



Pt. Ravishankar Shukla University, Raipur-492010 (C.G)

(School of Studies in Chemistry)

Tender Notice

No. 187/Dev./Tender/18


Raipur, Date 17/07/2018

Sealed tenders are invited from reputed firms/manufacturers/authorized dealers for Bi-Poientostat/Galvanostat along with accessories. Details of the tender and specification of equipment is available in the University website www.prsu.ac.in. tender should accompany two separate DDs for document cost Rs.2500/- and EMD@3% of the quoted amount.

Last date of receipt of tender : 01/08/2018, 03:00 pm
by Registered post/Speed post only.

Opening of Tender : 01/08/2018, 04:00 p.m.

Place of Opening Tender : SoS in Chemistry, Pt.RSU, Raipur (C.G.)


Registrar

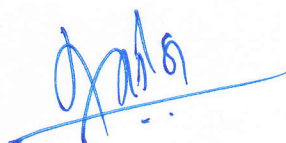
SPECIFICATION

Bi-Potentiostat / Galvanostat

- 2, 3 and 4 electrode configuration
- Maximum potential: ± 10 V or better
- Maximum current: ± 250 mA continuous (sum of two current channels) or better
- Compliance voltage: ± 12 V or better
- Galvanostat applied current range: $0.5 \mu\text{A}$ to 250mA
- Applied potential resolution: $150 \mu\text{V}$ or better
- Applied current resolution: $\leq 0.1\%$ of current range
- IMP frequency range: $10\mu\text{Hz}$ to 1 MHz
- Reference electrode input impedance: ≥ 1 TO
- Reference electrode input bias current: ≤ 10 pA
- Potentiostat rise time: $< 1 \mu\text{s}$
- Scan Rate: $10 \mu\text{V/s}$ to $10,000$ V/s or two channels simultaneously or better

Techniques

- Cyclic Voltammetry
- Linear Sweep Voltammetry
- Staricase Voltammetry
- Tafel Plot (TAFEL) potentiodynamic deactivation, pitting corrosion, corrosion rate, linear Polarisation, Corrosion current etc.
- Chrono Amperometry
- Chrono Coulometry
- Differential Pulse Voltammetry
- Normal Pulse Voltammetry
- Differential Normal pulse Voltammetry
- Square Wave Voltammetry
- AC Voltammetry
- Second Harmonic AC Voltammetry
- Fourier Transform AC Voltammetry
- Amperometric i-t Curve
- Differential Pulse Amperometry
- Double Differential Pulse Amperometry
- Triple Pulse Amperometry
- Integrated Pulse Amperometry Detection
- Bulk Electrolysis with Coulometry
- Hydrodynamic Modulation Voltammetry
- Sweep-Step Functions
- Multi-Potential Steps
- AC Impedance
- Impedance – Time
- Impedance – Potential
- Chrono Potentiometry
- Chronopotentiometry with Current Ramp
- Multi-Current Steps
- Potentiometric Stripping Analysis



- Electrochemical Noise Measurement
- Open Circuit Potential – Time
- Galvanostat
- Bode and Nyquist & Mott-Scottsky plot can be done

Cell System & Accessories

- Pt Working Electrode -2 No.s
- GC Working Electrode - 3 No. s
- Au working electrode - 1 No.s
- Ag/AgCl Reference (aq) -3 No. s
- Ag/AgCl Reference (non aq) - 3 No. s
- Calomel Reference Electrode -2 No. s
- Pt Wire Counter Electrode – 3 No. s
- Electrode Polishing Kit-1No
- Cell Stand

Photovoltaic studies

Software provision for measurement of I-V measurements, I max, Pmax, Fill factor etc

Software: Licensed and full version of software for all the functions and procedures mentioned above.

Up gradation of software: Digisim Simulation software need to provide. Up gradation of software should be made as and whenever required.

Computer: Latest version computer compatible with instruments software.

System configuration: I3 Processor, 4GB RAM, 1TB Hard Drive, 19" LED Monitor, DVD Writer, Keyboard & Mouse

Warranty: 1 year + 2 years AMC free.

Upgradable option

- There should be a provision that In future the system will use in Photo electrochemistry Setup.
- Future up gradation of Impedance range upto 10MHz

General Terms and Conditions

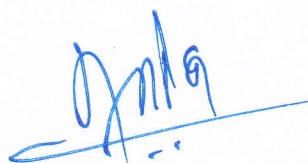
1. The tender should be submitted in prescribed form downloaded from the university website www.prsu.ac.in. The cost of the tender forms will not be refunded in any circumstance.
2. The tenders for equipments mentioned above should be submitted in the form of t/c bids.
 - a. Technical bid
 - b. Financial bid

The interested agencies/firms are advised to submit two separate sealed envelopes superscripted "Technical bid" and "Financial bid" both sealed envelopes should be kept in a third sealed envelope superscripted "Tender No..... TENDER FOR SUPPLY/INSTALLATION OF(ENTER NAME OF THE EQUIPMENT with serial number)" last date of submission, date of opening of technical Bid and Financial Bid as indicated above and should be addressed to the Registrar, Pt. RavishankarShukla University, Raipur, Chhattisgarh.

3. Envelope-I (Technical Bid) The vendor must submit the following documents in Envelope
 - a. Detailed response to required technical/scientific specifications of demanded instrumental configuration along with literature/manuals of the goods/services to be supplied.
 - b. Technical compliance statement with deviation, if any.
 - c. Authorized partner/dealer/distributor certificate from the original manufacturer.
 - d. Documentary proof in support of PAN,VAT/TIN No. and Service Tax No. **GST**
4. Envelope-II (Financial Bid) The vendor must submit the price Bid information mentioning all taxes/duties, For university campus, Raipur in the prescribed proforma Annexure-II. The price should be quoted in words and figures, without any errors or alterations.
5. Each tender should be accompanied by two separate demand draft
 - a. Tender Document cost
 - b. EMD @3% of the Quoted amount

Drawn in the favour of Registrar, Pt. RavishankarShukla University, Raipur, payable at State Bank of India, RSU branch.

6. Late and Incomplete tenders and tenders without EMD, tender fee will not be accepted.
7. Firms which are exempted from the payment of EMD should furnish attested copy of the currently valid certificate to that effect issued by the competent authority.
8. Firm should submit minimum three supply references supplied to other Universities/ Institutes/ Govt. organization/ R&D Labs. Should provide supplied equipment details/ Name of the Organization, contact person name and mailed and contact numbers.
9. Firms having local sales and service support with trained service engineers to offer both emergency &warranty service support within short notice time.
10. All items should have original Test Certificate & warranty certificates with clear mention of item Serial No., Model No., Year of manufacturing etc. from original manufacturing company.
11. You are requested to confirm that in the event of firm is selected for placement of order; your firm will provide warranty from OEM (Original Equipment Manufacturer) of all components/ sub-systems and certificates of materials from supplier that will be used in the equipment.
12. Bidders response (in YES or NO) to each and every point of demanded configuration is must.

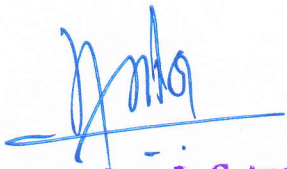


13. The cost of the equipment and all associated accessories of demanded configurations should be inclusive of all taxes, statutory levels, labour/ installation charges, packing, insurance, freight etc. All firms should quote FOR Pt. Ravishankar Shukla University, Raipur. Maximum educational discount for University as could be offered should also be mentioned.
14. The warranty period for the equipment should be for a minimum period of **Three Years** from the date of installation.
15. The exact specification, details of make, model, name of manufacturer, warranty details etc. of the item must be clearly specified. Original brochures with detailed technical literature and illustrations of the units quoted are to be attached with the offer. Details of trainings offered, warranty, maintenance service contact offered after expiry of normal warranty, spare parts availability and after-sales-service facilities available should be indicated. Offers without these are liable to be rejected.
16. For those bidders submitting tenders for more than one instrument, must submit Technical Bid and Financial Bid separately for each instrument and must be placed in individual sealed envelopes and these envelopes must be placed inside a bigger envelope. Only one model can be quoted in a tender.
17. The quoted rate should be valid for a period of 90 days.
18. The article to be delivered & installed within 30 days from the issue of P.O.
19. Successful bidder on confirmation of the tender will have to furnish a performance security of 10% of the total cost of the equipment and execute an agreement in Chhattisgarh stamp worth Rs. 100/-
20. Any delay in supplying the article from the stipulate date of delivery, will attract LD, Liquidated Damage will be applicable at the rate of 0.5% per week and limited to 10% maximum. The authority reserves the right to cancel the purchase order when LD accumulates to 10%.
21. ~~GST~~ will be paid extra, only if the specified taxes do not fall in the academic institution/universities certain tax exemption provisions released from time to time by central government funding agencies.
22. Unsealed quotation will be rejected and quotation must be reached on or before the due date through speed post/Registered/ ~~post~~ only.
23. University reserves the right to accept or reject any quotation without assigning any reason thereof.
24. All disputes will be subjected to Raipur jurisdiction.

Dr. Manmohan L. Satnami
Principal Investigator
SERB-EEQ Project
School of Studies in Chemistry
Pt. Ravishankar Shukla University
RAIPUR (C.G.)


TENDER FORM PART -I (TECHNICAL BID)

Part -I (Technical Bid) of Tender No	
Last Date for receipt :	
Due date for opening part -I (Technical Bid)	
Bidders offer No	
Date :	
From :	
M/s:	
To	
<p>Dear sir ,</p> <p>I/we have gone through the tendering conditions to the tender and General Condition of Contract and Special Condition of Contracts contained herein with this tender documents. I/We herby agree to supply the stores confirming to the tender specification incorporated in ANNEXURE IV of the tender document and also agree to abide by your general condition of contract and special condition of contract contained in the tender document.</p> <p>You will be at library to accept the items of stores offered by us and I/We shall be bound to supply you the stores as may be specified in the purchase order/contract.</p> <p>I/We hereby to keep the price valid for your acceptance for a period of From the date of opening of Part II (Financial bid) of the tender</p> <p>I/We are also enclosing herewith all the leaflets catalogue etc. pertaining to the stores offered</p> <p>Your faithfully</p> <p>Stamp and Signature of bidder</p>	


Dr. Manmohan L. Satnami
 Principal Investigator
 RAIPUR Project
 School of Chemistry
 Pt. Ravishankar Shukla University
 RAIPUR (C.G.)

TENDER FORM PART -II (FINANCIAL BID)

Part -II (Financial Bid) of Tender No	
Last Date for receipt :	
Due date for opening part -II (Financial Bid)	
Bidders offer No	
Date	
From	
M/s	
To	
<p>Dear sir ,</p> <p>In response to your invitation and as per your tendering and contracting condition, the prices applicable for the scope of supply contained in part-I (Technical bid) of our tender indicated in the format to this tender</p> <p>I/We hereby to keep the price valid for your acceptance for a period ofFrom the date of opening of Part II (Financial bid) of the tender</p> <p>Your faithfully</p> <p style="text-align: right;">Stamp and Signature of bidder</p>	



CERTIFICATE FROM THE VENDOR STATING THAT THE COMPANY HAS NOT BEEN
BLACKLISTED BY ANY GOVERNMENT ORGANIZATION

To:

The Registrar

Pt. RavishankarShukla University

Raipur -492010

Chhattisgarh

Dear Sir,

This is to certify that M/shas not been blacklisted
by any Government Organization at the time of submission of the tender document or before.

Yours Faithfully,

Authorized Signatories

(Name & Designation)

Date:

For and on behalf of M/s.....

Nate: This letter of authority should be on the Letter-Head of the manufacturing concern and
should be signed by a component person of the manufacture.



MANUFACTURER S AUTHORIZATION FORM (MAF)

To:

The Registrar

Pt. RavishankarShukla University

Raipur -492 010

Chhattisgarh

Tender Reference:

Dear Sir,

We, who are stabilized and reputed manufacturers of, do hereby authorize M/s(Name and address of the agent/Dealer) to offer their quotation, negotiate and conclude the contract with you against the above invitation for tender offer.

We hereby extend our full guarantee and warranty as per terms and condition of the tender and contract for the equipment and services offered this invitation for tender offered by the above firm.

Yours faithfully,

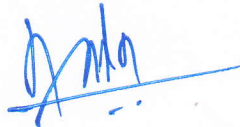
.....Authorized Signatories

.....(Name and Designation)

Date:

For and behalf of M/s(Name of Manufacturers)

Nate: This letter of authority should be on the Letter-Head of the manufacturing concern and should be signed by a component person of the manufacture.



FINANCIAL OFFER (PRICE BID FORM)

To,
 The Registrar
 Pt.RavishankarShukla University
 Raipur (C.G.) 492010
 Dear Sir,

1. I/Wesubmitted the bid forTender NoDated.....for "Supply of Instruments "at Pt.RavishankarShuklaUniversity Raipur (C.G.)

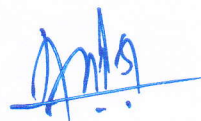
2. I/We thoroughly examined and understood instructions to tenders, scope of work, terms & conditions of contract given in the tender document and those contained appendix of Terms & Conditions of contract and agree to abide by them.

3.I/We hereby offer to supply of Equipment's at the following rates. I/We undertake that I/We are not entitled to claim any enhancement of rates on any account during the tenure of the contract.

Description of item: -

S.No.	Description of Item & Specification (Model if any)	Qty. in Units	Unit Price in Rs.	Discount %	Excise Duty/ Custom Duty (%)	GST (%)	Octroi (%)	Total Price in Rs.

- **Delivery Mode:** Delivery at Pt.RavishankarShukla University, Raipur, at site only
- Total bid price should be inclusive of all taxes and levies, transport, loading, unloading etc.
- Warranty Period:
- Delivery Period:days.
- Quotation Validity Date: - Minimum 120 Days from the date of Submission of quotation/tender.



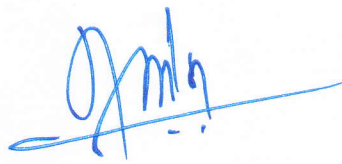
- Payment Term: Payment within 30 working days from the date of submission clear of bill with acceptance certificate from the concerned dept./Sect./MMD.

Sign of bidder: - _____

Date: - _____

Name of the bidder: - _____

Firm's Name: - _____

A handwritten signature in blue ink, consisting of stylized cursive letters, possibly reading 'Amh', with a long horizontal line extending to the right.

ANNEXURE-VI

BID/TENDER PARTICULARS

Name of the Supplier:

2 Complete address of the Supplier:

3 Availability of demonstration of equipment at PRSU,Raipur: Yes / No

4. Cost of the Tender enclosed: Yes/No [Please √] If yes,

a.) Name of the Bank _____

b.) Amount in (₹) _____

c.) Demand Draft No. _____

5. Earnest Money Deposit enclosed: Yes / No [Please √] if Yes,

a.) Name of the Bank _____

b.) Amount in (₹) _____

c.) Demand Draft No. _____

d.) Last Validity date of the enclosed DD _____

6. Communication details of the concerned contact person to whom all references shall be made regarding this tender enquiry. [NOTE: Any changes after submission of Tender documents kindly update PRSU,Raipur]

a.) Full Name:

b.) Complete Postal Address:

c.) Telephone No.:

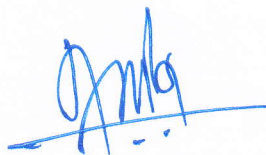
d.) Fax No.:

e.) Mobile No.:

f.) E-mail:

g.) Website Address:

Note: - Demand Drafts must be complied with CTS 2010 standards prescribed by Reserve Bank of India.



TENDER FORM

1) Addressed to:

Name of the Tendering Authority	Registrar
Address	PtRavishankarShukla University(PRSU) Raipur (Chhattisgarh)- 492010
Telephone	
Tele Fax	
Email	

2) Firm Details:

Name of Firm				
Name of Contact Person with Designation				
Registered Office Address				
Address of the Firm				
Year of Establishment				
Type of Firm Put Tick() mark	Public Limited	Private Limited	Partnership	Proprietary
Telephone Number(s)				
Email Address/ Web Site	Email:	Web-Site:		
Fax No.				
Mobile Number	Mobile:			
Certification/Accreditation/Affiliation, if Any				

3) The requisite tender fee amounting to Rs. _____/- (Rupees <in words>) has been deposited vide DD/BC/receipt no. _____ dated _____.

4) The requisite EMD amounting to Rs. _____/- (Rupees <in words>) has been deposited vide Banker's Cheque/ DD No. _____ dated _____.

5) We agree to abide by all the terms and conditions mentioned in this form issued by the Empanelment Authority and also the further conditions of the said notice given in the attached sheets (all the pages of which have been signed by us in token of acceptance of the terms mentioned therein along with stamp of the firm).

Date:

Name & Seal of the firm: _____

Authorized Signatory: _____

Dr. Manmohan L. Satnami
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