



## RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY

[Institute of National Importance established under the Act of Parliament]

Mubarakpur, Mukhtia, Bahadurpur Post: Harbanshganj, Jais, Amethi Pin Code- 229 304

Website: [www.rgipt.ac.in](http://www.rgipt.ac.in)

### **E-Procurement of POTENTIOSTAT/GALVANOSTAT WITH RDE/RRDE AND ACCESSORIES**

Type of Tender	E-TENDER (OPEN)
E-Tender No.	<b>RGIPT/JAIS/E-OPN/LAB/2019-20/02</b>
Item Description	Procurement of 01 No. POTENTIOSTAT/GALVANOSTAT WITH RDE/RRDE AND ACCESSORIES
Tender Type	Two Bid System: Tender should be submitted on the schedule to tender. (i) Techno-Commercial Bid and (ii) Financial Bid  The Financial bid will be opened only of those firms, who will be found technically qualified after evaluation of their technical bids.
Earnest Money Deposit (EMD)	Rs.93000/- (Rupees Ninety Three thousand only) – Through online mode only.
Mode of Submission	Online Mode
E-Tender Date	18.04.2019
Pre-Bid Meeting	02.05.2019 (Thursday) 3pm
Last date of submission of E-Tender	16.05.2019 (Thursday) before 3pm
Date & Time of Opening of Techno- Commercial bid	16.05.2019 (Thursday) at 4pm
Date & Time of Opening of Financial Bid	Will be announced later
Place of Opening of E-Tender	Conference Room, 2nd Floor, Rajiv Gandhi Institute of Petroleum Technology, Jais, Amethi, UP
E-Tender Processing Fee (ITI Limited)	Rs.3000.00 + (Applicable GST @18%) through e-payment Gateway available on <a href="https://rgipt.euniwizarde.com">https://rgipt.euniwizarde.com</a>
Bid Address to the	The Director Rajiv Gandhi Institute of Petroleum Technology, Mubarakpur, Mukhtia, Bahadurpur POST: Harbanshganj, Jais, Amethi – 229304
Technical Clarification (Indenter)	Name: Dr. Arshad Aijaz Department – Chemistry Email: <a href="mailto:aaijaz@rgipt.ac.in">aaijaz@rgipt.ac.in</a> Mobile No.7081341241
Any other Clarification	Assistant Registrar (Accounts) Email: <a href="mailto:sajia@rgipt.ac.in">sajia@rgipt.ac.in</a>

**Tenders can be downloaded from [www.rgipt.ac.in](http://www.rgipt.ac.in) and <https://rgipt.euniwizarde.com/>**

E Tendering Helpdesk Number: 011-49606060/7398741154/7982696347/7042643428

E Tendering Helpdesk email ID: [ewizardhelpdesk@gmail.com](mailto:ewizardhelpdesk@gmail.com), [ewizardkrishn@gmail.com](mailto:ewizardkrishn@gmail.com)

Online Tenders from reputed Original Equipment Manufacturers/ Authorized Dealers for procurement of **01 No. POTENTIOSTAT/GALVANOSTAT WITH RDE/RRDE AND ACCESSORIES** are invited by the Rajiv Gandhi Institute of Petroleum Technology, Amethi- 229 304 in **Two-Part Bid System** as per specifications mentioned below:

### ITEM PARTICULARS

Enquiry No: - RGIPT/JAIS/E-OPN/LAB/2019-20/02 Date: 18.04.2019

**Item Description: 01 POTENTIOSTAT/GALVANOSTAT WITH RDE/RRDE AND ACCESSORIES**

### Technical Specifications of POTENTIOSTAT/GALVANOSTAT WITH RDE/RRDE AND ACCESSORIES

**Potentiostat/Galvanostat with RDE/RRDE and accessories – Qt. 1**

Modular Potentiostat / Galvanostat with supplied with cell cable, USB cable, Windows based software, license with getting started manual.

A Display Panel on potentiostat / galvanostat hardware must be available for real-time estimation on currents, voltage and open circuit voltage during or before acquisition

Compliance voltage	: $\pm 30V$ or better at 2A (adjustable configurations will not be considered)
Maximum Scan rate	: 1000 V/s with 15 mV step
Resolution of measured current	: 0.0003% of current range (Default hardware resolution without any low-current boosters)
Maximum Current	: $\pm 2A$ or better at 30V (Need additional $\pm 10A$ with unchanging current resolution)
Measured current Resolution (Low)	: 30 fA or better at 10 nA Current Range
Potential range	: $\pm 10V$ or better
Potentiostat Gain bandwidth	: 1 MHz or better
Bandwidth of electrometer	: > 4 MHz or better
Input Bias current	: < 1 pA or better
Current Ranges	: $\pm 10$ nA to 1A in several ranges
Resolution of measured potential	: 0.3 $\mu V$ or Better
Applied current Resolution	: 0.015% of current range
Input impedance of electrometer	: > 1T $\Omega$ // 8 pF
Potentiostat rise fall time	: < 250 nS or better
A/D Converter	: Three channel, 16 bit
IR Compensation	: Current Interrupt, positive feedback & dynamic (optional) Resolution: 0.025% or better
Electrode Connection	: 4 (WE, S, CE and RE)
Interface to PC	: USB

**Following expandability options / modules are required now or in future:**

- Bi-potentiostat Option with Feedback Mode: **Qt. 1**
- Maximizing measured current capability upto  $\pm 10A$ : **Qt. 1**
- Conducting EIS analysis upto 10 MHz or better: **Qt. 1**
- Increasing Sampling Rate at 1M Samples / Sec or better – Future Option
- Increasing Scan Rate upto 250 KV/s or better – Future Option
- Lowest current resolution upto 300 aA or better – Future Option
- Providing electromagnetic noise filtration from surroundings – Future Option
- Electrochemical noise and simultaneous pH / Temp. analysis – Future Option
- EQCM analysis – Future Option

The systems should be compatible for upgradation with accessories such as:

- a) Rotating Ring Disc Electrode with Feedback mode Bi-potentiostat: Qt. 1
- b) Fuel Cell Electrolyzer: Qt. 1
- c) Photo-electrochemical H-Cell for Water Splitting & CO<sub>2</sub> Reduction: Qt. 1

- d) Zinc-air battery test set-up: Qt. 1
- e) Bottom Mount Thin Catalyst Film Set-up: Qt. 1
- f) EIS based conductivity analysis set-up for battery electrolytes, gels & films – Qt. 1

**EIS Option: Qt. 1**

Hardware and software for EIS measurements with 'real-time' fit- simulation should be available in potentiostatic and galvanostatic control, over frequency range of 10  $\mu$ Hz to 1 MHz. At 1 Hz, impedance of 0.01  $\Omega$  must be determined with an accuracy of  $0.01 \pm 0.00003 \Omega$  or better with a phase accuracy of 0.3° or better. The applied frequency resolution should be 0.003% or better. Combined with waveform generator, it should be possible to apply a frequency from EIS option in the range of 10  $\mu$ Hz - 32 MHz. The measurable frequency range with 'real-time' lissajous plotting using potentiostat / galvanostat should be 10  $\mu$ Hz - 1 MHz. The potentiostat / galvanostat hardware should have an in-built EIS configuration for "as and when" future upgradation of frequency range upto 10 MHz.

Measured EIS Data presentation: Real-time fit and simulation analysis as well as 'live' data plotting option for the simulation plot must be available as default software protocol. Also real-time measurement plots needed for – Lissajous curve, Nyquist, Bode, Admittance, Dielectric & Mott-Schottky. The fit and simulation software should include basic options such as find circle, element subtraction and an equivalent circuit library with all the modern EIS equivalent circuit models (Randle's, transmission line, etc.). Minimum visible plots in real time should be 8 or more.

**Impedance Analysis Add-on for Higher Frequency: Qt. 1**

A high frequency add-on is required to conduct EIS measurements at high frequencies upto 10 MHz or higher with a same resolution of applied frequency upto 0.003%. For higher accuracy and reproducibility, the module must have a built-in algorithm to ensure that the amplitude applied on the cell corresponds to the required amplitude at all times, thus maximizing the resolution while respecting the linearity and stability conditions during the measurement.

**Internal Bi-potentiostat Expandability Option for Each Channel: Qt. 1**

An internal dual-mode bi-potentiostat option is required. Parallel measurements should be possible on two working electrodes sharing the same counter and reference electrode. The bi-potentiostat feature should be functional in at least two modes. In the first mode, a fixed potential is required to be applied to the second Working Electrode while applying a potential step or a sweep to the first Working Electrode. In the second mode, a potential offset with respect to the first working electrode is required to be applied to the second working electrode.

**High Current  $\pm$  10A Booster Option: Qt. 1**

A  $\pm$  10A current booster option with compliance voltage of  $\pm$  20V or better is required. Measurement current resolution of 0.0003% with booster is a must requirement for accurate high precision measurements.

**A Rotating Ring Disk Electrode and RRDE Cell Set-up: Qt. 1**

A complete set-up for rotating disk electrode measurements is required including a dedicated RRDE cell for oxygen reduction reaction (ORR) studies. The RRDE should be high end unit with at least two numbers of sealed liquid Hg contacts for very low noise measurements. The electrode shaft should fit in cell lids. There must be a provision to easily mount exchangeable electrode tips on the shaft of RRDE that is controlled by a motor control unit. The set-up must be suitable for measurements at very low currents or electrochemical impedance measurements. The rotor should have the capability for remote as well as manual control. A maximum rotating speed of 10,000 rpm or more is required for high speed hydrodynamic EIS evaluation of diffusion coefficients for ORR measurements. The RRDE software should have fully automated analysis and plotting option for Levich and Koutecky-Levich analysis.

Motor speed range setting 100 - 10,000 RPM in 1 RPM steps

Manual speed setting 100 - 10,000 RPM in 1 RPM steps

Acceleration/deceleration 4,000 RPM/s

**A specialized RRDE Vessel for ORR measurement:**

The RRDE vessel (Volume 300 mL deep vortex creating vessel - Jacketed) should have nitrogen-purging, temperature control as well as advanced options for remote controlled liquid dosing of moisture-sensitive electrolytes. Various types of RRDE and RDE tips of gold, platinum and glassy carbon (1 each) should

be supplied along with Ag/AgCl reference electrode, Pt sheet counter electrode (1 cm<sup>2</sup>), Gas introduction system for purging and gas jacket, Thermometer, stand, lid and stoppers.

#### **Thin layer Electrochemistry cell: Qt. 1**

A stationary solution three electrode voltammetry cell is required for measurements of a thin film deposited on flat ITO or FTO type substrate. The construction of the cell should be of materials inert to the sample (preferably PEEK).

##### **Specification**

- PEEK or related cell wall material
- Gas-in – out apparatus
- Nominal exposure area: 1 cm<sup>2</sup>
- Minimum electrolyte volume: 2.5 ml
- Maximum electrolyte volume: 15 ml
- Substrate size: 25 mm x 25 mm
- Maximum substrate thickness: 3 mm

##### **Must include:**

Pt wire Counter electrode (1 no.), Ag/AgCl reference electrode (1 no), Suitable Lid for the cell and purge tube with valve, 2 mm diameter Pt Electrode Tip (1 no.) including Holder and polishing kit.

#### **Accessories for HER / OER electro-catalysis set-up: Qt. 1**

A Magnetic Mount Photo-electrochemical H-Cell is required for two-compartment analysis separated by Nafion membrane

##### **Specification**

- Nominal Exposure Area: 1 cm<sup>2</sup>
- Minimum Electrolyte Volume: 2x10 mL
- Maximum Electrolyte Volume: 2x15 mL
- Electrode Plug Diameter: 6 mm
- Recommended Substrate Size: 25 mm X 25 mm
- Maximum Substrate Thickness: 3 mm
- Metal wire auxiliary electrode: 25 No.

Product should be equipped with all the required accessories as well as Counter (99.9% Pt) & Reference electrodes (Ag/AgCl, 2 No.) for electro-catalysis studies in photo-electrochemical based water-splitting, hydrogen evolution, oxygen evolution as well as carbon dioxide reduction.

#### **Zn-air battery testing kit: Qt. 1**

A complete cell set-up for testing Zinc-air battery is required with following:

- Basic electrochemical cells – 2x50 mL (first one serving as cell and the second one serving as O<sub>2</sub> humidifier)
- Electrode plug with Nickel wire clip -2
- Substrates (to install carbon fiber paper) - 50
- Electrode plug with Zinc wire clip - 2
- Substrates (to install Ni foam 10 mm x 10mm) - 50

#### **Fuel cell electrolyzer: Qt. 1**

A complete fuel cell set up with a 5 cm<sup>2</sup> membrane electrode assembly, cartridge heaters and temperature sensor provided. An additional or spare MEA provided as well.

**Electrochemical Software:** The Software to be provided with the Potentiostat / Galvanostat should be comprehensive, fully windows based with three-dimensional view of graphics and analysis software. Software should record current, voltage and time for cyclic and linear sweep voltammetric measurement. It should be possible to record current, voltage and time data in tabular format for each measuring point

in voltammogram. Software should be capable of supporting a wide variety of electrochemical techniques as mentioned below.

- Electrochemical Frequency Modulation Technique
- Real time 3D plotting and 3D overlays during analysis
- Real-time fit & simulation for EIS
- Real-time Lissejous plots
- Cyclic & Linear Sweep Voltammetry – HER, OER, Kotecky –Levich based default protocols
- Linear Polarization – Fully automated Tafel Slope analysis
- Differential Pulse, Sampled DC & Square Wave Voltammetry
- Chrono-amperometry, chrono-coulometry and chrono-potentiometry ( $\Delta t > 1$  ms)
- It should have facility to display up to 25 or more plots simultaneously
- Software Development Kit to control the workstation using Labview Software
- Tutorials to help the user to familiarize with software
- Sequential programming of different electrochemical methods and optional accessories
- Comprehensive database structure & powerful data analysis tool.
- Inbuilt electrochemical spread sheet
- User programmable formulae to new plots.
- Powerful graphic engine with useful features such as individual Axis scaling, overlays, multiple Y axes, plot addition, zooming and rotation.
- Each plot should be saved as a vector image file to use directly in paper or presentation
- Software should have facility to record additional signal viz EQCM, bi-potentiostat etc.
- Import/export ASCII, Ready-to-use Vis & Generic interface for .Net applications should be included.

**Other Cell Setup Accessories:**

- i) Electrode tip holder for tips – 1 No.
- ii) Contact Pin Thread for tips – 1 No.
- iii) Contact pin for tips – 1 No.
- iv) GC electrode tip for RDE, 3mm – 3 No.
- v) Aq.Ag/AgCl reference electrode with double junction – 1 No.

**Computer & Printer:**

- i) Desktop: CPU Intel Core i7, RAM 8 GB RAM, HDD 1TB HDD, LED monitor 24 inch, Keyboard, Optical Mouse, 3 USB Ports.
- ii) Online UPS 2 KVA with 30 minutes Back-up.

**Other information:**

- i) All parts/wires/connectors/desired items to use workstation for data collection from RDE/RRDE and different cells should be provided even it is missed in the above specifications.
- ii) 3 Years standard guarantee/warranty
- iii) Complete system installation and training by engineers

**Note:** Vendor should be an authorized provider of sophisticated high-precision potentiostat/galvanostat workstations for past 10 Years or more with:

- Standard quality certifications such (ISO 9001)
- 10+ past installations of similar systems in India in past two years.

Place:

Date:

Signature and seal of the Manufacturer/ Bidder

Technical Specifications Compliance Statement of “POTENTIOSTAT/GALVANOSTAT WITH RDE/RRDE AND ACCESSORIES” should be submitted as per format given in Annexure – I (On the Company’s Letter Head)

## Terms & Conditions

### 1. Tender filling up and submission

- a. Tender offer must refer to the letter/Notice inviting the Tender.
- b. The bid should be uploaded online mentioning "Supply & Installation of 01 POTENTIOSTAT/GALVANOSTAT WITH RDE/RRDE AND ACCESSORIES" to Rajiv Gandhi Institute of Petroleum Technology, Jais, Amethi.
- c. Bids must be submitted online against above mentioned tender.
- d. The prices can be quoted in Indian Rupees or Foreign Currency, both in figures and in words and the same will be considered for price comparison. Where there is a difference between the two, the rates given in words will be taken as authentic. Should there be any discrepancy between unit rate and amount, the unit rate will be considered as the correct one.
- e. The rates quoted should include freight charges upto Jais, Amethi clearly mentioning the percentage/rate of GST and the rates quoted should be valid for at- least 60 days from the date of opening of the quotation. The rates must be quoted both in figures and words and over writing should be avoided. However all cuttings/corrections must be duly authenticated.
- f. The bid submitted must not contain any ambiguity. Any such ambiguity in the quote submitted shall make it liable for rejection.
- g. The tender document is not transferable.
- h. No amendment to the bid in any form by the bidder will be permitted after opening of the tender. No conditional offers shall be accepted.
- i. Submission of bid will bind the bidder to the acceptance of all conditions specified in the tender document.
- j. Canvassing in any form is for bidden and will be a criterion for disqualification.

### 2. EMD (Earnest Money Deposit):

The EMD should pay only in online mode on <https://rgipt.euniwizarde.com> of Rs.93000/- (Rupees Ninety Three thousand only) – Through online mode only). No interest shall be paid on earnest money deposited.

- a) The EMD of the unsuccessful bidders will be returned after final award of the Job to a successful bidder/ acceptance of the tender and within reasonable time not exceeding six months from the date of opening of Tender. The EMD will carry no interest.
- b) The EMD will be forfeited if the bidder withdraws his offer before finalization of the tender.
- c) The EMD of successful bidder will be returned after the submission of Performance Security.
- d) The firms registered with DGS&D & NSIC, if any, are exempted from payment of EMD provided such registration includes the item they are offering which are manufactured by them and not for selling products manufactured by other companies. (Latest Copy must be submitted online for claiming exemption).

### 3. Performance Security:

The successful bidder will provide "Performance Security" for an amount of 10% of the contract value in the form of valid Account payee Demand Draft/ FDR from a scheduled bank favouring "Rajiv Gandhi Institute of Petroleum Technology" payable at RGIPT, Jais, Amethi Campus Branch. Performance security should remain valid at least for a period of 180 days beyond the date of completion of all contractual obligations of supplier (Total Period of FDR/Demand Draft – Warranty Period plus 180 days). Thereafter the security will be returned, provided there is no defect in the equipment supplied.

### 4. Evaluation Criteria:

The order will be awarded to the vendor, who fulfills all the technical specifications & conditions mentioned in the tender document for Technical Bid and whose rate is L1 in grand total in Financial Bid. Evaluation of Lowest bid will be calculated on the total price of all items tendered for basic equipment along with accessories, packing & forwarding, Installation & Commissioning, GST and other charges etc. as mentioned in the tender (Bidder must submit the technical bid & financial bid separately). The Financial bid will be opened only of those firms, who will be found technically qualified after evaluation of their technical bids.

### 5. Bid Validity:

The bid must be valid for 180 days from the date of opening of Technical Bid.

### 6. Payment terms:

- a) In Indian Currency Payment terms - 80% payment will be released against successful supply of equipment at site i.e Rajiv Gandhi Institute of Petroleum Technology, Jais, Amethi and balance

20% after installation & commissioning of the equipment and subject to submission of original Bill/ Invoice as certified by the Indenter.

- b) In Foreign currency payment -80% payment by an irrevocable letter of credit favouring Principal Company and for compliance of payment term, two weeks prior to dispatch of the equipment on submission of letter from Principal Company confirming that the equipment is ready for dispatch and on receipt of documents without any discrepancies and balance 20% will be paid after satisfactory installation and commissioning as certified by the indenter.

Reimbursement of Expenses in Indian Rupees: The Institute will reimburse the expenses in Indian Rupees related to custom duty, custom clearance charges, transportation charges upto RGIPT, Jais, Amethi to the Indian Counterpart after the installation and commissioning of equipment at site (Upto maximum limit defined in the bid) i.e Rajiv Gandhi Institute of Petroleum Technology, Jais, Amethi – 229304 and subject to submission of original bill certified by the Indenter.

7. **Clearance and delivery:** On arrival of shipment/consignment, the supplier is required to arrange custom clearance and transportation of the consignment up to RGIPT, Jais, Amethi premises. The Tenderer/ bidder will do all types of clearance work and formalities to deliver/provide the equipment at the site of installation. The expenses incurred will be reimbursed on actual basis not exceeding the quoted amount. Institute will provide all types of documentary support including Customs Duty exemption certificate. The custom duty, custom clearance charges, transportation charges etc. will be reimbursed in Indian Rupees on subject of submission of documentary proof. This may be included in your quotation as a separate item. Principals will themselves have to procure any requisite permission from the Govt. of country of origin of equipment.
8. **Part Shipment not allowed:** Part Shipment will NOT be allowed.
9. **Insurance:** For delivery of goods at the purchaser's premises, the insurance shall be obtained by the supplier in an amount equal to 110% of the value of the goods from "warehouse to warehouse" (final destinations) on "All Risks" basis including War Risks and Strikes. The insurance shall be valid for a period of not less than 3 months after installation and commissioning. If orders placed on CIF/CIP basis, the insurance should be up to RGIPT, Jais, Amethi.
10. **Bank Charges:** All the bank charges within India will be borne by the Institute and outside India will be borne by the Supplier.
11. **Site Preparation:** The supplier shall inform to the Institute about the site preparation, if any, needed for the installation of equipment, immediately after the receipt of the purchase order. The supplier must provide complete details regarding space and all the other infrastructural requirements needed for the equipment, which the Institute should arrange before the arrival of the equipment to ensure its timely installation and smooth operation thereafter. The supplier shall visit the Institute and see the site where the equipment is to be installed and may offer his advice and render assistance to the Institute in the preparation of the site and other pre-installation requirements.
12. **Training of Personnel:** The supplier shall be required to undertake to provide the technical training to the personnel involved in the use of the equipment at the Institute premises, immediately after completing the installation of the equipment for a minimum period of one week at the supplier's cost.
13. **Resolution of Disputes:** The dispute resolution mechanism to be applied pursuant shall be as follows:
  - i. In case of Dispute or difference arising between the Purchaser and a domestic supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any statutory modifications or re-enactments thereof shall apply to the arbitration proceedings. The dispute shall be referred to the Director, Rajiv Gandhi Institute of Petroleum Technology, Jais, Amethi and if he is unable or unwilling to act, to the sole arbitration of some other person appointed by him willing to act as such Arbitrator. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties to this order.
  - ii. In the case of a dispute between the purchaser and a Foreign Supplier, the dispute shall be settled by arbitration in accordance with provision of sub-clause (a) above. But if this is not

acceptable to the supplier then the dispute shall be settled in accordance with provisions of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules.  
The venue of the arbitration shall be the place from where the order is issued.

14. Live working product Demo of same or similar item is necessary (at the cost of bidder) for all the bidders, if asked for, within the ONE week of opening the technical bid.
15. **Printed Conditions of the Company – Not Acceptable to the Institute:** RGIPT does not accept the printed conditions of any Tenderer. It will be ignored without any reference; hence tenderers should withdraw such printed conditions if they have any. RGIPT shall accept only unconditional tender.
16. **Technical Deviations – Sole discretion of RGIPT for consideration:** If technical deviations furnished by the Tenderer are not agreeable to RGIPT, the offers may be ignored. However it will be solely at discretion of RGIPT to consider the technical deviations OR not for considering the Tenderer. No correspondences of the Tenderer will be entertained in this matter.
17. **Price Validity:** The price quoted by the bidder shall remain valid till the supply is completed. During the tenure of the supply period, no price increase will be considered, except for change in statutory levies imposed by Centre Govt. / state Govt. or Local authorities.
18. **Warranty:** Three years of guarantee/warranty
19. **Delivery:** The timely delivery of 01 POTENTIOSTAT/GALVANOSTAT WITH RDE/RRDE AND ACCESSORIES” is the essence of contract. The supply should be completed with the specified delivery. Delivery shall be completed within maximum 16 weeks from the date of opening of LC.
20. **Bid Acceptance and Rejection:**
  - a. RGIPT reserves the right to reject the bid without assigning any reason what so ever.
  - b. RGIPT does not bind itself to accept the lowest or any quotation and reserves the right to reject any or all without assigning any reason.
21. **Late Receipt of Bids:** No bids will accepted or considered after the due date and time.
22. **Liquidity Damage Clause:** In case of any damages and delay in supply of material, liquidated damages at the rate of 0.5% of the order value per day of delay or part thereof, subject to a maximum of 5% of the order value shall be recovered from the vendor’s bill/invoice.
23. **Withdrawal of Tender:** The Institute reserves the right to withdraw the tender at any stage of tendering process with the approval of the Competent Authority.
24. **Replacements of Goods Broken, Damaged or Short:** If whole or part of the goods/ equipment supplied against the order is found defective/ non-functional or without specification the supplier will have to replace the defective goods/equipment to make equipment operational within a reasonable time (not exceeding two months from the date of intimation to the supplier or the Indian Agent), failure to which the supplier will have to refund the full cost of the equipment including freight, Insurance etc.
25. A quotation submitted with false information will not only be rejected but the vendor may also be debarred for participation in future tendering processes.
26. Authorized representative may choose to be present at the time of opening of quotation at their own cost.
27. **Only one PRICE BID should be submitted for the above equipment. A bidder who submits more than one PRICE BID, shall be disqualified and considered non-responsive.**



**Terms & Conditions must be fulfilled for Eligibility in the tender**

Sl. No.	Description
	<b>The EMD of Rs.93000/- (Rupees Ninety Three thousand Only)</b> is to be paid only through online mode on <a href="https://rgipt.euniwizarde.com">https://rgipt.euniwizarde.com</a> . If the EMD is not paid, then the bid will be automatically rejected.
1	Technical Specification Compliance Statement <b>-(On the letter head of the Company) – Annexure -1</b>
2	Manufacturer’s Authorization Form – In defined format OR Self Declaration of Manufacturing Unit – <b>Annexure - 2</b>
3	Price Reasonability Certificate – In defined format <b>(On the letter head of the Company)- Annexure - 3</b>
4	Declaration Certificate (Acceptance of terms & conditions of the tender) – In defined format (On the letter head of the Company) - <b>Annexure – 4.</b> and Declaration Sheet as per <b>Annexure - 4A.</b>
5	As on date of submission of the proposal, the Bidder is neither blacklisted by Central Government/ State Government or Instrumentalities thereof nor is any criminal case against the Bidder/ its Partners/ Directors/ Agents pending before any court of law. Non-Blacklisting Certificate on Rs. 100.00 non-Judicial Stamp Paper – In defined format - <b>Annexure - 5</b>
6	Copy of Firm Registration
7	Copy of PAN Card & GST No.
8	Bidder should have 10 years’ experience in the selling and providing service (related Equipment) to reputed Central Government Institutes/Petroleum Engineering Colleges/ Universities/ Oil Companies/ Research Institutes/ IITs/ NITs/ IISERs (Self Declaration) – <b>List of Clients &amp; Purchase Orders of “POTENTIOSTAT/GALVANOSTAT WITH RDE/RRDE AND ACCESSORIES”</b> must be submitted.
9	The Bidder or their OEM should possess any valid standard certification like ISO 9001:2008 & 14001:2004.
10	Bidder should enclose the copies of last 3 years Audited Annual Accounts (Balance Sheet and Profit & Loss A/c) duly authenticated by Chartered Accountant
11	Last three years CA certified turnover certificate ( <b><u>Average Turnover of last three years should be Rs.40 Lakhs</u></b> )
12	Last 3 year Income Tax Return (ITR)
13	In case of exemption of EMD, the scanned copy of the document in support of exemption will have to be uploaded by the bidder during bid submission
14	<b>MOST IMPORTANT:</b> Document related to prior installation and service – At least 10 Academic and R&D National Organizations in the last 2 years. <b>Annexure - 6</b>



## **RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY**

### **CHECKLIST FOR SUBMISSION OF DOCUMENTS FOR TECHNO-COMMERICAL BID**

#### **Part -1**

**MOST IMPORTANT: PLEASE DON'T ADD OR UPLOAD ANY ANNEXURE OF PRICE BID IN TECHNO-COMMERICAL BID DOCUMENTS, OTHERWISE YOUR BID WILL BE REJECTED.**

**Checklist for submission of documents for Techno-Commercial Bid**

Sl. No.	Description	Uploaded/ Not Uploaded
	<b>The EMD of Rs.93000/- (Rupees Ninety Three thousand Only)</b> is to be paid only through online mode on <a href="https://rgipt.euniwizarde.com">https://rgipt.euniwizarde.com</a> . If the EMD is not paid, then the bid will be automatically rejected.	
1	Technical Specification Compliance Statement <b>-(On the letter head of the Company) – Annexure -1</b>	
2	Manufacturer’s Authorization Form – In defined format OR Self Declaration of Manufacturing Unit – <b>Annexure - 2</b>	
3	Price Reasonability Certificate – In defined format <b>(On the letter head of the Company)- Annexure - 3</b>	
4	Declaration Certificate (Acceptance of terms & conditions of the tender) – In defined format (On the letter head of the Company) - <b>Annexure – 4</b> and Declaration Sheet as per <b>Annexure - 4A</b> .	
5	As on date of submission of the proposal, the Bidder is neither blacklisted by Central Government/ State Government or Instrumentalities thereof nor is any criminal case against the Bidder/ its Partners/ Directors/ Agents pending before any court of law. Non-Blacklisting Certificate on Rs.100.00 non-Judicial Stamp Paper – In defined format - <b>Annexure - 5</b>	
6	Copy of Firm Registration	
7	Copy of PAN Card & GST No.	
8	Bidder should have 10 years’ experience in the selling and providing service (related Equipment) to reputed Central Government Institutes/Petroleum Engineering Colleges/ Universities/ Oil Companies/ Research Institutes/ IITs/ NITs/ IISERs (Self Declaration) – <b>List of Clients &amp; Purchase Orders of “POTENTIOSTAT/GALVANOSTAT WITH RDE/RRDE AND ACCESSORIES”</b> must be submitted.	
9	The Bidder or their OEM should possess any valid standard certification like ISO 9001:2008 & 14001:2004.	
10	Bidder should enclose the copies of last 3 years Audited Annual Accounts (Balance Sheet and Profit & Loss A/c) duly authenticated by Chartered Accountant	
11	Last three years CA certified turnover certificate ( <b>Average Turnover of last three years should be Rs.40 Lakhs</b> )	
12	Last 3 year Income Tax Return (ITR)	
13	In case of exemption of EMD, the scanned copy of the document in support of exemption will have to be uploaded by the bidder during bid submission	
14	<b>MOST IMPORTANT:</b> Document related to prior installation and service – At least 10 Academic and R&D National Organizations in the last 2 years. <b>Annexure - 6</b>	

Place:

Date:

Signature and seal of the Manufacturer/ Bidder

**Technical Compliance Statement for 01 No. POTENTIOSTAT/GALVANOSTAT WITH  
RDE/RRDE AND ACCESSORIES**

**(ON THE LETTER HEAD OF THE COMPANY)**

<b>Sl. No.</b>	<b>Parts</b>	<b>Specification</b>	<b>Comply (or) Not Comply</b>
1.	01 "POTENTIOSTAT/GALVANOSTAT WITH RDE/RRDE AND ACCESSORIES"		

**Please mention the brand and model no. & name of the equipment:**

Place:

Date:

Signature and seal of the Manufacturer/Bidder

**MANUFACTURERS' AUTHORIZATION FORM (MAF)  
(ON THE LETTER HEAD OF THE COMPANY)**

**[NOTE:** 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. It should be included by the Bidder in its bid]

No. Dated

Date: **[insert date (as day, month and year) of Bid Submission]**

Tender No.: **[insert number from Invitation for Bids]**

To, Director  
Rajiv Gandhi Institute of Petroleum Technology  
Mubarakpur, Mukhtia, Bahadurpur  
POST: Harbanshganj, Jais, Amethi - 229304

WHEREAS

We **[insert complete name of Manufacturer]**, who are official manufacturers of **[insert type of goods manufactured]**, having factories at **[insert full address of Manufacturers 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 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/Designation:** **[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 of manufacturers)

**OR**

**SELF DECLARATION OF MANUFACTURING UNIT**

**PRICE REASONABILITY CERTIFICATE**  
(ON THE LETTER HEAD OF THE COMPANY)

It is certified that the rates quoted against Tender No. ....  
dated .....for the items vide our bid No. ....  
dated .....are exclusively for supply to ACADEMIC and RESEARCH Institutions and are  
not more than as charged to other Govt./PSU"s for similar supplies made in recent past. If they have been  
approved by the Director, RGIPT and if at any stage it has been found that the quoted rates are higher  
than the rates applicable to supply to Government then in such condition RGIPT, Amethi, will have the  
right to cancel the approved rates and to take legal action against the tenderer.

Yours faithfully,

(Name of manufacturers)

(Signature with date)

(Name and designation)

Duly authorized to sign tender for and on behalf of

**DECLARATION (ACCEPTANCE OF TERMS & CONDITIONS)**  
(ON THE LETTER HEAD OF THE COMPANY)

1. I, ..... Son/Daughter of Shri .....  
Proprietor/ Partner/CEO/MD/Director/Authorized Signatory of M/s .....  
am competent to sign this tender document.
2. I have carefully read and understood all the terms and conditions of the tender and hereby convey my acceptance of the same.
3. The information/ documents furnished along with the above application are true and authentic to the best of my knowledge and belief.
4. I/ we/ am are well aware of the fact that furnishing of any false information/ fabricated document would lead to rejection of my tender at any stage besides liabilities towards prosecution under appropriate law.
5. Each page of the tender document and papers submitted by my Company is authenticated, sealed and signed, and I take full responsibility for the entire documents submitted.

Date: -----

Place: -----

-----

Signature of the Authorized Person

Full Name: -----

Company Seal: -----

**DECLARATION SHEET**

We, \_\_\_\_\_ hereby certify that all the information and data furnished by our organization with regard to this tender specification are true and complete to the best of our knowledge. I have gone through the specification, conditions and stipulations in details and agree to comply with the requirements and intent of specification.

This is certified that our organization has been authorized (Copy attached) by the OEM to participate in Tender. We further certified that our organization meets all the conditions of eligibility criteria laid down in this tender document. Moreover, OEM has agreed to support on regular basis with technology / product updates and extend support for the warranty.

The prices quoted in the financial bids are subsidized due to academic discount given to RGIPT, Jais, Amethi.

We, further specifically certify that our organization has not been Black-Listed/ De Listed or put to any Holiday by any Institutional Agency/ Govt. Department/ Public Sector Undertaking in the last three years.	
1 Phone	
2 Fax	
3 E-mail	
4 Contact Person Name	
5 Mobile Number	
6 TIN Number	
7 PAN Number	
(In case of on-line payment of Tender Fees) 8 UTR No. (For Tender Fee)	
(In case of on-line payment of EMD) 9 UTR No. (For EMD)	
10 Kindly provide bank details of the bidder in the following format: a) Name of the Bank	
b) Account Number	
c) Kindly attach scanned copy of one Cheque book page to enable us to return the EMD to unsuccessful bidder	

(Signature of the Tenderer)

Name:

Seal of the Company



**NON-BLACKLISTING DECLARATION**

It has been certified that all information provided in tender form is true and correct to the best of my knowledge and belief. No forged / tampered document(s) are produced with tender form for gaining unlawful advantage. We understand that RGIPT, Amethi is authorized to make enquiry to establish the facts claimed and obtain confidential reports from clients.

In case it is established that any information provided by us is false / misleading or in the circumstances where it is found that we have made any wrong claims, we are liable for forfeiture of EMD and or any penal action and other damages including withdrawal of all work/purchase orders being executed by us. **Further RGIPT, Amethi is also authorized to blacklist our firm/company/agency and debar us in participating in any tender/bid in future.**

I / We assure the Institute that neither I / We nor any of my / our workers will do any act/s which is improper / illegal during the execution in case the tender is awarded to us.

Neither I/We nor anybody on my/our behalf will indulge in any corrupt activities/practices in my/our dealing with the Institute.

**Our Firm/Company/Agency is not been blacklisted or banned by any Central Government Department/ State Government Department, PSU, University, Autonomous Institute or Any other Govt. Organization.**

Date

Signature of the Tenderer

Place

Stamp

**Note: This certificate should be executed on duly notarized ` 100/- Non Judicial Stamp Paper.**

## List of Govt. Organization/Department

List of Government Organization for whom the Bidder has undertaken such work during last three years (must be supported with work orders)		
Name of the Organization	Name of Contact Person	Contact No.

(Signature of the Tenderer)

Name:

Seal of the Company



## **RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY**

### **CHECKLIST FOR SUBMISSION OF DOCUMENTS FOR FINANCIAL BID**

**The Company can bid in Foreign Currency or Indian Currency  
In the given format**

**The bidder may add rows as per requirement to include the prices of all components/ parts, warranties, installation etc. whichever applicable.**

**FINANCIAL BID – 01 No. POTENTIOSTAT/GALVANOSTAT WITH RDE/RRDE AND ACCESSORIES**

**A. Financial Bid in Indian Currency:**

**I. Name of the Bidder/Tenderer:**

**Name & Model No of offered goods:**

**Tender No.:**

Sl. No.	Details	Total Amount (In INR)
1	Basic Cost of 01 No. POTENTIOSTAT/GALVANOSTAT WITH RDE/RRDE AND ACCESSORIES with accessories defined in Technical Specifications Statement of the Tender	
2	Cost of Warranty	
3	<b>Add:</b> Packing & Forwarding Charges, If any	
4	<b>Add:</b> Installation & Commissioning Charges, if any	
5	<b>Add:</b> Transportation Charges up to RGIPT, Jais, Amethi, if any	
6	<b>Add:</b> Any other Charges, if applicable (Please specify)	
7	<b>Add:</b> GST (Taxes)	
<b>Total Price (Sum of Sl. No 1 to 7) F.O.R RGIPT, Jais, Amethi Price</b>		

**Note: The Institute will provide DSIR & GST Exemption Certificate.**

**II. For Local Supplies -**

Sl. No.	Details	Total Amount (In INR)
1	Cost of <b>Local Supplies</b> defined in Technical Specifications Statement of the Tender Document (Please mention the items)	
2	<b>Add:</b> Packing & Forwarding Charges, If any	
3	<b>Add:</b> Installation & Commissioning Charges, if any	
4	<b>Add:</b> Transportation Charges up to RGIPT, Jais, Amethi, if any	
5	<b>Add:</b> Any other Charges, if applicable (Please specify)	
6	<b>Add:</b> GST (Taxes)	
<b>Total Price (Sum of Sl. No 1 to 6) F.O.R RGIPT, Jais, Amethi Price</b>		

I. Total Bid price in Indian Currency (Equipment Cost with accessories): .....  
In words: .....

II. Total Bid price in Indian currency (Local Supplies): .....  
In words: .....

**Grand Total (I + II) = .....**

**In words: .....**

**THE BIDDER MAY ADD ROWS AS PER REQUIREMENT TO INCLUDE THE PRICES OF ALL COMPONENTS/ PARTS, WARRANTIES, INSTALLATION ETC. WHICHEVER APPLICABLE.**

- a) Indian Agents Name & Address
- b) The cost of optional items shall be indicated separately
- c) In case the price quoted in Foreign Currency (Other than INR), for the purpose of comparison the Exchange Rate prevailing on the date of opening of Financial Bid will be considered.

Date

Signature of the Tenderer

Place

Stamp

**B. Financial Bid in Indian Currency:**

Price Schedule Form: Price schedule for goods being offered from abroad  
 In currency other than INR (Indian Rupees)  
 (Separate form to be used for each item offered)  
 (ON THE LETTER HEAD OF THE COMPANY)

**I. Name of the Bidder/Tenderer:**

Name &amp; Model No of offered goods:

Tender No.:

(Separate Prices should be defined for each instrument)

Sl. No.	Details (Basic Cost of Equipment with accessories)	Price per unit in (-)
	<b>Country of origin</b>	
1	FOB (named port of shipment)-Ex-Works Price	
2	Freight and Insurance up to Indian Airport/port	
3	<b>Total Price at Indian Airport /port (CIP/CIF)(1+2)</b>	
4	**Custom Duty against DSIR certificate (Please mentioned % also)	
5	Custom clearance and other charges, if any (with breakup)	
6	Inland Charges for Insurance & transportation to RGIPT Jais, Amethi	
7	Installation, commissioning and training Charges, if any	
8	If any other charges (Please Specify) – Warranty	
<b>Total Price F.O.R RGIPT, Jais, Amethi Price</b> (Sum of Sl. No 1 to 8)		

**\*\* RGIPT, Jais, Amethi have Custom/Excise Exemption Certificate.**

**II. For Local Supplies –**

Sl. No.	Details	Total Amount (In INR)
1	Cost of <b>Local Supplies</b> defined in Technical Specifications Statement of the Tender Document (Please mention the items)	
2	<b>Add:</b> Packing & Forwarding Charges, If any	
3	<b>Add:</b> Installation & Commissioning Charges, if any	
4	<b>Add:</b> Transportation Charges up to RGIPT, Jais, Amethi, if any	
5	<b>Add:</b> Any other Charges, if applicable (Please specify)	
6	<b>Add:</b> GST (Taxes)	
<b>Total Price (Sum of Sl. No 1 to 6) F.O.R RGIPT, Jais, Amethi Price</b>		

I. Total Bid price in **Foreign Currency** (Equipment Cost with accessories): .....  
 In words: .....

II. Total Bid price in Indian currency (Local Supplies): .....  
 In words: .....

**Grand Total (I + II) = .....**

**In words: .....**

**THE BIDDER MAY ADD ROWS AS PER REQUIREMENT TO INCLUDE THE PRICES OF ALL COMPONENTS/ PARTS, WARRANTIES, INSTALLATION ETC. WHICHEVER APPLICABLE.**

- a) Indian Agents Name & Address
  
- b) The cost of optional items shall be indicated separately
  
- c) In case the price quoted in Foreign Currency (Other than INR), for the purpose of comparison the Exchange Rate prevailing on the date of opening of Financial Bid will be considered.

Date

Signature of the Tenderer

Place

Stamp

The bidders are required to submit soft copies of their bids electronically on the e-tender Portal, using valid class 3 Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the e-tender Portal, prepare their bids in accordance with the requirements and submitting their bids online on the e-tender Portal.

More information useful for submitting online bids on the e-tender Portal may be obtained at:

<https://rgipt.euniwizarde.com>.

## REGISTRATION

1. Bidders are required enroll on the e-Procurement Portal (URL: <https://rgipt.euniwizarde.com>) with clicking on the link "Online bidder Registration" on the e-tender Portal by paying the Registration fee of Rs.2360/- Per vendor/per year.
2. As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
3. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication with the bidder.
4. Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (**Only Class III Certificates with signing + encryption key usage**) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.), with their profile.
5. Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
6. Bidder then logs in to the site through the secured log-in by entering their user ID /password and the password of the DSC / e-Token.
7. **The scanned copies of all original documents should be uploaded on portal <https://rgipt.euniwizarde.com>**

## SEARCHING FOR TENDER DOCUMENTS

1. There are various search options built in the e-tender Portal, to facilitate bidders to search active tenders by several parameters.
2. Once the bidders have selected the tenders they are interested in, you can pay the form fee and processing fee (NOT REFUNDABLE) by net-banking / Debit / Credit card then you may download the required documents / tender schedules, Bid documents etc. Once you pay both fee tenders will be moved to the respective 'requested' Tab. This would enable the e- tender Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.

## PREPARATION OF BIDS

1. Bidder should take into account any corrigendum published on the tender document before submitting their bids.
2. Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid.
3. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF formats. Bid Original documents may be scanned with 100 dpi with Colored option which helps in reducing size of the scanned document.
4. To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Documents" available to them to upload such documents.
5. These documents may be directly submitted from the "My Documents" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.



## SUBMISSION OF BIDS

1. Bidder should log into the website well in advance for the submission of the bid so that it gets uploaded well in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
2. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document as a token of acceptance of the terms and conditions laid down by RGIPT, Jais.
3. Bidder has to select the payment option as “e-payment” to pay the tender fee / EMD as applicable and enter details of the instrument.
4. Bidder should prepare the EMD as per the instructions specified in the tender document. The EMD in original should be posted/couriered/given in person to the concerned official before the Online Opening of Financial Bid. In case of non-receipt of EMD amount in original by the said time, the uploaded bid will be summarily rejected.
5. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BOQ file, open it and complete the white Colored (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.
6. The server time (which is displayed on the bidders’ dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
7. All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid opener public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
8. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
9. Upon the successful and timely submission of bid click “Complete” (i.e. after Clicking “Submit” in the portal), the portal will give a successful Tender submission acknowledgement & a bid summary will be displayed with the unique id and date & time of submission of the bid with all other relevant details.
10. The tender summary has to be printed and kept as an acknowledgement of the submission of the tender. This acknowledgement may be used as an entry pass for any bid opening meetings.

## ASSISTANCE TO BIDDERS

1. Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
2. Any queries relating to the process of online bid submission or queries relating to e-tender Portal in general may be directed to the 24x7 Helpdesk Support. **The contact number for the helpdesk is “011-49606060/7398741154/7982696347/7042643428” and E Tendering Helpdesk email ID: ewizardhelpdesk@gmail.com, ewizardkrishn@gmail.com**