, or in the case of the said arbitrators not agreeing them an umpire to be appointed by the two arbitrators in writing before entering of that reference and provisions of the Arbitration and Conciliation Act 1996 or any statutory notification, or reenactment therefore and rules framed there under from time to time shall apply to such arbitrations. If two arbitrators do not agree on the appointment of umpire, it (the nomination of the umpire shall be done by the international chamber of commerce, Paris (France). The decision of arbitrators, or in case of their not agreeing, that of the sail umpire shall be binding both on seller and purchaser. The venue of the arbitration shall invariably be New Delhi (India).																								
H	TAXES & DUTIES:																								
For Indigenous Vendors/Suppliers Only																									

	- Your Sales Tax Registration Number should be clearly mentioned on your quotation. In case you are not registered with Sales Tax Authorities, the same should be indicated with reasons thereof. - The Seller shall clearly indicate extent of taxes as applicable in his technical bid. In the event of vendor failing to furnish valid CENVAT invoices, amount corresponding to CENVAT will be disallowed by BHEL while making payments. - E1/E2 forms are to be submitted by vendor for direct despatches to Customers. The forms are to be submitted within 30 days of receipt of photocopy/scan copy of C-form. Other statutory declaration forms are also to be submitted in time, as mentioned in the relevant Laws. BHEL reserves the right to withhold the payment due to the vendor equivalent to BHEL's tax and related liability thereon. <u>Payment of VAT will be considered on submission of proof of payment of VAT along with periodic Tax returns with acknowledgement mentioning BHEL's purchases.</u>
For Foreign Vendors/Suppliers Only	
	Where ever the material being offered is imported & the prices quoted are inclusive or exclusive of CVD, the rate & value of CVD and any other taxes and duties as applicable for each item must be indicated. The offer is liable to be ignored in absence of this information. Moreover the Applicable Indian Taxes (like Service Tax & TDS etc) on Service Portion of Order Value shall be borne by the Vendor. If PAN (Permanent Account Number) of the recipient is not available, tax is deductible either at the normal rate or at the rate of 20 percent, whichever is higher. As per Section 206AA of the Act.
I	MISCELLANEOUS TERMS & CONDITIONS:
For Indigenous Vendors/Suppliers Only	
	For Micro & Small Enterprises (MSE's): Clearly state your status regarding Micro, Small and Medium Enterprises as per the Micro, Small and Medium Enterprises Development Act-2006 by producing relevant certificate. In case of an MSE vendor (Including SC/ST vendors) in this tender, the procurement will be as per GOI's laid down procedure. A certificate based on the previous year's audited accounts is to be enclosed from the Chartered Accountant (CA) with the offer, verifying present MSE Status; else MSE benefit will not be extended.
For Foreign Vendors/Suppliers Only	
	As per the Indian Law, all consignments being imported into India by air/sea require a phytosanitary certificate from the country of origin-if articles have been packed with packaging materials. This is mandatory. Please confirm in your offer/dispatch documents that the required phytosanitary certificate will be submitted. Packaging material means any kind of material of plant origin used for packing which include hay, straw wood shavings, wood chips, saw dust, wood waste, wooden pallets, dunnage mats, wooden packages, coir pith, peat or sphagnum moss etc. Specifically confirm your agreement to air freight the material at your cost.
	If the war like situation has developed in a country where a vendor's works involved in this tender is located or there is political instability and Indian Embassy located in that country forbids dealing with the said vendor or advises for not having any business dealing with vendor located in such zone / region/ country, then BHEL reserves the right not to consider the offer of such a vendor or to cancel the order in case the order has already been placed and suspend further dealings till normalcy in the country/ region is confirmed by Indian Embassy.
J	TERMS AND CONDITIONS OF REVERSE AUCTIONING
	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 ON INTERNET. - For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate. - 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. - BHEL will inform the vendor in writing in case of reverse auction, the details of Service Provider to enable them to contact & get trained. - Business rules like event date, time, start price, bid decrement, extensions etc. also will be communicated through service provider for compliance. - Vendors have to fax the Compliance form in the prescribed format (provided by Service provider) before start of Reverse auction. Without this, the vendor will not be eligible to participate in the event. - 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 vendor to enable them to fill-in the price and keep it ready for keying in during the Auction. - Reverse auction will be conducted on scheduled date & time. - At the end of Reverse Auction event, the lowest bidder value will be known on the network. - The lowest bidder has to Fax the duly signed Filled-in prescribed format as provided on case-to-case basis to BHEL through Service provider within 24 hours of Auction without fail. - Any variation between the on-line bid value and the signed document will be considered as sabotaging the tender

	process and will invite disqualification of vendor to conduct business with BHEL as per prevailing procedure. 11. In case BHEL decides not to go for Reverse Auction procedure for this tender enquiry, the Price bids and price impacts, if any, already submitted and available with BHEL shall be opened as per BHEL's standard practice. 12. Bidders shall be required to read the "Terms and Conditions" section of the auctions site of Service provider, using the Login IDs and passwords given to them by the service provider before reverse auction event. Bidders should acquaint themselves of the „Business Rules of Reverse Auction“, which will be communicated before the Reverse Auction. 13. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines, shall be initiated by BHEL and the results of the RA scrapped/ aborted. 14. The Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party. 15. In case BHEL decides to go for reverse auction, the H1 bidder(s) (whose quote is highest in online sealed bid) may not be allowed to participate in further RA process.
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IN CASE YOU ARE NOT MAKING AN OFFER AGAINST THIS ENQUIRY, THEN PLEASE ARRANGE TO SEND A LETTER OF REGRET IF YOU HAVE COLLECTED THE TENDER DOCUMENTS FROM BHEL.

Thanking You,
Yours faithfully,

For & on behalf of BHEL, Hardwar.

Signature With Stamp

ANNEXURE-D**COMPLIANCE SHEET FOR TECHNICAL/COMMERCIAL TERMS AND CONDITIONS**

BHEL Standard Terms	Vendor's Acceptance
1. Two-Part Tender:- Please confirm to submit your bid in two parts and each bids consists of following I) Part-I : - PQR , EMD, Tender Fee, NDA, Technical + Unpriced Bid & other documents asked in Annexure-C II) Part-II : - Price Bid	
2. Payment terms: (Common for both Indigenous & Foreign Vendors/Suppliers) BHEL's standard payment term is Payment After Receipt and Acceptance of Material/Item at HEEP, BHEL-Store. BHEL reserves the right to accept or reject the offer of the vendor who quotes the payment term other than BHEL's standard payment term.	
In case BHEL accepts any deviation from above payment term then loading will be done to evaluate the L-1 status of the vendor as under for payments to be done through Bank. I) Loading for period of relaxation: Base rate of SBI (as applicable on the date of bid opening; Techno-commercial bid opening in case of two part bids) + 6%, shall be considered for loading for the period of 2 months for foreign vendors and 1 month for indigenous vendor (if applicable). II) Documentation charges as Rs 1500 shall be loaded for foreign vendors and bank charges @0.8% subject to maximum of Rs 6000 shall be loaded for Indigenous vendors. III) LC opening charges, if applicable, shall be loaded @0.02% per quarter.	
3. Currency of payment:	
4. Exchange rate : (Foreign Purchase) For evaluation of foreign bids, the exchange rates (TT selling rate of State Bank of India) as on scheduled date of tender opening (Part-I bid) shall be considered. If the relevant day happens to be a bank holiday, then the forex rate as on the previous bank (SBI) working day shall be taken.	
5. TAXES & DUTIES: (Indigenous Purchase) Rate of Excise & Sales Tax must be indicated in your offer even if it is inclusive.	
i. Rate of Excise Duty	
ii. Rate of CST / VAT	
iii. Rate of CVD	
iv. Any Other Duty:	
All statutory taxes, if any, will be deducted at source & to be borne by the beneficiary. Tax deduction certificate shall be issued at the end of financial year if required.	
6. Packing Charges (if any)	
7. Forwarding Charges (if any)	

8. Agency Commission: (Foreign Purchase)

Please confirm if there any Indian agency commission to be paid directly by BHEL. If yes please mention percentage value.

Indian Agents commission if payable shall be converted to Indian Rupees at TT buying rates of exchange ruling on tender opening date (as stated above) which shall not be subjected to any further exchange rate variation.

9. Delivery basis :

Indigenous Purchase: Goods shall be delivered on 'FOR Haridwar' basis.

If any bidder still quotes on other than FOR BHEL Haridwar basis, then its offer will be loaded by maximum freight, packing & forwarding charges quoted by any other bidder from the same or nearby station, against the enquiry / freight rate available at BHEL.

Non-availability of BHEL approved transporter will not be accepted for rescheduling the delivery or waiver of penalties.

Foreign Purchase:**(A) SEA CONSIGNMENTS :**

Please quote your rates with both the options (a) FOB/FAS dispatching port & (b) C&F Landing Port. In case, if any vendor quotes only on C&F basis, the offer is liable to be rejected.

- The import order will normally be placed on FOB / FAS basis as per Govt. guidelines. BHEL will add Freight, Insurance & Administrative charges for comparative statement.

In exceptional cases, the orders can be placed on C&F basis after approval from Ministry of Shipping (Transchart).

(B) AIR CONSIGNMENTS :

Please quote your rates preferably with either of the options

Ex works (b) FCA seller premises (c) FCA dispatching Airport (d) CPT Landing Airport.

Transit insurance will be arranged by BHEL for which immediate intimation of dispatch is required as indicated in purchase order.

10. Delivery Period for Supply: (Indigenous Purchase) Please quote your shortest time period required for supply of material.

(Foreign Purchase)

Earliest Time period required by bidder for supply of material shall be quoted.

Weeks/ Months from the order date on FOB basis =

Weeks/ Months from the order date on C&F basis =

This delivery period shall be linked with BL/AWB date.

- Supply period indicated by bidder should include reasonable time required for manufacturing and FOB/FCA delivery (for shipment and getting BL/AWB, material must be handed over minimum 3 weeks before schedule delivery).
- Where deliveries quoted by Vendors are not suiting, BHEL may also ignore the offer of the vendor.

11. Late delivery penalty Clause: (Common for both Indigenous & Foreign Vendors/Suppliers) Date of delivery will be considered as per the delivery terms mentioned in the Purchase Order. BHEL will levy a penalty @0.5% per week or part thereof subject to maximum of 10% of the PO value. Acceptance of this condition must be specifically mentioned in your quotation. Any deviation from this will be loaded accordingly i.e. BHEL shall load maximum penalty under Late Delivery Clause, to the extent the same is not agreed by the vendor, for the purpose of comparative statement. Where deliveries quoted by Vendors are not suiting, BHEL may also ignore the offer of the vendor. Further non-availability of ship will not be accepted for rescheduling the delivery or waiver of penalties. Where deliveries quoted by Vendors are not suiting, BHEL may also ignore the offer of the vendor. LD shall be applicable on grace period also.	
(Indigenous Purchase) a. Delivery Ex-works:- Date of GR /LR b. Delivery FOR vendor works:- Date of GR/LR c. Delivery FOR BHEL Hardwar/Hardwar:- Date of receipt at BHEL Hardwar (if supply is direct to BHEL) or date of GR + 10 days (if documents are through bank)	
(Foreign Purchase) - In case of delivery terms being "C&F / CIF" delivery date for penalty purpose will be - Bill of Lading Date - In case of delivery terms being "CPT" delivery date for penalty purpose will be - Date of Air way bill/Bill of lading	
12. Authorization for pre-inspection: BHEL is authorized to get pre inspect the material at vendor's works by third party. The material will be dispatched only after getting clearance from BHEL on the pre- dispatch inspection report. The pre-dispatch inspection is required from either of LRS/TUV/BV inspection agency. The offered prices shall be inclusive of inspection charges and offered delivery period must take account inspection time if pre dispatch- inspection is specifically asked in tender enquiry.	
13. Import Supply: (Foreign Purchase) a) As per the Indian Law, all consignments being imported into India by air/sea require a <u>phytosanitary certificate</u> from the country of origin-if articles have been packed with packaging materials. This is mandatory. Packaging material means any kind of material of plant origin used for packing which include hay, straw wood shavings, wood chips, saw dust, wood waste, wooden pallets, dunnage mats, wooden packages, coir pith, peat or sphagnum moss etc. Please confirm in your offer/dispatch documents that the required phytosanitary certificate will be submitted. b) <u>Country or origin certificate:</u> Vendor to furnish the country of origin certificate from Chamber of Commerce with dispatch documents.	
14. Offer Validity: Validity of the offer should be minimum 120 days from tender opening date.	
15. ORDER ACCEPTANCE: Order acceptance (ink-signed) must be submitted within 20 days from the date of PO otherwise it shall be assumed that PO is acceptable to vendor.	

16. Evaluation Criteria: Evaluation of bidders shall be done <i>Material code wise/ itemwise</i> on 'landed cost to BHEL' basis. – BHEL reserves the right to reject offers in case of deviation from above. – Changes in evaluation criteria, if any, shall be informed before price bid opening.	
17. Please note no revision in the prices or submission of supplementary price bid will be allowed during the validity of the offer. However if there is any change by BHEL w.r.t. original specifications/ requirement/ scope/terms and conditions, the bidders may be asked by BHEL to submit only the price impact bid for such changes only.	
18. Origin of Quotation: The quotation should be from the principal/original supplier even if it is submitted through their authorized agents, failing which the quotation is liable to be ignored. Also the name of principal supplier should be indicated on envelop in addition to Enquiry no and due date.	
19. Pl. Confirm that the prices will remain firm during the entire validity and execution of the Project.	
20. Test Certificate as per BHEL Specification / drawing shall be provided along with dispatch documents.	
21. Guarantee certificate as per BHEL Specification shall be provided along with dispatch documents. (if applicable)	
22. Quality Requirements: Please confirm quality requirements given in ANNEXURE-A.	
23. EMD & Tender Fee: BHEL reserves the right to reject the offers of those bidders who have not submitted requisite EMD & tender fee in Part-I. Please confirm submission of the same.	
24. Customer approval: Customer approval of vendors may be required for this case. Hence, the offer of only those vendors shall be considered for this case who are approved by our customer (refer quality requirements in Annexure-A).	
25. Participation through Reverse Auction: Please confirm to participate in Reverse Auction on C&F basis as per Terms & Conditions in Annexure-B (Sl No. J).	
26. Right of acceptance: BHEL reserves the right to increase or decrease the tendered quantities. If any of the projects covered in tendered quantity comes under hold, then corresponding quantity shall be removed from our tender also. Vendor should be prepared to accept order for reduced quantity without any extra charge. Vendor should also be prepared for giving quantity discount in case of increase in quantity.	
Note: Attach separate sheet for additional information if necessary. The above terms & condition supersedes the terms & conditions found contradictory written elsewhere in the tender enquiry and offer of bidder. Vendors are requested to comment on each applicable clause and write as "NA" if not applicable. Please attach this sheet with your techno- commercial offer. No deviation in commercial terms is acceptable. Offers with deviated commercial terms are liable to be rejected. Signature with stamp Name: Designation: Name of Firm: Date:	

Annexure-E

Item Details and Delivery Schedule

Tender No	Item Description	Qty (Nos)	Delivery Schedule
NIT/E/4100/2016/5547Y1	ZZIS01616013 "Automatic Titrator For Performing PH, Potentiometric and Karl Fischer Titrations"	1 No	08/06/2017

INSULATION SYSTEMS ENGG. & CPL
BHEL, HEEP, HARIDWAR

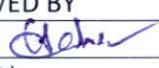
PQR No. : ISE & CPL / Auto Titrator / 2017 / RV / 01

(21)
Date: 09.02.2017

Pre-Qualification Requirements (PQR) for Automatic Titrator:

- a) Only manufacturer(s) or their sole authorized distributor / agent are eligible to bid. Authorization letter in the prescribed format (**Annexure – I**) from Original Equipment Manufacturer (OEM) in favor of authorized agent to bid /negotiate/ conclude the order against this tender, must be enclosed with technical bid.
- b) The offered equipment shall comply the technical specification as per **Annexure – A**.
- c) The tenderer should have a minimum 07 (Seven) years of experience for supply & successful installation of automatic titrator of similar specifications. At least 03 (three) latest satisfactory installation / Operational Reports along with their Purchase Order copies must be enclosed with the technical bid.
- d) Annual turnover of the tenderer for each of the last Five financial years should not be less than Rs.30,00,000/- (Rupees Thirty Lakhs only). Financial statements with net profit, duly audited / certified by Chartered Accountant (CA) of the last three financial years along with the copies of Income Tax Return (ITR) must be enclosed with the technical bid. This clause may be exempted for the vendors who have been already registered in Product Material Directory (PMD) of HEEL, BHEL, Haridwar.
- e) Signed & Stamped Compliance Sheet (as per **Annexure-B**) of the technical specification (as per **Annexure – A**) of the goods with technical printed literature along with Bill of Material (BoM) mentioning all the terms & conditions clearly, must be enclosed with the un-priced technical bid.
- f) Signed & Stamped Guarantee / Warranty Declaration Certificate must be enclosed with the technical bid in prescribed format as per **Annexure – II** attached.
- g) Tenderers shall ensure that they will provide services & necessary spares of Automatic Titrator for at least 10 Years from the date of commissioning.
- h) Tenderers must have fully trained technical staff for installation / commissioning of the equipment and efficient for 'After Sales Service'.
- i) The tender of any tenderer, who has not complied with one or more of the conditions of pre-qualification criteria and / or fail to submit the required documents in prescribed format as mentioned / or required / or conditional tender are liable to be summarily rejected.



PREPARED BY	CHECKED & APPROVED BY	Page : 1 of 1
PRIYADARSHI RAHUL	C R SAHA 	
SR. ENGINEER (ISE & CPL)	AGM (ISE & CPL)	

“TECHNICAL SPECIFICATIONS FOR “AUTOMATIC TITRATOR”**TECHNICAL SPECIFICATION No. : ISE & CPL / Auto Titrator / 2017 / RV / 01 Date: 09.02.2017**

An “Automatic Titrator for performing pH, Potentiometric and Karl-Fischer Coulometric (KF) titrations” as listed below with following specifications:

The Automatic Titrator should be able to do acid-base (aqueous, non-aqueous) and red-ox titrations regularly. The instrument should also have facility to handle KF Coulometric titration samples for detection of moisture content.

The titration stand should be preferably away from the main instrument body to protect any damage to the instrument due to accidental spillage. It should also have an inbuilt pump for automatic addition of reagents and emptying the titration vessel after titration is over. This equipment set-up should be provided with a closed vessel titration setup.

This equipment should be controlled through PC.

- Software for control and data management is mandatory. Vendor to provide licensed software in the name of the BHEL.
- Live display of titration curve and possibility of live modification of titration parameters.

Sl. No.	Title	Description
1	Purpose	For qualifying VPI resin / liquid insulating through measurement of parameters viz. Saponification number and Total Acid number as well as determination of “Accelerator content” present in accelerator treated mica tapes. This equipment may also be used for determination of moisture content in different types of oils and petroleum products.
2	Scope of Supply	EQUIPMENT : Space saving “Automatic Titrator for performing pH, Potentiometric and Karl-Fischer Coulometric (KF) titrations as listed below with following specifications: (Quantity : 1 Set) The Automatic Titrator should be able to do acid-base (aqueous, non-aqueous) and red-ox titrations regularly. The instrument should also have facility to handle KF Coulometric titration samples. The titration stand should preferably be away from the main instrument body to protect any damage to the instrument due to accidental spillage. It should also have an inbuilt pump for automatic addition of reagents and emptying the titration vessel after titration is over.
2.1	USB port	For peripheral connections like Balance, Printer, Mouse or Barcode reader.
2.2	Burette type	Intelligent burette with facility to automatically detect the burette volume, reagent type and titre validity etc. enabling complete traceability and chances of errors due to wrong entries.
2.3	Burette resolution	At least 20000 steps per cylinder volume. Fulfills ISO/DIN standard 8655-3.
2.4	Sensor	Sensor(s) for acid-base / KF Coulometric / optical titration / non aqueous titration & pH measurements. Intelligent sensors should be provided for acid-base / pH, non-aqueous and red-ox titrations.
2.5	Cylinder volume	5ml / 10ml for KF Coulometric titrations.
2.6	Titration Modes	Incremental with constant and variable titrant addition. Pre-set end point titration with automatic conditioning.
2.7	Stirrer type	Preferred, Plug and Play type Magnetic / Propeller Stirrer. Stirring speed and direction should be controlled from the main instrument within the method.
2.8	Titration Stand for KF Coulometric Terminal	With all the above features and additionally also capable of handling Methanol / Waste.

PREPARED BY	CHECKED & APPROVED BY	Page : 1 of 3
PRIYADARSHI RAHUL	C R SAHA	
SR. ENGINEER (ISE & CPL)	AGM (ISE & CPL)	

2.9	pH Calibration	5 point calibration with automatic buffer Recognition and Automatic Temperature Compensation.
2.10	Methods	Method storage upto 100 Methods. Pre-programmed methods should be provided in a USB stick.
2.11	Results storage	Possible to export the results to PC/LIMS through the USB stick. (OPTIONAL)
2.12	Calculation	Freely programmable calculation. 5 calculations per method should be possible to handle even most difficult R&D applications.
3	PC: (OPTIONAL)	PC and printer are required for the operation of the instrument. PC with Microsoft Windows 8 Professional 32 bit operating system software, RAM 4 GB / 8 GB, HDD 1 TB, Intel Core-i5 processor, key board, mouse, DVD writer, USB Ports, Laser Printer (Black & White), 2 KVA online UPS with 30 min. backup to be supplied with the instrument. (Quantity : 1 Set)
3.1	Software for the instrument: (Compulsory)	Provide Latest Microsoft Windows 8 (Preferably latest version) based software. Supplier should also provide the details of PC Configuration required for operation of software.
	a)	The software should be able to handle to Titrations.
	b)	The software should support client server environment. It should be possible to export the data to LIMS and automatic data backup.
	c)	Automatic recognition of devices and monitoring of titre validity, calibration intervals of Sensors.
	d)	"IF commands" to perform actions based on conditions during unattended operations. (OPTIONAL)
	e)	Result trend analysis, History about the each determination should be available.
	f)	Setting limits for results to control the process, and possibility of receiving e-mail whenever it is violated. Quick filter, special filter functions to trace the required data quickly. Electronic signature to prevent tampering of data.
	g)	Export and import of data(s) in different formats like CSV (to excel), XML(to LIMS) etc.
	h)	Custom reports with the desired logo.
4	Titration system:	Titration system should have the above features and should be offered with the following:
	a)	Main Titration Instrument - 1 no.
	b)	Dosing Drives – 1 no. with main unit and KF Coulometric titration system.
	c)	Burettes/Dosing Units of 20 ml 3 nos.
	d)	Setup for KF Coulometric Titration with drive and burette.
	e)	One electrode for non-aqueous titrations, One electrode for aqueous/pH titrations and One electrode for red-ox titrations.
	f)	One additional electrode for optical titrations, one electrode for KF Coulometric titrations. All supplied electrodes should be intelligent type of electrodes capable of capturing sensor related calibration and performance data with inbuilt chip.
	g)	Connecting cables for all the electrodes.
	h)	Reagent bottles of the volume of 50 mL (1 no.), 100 mL (1 no.), 250 mL (1 no.), 500 mL (1 no.), 1 L (1 no.) to be supplied along with the instrument.
5	Guarantee / Warranty:	Recommended probable spares may be required for uninterrupted operation should be offered separately for 2 years additional after the warranty period. (Quantity : 1 Set)
		Tender must be quoted with the two (02) years comprehensive on-site Warranty / Guarantee and it will commence from the date of the satisfactory installation / commissioning of equipment against the defect of any manufacturing, workmanship and poor quality of components and tenderer(s) also give the guarantee / warranty declaration in prescribed format as attached with tender as Annexure – II .
6	Annual Maintenance Contract (AMC)	In addition to quoting for the Guarantee / Warranty for the equipment, tenderer(s) shall have the provision for AMC and must quote the charges for Annual Maintenance Contract (AMC) after the expiry of the period of warranty/guarantee.

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PRIYADARSHI RAHUL	C R SAHA	
SR. ENGINEER (ISE & CPL)	AGM (ISE & CPL)	

7	Source of Power Supply & Inter Connecting Cables	All interconnecting control and power cables shall be supplied by the supplier along with the measuring system. From B.H.E.L. 230 ± 5% Volts at 50 ± 3% Hz. Power shall be available to the mains of Automatic Titrator. Supplier shall ensure operation of the measurement system under above power supply condition.
8	O & M MANUAL	Operation and maintenance manuals in English shall be supplied with the main Test system. The following details shall be included in operation and maintenance manual : a) Block schematic illustrating the principle of operation of the system. b) Detailed assembly drawings with clear marking of each component / assembly /sub- assembly. Interface description of system Diagnostic / fault listing of system c) Electrical schematic diagram & Wiring diagram indicating layout of all associated accessories. d) Installation and commissioning manuals for various components separately and combined. e) Maintenance manual of equipment including sub system f) Programming manual of controls g) Circuit diagram of any auxiliary system / equipments. h) Specifications for all type of interconnecting cables. i) Only original copies of O & M manual 2 nos. and not the photo copies to be supplied along with 3 CD ROMs/ Pen Drives.
9	Calibration Certificates	Calibration certificate for Automatic Titrator measurement accuracy of the Equipment traceable to National / International standards shall be supplied along with the Equipment.
10	Environmental Performance	The Equipment shall operate under following environment conditions : Operating temperature : 0 - 45° C Humidity : Up to 80%, non-condensing. Max. altitude : 1000 M Application : Indoor Noise level : < 80 dBA.
11	Packing	The Equipment/ Accessories shall be packed in a suitable water proof/ vibration proof packing boxes capable of bearing transit hazards. Various packing boxes shall be properly identified and marked giving details of dimensions, net/gross weight.
12	Commissioning & Proving	The equipment shall be commissioned by the supplier at B.H.E.L. Any special instrument / equipment / standard required for commissioning shall be brought by the supplier. The Automatic Titrator shall be commissioned & proved at B.H.E.L. works. The equipment shall be considered commissioned only after successful proving. The job / test object required at the time of commissioning shall be provided by B.H.E.L. for proving.
13	Future Support For Service & Spares	The supplier shall give an undertaking that even in case of obsolescence of Test System. The party shall give maintenance support to B.H.E.L. for at least 10 years after commissioning with respect to service & spares.
14	Training of Personnel	Technical Training to 2 (two) B.H.E.L. Engineers at BHEL works shall be imparted by the supplier regarding its Operation, Calibration, Maintenance & Testing during Installation & Commissioning at free of cost .
15	General	Any material and/ or component not specifically stated above for the complete measurement system but which are necessary for trouble free operation may please be quoted.

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BIDDER's COMPLIANCE STATEMENT FOR "TECHNICAL SPECIFICATIONS FOR "AUTOTITRATOR (ANNEXURE: A)

Sl. No.	Title	Description	Whether meet the requirement (Yes/ No)	Remarks, if any
1	Purpose	For qualifying VPI resin / liquid insulating through measurement of parameters viz. Saponification number and Total Acid number as well as determination of "Accelerator content" present in accelerator treated mica tapes. This equipment may also be used for determination of moisture content in different types of oils and petroleum products.		
2	Scope of Supply	EQUIPMENT : Space saving "Automatic Titrator for performing pH, Potentiometric and Karl-Fischer Coulometric (KF) titrations as listed below with following specifications: (Quantity : 1 Set) The Automatic Titrator should be able to do acid-base (aqueous, non-aqueous) and red-ox titrations regularly. The instrument should also have facility to handle KF Coulometric titration samples. The titration stand should preferably be away from the main instrument body to protect any damage to the instrument due to accidental spillage. It should also have an inbuilt pump for automatic addition of reagents and emptying the titration vessel after titration is over.		
2.1	USB port	For peripheral connections like Balance, Printer, Mouse or Barcode reader.		
2.2	Burette type	Intelligent burette with facility to automatically detect the burette volume, reagent type and titre validity etc. enabling complete traceability and chances of errors due to wrong entries.		
2.3	Burette resolution	At least 20000 steps per cylinder volume. Fulfills ISO/DIN standard 8655-3.		
2.4	Sensor	Sensor(s) for acid-base / KF Coulometric titration / optical titration / non aqueous titration & pH measurements. Intelligent sensors should be provided for acid-base / pH, non-aqueous and red-ox titrations.		
2.5	Cylinder volume	5ml / 10ml for KF Coulometric titrations.		
2.6	Titration Modes	Incremental with constant and variable titrant addition. Pre-set end point titration with automatic conditioning.		
2.7	Stirrer type	Preferred, Plug and Play type Magnetic / Propeller Stirrer. Stirring speed and direction should be controlled from the main instrument within the method.		
2.8	Titration Stand for KF Coulometric Terminal	With all the above features and additionally also capable of handling Methanol / Waste.		
2.9	pH Calibration	5 point calibration with automatic buffer Recognition and Automatic Temperature Compensation.		
2.10	Methods	Method storage upto 100 Methods. Pre-programmed methods should be provided in a USB stick.		
2.11	Results storage	Possible to export the results to PC/LIMS through the USB stick. (OPTIONAL)		
2.12	Calculation	Freely programmable calculation. 5 calculations per method should be possible to handle even most difficult R&D applications.		
3	PC: (OPTIONAL)	PC and printer are required for the operation of the instrument. PC with Microsoft Windows 8 Professional 32 bit operating system software, RAM 4 GB / 8 GB, HDD 1 TB, Intel Core-i5 processor, key board, mouse, DVD writer, USB Ports, Laser Printer (Black & White), 2 KVA online UPS with 30 min. backup to be supplied with the instrument. (Quantity : 1 Set)		

3.1	Software for the instrument: (Compulsory)	Provide Latest Microsoft Windows 8 (Preferably latest version) based software. Supplier should also provide the details of PC Configuration required for operation of software.		
	a)	The software should be able to handle to Titrations.		
	b)	The software should support client server environment. It should be possible to export the data to LIMS and automatic data backup.		
	c)	Automatic recognition of devices and monitoring of titre validity, calibration intervals of Sensors.		
	d)	"IF commands" to perform actions based on conditions during unattended operations. (OPTIONAL)		
	e)	Result trend analysis, History about the each determination should be available.		
	f)	Setting limits for results to control the process, and possibility of receiving e-mail whenever it is violated. Quick filter, special filter functions to trace the required data quickly. Electronic signature to prevent tampering of data.		
	g)	Export and import of data(s) in different formats like CSV (to excel), XML(to LIMS) etc.		
	h)	Custom reports with the desired logo.		
4	i)	Possibility to connect a Balance to automatically transfer the weight data. The instrument should accept balances from at least 3 major international manufacturers.		
	Titration system:	Titration system should have the above features and should be offered with the following:		
	a)	Main Titration Instrument - 1 no.		
	b)	Dosing Drives – 1 no. with main unit and KF Coulometric titration system.		
	c)	Burettes/Dosing Units of 20 ml 3 nos.		
	d)	Setup for KF Coulometric Titration with drive and burette.		
	e)	One electrode for non-aqueous titrations, One electrode for aqueous/pH titrations and One electrode for red-ox titrations.		
	f)	One additional electrode for optical titrations, one electrode for KF Coulometric titrations. All supplied electrodes should be intelligent type of electrodes capable of capturing sensor related calibration and performance data with inbuilt chip.		
	g)	Connecting cables for all the electrodes.		
5	h)	Reagent bottles of the volume of 50 mL (1 no.), 100 mL (1 no.), 250 mL (1 no.), 500 mL (1 no.), 1 L (1 no.) to be supplied along with the instrument.		
	i)	Recommended probable spares may be required for uninterrupted operation should be offered separately for 2 years additional after the warranty period. (Quantity : 1 Set)		
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14	Training of Personnel	Technical Training to 2 (two) B.H.E.L. Engineers at BHEL works shall be imparted by the supplier regarding its Operation, Calibration, Maintenance & Testing during Installation & Commissioning at free of cost .		
15	General	Any material and/ or component not specifically stated above for the complete measurement system but which are necessary for trouble free operation may please be quoted.		

FORMAT
MANUFACTURERS' AUTHORIZATION FORM (MAF)

No. _____
To _____

Dated _____

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer.

Date: [insert date (as day, month and year) of Bid Submission]
Tender No.: [insert number from Invitation For Bids]

To: [insert complete name and address of Purchaser]

WHEREAS

We [insert complete name of Manufacturer], who are official manufacturers of [insert type of goods manufactured], having factories at [insert full address of Manufacturer's factories], do hereby authorize [insert complete name of Bidder] to submit a bid the purpose of which is to provide the following Goods, manufactured by us [insert name and or brief description of the Goods], and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with **Clauses** of the **General Conditions of Contract**, with respect to the Goods offered by the above firm.

Signed: [insert signature(s) of authorized representative(s) of the Manufacturer]

Name: [insert complete name(s) of authorized representative(s) of the Manufacturer]

Title: [insert title]

Duly authorized to sign this Authorization on behalf of: [insert complete name of Bidder]

Dated on _____ day of _____, _____ [insert date of signing]

Yours faithfully,

(Name)

(Name of manufacturers)

Note: This letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to legally bind the manufacturer. It should be included by the Bidder in its bid.

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ANNEXURE – II

CERTIFICATE OF GUARANTEE/ WARRANTY (on letter head pad)

I / We certify that the guarantee / warranty shall be given for a period of two (02) years starting from the date of the satisfactory installation, commissioning and handing over of the equipment and the work completed under the contract. During the guarantee / warranty period, I / we shall provide the "after sale service" and the replacement of defective / or any part(s) of the equipment or rectification of defects of work of the equipment will be free of cost. The replacement of the parts shall be arranged by us, at our own cost and responsibility. We undertake that the above guarantee / warranty shall begin only from the date of handing over of the equipment. The benefit of change in dates of the guarantee / warranty period shall be in the interest of the user / your organization.

During the warranty period, we shall provide at least **2 preventive maintenance visits per year**.

Uptime Guarantee: During the guarantee / warranty period, we will be responsible to maintain the equipment including all the accessories in the satisfactory faultless working conditions for a period 347 days (i.e. 95% uptime) in a block of 365 days.

- All complaints will be attended by us within 4 working days of receipt of the complaint in our office.
- In case there is delay of more than 4 days in attending the complaint from our side then the BHEL can count the number of days in excess of the permissible response time in the downtime. The above said response time of 4 days for attending to a complaint by us will not be counted in the downtime.
- **Penalty:** We shall pay a penalty equivalent to 0.5 % of the order value of the equipment for every week or part thereof delay in rectifying the defect.

No deduction or advantage of any kind on account of Sundays, half days or Public / Govt. holidays observed by the BHEL shall be allowed from the total down time permissible as defined above. The right to accept the reason(s) for delay and consider reduction or waive off the penalty for the same shall be at the sole discretion of the Institute.

I / We shall try to repair the equipment at BHEL premises. However, in case it is not possible to repair the equipment at BHEL premises, we will take out the equipment to our site on our own expenses. We shall take the entire responsibility for the safe custody and transportation of the equipment taken out for repairs till the equipment is rehabilitated to the BHEL after repair. If any loss of equipment occurred during our custody, we will restore it / compensate to BHEL for such losses.

I / We guarantee that in case we fail to carry out the maintenance work within the stipulated period, the BHEL reserves the right to get the maintenance work carried out at our risk, cost and responsibility after informing us. All the expenses including excess payment for repairs / maintenance shall be adjusted against the Performance Bank Guarantee. In case the expenses exceed the amount of the Performance Bank Guarantee, the same shall be recoverable from us with / without interest in accordance with the circumstances.

I / We undertake to perform calibration after every major repair / breakdown / taking the equipment out for repair from the BHEL premises.

I / We guarantee that we will supply spare parts, if and when required on agreed basis for an agreed price. The agreed basis could be an agreed discount on the published catalogue price.

I / We guarantee to the effect that before going out of production of the spare parts, we will give the adequate advance notice to BHEL so that BHEL may undertake to procure the balance of the life time requirements of the spare parts.

Authorized signatory of the company with seal