



राष्ट्रीय विज्ञान शिक्षा एवं अनुसंधान संस्थान, भुवनेश्वर
(परमाणु उर्जा विभाग, भारत सरकार का एक स्वयं शासित संस्थान)
NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, BHUBANESWAR
(AN AUTONOMOUS INSTITUTE UNDER DEPT. OF ATOMIC ENERGY, GOVT. OF INDIA)

CORRIGENDUM

REF.: NIT -13-2013

The tender date for opening of Technical Bid (Electro Chemical Work Station) of above mentioned tender has extended as per the following.

- 1. Sale of Tender Document : Up to 20.12.2013 (Friday)**
- 2. Date & Time of Submission : 23.12.2013 Up to 05:30P.M (Monday)**
- 3. Date & Time of Opening : 24.12.2013 at 03:30P.M (Tuesday)**

All other Terms & Conditions of our Tender No. NIT-13/2013 will remain same.

All other details are available on our website www.niser.ac.in.

Stores & Purchase Officer



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Notice Inviting Tender No.13-2013 (2 Part Tender)

- 1. FLASH VACUUM SETUP AND ACCESSORIES**
- 2. THERMOGRAVIMETRIC ANALYZER WITH ACCESSORIES**
- 3. DSC SYSTEM WITH ACCESSORIES**
- 4. ELECTROCHEMICAL WORKSTATION**

Cost of Tender is 1500.00 (Non Refundable)



NATIONAL INSTITUTE OF SCIENCE EDUCATION & RESEARCH
INSTITUTE OF PHYSICS CAMPUS, P.O.: SAINIK SCHOOL,
BHUBANESWAR-751 005
Tender Notice No. NIT-13/2013 (2 Part Tender)

Sealed Tenders are invited on behalf of the Director, National Institute of Science Education and Research, Bhubaneswar from the manufacturers (Indian or Foreign) and their authorised reseller/Indian agent only for supply & installation of the following item:-

Sl. No.	Name of the Items	Tender No.	Name of Department	Indent No.	Qty.	EMD in INR
01	Flash Vacuum Setup & Accessories	NIT-13	CHEMISTRY	RD-NC-13-13-14	01No.	35000.00
02	Thermogravimetric Analyzer With Accessories			NC-53-13-14	01No.	80000.00
03	Differential Scanning Calorimeter				01No.	70000.00
04	Electrochemical Workstation	NIT-13	CHEMISTRY	NC-50-13-14	01No.	50,000.00

NB: PARTIES MAY QUOTE FOR ONE OR ALL ITEMS ALONGWITH REQUISITE AMOUNT OF EMD INDICATED AGAINST EACH ITEM.

NB: PARTIES REGISTERED WITH SSI/DGS&D/DAE AND FOREIGN PARTIES QUOTING DIRECTLY ARE EXEMPTED FROM PAYING EMD & TENDER FEE.

Interested parties may collect the Tender Documents from the Dy. Controller of Accounts, NISER, on payment of Rs.1500/- (Non Refundable) in cash up to 25.11.2013 during working hours. The Tender, complete in all respects should be submitted up to 05.30 p.m. of 27.11.2013 along with prescribed Earnest Money Deposit.

Detailed Tender Document can also be downloaded from the NISER web-site address: www.niser.ac.in directly. Bidders who submit the form downloaded from the web site must attach Demand Draft of requisite amount (cost of tender document) with their bid prepared in favour of the FINANCE OFFICER, NATIONAL INSTITUTE OF SCIENCE EDUCATION & RESEARCH.

NISER reserves the right to accept or reject any or all the Tenders without assigning any reason.

Stores & Purchase Officer



**NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH
NIT OPEN DOCUMENT (2 PART BID)
SUPPLY & INSTALLATION OF CHEMISTRY LAB EQUIPMENTS**

National Institute of Science Education & Research (NISER), Bhubaneswar, India is an Autonomous Institute under Dept of Atomic Energy. NISER would like to procure the following equipment. The Technical Specifications Schedule of Requirements and Allied Technical details are given in Part-1 of tender document.

- **Item:** Flash Vacuum Setup & Accessories
Thermogravimetric Analyzer With Accessories
Differential Scanning Calorimeter
Electrochemical Workstation
- **Tender Enquiry No:** NIT-13/2013
- **Due Date & Time:** 27th November, 2013 AT 05.30PM (For submission of Bids)
- **Opening of Technical Bids:** 28th November, 2013 AT 03.30 PM

Sealed tenders are invited for supply and installation of Chemistry lab equipments in the National Institute of Science Education & Research, Bhubaneswar. The tender document consists of the following two parts.

Part-1: "TERMS & CONDITIONS" & "TECHNICAL BID" of the tender.

Part-2: "FINANCIAL BID" of the tender.

The sealed envelope containing "Terms & Conditions", "Technical Bid" and "Financial Bid" on prescribed tender document should reach to the Stores & Purchase Officer, National Institute of Science Education & Research, Bhubaneswar on or before **27th November, 2013** upto 5:30 p.m. otherwise the tender will not be accepted.

The sealed envelope of the bidders containing Part-1 "Terms & Conditions" and "Technical bid" shall be opened on **28th November, 2013** at **03:30 p.m.** One representative of each vendor may participate at the time of opening the bids (The representative must have the valid authorisation from their respective company for attending the tender opening meeting). The Part -2 "Financial Bid" of only those parties who qualify in Part -1 will be opened on a later date. The date of opening will be informed to each qualified party separately.

(Deepak Srivastava)
Stores & Purchase Officer

The Institute can provide following documents.

1. Custom Duty / Excise duty exemption certificate.
2. Road permit for entering in Orissa. Party has to pay Entry Tax & get the reimbursement in their bill on submission of original receipt of Entry Tax.

The Institute can not provide following documents.

1. Form D for Central Sales tax/IIID for Orissa commercial Taxes.

COST OF TENDER IS RS.1500/- (NON REFUNDABLE).

This is payable in cash or Demand Draft of a scheduled Bank in favour of Finance Officer, National Institute of Science Education and Research, Bhubaneswar.



PART - 1
TERMS & CONDITIONS
FOR SUPPLY AND INSTALLATION
OF
CHEMISTRY LAB EQUIPMENTS
FOR
NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, BHUBANESWAR

1. Director, National Institute of Science Education & Research, Bhubaneswar (NISER) invites sealed tenders for Chemistry lab equipments from the manufacturer and their authorised reseller only having following credentials.

A. Should have satisfactorily completed **similar supply** (at least one of them in Central Government/Central Autonomous Body/Central PSU)

B. Similar or Similar Nature of work means Supply & Installation of above mentioned items for any of the following :

a) **Government/Autonomous Institutions**

b) **Government Research Centres**

c) **Universities**

d) **Autonomous/Reputed Private Research Centres**

E) Purchase Orders / Completion certificates if any, for supporting above requirements.

2. The Bidders are requested to give detailed tender in the prescribed forms in two Bids i.e. Part - I Technical Bid.

Part - II Commercial Bid.

3. **Contact for information:** (Only E-mail enquiries will be entertained)

For Technical Information of Chemistry Lab Equipments:

Dr. Jogendra Nath Behera

School of Chemical Sciences, NISER.

E-Mail – jnbehera@niser.ac.in

Dr. Arun Kumar for Electrochemical Workstation

School of Chemical Sciences, NISER.

E-Mail – akumar@niser.ac.in

For Information regarding Commercial & all other Terms & Conditions:

Deepak Srivastava

Stores & Purchase Officer

National Institute of Science Education & Research, Bhubaneswar

E-Mail-dsrivastava@niser.ac.in

4. Supply means:

“Supply, Installation, Commissioning and satisfactory demonstration of the whole equipments”.

If any charges extra are payable for Installation and Commissioning, the same should be specified in the commercial offer.

5. Submission of Bids:

(a) Place: Office of Stores & Purchase Officer, NISER, Bhubaneswar.

- (b) Time and Date of Submission: up to **05.30 PM on 27.11.2013**
(c) Time and Date of opening Technical Bid: At **3.30 P.M on 28.11.2013**

NISER will not be responsible, for submission / delivery of quotation at wrong places other than the Office of Stores & Purchase Officer, NISER, Bhubaneswar.

6. Two Bid System: -

The two bid system should be followed for this tender. In this system the bidder must submit his offer in two separate sealed envelopes. Both the technical bid and commercial bid envelopes should be securely sealed and stamped separately for each quoted equipment and clearly marked as “Envelope No.1 – Technical Bid” and “Envelope No.2 – Commercial Bid” respectively. Both the sealed envelopes should be placed in a third larger envelope. The main envelope which will contain both the bids should be super scribed with our tender enquiry No.**NIT-13/2013** due on **27.11.2013 with name of the equipment & Department** and to be submitted to the address given below so as to reach on or before **05.30 PM on 27.11.2013. Separate envelope should be used for each item super scribing name of the indent.**

Stores & Purchase Officer,
National Institute of Science Education & Research,
Institute of Physics Campus, Sachivalaya Marg
Bhubaneswar – 751005., India.

The envelopes must be super-scribed with the following information:

- Tender Reference Number
- Name of the Equipment
- Name of the Department
- Due Date
- Name of the Vendor
- Envelope No. 1: Shall contain “Acceptance of Terms & Conditions”, “Technical Bid” and Earnest Money Deposit (EMD)
The technical offer should not contain any price information.
- Envelop No.2: Shall contain financial bid only.

The Technical Bid must be submitted in an organized and structured manner. No brochures/leaflets etc. should be submitted in loose form. Please indicate page nos. on your quotation eg. If the quotation is containing 25 Pages, please indicate as 1/25, 2/25, 3/25 -----25/25.

Printed conditions of the vendor submitted with the tender will not be binding on National Institute of Science Education & Research, Bhubaneswar.

Important Instruction

The parties are requested to make separate bid (technical & financial both) for each quoted equipment along with the requisite amount of EMD.

The Technical Offer should comprise of the following:

- a) Tenders, which are submitted without following the Two-Bid Offer System, will summarily be rejected.
- b) The technical offer should be complete to indicate that all products and services asked for are quoted. Each page of the bid and cutting/corrections shall be duly signed and stamped by the

bidder. Unsigned Tenders will also be rejected. Failure to comply with this requirement may result in the bid being rejected.

- c) The purpose of certain specific conditions is to get or procure best product/service etc. for NISER. The opinion of Technical Committee shall be the guiding factor for technical short listing.
- d) The earnest money deposit as indicated against the item should be enclosed along with the terms & conditions & technical bid duly signed and stamped in the form of Account Payee Bank Draft payable on any branch of Nationalised/Schedule Bank at Bhubaneswar in favour of "Finance Officer, National Institute of Science Education & Research, Bhubaneswar, in a separate sealed envelope. All tenders submitted without requisite amount of earnest money shall be rejected and their technical and financial bids shall not be opened. No interest is payable on EMD. The EMD will be returned to the bidders(s)/Agents whose offer is not accepted by NISER within one month from the date of the placing of the final order(s) on the selected bidder(s). In case of the bidder(s) whose offer is accepted the EMD will be returned on submission of Performance Bank Guarantee (if applicable). However, if the return of EMD is delayed for any reason, no interest /penalty shall be payable to the bidders.

EMD EXEMPTION:

PARTIES REGISTERED WITH SSI/DGS&D/DAE AND FOREIGN PARTIES QUOTING DIRECTLY ARE EXEMPTED FROM PAYING EMD. FOREIGN PARTIES QUOTING DIRECTLY UNDER ORIGINAL SEAL AND SIGNATURE (NOT SCANNED) WILL GET THE EXEMPTION.

The EMD shall be forfeited:

If the bidder withdraws the bid during the period of bid validity specified in the tender. In case a successful bidder fails to furnish the Performance Bank Guarantee (if applicable).

- e) Undertaking that the successful bidder agrees to give a Performance Bank Guaranty of 10% of the purchase order value in favour of "Director, National Institute of Science Education & Research, Bhubaneswar valid till warranty period.

Performance Bank Guarantee:

Within ten (10) days of the award of contract, the vendor shall furnish a Performance Bank Guarantee amounting to 10% of the purchase order value in the form of Bank Guarantee favouring the Director, National Institute of Science Education & Research, Bhubaneswar valid till completion of warranty period.

- f) Duly filled in Technical Bid with proper seal and signature of authorized person on each page of the bid should be submitted and the same should accompany with complete specifications and drawings, Manufacturer's name, address and relevant Technical Literature/Brochures with warranty Terms and EMD.
- g) If the bid is for branded makes, authorization letter from principals clearly indicating that the vendor is the competent authority to sell and provide services towards the items mentioned in the scope of supply given in this tender document.
- h) Copy of LST/CST/WCT No. PAN No. and TIN No. allotted by the concerned authorities.
- i) List of deliverables / Bill of materials and services.
- j) Compliance sheet with any deviation with reference to the terms and specifications.

- k) Indicate the names of the Indian reputed Organizations where you have supplied similar equipment and may attach the satisfactory performance report of the equipment from user Organization.
- l) The item should be supplied with manuals and the manuals including technical drawings should be complete in all respects to operate the system without any problem.
- m) Bid documents should be submitted as per the above sequence with Index page and page numbers (including technical literature). Each page of the bid should be signed & stamped in original. Unsigned bids will not be considered for evaluation.

• **Envelope 2: “Commercial Bid” shall contain:**

- a) Price schedule complete in all respects with proper seal and signature of authorized person. **Tender with any condition including conditional rebate shall be rejected forthwith.**
- b) Cost of all the items should be mentioned clearly and individually in the Commercial Offer (Part-II) only.
- c) **The Bidders are requested to quote for Educational/Institutional Price for Machine/ Equipment and, since we are eligible for the same.**
- d) **Printed conditions of the vendor submitted with the tender will not be binding on NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH.**

7. Date of opening the Technical Bids.

Technical Bids will be opened on – **28th November, 2013 at 3.30 P.M** at office of the Stores & Purchase Officer, National Institute of Science Education & Research, Bhubaneswar.

The Technical bids will be opened in the presence of the bidders on the specified time and date. Bidders/Agents who have responded to the tender only will be allowed to be present.

The technical bids will be evaluated to shortlist the eligible bidders. The commercial bids of only the short listed bidders shall be considered for further processing. Bidders whose technical offer is found acceptable and meeting the eligibility requirements as specified in this tender will be informed about the date and time of the opening of the commercial bid.

Note: (1) Please do not insert ‘Commercial Bid’ (prices quoted) in the technical bid envelope. If the price quoted is submitted with technical bid the tender will be rejected.

(2) No camera mobiles / mobiles are allowed during tender opening.

8. Opening of Commercial Bids

NISER will open commercial bids of only the short listed bidders, in the presence of the bidders or their authorized representatives who choose to attend the commercial bid opening. The Date and Time of opening the Commercial Bid will be intimated only to pre-qualified and technically acceptable Bidders for the item at a later date.

The representatives of short listed firms only will be allowed for commercial bid opening.

ONLY TECHNICALLY accepted competitive bids will be considered for placing Purchase Order. The commercial offers of the vendors whose technical offers are found to be technically deficient or do not meet the qualification criteria as specified in this tender will be returned to them without opening.

The bid can be submitted in person or through post/courier (NISER will not be responsible for delayed / late quotations submitted / sent by Post / Courier etc. resulting in disqualification/ rejection of any bid) so as to reach NISER on or before the due date and time. Fax / E-mail / Telegraphic / Telex tenders will not be considered unless it is asked for. The bidders 'authorized representative can attend the bid opening.

9. The Director NISER reserves the right to accept the offer in full or in parts or reject summarily or partly.

10. Delivery Period / Timeliness

The deliveries, installation must be completed within 120-180 days, after placement of purchase order. The time is the essence of the contract. It is mandatory for the bidders who respond to this bid to meet these expectations, as they are tightly linked to NISER's plans of completing the project within the time frame.

11. Locations for the Supply / Services

The Laboratory Equipments covered by this document is required to be supplied and installed at School of Chemical Sciences of NISER, Bhubaneswar. Tender has to give under taking that **he will shift & reinstall the equipment supplied by him at our new campus at Jatni free of cost.**

12. Order Placement and Release of Payment

The Purchase Order and payment shall be processed by –

Stores & Purchase Officer

National Institute of Science Education & Research, Bhubaneswar,

Institute of Physics Campus,

Sachivalaya Marg,

Bhubaneswar-751005, India.

Payment for the items to be supplied by the vendor against the purchase order shall be made by National Institute of Science Education & Research as follows:-

80% payment will be made after 100% delivery of the material on submission of original invoice and original delivery challans duly signed and stamped by the authorised representative of NISER along with performance Bank Guarantee.

Balance 20% payment will be released on submission of installation and warranty certificate duly signed and stamped by the authorized representative of the user department.

In case of imports 100% payment will be made through Letter of Credit. 80% will be paid after submission original shipping documents & balance 20% will be released after satisfactory installation and commissioning along with submission of performance Bank Guarantee.

Agency Commission: Agency Commission to be paid to India Agent should be specified separately and same will be paid in INR.

The tenderers who are not agreeing to above payment terms are requested not to submit their tender otherwise their EMD will be forfeited.

13. NISER will not provide any accommodation/transportation for the engineers/ representatives for attending installation, commissioning and demonstration work. It is the absolute responsibility of the Principal Supplier/Indian Agent to make there own arrangements.

14. The successful bidder, on award of contract / order, must send the contract / order acceptance in writing, within 7 days of award of contract / order failing which the EMD will be forfeited.

15 Period of validity of bids

Bids shall be valid for a period of 90 days from the date of opening the Technical bid.

NISER may ask for the bidder's consent to extend the period of validity. Such request and the response shall be made in writing only. The bidder is free not to accept such request without forfeiting the EMD. A bidder agreeing to the request for extension will not be permitted to modify his bid.

Bid evaluation will be based on the bid prices without taking into consideration the above corrections.

16. AWARD OF CONTRACT

NISER shall award the contract to the eligible bidder whose bid has been determined as the lowest evaluated commercial bid. If more than one bidder happens to quote the same lowest price, NISER reserves the right to award the contract to more than one bidder or any bidder.

Purchaser's Right to vary Quantities at the time of Award: NISER reserves the right at the time of award of Contract to increase or decrease the quantity of items specified in the Schedule of Requirements without any change in price or other terms and conditions.

17. Corrupt or Fraudulent Practices

NISER requires that the bidders who wish to bid for this project have highest standards of ethics. NISER will reject a bid if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices while competing for this contract. NISER may declare a vendor ineligible, either indefinitely or for a stated duration, to be awarded a contract if it at any time determines that the vendor has engaged in corrupt and fraudulent practices during the execution of contract.

18. Interpretation of the clauses in the Tender Document / Contract Document

In case of any ambiguity / dispute in the interpretation of any of the clauses in this Tender Document, Director, NISER's interpretation of the clauses shall be final and binding on all parties.

19. Price

The price quoted shall be considered firm and no price escalation will be permitted at any time. The quotation should be in Indian Rupees or any known foreign currency. Packing, forwarding, freight, insurance, **Agency commission** and commissioning charges, if any extra may be quoted separately in Commercial Bid.

In case of INR bids the price criteria should be on F.O.R., NISER, Bhubaneswar. Govt. Levies like central excise duty, sales tax, octroi, WCT etc., if any, shall be paid at actual rates applicable on the date of delivery. Rates should be quoted accordingly giving the basic price, Central Excise Duty, VAT/ Central Sales Tax etc., if any. Please note that NISER is exempted from payment of Excise duty vide Govt. Notification No.10/97-Central Excise dated 1st March, 1997.

Please provide TIN no. of the firm along with the CST/WCT No. allotted by the concerned authorities in your quotation.

In case of Foreign Currency bid : - Price criteria should be CIP Kolkata airport detail break up of Price, FCA cost, **Agency Commission**, Insurance, Freight up to Kolkata Airport is required.

Indian Agents-Offices of foreign supplier who are quoting on behalf of their suppliers has to arrange the clearance of Goods from the Kolkata Airport after paying duty (Exempted duty) and other taxes, which will be reimbursed after submission of original receipt of Bill of Entry, Exchange Control Copy, TR6 Challan & Entry Tax.

20. Pre-installation:

Pre-installation facilities required for installation may please be intimated in the technical bid. Subsequently, before the consignment lands in NISER, Bhubaneswar the bidder shall confirm that the pre-installation requirements are sufficient for installation of the equipments. In other words

the bidder should continuously monitor the pre-installation requirements and see that everything is ready before the consignment is taken to the site for installation.

21. Installation

Bidder shall be responsible for installation / demonstration wherever applicable and for after sales service during the warranty and thereafter.

22. Warranty / Support

The items covered by the schedule of requirement shall carry minimum three years & additional two years of comprehensive warranty from the date of acceptance of the equipments by NISER. Warranty shall include free maintenance of the whole equipment supplied including free replacement of parts. The defects, if any, shall be attended to on immediate basis but in no case any defect should prolong for more than 24 hours. The comprehensive warranty includes onsite warranty with parts.

The defects, if any, during the guarantee/warranty period are to be rectified free of charge by arranging free replacement wherever necessary. This includes cost, insurance, freight, custom duty, octroi, local taxes if any should be borne by the beneficiary or his agent. A clear confirmation should be given for this item.

The bidder shall assure the supply of spare parts after warranty is over for maintenance of the equipment supplied if and when required for a period of 10 years from the date of supply of equipment on payment on approved price list basis.

The equipment must be supported by a Service Centre manned by the principal vendor's technical support engineers. The support through this Centre must be available 24 hours in a day, seven days a week and 365 days a year. Also it should be possible to contract the Principal's vendor support Centre on a toll free number/web/mail.

The vendor will have to arrange for all the testing equipment & tools required for installation, testing & maintenance etc.

23. Indemnity

The vendor shall indemnify, protect and save NISER against all claims, losses, costs, damages, expenses, action suits and other proceeding, resulting from infringement of any law pertaining to patent, trademarks, copyrights etc. or such other statutory infringements in respect of all the equipment's supplied by him.

The successful will be fully responsible for payment of wages and other dues as prescribed and compliance of various Labour Laws.

The successful tender should give an undertaking that the staff deployed at the centre in terms of this contract at all time will be employees of the agency exclusively and they shall not be entitled to any claim of employment or permanency of job with NISER.

NISER reserves the right to forfeit whole or part of the security money towards any damage/lose caused due to the negligence on the part of the agency engaged.

24. Insurance

The equipment's to be supplied will be insured by the vendor against all risks of loss or damage from the date of shipment till such time it is delivered at NISER site in case of Rupee/Foreign currency transaction.

25. Penalty for delayed Services / LD

As time is the essence of the contract, Delivery period mentioned in the Purchase Order should be strictly adhered to. Otherwise the bidder will forfeit EMD/SD and also LD clause will be applicable /enforced.

If the supplier fails to Supply, Install and Commission the equipment as per specifications mentioned in the order within the due date, the Supplier is liable to pay liquidated damages of 1% of order value per every week of delay subject to a maximum of 10% beyond the due date. Such money will be deducted from any amount due or which may become due to the supplier.

NISER reserves the right to cancel the order in case the delay is more than 30 days Penalties, if any, will be deducted from the EMD.

26. Jurisdiction

If a dispute arises out of or in connection with the contract, or in respect of any defined legal relationship associated therewith or derived therefrom, the parties agree to submit that dispute to arbitration under the ICADR Arbitration Rules, 1996.

The authority to appoint the arbitrator(S) shall be the International Centre for alternative dispute resolution.

The International Centre for Alternative Dispute Resolution will provide administrative services in accordance with the ICADR arbitration Rules, 1996.

**Stores & Purchase Officer
NISER, Bhubaneswar**

DECLARATION BY THE VENDOR

It is hereby declared that I/We the undersigned, have read and examined all the terms and conditions etc. of the tender document for which I/We have signed and submitted the tender under proper lawful Power of Attorney. It is also certified that all the terms and conditions of the tender document are fully acceptable to me/us and I/We will abide by the conditions from serial no. 1 to 26 and we have not given any printed conditions beyond the scope of this tender. This is also certified that I/We/our principal manufacturing firm have no objection in signing the purchase contract if the opportunity for the supply of the items against this tender is given to me/us.

Date:

Signature:

Address:

Name:

Designation:

On behalf of:

(Company Seal



PART - 1
FOR SUPPLY AND INSTALLATION OF
CHEMISTRY LAB EQUIPMENTS
FOR
NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, BHUBANESWAR

General Information

1.	Name of the Company	
2.	Full address of company alongwith Telephone no. Fax no. E-mail address :	
3.	Local address of company for communication, if any	
4.	Are you a manufacturer or dealer/reseller	
5.(a)	Annual turn over in last 3 financial years in Rs. Crores. (i) Year 2009-2010 (ii) Year 2010-2011 (iii) Year 2011-2012	
5.(b)	Supply & Installation of equivalent to our tendered OF CHEMISTRY LAB EQUIPMENTS last 3 financial years in State Government or Govt. of India Department(s) /Reputed Organisation(s) (in Nos. and Value) (Please attach list of clients) (iii) Year 2010-2011 (iv) Year 2011-2012 (iii) Year 2012-2013	
5.(c)	Trade Tax / Sales Tax Registration no. with Place	
5.(d)	Income Tax Registration no. with place	



**SUPPLY AND INSTALLATION
OF
THERMOGRAVIMETRIC ANALYSER (TGA) WITH ACCESSORIES
FOR
NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, BHUBANESWAR
TECHNICAL SPECIFICATION**

S. No.	Item Specification	Offered specification with Make & Model No. please specify any deviation if any. Please attach separate sheet if required
(1)	(2)	(3)
01	<p>THERMOGRAVIMETRIC ANALYSER (TGA) WITH ACCESSORIES (NC-53-13-14)</p> <p>Technical Specifications:</p> <ol style="list-style-type: none"> 1. Temperature Range: Ambient to 1200°C or more 2. Furnace warranty to 1200°C or more 3. Heating rates from 0.1 to 100°C/min in 0.01°C/min increments (ambient to 1200°C) Temperature Accuracy: $\pm 1^\circ\text{C}$ 4. Cooling time : < 15 min 5. Movement of Furnace should be software controlled 6. Auto sampling: Automatic sample changer can hold the sample over the whole temperature range and should be software controlled 7. Balance: Exceptional weighing accuracy, should have auto calibration facility 8. Balance load: 1g and may be upgraded to 5g 9. Sensitivity: 0.1 μg. 10. Weighing precision: $\pm 0.01\%$ 11. Balance assembly should have thermostating capability to minimize isothermal drift 12. Gas Controller: Automatic switching for gas flow The system should have flexibility to purge various various inert gases (Helium, Argon, and Nitrogen) and various non explosive gasifying agents such as, air, CO₂, O₂ and the mixture of inert and non explosive gases in desired proportion should be introduced into the system in measured amount. A high precision mixture capable of mixing inert and non-explosive gases in desired proportion with digital display arrangement should be there. Gas flow should be controlled by very good quality MFC (flow rate from 10-200 ml/min). 	

	<p>System should be vacuum controlled (10^{-2} mbar) with fast switchover facilities for different gaseous atmosphere in the reaction chamber without affecting the balance</p> <p>13. Should be fitted with FTIR or to a Mass Spectrometer and shall accommodate a heated purge gas outlet to minimize condensation. The relative temperature of the heated outlet must be software controlled.</p> <p>14. Thermal Analysis software should be compatible with Window 7 or higher version & provide necessary TGA information</p> <p>15. Calibration: Instrument should be calibrated properly and the calibration to be checked with std. reference material at user's site (ultra pure Calcium oxalate, to be supplied by vendor minimum 50 Complete calibration kits to be provided.</p> <p>16. The TGA shall include Hi-Res TGA: Advanced heater control technology to optimize weight loss resolution using the following (3) modes.</p> <ol style="list-style-type: none"> 1) Dynamic Heating Rate to automatically and continuously change heating rate as a function of decomposition (sample weight loss). 2) Constant Reaction Rate to automatically and continuously change heating rate to achieve a pre-determined rate of sample decomposition expressed in %/min. 3) Stepwise Isothermal to automatically change from heating to an isothermal hold when pre-selected limits of weight loss in %/min are met. <p>17. A small box</p> <p>17. Installation and training: Installation and commissioning will be done by supplier's engineers at buyer's premises. Training for complete operation of instrument and software to be provided to the concerned scientists/technical persons at buyer's premises for seven days by testing standard reference samples and user's samples free of charge. xi) Common tools and</p>	
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	<p>essential spares (such as each type of O-rings, ferrule, nuts, bolts, wrenches, PTFE/SS gas tube between system and cylinders etc.) necessary for servicing or trouble shooting have to be supplied for a period of three years.</p> <p>18. Suitable computer to run the above TGA system with the following minimum specifications and HP color laser jet printer (to be provided by the supplier).</p> <ul style="list-style-type: none"> (i) Minimum specification of the computer (Sony/Dell/HP) (ii) Processor : Intel Core i5 (2.66 GHz 3 MB) or more (iii) Operating System : Genuine Windows 7 Professional 64 Bit English version (iv) Chipset : Intel (v) Total memory : 6GB DDR3 (expandable up to 8 GB X 3) (vi) Hard drive device : 1TB (vii) Optical device : DVD recordable (dual layer) (viii) Interface : USB port 3 or more, HDMI out put (ix) Body : High durable and light weight carbon fibre body (x) Others : Blue tooth laser mouse and key board <p>19. Warranty: The supplier must warrant the goods supplied are new, unused and incorporate all recent improvements in design, materials as per specifications. It should be 36 months warranty after installation and commissioning of equipment at NISER. The warranty offered shall be unconditional and the suppliers should agree to replace or repair the equipment his cost. The spare parts for the warranty repair have to be provided by the supplier free of charge during warranty period including transit charges.</p> <p>20. AMC: An undertaking shall be given for provision of after-sales service and spares (with price) for a minimum period of 5 years after warranty. Cost of AMC for 4th and 5th year after 3 year warranty should also be indicated separately.</p> <p>General points:</p> <ol style="list-style-type: none"> 1. Supply should include all necessary items such as electrical cables, gas cylinders (N₂, Ar, O₂, Air each) with gases and regulators, gas connectors, cooling 	
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	<p>accessories, moisture traps, filters, suitable platform for placing the equipment etc.,</p> <ol style="list-style-type: none"> 2. List of consumables which includes 120 Nos of sample holders/crucibles/pans 3. An isothermperature vacuum oven of chamber size 12D x 10W x 10”H of capacity 1 cu. ft. may be quoted separately. 4. Power Supply and UPS: 220-240 V, single phase and 50 Hz compatible with Indian condition. 5. Minimum of 10 kVA (or suitable capacity) online UPS of reputed brand with at least one hour back up shall be provided. 6. Any accessories must be needed for operating the equipment but not mentioned in the specification shall be quoted by the vendor. 	
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Note: - Parties must mention make & model no. of the equipment offered by them, with detailed specification (on separate sheet). Otherwise their tender will not be accepted.



**FINANCIAL BID
FOR SUPPLY AND INSTALLATION
OF
THERMOGRAVIMETRIC ANALYSER (TGA) WITH ACCESSORIES
FOR
NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH,
BHUBANESWAR**

Sl. No.	Systems	Approx. Qty.	Unit Price FOB in Foreign currency	Unit Price including all taxes, freight and Insurance (delivered at NISER, Bhubaneswar service charges, installation and warranty charges in INR
(1)	(2)	(3)	(4)	(5)
01	THERMOGRAVIMETRIC ANALYSER (TGA) WITH ACCESSORIES (NC-53-13-14) (DETAILED SPECIFICATION AS PER OUR TECHNICAL BID)	01 Unit		
2.	Above item should carry three years onsite comprehensive warranty. In case the tendered provide warranty less than 03 years then he has to give justification for lesser period of warranty. Without justification his tender is liable to be rejected.			
3.	Agency Commission to be paid to Indian Agent (will be paid in INR only after successful installation)	Included/Excluded _____ . _____ % of basic price		
5	CIP Kolkata Charges Included/Excluded in the quoted price	Amount		
6	Excise Duty Included/Excluded in the quoted price	_____ . _____ % of basic price (Excise duty exemption certificate will be issued)		
7	Custom Duty Included/Excluded in quoted price	_____ . _____ % of basic price (Custom Duty exemption certificate will be issued)		
9	Any other charges Included/Excluded in the quoted price (i) Trade tax/Sales tax (Institute will not issue any Sales Tax concession form) (ii) Any other levies	_____ . _____ % of (basic price + excise duty) _____ . _____ %		
10	Additional 02 years Warranty/AMC Charges	Amount		

ALL ABOVE ITEMS ON 3 YEARS & ADDITIONAL 2 YEARS ONSITE FULL COMPREHENSIVE FREE WARRANTY.

Date:
Address:

Signature:
Name:
Designation:
On behalf of:

(Company Seal)



**SUPPLY AND INSTALLATION
OF
DIFFERENTIAL SCANNING CALORIMETER (DSC) SYSTEM WITH
ACCESSORIES
FOR
NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, BHUBANESWAR
TECHNICAL SPECIFICATION**

S. No.	Item Specification	Offered specification with Make & Model No. please specify any deviation if any. Please attach separate sheet if required
(1)	(2)	(3)
01	DIFFERENTIAL SCANNING CALORIMETER (DSC) SYSTEM WITH ACCESSORIES (NC-53-13-14)	
	<p><u>Technical Specifications:</u></p> <ol style="list-style-type: none"> 1. Temperature range: -150 to 700°C 2. Heating Rate: 1°C/min to 100 °C/min 3. Cooling Rate: 1°C/min to 100 °C/min 4. Temperature Accuracy: ± 0.01 °C or better 5. Temperature Precision: 0.05 °C or better 6. Calorimetric precision (based on metal standard): 0.5 % or better 7. Temperature Calibration: 4 points or more over the specified temperature range 8. Measurement atmosphere: Inert gas or oxidative 9. Gas flow connections and controller: Digital mass flow controller with automated gas switching, control of flow rates and setting of flow rates through software. Necessary gas cylinders, regulators and the plumbing line from gas cylinders to DSC should be provided by the vendor A. 10Ltr. Liquid Nitrogen Container 10. Moisture trap and filter should be provided along with the Instrument 11. All tubing, fitting for cooling system, liquid nitrogen container and necessary electrical connections should be provided by the vendor. 12. Sample sealing press should be provided 13. Base line stability: Extremely flat and with reproducibility of less than 1mW 14. Software: Operating software and analysis software shall be user friendly and shall be running on windows 7 version. 	

	<p>(i) Analysis software shall have provision to smoothen, to evaluate peak temp, onset temp, glass transition temp, melting temp, % crystallinity, purity, crystallization temp, activation energy, kinetic studies, heat capacity, second and higher derivative blank curve subtraction, normalization, X-scaling with respect to time, temperature, choice of different baselines for interpretation etc., Provision to view total heat flow, modulated heat flow and total heat capacity signals in real-time during the experiment shall be included in the software.</p> <p>(ii) Software for kinetics studies for single and multiple steps through non linear regression analysis, measuring the specific heat capacity and possible correction software for correcting instrumental errors.</p> <p>(iii) Operating software should control mass flow controllers and should have capability to collect data during cooling curve analysis.</p> <p>(iv) The data analysis software should be unkeyed or multi-user licensed, to allow installation at minimum 3 PCs.</p> <p>(v) Universal application range (ASCII files import/export, word/excel compatibility, pdf formats)</p> <p>15. Suitable computer to run the above DSC system and HP color laser jet printer (to be provided by the supplier).</p> <p>16. Warranty: The supplier must warrant the goods supplied are new, unused and incorporate all recent improvements in design, materials as per specifications. It should be 36 months warranty after installation and commissioning of equipment at NISER. The warranty offered shall be unconditional and the suppliers should agree to replace or repair the equipment his cost. The spare parts for the warranty repair have to be provided by the supplier free of charge during warranty period including transit charges.</p> <p>17. An analytical balance for taking sample weight with very high accuracy (five digit number).</p>	
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	<p>18. AMC: An undertaking shall be given for provision of after-sales service and spares (with price) for a minimum period of 5 years after warranty. Cost of AMC for 4th and 5th year after 3 year warranty should also be indicated separately.</p> <p>General points:</p> <ol style="list-style-type: none"> 1. Supply should include all necessary items such as electrical cables, gas connectors, gas cylinders with gases like nitrogen, argon, helium and oxygen) and regulators, cooling accessories, Liquid nitrogen container, moisture traps, filters, suitable platform for placing the equipment etc., 2. List of consumables which includes 1000 Nos of Hermetic aluminium pans (size 45µL) with lids, 500 Nos. of non hermetic pans. 3. Power Supply and UPS: 220-240 V, single phase and 50 Hz compatible with Indian condition. Minimum of 10 kVA (or suitable capacity) online UPS of reputed brand with one hour back up shall be provided. 4. Any accessories must be needed for operating the equipment but not mentioned in the specification shall be quoted by the vendor. 	
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Note: - Parties must mention make & model no. of the equipment offered by them, with detailed specification (on separate sheet). Otherwise their tender will not be accepted.



**FINANCIAL BID
FOR SUPPLY AND INSTALLATION
OF
DIFFERENTIAL SCANNING CALORIMETER (DSC) SYSTEM WITH
ACCESSORIES
FOR
NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH,
BHUBANESWAR**

Sl. No.	Systems	Approx. Qty.	Unit Price FOB in Foreign currency	Unit Price including all taxes, freight and Insurance (delivered at NISER, Bhubaneswar service charges, installation and warranty charges in INR)
(1)	(2)	(3)	(4)	(5)
01	DIFFERENTIAL SCANNING CALORIMETER (DSC) SYSTEM WITH ACCESSORIES (NC-53-13-14) (DETAILED SPECIFICATION AS PER OUR TECHNICAL BID)	01 Unit		
2.	Above item should carry three years onsite comprehensive warranty. In case the tendered provide warranty less than 03 years then he has to give justification for lesser period of warranty. Without justification his tender is liable to be rejected.			
3.	Agency Commission to be paid to Indian Agent (will be paid in INR only after successful installation)	Included/Excluded _____% of basic price		
5	CIP Kolkata Charges Included/Excluded in the quoted price	Amount		
6	Excise Duty Included/Excluded in the quoted price	_____ . _____% of basic price (Excise duty exemption certificate will be issued)		
7	Custom Duty Included/Excluded in quoted price	_____ . _____% of basic price (Custom Duty exemption certificate will be issued)		
9	Any other charges Included/Excluded in the quoted price (i) Trade tax/Sales tax (Institute will not issue any Sales Tax concession form) (ii) Any other levies	_____ . _____% of (basic price + excise duty) _____ . _____%		
10	Additional 02 years Warranty/AMC Charges	Amount		

ALL ABOVE ITEMS ON 3 YEARS & ADDITIONAL 2 YEARS ONSITE FULL COMPREHENSIVE FREE WARRANTY.

Date:
Address:

Signature:
Name:
Designation:
On behalf of:

(Company Seal)



**SUPPLY AND INSTALLATION
OF
FLASH VACUUM SETUP AND ACCESSORIES
FOR
NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, BHUBANESWAR
TECHNICAL SPECIFICATION**

S. No.	Item Specification	Offered specification with Make & Model No. please specify any deviation if any. Please attach separate sheet if required
(1)	(2)	(3)
01	FLASH VACUUM SETUP AND ACCESSORIES (RD-NC-13-13-14)	
	<p><u>Technical Specifications:</u></p> <p>1. Three zone quartz tube furnace with anticorrosive vacuum gauges</p> <p>Max heating temperature: 1200°C Normal working temperature: 100~1100°C Max heating & cooling rate: 20°C/min</p> <p>Temperature control: PID automatic control with 30 programmable segments for precise control of heating rate, cooling rate and dwell time. Built in overheating & broken thermocouple broken protection. Over temperature protection and alarm allows for operation without attendant(s). +/- 1 °C temperature accuracy. Suitable Communications Port. This furnace system also includes an anti-corrosive Capacitance Diaphragm Gauge to enable vacuum measurements with aggressive gases. Quartz Tube Size: <u>800Dx 72IDx 1400L mm</u> Heating Zone Length: Three zones: 900mm (36") in total Warranty: Three year warranty with lifetime support. Single Phase, 220V AC, 50/60 Hz The following optional items should be included in the quote. SS vacuum flange with O-rings Fused quartz tube Alumina fiber foam tube block Hook for moving the sample and Metric Hex-wrenches</p>	

2. Two zone split tube furnace with quartz tube and vacuum flanges

Max heating temperature: 1200°C
Normal working temperature: 100~1100°C
Max heating & cooling rate: 20°C/min
Temperature Accuracy: +/- 1°C Constant Temp.
Zone: 150mm (+/-1°C) for each heating zone; A longer constant temperature zone (about 250mm) can be created by setting both zones at the same temperature
Temperature Controllers: Certified digital controller with 30 programmable segments for precise control of heating rate, cooling rate and dwell time Built in PID Auto-Tune function with overheating & broken thermocouple protection
Over temperature protection and alarm allows for operation without attendant Two K type thermocouples (one for each zone).
Communications Port. Heating Element: Fe-Cr-Al Alloy doped by Mo
Furnace should includes one 3.15" O.D x 3" I.D x 40" L fused quartz tube with vacuum flanges and valves

Furnace structure: Double layer steel case with two cooling fans, which ensure low surface temperature, Energy saving high purity fibrous alumina liner and insulation, High purity Al2O3 coating which provides a longer service life

Quartz Tube Size: 3.15"Dia. x 2.83" I.D x 40"L fused quartz tube (80 OD x 72 ID x 1000L mm)

3. Heavy duty Vacuum pump with oil trap and Accessories

Pumping rate : 120 liter/m
Maximum Pressure : 4×10^{-4} torr
Power (HP) : 1/2HP 375W
Volume of Oil (ml) : 1000; should be included
Working Temperature: -5 ~ 60 °C
Voltage / Frequency : 220V 50 Hz
Exhaust filter : One Exhaust filter should be installed to

- Eliminates Pump Oil Fumes
- Returns Used Oil to Vacuum Pump
- Traps Particles to 0.3 microns
- Replaceable Coalescing Element

Vacuum port: standard inlet port

Vacuum Trap and Bellow: One stainless steel Oil

	<p><u>Trapping Sphere, clamp, O ring, Hose connector and Stainless Steel Vacuum Pipe with Adapter - 1 Meter should be included</u></p> <p><i>One additional set of Flexible Stainless Steel Vacuum Hose (Bellows), 1 meter and clamp should be included.</i></p> <p>4. Gas Cylinders (Argon and oxygen) and regulators</p> <p>Argon cylinder, gas and regulator: cylinder capacity 47 Liters W.C.C.S. Cylinder contains 7m³ of gas having a pressure of 130-140Kg/cm² with purity 99.999%. Double stage SS regulator with diffusion resistance. Inlet pressure gauge 280 Kg/cm² Outlet pressure gauge 0-10 Kg/cm² with bole nose connection.</p> <p>Oxygen cylinder, gas and regulator: Oxygen cylinder capacity 47 Liters W.C.C.S. Cylinder contains 7m³ of gas having a pressure of 130-140Kg/cm² with purity 99.99%. Double stage SS regulator with diffusion resistance. Inlet pressure gauge 280 Kg/cm² Outlet pressure gauge 0-10 Kg/cm² with bole nose connection.</p> <p>5. Scientific Programmable oven</p> <p>Temperature range 50 -300 °C with temperature uniformity +/- 2°C Forced-air correction with digital display and programmable Corrosion-resistant stainless steel interior with three racs.</p> <p>Durable long lasting and low-density heating elements. Chamber dimension 18 x 18 x 18”</p> <p>Any accessories must be needed for operating the equipment but not mentioned in the specification shall be quoted by the vendor.</p>	
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Note: - Parties must mention make & model no. of the equipment offered by them, with detailed specification (on separate sheet). Otherwise their tender will not be accepted.



**FINANCIAL BID
FOR SUPPLY AND INSTALLATION
OF
FLASH VACUUM SETUP AND ACCESSORIES
FOR
NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH,
BHUBANESWAR**

Sl. No.	Systems	Approx. Qty.	Unit Price FOB in Foreign currency	Unit Price including all taxes, freight and Insurance (delivered at NISER, Bhubaneswar service charges, installation and warranty charges in INR
(1)	(2)	(3)	(4)	(5)
01	FLASH VACUUM SETUP AND ACCESSORIES (RD-NC-13-13-14) (DETAILED SPECIFICATION AS PER OUR TECHNICAL BID)	01 Unit		
2.	Above item should carry three years onsite comprehensive warranty. In case the tendered provide warranty less than 03 years then he has to give justification for lesser period of warranty. Without justification his tender is liable to be rejected.			
3.	Agency Commission to be paid to Indian Agent (will be paid in INR only after successful installation)	Included/Excluded _____% of basic price		
5	CIP Kolkata Charges Included/Excluded in the quoted price	Amount		
6	Excise Duty Included/Excluded in the quoted price	_____ . _____% of basic price (Excise duty exemption certificate will be issued)		
7	Custom Duty Included/Excluded in quoted price	_____ . _____% of basic price (Custom Duty exemption certificate will be issued)		
9	Any other charges Included/Excluded in the quoted price (i) Trade tax/Sales tax (Institute will not issue any Sales Tax concession form) (ii) Any other levies	_____ . _____% of (basic price + excise duty) _____ . _____%		
10	Additional 02 years Warranty/AMC Charges	Amount		

ALL ABOVE ITEMS ON 3 YEARS & ADDITIONAL 2 YEARS ONSITE FULL COMPREHENSIVE FREE WARRANTY.

Date:
Address:

Signature:
Name:
Designation:
On behalf of:

(Company Seal)



**SUPPLY AND INSTALLATION
OF
ELECTROCHEMICAL WORKSTATION
FOR
NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, BHUBANESWAR
TECHNICAL SPECIFICATION**

S. No.	Item Specification	Offered specification with Make & Model No. please specify any deviation if any. Please attach separate sheet if required
(1)	(2)	(3)
01	ELECTROCHEMICAL WORKSTATION – (NC-50-13-14)	
	<p><u>Technical Specification</u> Compliance voltage : ± 30 V or better at ± 2 A Maximum Output Current : ± 2 A or better at ± 30 V Output Voltage Range : ± 10 V Current Ranges smallest current range: ± 10 nA to current range 1A in multiple ranges Resolution of applied potential : $160 \mu\text{V}$ Resolution of measured potential : $0.4 \mu\text{V}$ Accuracy of applied current : ± 0.2 % of the current range Measured current resolution : 40 fA on 10 nA full scale range Potentiostat Rise/fall Time : 250 ns or lower Gain bandwidth range of amplifier : 1 MHz Bandwidth of electrometer : > 4 MHz Interface: USB interface for connection with PC Input bias current : < 1 pA Frequency Range of EIS Module : $10 \mu\text{Hz}$ to 30 MHz Input Impedance of electrometer : $> 1 \text{T} \Omega // 8 \text{ pF}$ Input ac amplitude : 0.5 mV to 300 mV rms or better System should be supplied with software for control of PGStat, data acquisition and data analysis.</p> <p>EIS Module: Hardware and software for EIS measurements in potentiostatic and galvanostatic control. Apart from the classical EIS, it should be possible to modulate other outside signals such as rotation speed of a rotating disk electrode or the intensity of a light source to perform Electro-hydrodynamic or Photo-modulated impedance spectroscopy. It should be supplied with powerful fit and simulation software for the analysis of impedance data. Frequency range of the hardware should be $10 \mu\text{Hz}$ - 30 MHz, Frequency range in combination with Potentiostat Galvanostat should be $10 \mu\text{Hz}$ - 1 MHz. Frequency</p>	

resolution 0.003%, Input range ± 10 V, Signal types 1 sine, 5 sine, 15 sine, Input channels E and I from the potentiostat/galvanostat or X and Y as external signals, AC amplitude 0.25 mV to 0.30 V_{rms} in potentiostatic mode, extendable to 3 mV to 3.2 V_{rms} and 0.0002 - 0.3 times current range in galvanostatic mode. Software should have different plot formats for data presentation viz: Nyquist, Bode, Admittance, Dielectric, Mott-Schottky. Software should have variety of data analysis tools such as Fit and Simulation, Find circle, Element subtraction, Kramers-Kronig.

Rotating Disc Electrode for Reaction Kinetics Studies:

Specifications: Speed control Manual and software, Motor speed range 150 - 9,000 RPM, Manual speed setting 150 - 9,000 RPM RPM in 1 RPM steps, Acceleration/deceleration 3,800 RPM/s, Maximum current 450 mA, Contact Sealed Hg pool, Electrode tips (10 mm \varnothing) 3 mm Active area in Au, Pt and empty for customer's material.

Electrochemistry Cell for RDE:

It should consist of the following: 400 mL Glass cell 1no, Pt wire Counter electrode 1 mm dia 5 mm length 1 no, Ag/AgCl double junction reference electrode 1 no, Suitable Lid for the cell and purge tube with valve.

Electrochemistry Cell:

It should consist of the following: 50 mL Glass cell 1no, 3mm diameter Pt disc working electrode 1no, Pt wire Counter electrode 1 mm dia 5 mm length 1 no, Ag/AgCl reference electrode (Aqueous) & Ag/AgCl reference electrode (Non-Aqueous) 1 no each
Suitable Lid for the cell and purge tube with valve.

Cell for Photo-electrochemical Measurement

Cell for Photo-electrochemical Measurements with 15 mm dia quartz window, 15 mm dia ITO Coated Glass Plate Pt Wire Counter electrode 40mm long 1mm diameter, Ag/AgCl reference electrode.

DSSC:

Kit to assemble at least 10 DSSCs with active area of 6 mm x 6 mm complete with titania and platinum electrodes, gaskets, cell body, caps, glass, ruthenizer dye, electrolyte and other allied chemicals

Accessories for Photo-modulated Impedance Measurements on Solar Photovoltaic Devices

Photo Kit consisting of the following articles

Optical bench, calibrated photodiode holder, LED cover holder, LED cover red (627 nm), cables, installation manual. Red LED, 627 nm, 306 lm, 700 mA max. current, Red-Orange LED, 617 nm, 366 lm, 700 mA max. current, Amber LED, 590 nm, 396 lm, 700 mA max.

<p>current, Green LED, 530 nm, 390 lm, 700 mA max. current, Cyan LED, 505 nm, 360 lm, 700 mA max. current, Blue LED, 470 nm, 174 lm, 700 mA max. current, LED cover holder, Calibrated photodiode holder, with calibration certificate</p> <p>Swagelok Cell for Battery Testing Full Stainless steel and Electrolyte corrosive-proof body, electrolyte corrosive-proof O-rings, assembling using cap mounting screws. Other allied components. It should allow testing the cycling behavior and the structural changes of electrode easily.</p> <p>MEA Assembly: Should be supplied complete with heater, temperature controller and fixture for EIS measurements on different membrane samples,</p> <p>Computer & Printer: 2KVA UPS, A suitable branded Computer like Dell or Compaq or equivalent for system control & data acquisition should be offered with the system. It should have following minimum specs: i3 processor or better, 2 GB SD RAM, 300 GB HDD, 52 x CDD read/write combo drive, 2 USB Ports, 17" TFT Colour Monitor, 101 Keys Keyboard, Optical mouse, Laser Printer model 1020 or equivalent. POLISHING KITS</p> <p>Optional Item: EQCM – Electrochemical quartz crystal microbalance</p> <p>Counter Electrodes Large Surface Area Counter Electrode useful in Electro- deposition of metal oxide nano-particles or nano-tubes (hard coatings) at high applied potential: Pt Gauze Counter Electrode 12.5 cm x 5.0 cm</p> <p>Calomel reference electrode, Alkaline/Mercurous oxide reference electrode, Mercury/Mercurous sulphate reference electrode.</p> <p>Current Booster 20A module Current booster to enhance the maximum current of the system. Specifications: Max Compliance Voltage: ±20 Volts, Maximum Output Potential: ±10 Volts, Maximum Current: ±20Amp, Accuracy: ±0.2%, Operation Mode: Potentiostatic and Galvanostatic.</p>	
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Note: - Parties must mention make & model no. of the equipment offered by them, with detailed specification (on separate sheet). Otherwise their tender will not be accepted.



**FINANCIAL BID
FOR SUPPLY AND INSTALLATION
OF
ELECTROCHEMICAL WORKSTATION
FOR
NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH,
BHUBANESWAR**

Sl. No.	Systems	Approx. Qty.	Unit Price FOB in Foreign currency	Unit Price including all taxes, freight and Insurance (delivered at NISER, Bhubaneswar service charges, installation and warranty charges in INR
(1)	(2)	(3)	(4)	(5)
01	ELECTROCHEMICAL WORKSTATION – (NC-50-13-14) (DETAILED SPECIFICATION AS PER OUR TECHNICAL BID)	01 Unit		
2.	Above item should carry three years onsite comprehensive warranty. In case the tendered provide warranty less than 03 years then he has to give justification for lesser period of warranty. Without justification his tender is liable to be rejected.			
3.	Agency Commission to be paid to Indian Agent (will be paid in INR only after successful installation)	Included/Excluded _____% of basic price		
5	CIP Kolkata Charges Included/Excluded in the quoted price	Amount		
6	Excise Duty Included/Excluded in the quoted price	_____ . _____% of basic price (Excise duty exemption certificate will be issued)		
7	Custom Duty Included/Excluded in quoted price	_____ . _____% of basic price (Custom Duty exemption certificate will be issued)		
9	Any other charges Included/Excluded in the quoted price (i) Trade tax/Sales tax (Institute will not issue any Sales Tax concession form) (ii) Any other levies	_____ . _____% of (basic price + excise duty) _____ . _____%		
10	Additional 02 years Warranty/AMC Charges	Amount		

ALL ABOVE ITEMS ON 3 YEARS & ADDITIONAL 2 YEARS ONSITE FULL COMPREHENSIVE FREE WARRANTY.

Date:
Address:

Signature:
Name:
Designation:
On behalf of:

(Company Seal)

(Please take the printout on your letter head along with all details)

To,
The Finance Officer
NISER, Institute of Physics Campus
Sachivalaya Marg, PO- Sainik School
Bhubaneswar – 751 005, Odisha

Ref: Tender Ref. No.: _____ Dated. _____

Sub: Refund of EMD

Dear Sir,
We have deposited EMD of Rs. _____/- vide D/D No. _____ dated.
_____ of _____ **(Name of Bank)** against
above mentioned tender. Since our tender has not being qualified, we request to release our
EMD.

Yours faithfully,

Signature of the Authorised Signatory
(with company seal)

Our addressed is verified as below:

M/s. _____

Pin Code: _____

Phone No.: _____



**NATIONAL INSTITUTE OF SCIENCE EDUCATION & RESEARCH
INSTITUTE OF PHYSICS CAMPUS, P.O.: SAINIK SCHOOL,
BHUBANESWAR-751 005
Tender Notice No. NIT-13/2013**

CHECK LIST

Your bid should accompany with following documents. Please enclose the required document and put (√) mark in the check list where ever applicable.

Sl. No.	Description of Documents	Enclosure
1.	EMD	Yes / No
2.	Part I of Tender Documents with Declaration by the Vendor	Yes / No
3.	Duly filled EMD refundable sheet (if EMD is there)	Yes / No
4.	General Information Sheet	
	Annual turnover in last 3 financial years in Rs. Crores (i) Year 2010-2011 (ii) Year 2011-2012 (iii) Year 2012-2013	Yes / No
	Supply & Installation of equivalent to our tendered for the required item from last 3 financial years in State Government or Govt. of India Department(s) /Reputed Organisation(s) (in Nos. and Value) (Please attach list of clients) (i) Year 2010-2011 (ii) Year 2011-2012 (iii) Year 2012-2013	Yes / No
	Trade Tax / Sales Tax Registration no. with Place	Yes / No
	Income Tax Registration no. with place	Yes / No
5.	Detailed technical description of the item	Yes / No
6.	Detailed filled Financial Bid	Yes / No
7.	Authorisation letter in letter head duly signed by the authorised signatory for allowing your representative to attend the tender opening meeting.	Yes / No

Signature of the Authorised Signatory with Date
(with Company Seal)