



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

**Notice Inviting E-Tender No. NIT-18/2018 (NC-001104-CHE-17-18)  
(2 Part Tender)**

**UV-Visible-NIR Spectrometer**

**Cost of Tender is 1500.00 (Non Refundable)**

## Paper Notice



**NATIONAL INSTITUTE OF SCIENCE EDUCATION & RESEARCH  
JATNI CAMPUS, P.O. - JATNI  
KHURDA – 752050, ODISHA, INDIA  
Notice Inviting E-Tender No. NIT-18/2018 (NC-001104-CHE-17-18)  
(2 Part Tender)**

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

| <b>Sl. No.</b> | <b>Name of the Items</b>    | <b>Tender No.</b> | <b>Name of Department</b>   | <b>Indent No.</b>   | <b>Qty.</b> | <b>EMD in INR</b> |
|----------------|-----------------------------|-------------------|-----------------------------|---------------------|-------------|-------------------|
| 01             | UV-Visible-NIR Spectrometer | NIT-18/2018       | School of Chemical Sciences | NC-001104-CHE-17-18 | 01 No.      | 80000/-           |

Tender can be downloaded and bided from website address: [www.tenderwizard.com/NISER](http://www.tenderwizard.com/NISER). Tender documents for viewing only are also available in NISER web-site address: [www.niser.ac.in](http://www.niser.ac.in). further all corrigendum and addendum will be published on NISER website and tender wizard portal.

NISER is publishing all its public and limited tender on NISER website.

**Stores & Purchase Officer**



**NATIONAL INSTITUTE OF SCIENCE EDUCATION & RESEARCH  
JATNI CAMPUS, P.O. –BHIMPUR-PADANPUR, VIA-JATNI  
KHURDA – 752050, ODISHA, INDIA**

**Notice Inviting E-Tender No. NIT-18/2018 (NC-001104-CHE-17-18)  
(2 Part Tender)**

| <b>Sl. No.</b> | <b>Name of the Items</b>    | <b>Tender No.</b> | <b>Name of Department</b>   | <b>Indent No.</b>   | <b>Qty.</b> | <b>EMD in INR</b> |
|----------------|-----------------------------|-------------------|-----------------------------|---------------------|-------------|-------------------|
| 01             | UV-Visible-NIR Spectrometer | NIT-18/2018       | School of Chemical Sciences | NC-001104-CHE-17-18 | 01 No.      | 80000/-           |

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

**NB: PARTIES REGISTERED WITH SSI/DGS&D/DAE/MSME/NSIC AND FOREIGN PARTIES QUOTING DIRECTLY ARE EXEMPTED FROM PAYING EMD and Tender Fee.**

**Standard e-Tender Terms & Conditions**

1. The details of tender notification can be downloaded from [www.tenderwizard.com/NISER](http://www.tenderwizard.com/NISER) under "Tender Free View" link.
2. Vendors should obtain the USER ID and PASSWORD from [www.tenderwizard.com/NISER](http://www.tenderwizard.com/NISER) by clicking on "REGISTER ME" link in the homepage.
3. The Vendor registration fee has to be paid to ITI Ltd for Rs. 1180/- including GST using the e-payment link provided at the time of registration, and the mode of payments are Credit Card, Debit Card and Internet Banking. Vendor Registration is Valid for 01year.
4. For further details on e-Tender participation, please contact ITI Help desk on
  - Telephone: 080-49352000/9686115318
  - Email: [harishkumar.kb@etenderwizard.com](mailto:harishkumar.kb@etenderwizard.com), [ambasa@etenderwizard.com](mailto:ambasa@etenderwizard.com).
5. Tenders should be submitted only through E-Tender portal and obtain the Tender Acknowledgement copy as a proof of successful submission.
6. **For any query regarding tender terms & conditions please sent email to [spo@niser.ac.in](mailto:spo@niser.ac.in).**

**Stores & Purchase Officer**



**NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH  
NIT OPEN DOCUMENT (2 PART BID)  
SUPPLY & INSTALLATION  
OF  
UV-Visible-NIR Spectrometer  
Notice Inviting E-Tender No. NIT-18/2018 (NC-001104-CHE-17-18)  
(2 Part Tender)**

National Institute of Science Education & Research (NISER), Jatni 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: UV-Visible-NIR Spectrometer**
- **Tender Enquiry No: NIT-18/2018 (NC-001104-CHE-17-18)**
- **Last date of submission of E-bid : 08/11/2018 up to 11.30 am**
- **Opening of Technical Bids : 08/11/2018 at 2.30 p.m.**
- **Date and Time of Pre-Bid meeting: 22/10/2018 at 11.30 A.M.**

Contact Person – **Sudip Barman** <[sbarman@niser.ac.in](mailto:sbarman@niser.ac.in)>

**(Deepak Srivastava)**  
**Stores & Purchase Officer**

**The Institute can provide following documents.**

1. **Custom Duty exemption certificate (for custom duty @5.15%)**
2. **GST Exemption Certificate (for GST @ 5%)**

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

**This is payable in cash or Demand Draft of a scheduled Bank in favour of Director, NISER payable at Bhubaneswar/Jatni**



**PART - 1**  
**TERMS & CONDITIONS**  
**FOR SUPPLY AND INSTALLATION OF**  
**UV-Visible-NIR Spectrometer**  
**FOR**  
**NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, JATNI**  
**Notice Inviting E-Tender No. NIT-18/2018 (NC-001104-CHE-17-18)**  
**(2 Part Tender)**

1. Director, National Institute of Science Education & Research, Jatni (NISER) invites E-Tenders for **UV-Visible-NIR Spectrometer** from the Manufacturer and their authorised reseller only having following credentials.
  - A. Should have satisfactorily completed **03 similar supplies** (at least one of them in Central Government/Central Autonomous Body/Central PSU) in last 05 years.
  - B. **Similar or Similar Nature of work means** Supply & Installation of **UV-Visible-NIR Spectrometer** 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.**

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.

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

**For Technical Information of UV-Visible-NIR Spectrometer:**

**Dr. Sudip Barman**

School of Chemical Sciences, NISER.

E-Mail – **Sudip Barman** <[sbarman@niser.ac.in](mailto:sbarman@niser.ac.in)>

**For Information regarding Commercial& all other Terms & Conditions:**

**Mr. Deepak Srivastava**

Stores & Purchase Officer

National Institute of Science Education & Research, Jatni

E-Mail-[spo@niser.ac.in](mailto:spo@niser.ac.in)

**3. Supply means:**

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

**4. Tender Document:**

**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.

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 sent by post so that it reaches on or before the opening of the technical bid of e-tender system in the form of Account Payee Bank Draft payable on any branch of Nationalised/Schedule Bank at Bhubaneswar/ Jatni in favour of “Director, National Institute of Science Education & Research, Jatni”, 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 & TENDER COST. 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.

a) 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, Jatni 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, Jatni valid till completion of warranty period. Following documents needs to be uploaded on E-Tender portal.

a) 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.

b) Copy of GST No. and PAN No. allotted by the concerned authorities.

c) List of deliverables / Bill of materials and services.

d) Compliance sheet with any deviation with reference to the terms and specifications.

e) 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.

#### **“Commercial Bid” shall contain:**

a) Price schedule shall complete in all respects. **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 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.**

## **5. Tender process & award of contract.**

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.

- (a) NISER will open commercial bids of only the short listed bidders, 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.
- (b) ONLY TECHNICALLY accepted competitive bids will be considered for placing Purchase Order.
- (c) **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.

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

## **7. Delivery Period / Timeliness**

The deliveries, installation must be completed within 90 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.

## **8. Locations for the Supply / Services**

The Laboratory Equipment covered by this document is required to be supplied and installed at School of Chemical Science of NISER, Jatni.

## **9. Order Placement and Release of Payment**

The Purchase Order and payment shall be processed by –

**Stores & Purchase Officer  
National Institute of Science Education & Research,  
Jatni Campus, P.O. – Bhimpur-Padanpur, Via-Jatni,  
Khurda – 752050, Odisha, 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:-

### **Foreign Currency payment:-**

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, commissioning, warranty certificate and along with submission of Performance Bank Guarantee.

### **INR payment:-**

80% will be released after receipt of material in good condition & balance 20% will be released after satisfactory installation, commissioning, warranty certificate and along with submission of Performance Bank Guarantee.

**Agency Commission: Agency Commission to be paid to Indian 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.**

**10. 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 their own arrangements.

**11. 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.

**12. Period of validity of bids**

- (a) Bids shall be valid for a period of 90 days from the date of opening the Technical bid.
- (b) 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.
- (c) Bid evaluation will be based on the bid prices without taking into consideration the above corrections.

**13. 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.

**14. 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.

**15. Price**

- (a) 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.
- (b) In case of INR bids the price criteria should be on delivered at NISER, Jatni including Free onsite comprehensive Three years warranty, installation, commissioning, Training, demonstration, packing, transportation, insurance, loading & unloading (At NISER) etc. charges. Govt. Levies like GST, etc., if any, shall be paid at actual rates applicable on the date of delivery. Rates should be quoted accordingly giving the basic price, GST, etc., if any.
- (c) Please provide GST No. of the firm allotted by the concerned authorities in your quotation.
- (d) In case of Foreign Currency bid: - Price criteria will be FOB nearest International Airport/Sea Port including Free onsite comprehensive Three years warranty, installation, commissioning & Training & demonstration charges. Agency Commission if any is required to be quoted separately in Financial bid which will be paid directly to Indian agent in INR.

**16. Pre-installation:**

Pre-installation facilities required for installation may please be intimated in the technical bid. Subsequently, before the consignment lands in NISER, Jatni 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.



## **17. Installation, Warranty & Support**

- Bidder shall be responsible for installation / demonstration wherever applicable and for after sales service during the warranty and thereafter.
- The items covered by the schedule of requirement shall carry minimum ***Three year free comprehensive warranty from the date of installation of the equipment*** 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, GST, local taxes if any should be borne by the beneficiary or his agent. A clear confirmation should be given for this item.***
- The OEM/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 7 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, three 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 tools required for installation, testing & maintenance etc.

## **18. 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 bidder will be fully responsible for payment of wages and other dues as prescribed and compliance of various Labour Laws.
- The successful tenderer 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.

## **19. Insurance**

The equipment 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 or as per agreed terms, in case of Rupee/Foreign currency transaction.

## **20. 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 EMD/SD will be forfeited 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.

## **21. 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 there from, 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, Jatni**

## **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 21 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 has 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)

**SUPPLY AND INSTALLATION  
OF  
UV-Visible- NIR Spectrometer  
FOR  
NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, JATNI  
Notice Inviting E-Tender No. NIT-18/2018 (NC-001104-CHE-17-18)**

**General Information -Self Attested**

[www.tendewizard.com/NISER](http://www.tendewizard.com/NISER)

| <b>Vendor Name</b> |  |                            |  |
|--------------------|--|----------------------------|--|
| <b>Sl. No.</b>     | <b>Basic Information</b>   | <b>Please fill details</b> | <b>Page No. with name of the documents attached in support of information required</b> |
| 1                  | <b>Name of the Company</b>   |                            |  |
| 2                  | <b>Full address of company along with Telephone no.<br/>Fax no.<br/>E-mail address :</b>   |                            |  |
| 3                  | <b>Local address of company for communication, if any</b>  |                            |  |
| 4                  | <b>Are you a manufacturer or dealer/reseller</b>   |                            |  |
| 5                  | <b>If dealer please attach certificate from your principal company clearly showing validity of the certificate</b>   |                            |  |
| 6                  | <b>If foreign supplier : Please give details of your Indian authorised partner if any</b>  |                            |  |
| 7                  | <b>Annual turn over in last 3 financial years in Rs. Crores.<br/>(i) Year 2015-2016<br/>(ii) Year 2016-2017<br/>(iii) Year 2017-2018<br/>Please attach balance sheet</b> |                            |  |

|    |  |  |  |
|----|--|--|--|
| 8  | <p><b>Supply &amp; Installation of UV-Visible- NIR Spectrometer our tendered of last 3 financial years in State Government or Govt. of India Department(s) /Reputed Organisation(s) (in Nos. and Value)</b><br/> <b>(Please attach list of clients)</b><br/> <b>(i) Year 2015-2016</b><br/> <b>(ii) Year 2016-2017</b><br/> <b>(iii) Year 2017-2018</b><br/> <b>Please attach copy of Purchase Order/ Completion Certificate</b></p> |  |  |
| 9  | <p><b>GST Registration no. with Place</b></p>  |  |  |
| 10 | <p><b>Income Tax Registration no. with place</b></p>   |  |  |
| 11 | <p><b>Photocopy of EMD (If Applicable)</b></p>   |  |  |
| 12 | <p><b>Name and address on whom purchase order will be placed</b></p>   |  |  |
| 13 | <p><b>Bank details of the supplier on which order will be placed</b></p>   |  |  |
| 14 | <p><b>If you are claiming exemption certificate under SSI/DGS&amp;D/DAE, Please attach self attested copy of certificate which should be valid during the tender process</b></p>   |  |  |
| 15 | <p><b>Service centre details &amp; principal vendor support centre</b></p>   |  |  |
| 16 | <p><b>Delivery period :Please mention time of delivery &amp; Installation</b></p>  |  |  |
| 17 | <p><b>Declaration to be submitted by Vendor</b></p>  |  |  |
| 18 | <p><b>Warranty : Three year Comprehensive On-site Warranty and Maintenance of the system and all accessories with factory trained manpower. Provide a list of items not covered in warranty. The warranty should be extendable after expiration.</b></p>   |  |  |



**TECHNICAL BID  
SUPPLY AND INSTALLATION  
OF  
UV-Visible- NIR Spectrometer  
FOR  
NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, JATNI  
Notice Inviting E-Tender No. NIT-18/2018 (NC-001104-CHE-17-18)**

[www.tenderwizard.com/NISER](http://www.tenderwizard.com/NISER)

| Vendor Name |   | -   |  |
|-------------|---|---|--|
| SL. No.     | Item Specification  | Accepted/Not Accepted/Deviation if any. Please specify your specification if deviation is there | Page No. of your specifications/ Brochure/ Deviation, etc attached in support of your specification/d eviation |
| 1           | Photometric system: Double beam, Double Monochromators Blazed, Coated Optical System with all reflective optics |   |  |
| 2           | Wavelength range: Approx. 185-3300 nm   |   |  |
| 3           | Photometric Range: 8 ABS or better  |   |  |
| 4           | Spectral bandwidth:<br>UV/VIS: 0.01-5 nm or wider;<br>NIR: 0.04-20 nm or wider                                  |   |  |
| 5           | Resolution:<br>UV-Vis region: $\leq 0.05$ nm;<br>NIR region : $\leq 0.20$ nm                                    |   |  |
| 6           | Wavelength accuracy:<br>UV/VIS: $\pm 0.01$ nm (Approx);<br>NIR: $\pm 0.05$ nm (Approx)                          |   |  |

|    |  |  |  |
|----|--|--|--|
| 7  | <p>Noise:<br/> 0.00005 Abs or less (500 nm)<br/> 0.004 Abs or less (1500 nm)<br/> Silt width 2 nm</p>  |  |  |
| 8  | <p>Light source:<br/> Tungsten halogen and Deuterium arc lamp, Built in automation Position alignment mechanism.</p>   |  |  |
| 9  | <p>Detector:<br/> For UV / VIS region – Photomultiplier<br/> For NIR region electrothermally cooled PbS (provide details on default setting range of detectors)</p>  |  |  |
| 10 | <p>Stray light:<br/> 0.0001% or less (220 nm); 0.0001% or less (340 or 370 nm)<br/> 0.0005% or less (1420 nm); 0.005% or less (2365 nm)</p>  |  |  |
| 11 | <p>Software specification:<br/> Data Acquisition Modes: Spectrum, Kinetics and Photometric with detailed facility. Viz.: It should have the ordinates: Abs, %T, %R, Absolute %R, Log Abs, Absorptivity etc. It should have the Abscissa: Continuous, stepped &amp; multi-point modes: nm, cm<sup>-1</sup>, Å, min/sec, mm, angle etc. It should have Baseline Correction (unlimited baseline scans can be stored). Modes include: Multicell, Multiangle, 0% and 100% corrections and Standard reference correction. Data Collection Modes: Continuous scanning. Stepped scanning, Signal to noise mode scanning and Independent NIR control scanning etc.</p> <p>Software upgradation and backup should be covered.<br/> Operating System: Suitable for windows 8 onwards.</p> |  |  |

|           |   |  |  |
|-----------|---|--|--|
| <p>12</p> | <p>Accessories / device:</p> <ol style="list-style-type: none"> <li>1. Branded (Core i5 fifth generation or higher with 4 GB RAM) PC with other latest configuration &amp; Laser Printer to be offered along with the instrument.</li> <li>2. A suitable online UPS with inbuilt isolation transformer and 30 minutes backup.</li> <li>3. Integrating Sphere Detachable [150 mm] (Diffused reflectance and Transmittance). Software controlled automated polarizer accessory for measurement of specular, absolute reflection &amp; transmission, at user definable variable angles (0 to 180 degree, step 0.02 deg), for s-polarized and p-polarized light from exactly the same point on the sample without moving or disturbing it using a built-in detector that provides coverage in the UV-Vis and NIR range. Diffuse scattering through independent sample rotation (360 degrees) and detector positioning (10 – 350 degrees) at 0.02 degree intervals. Sample size handling from 5 mm to 200 mm or better.</li> <li>4. Peltier/Water circular Temperature Controlled Cell Holder -1 to 90°C (preferably for sample and reference side temperature controlled)</li> <li>5. Suitable Polarizer for UV, Visible and NIR region.</li> <li>6. Micro-cell holder (variable 50 – 500 micro lt.)</li> <li>7. Micro-cell cuvette for 50 -500 micro lt.</li> <li>8. 2 pairs cuvette (one pair – 3.5 ml with 10 mm path length; one pair – 1.0 ml with 10.0 mm path length.</li> <li>9. Gas Sample cell.</li> <li>10. Accessory for solar transmittance measurements</li> <li>11. External probe (optical fiber)</li> <li>12. Multiple cell changer at least one 6 X 6 with thermal probe and its software to operate by programmed temperature intervals.</li> <li>13. Accessories and software for calculating band gap of solid semiconductor materials.</li> </ol> |  |  |
|-----------|---|--|--|



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|------------------|---|--|--|
| <p><b>13</b></p> | <p>General:</p> <ol style="list-style-type: none"> <li>1. Facility for purging of entire optical path with monochromators, sample compartment and detector compartment. However a separate purging line for sample compartment would be preferred.</li> <li>2. Removable sample compartment base for other accessories.</li> <li>3. Instrument performance verification test. Provide detail and external calibrant(s). <ol style="list-style-type: none"> <li>I) Accessory controller for external and internal.</li> <li>II) Users should be imparted training at our site.</li> <li>III) Provision for Annual Service Contact after the warranty expiration. Annual service contact should be quoted along with the price bid separately.</li> <li>IV) Minimum of five representative absorbance, transmittance, and diffuse reflectance spectra should be provided to establish the performance of the instrument in UV-Vis and NIR range for the following samples (with reference from the literature): Solid, Liquid, Opaque and colloidal as well as thin film samples.</li> <li>V) Necessary pre-installation advice including power requirement should be enclosed along with the offer.</li> <li>VI) List of users in India.</li> <li>VII) Power supply as per Indian Standard.</li> <li>VIII) Apart from specification given here, all the higher specifications resolution, advances and technology will /may be preferred.</li> </ol> </li> </ol> |  |  |
| <p><b>14</b></p> | <p>Warranty:<br/> Three year Comprehensive On-site Warranty and Maintenance of the system and all accessories with factory trained manpower. Provide a list of items not covered in warranty. The warranty should be extendable after expiration.</p>   |  |  |



**FINANCIAL BID  
SUPPLY AND INSTALLATION  
OF  
UV-Visible-NIR Spectrometer  
FOR**

**NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, JATNI  
Notice Inviting E-Tender No. NIT-18/2018 (NC-001104-CHE-17-18)**

[www.tenderwizard.com/NISER](http://www.tenderwizard.com/NISER)

| Vendor Name |  |     |                  |   |  |  |   |
|-------------|--|-----|------------------|---|--|--|---|
| SL. No.     | Item Specification   | Qty | Type of Currency | Unit Price in Foreign currency as per terms & condition no.15(d) of Tender document | Total Price in Foreign Currency as per terms & condition no.15(d) of Tender document | Unit Price in INR as per terms & condition no.15(b) of Tender document | Total Price in INR as per terms & condition no.15(b) of Tender document |
| 1           | UV-Visible-NIR Spectrometer (Specification as per technical Bid)                           | 1   |                  |   |  |  |   |
|             | <b>Sub Total</b>   |     |                  |   | <b>0.00</b>  |  | <b>0.00</b>   |
|             | <b>Agency Commission</b>   |     |                  |   |  |  |   |
|             | <b>GST Charge If Any</b>   |     |                  |   |  |  |   |
|             | <b>Grand Total</b>   |     |                  |   | <b>0.00</b>  |  | <b>0.00</b>   |
|             | <b>Comprehensive AMC charges after expiry of Warranty period in % of basic price only.</b> |     |                  |   |  |  |   |