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COLLEGE OF ENGINEERING AND TECHNOLOGY

(A constituent college of Biju Patnaik University of Technology, Odisha)

KALINGA NAGER, BHUBANESWAR – 751003

 No. 1742 /CET Date- 14/05/2016

**Tender Call Notice**

Sealed Tenders are invited from reputed **Original Equipment Manufacturers (OEM)/ Authorized Dealers/Suppliers,** for supply, installation and commissioning of equipments to **Department of Chemistry** of the college, details of which are available in the tender papers. The tenderers must possess valid up-to-date VAT /income tax clearance etc. and service facilities at Bhubaneswar. The last date of submission of tender is **9.6.2016** (up to 1PM) and will be opened on the same date at 3.00PM. The sealed tender will be received by Speed Post/Registered Post /Courier only. The authority is not responsible for any postal/courier delay. No hand delivery is acceptable. Tender received after the scheduled date and time will not be considered. More details are available at our college website **www.*cet.edu.in***.

 Sd/- PRINCIPAL

**BID PARTICULARS AND INSTRUCTIONS OF TENDER NOTICE**

**FOR SUPPLY, INSTALLATION AND COMMISSIONING OF EQUIPMENTS**

**FOR**

**DEPARTMENT OF CHEMISTRY**

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**COLLEGE OF ENGINEERING AND TECHNOLOGY**

**(A Constituent College of Biju Patnaik University of Technology)**

**Techno Campus, Kalinga Nagar, Bhubaneswar –3**

**DETAILED PARTICULARS AND INSTRUCTIONS ON TENDER**

**FOR**

|  |  |  |
| --- | --- | --- |
| 1. | Tender Opening | **9.6.2016 at 3.00 PM** |

#### Purchase of Equipments

**FOR**

**Department of Chemistry**

**College of Engineering and Technology**

 **Bhubaneswar – 751003, Orissa**

#### Sealed Tenders are invited from reputed Original Equipment Manufacturers (OEM)/Authorised Dealers/Suppliers, for supply, installation and commissioning of equipments for the Department of Chemistry, College of Engineering and Technology (CET), Techno Campus, Kalinga Nagar, Bhubaneswar – 751003, Orissa.

### Scheduled Tender Activity:

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **Activity** | **Date** |
| 12 | Due date for tenderLast Date of Tender Document Submission |  **7.05.2016**  **9.6.2016** up to 1.00PM |
| 3. | Tender Opening |  **9.6.2016** at 3.00 PM |
| **Items** | **EMD (in Rupees)** | **Cost of Tender Document (in Rupees)** | **Period of complete Delivery, Installation and Commissioning** |
| Equipments for Department Chemistry | See under clause no. 5.1 of this tender | Rs.1000/VAT@13.5% | 6 weeks/120 days |

**Commercial bid & Technical bid must be enclosed separately.**

**The Tender documents can also be downloaded from our website** [**cet.edu.in**](http://www.cet.edu.in) **and the tenderer has to submit a separate draft of Rs.1000.00 + VAT @ 13.5% (**in favour of **Principal, College of Engineering and Technology** payable at Bhubaneswar in any Nationalised Bank towards tender paper cost **)along with submitted tender, otherwise the offer submitted by the tenderer will be cancelled.**

### Eligibility of Tenderer and General Instructions:

### Eligibility:

Those who fulfill the following criteria are eligible to participate in the tender.

1. The tenderer must be a reputed **OEM** and/or the Authorised Dealer/ Supplier of a reputed manufacturer. Manufacturers should provide all documents relating to their **Manufacturing Capabilities.**
2. If the tenderer is an Authorised Dealer/Suppliers of a reputed manufacturer, necessary certificate to this effect from the manufacturer must be enclosed.
3. The tenderer must have both sales and service center with qualified Service Engineers. All after sales support should be provided directly by the manufacturer only.
4. The tenderer must have the willingness for providing comprehensive maintenance support of the Equipment supplied by him.
5. The tenderer must provide evidence of successful execution of supply orders with installation and successful after sales support in reputed organizations.
6. The tenderer must have cleared Sales Tax and Income Tax payment up- to- date. Attested copies of Sales Tax Clearance Certificate or non-assessment certificate from the concerned Sales Tax Authority valid up- to-date and attested copy of Income Tax Clearance Certificate or non-assessment certificate, as the case may be, from the competent authority, up-to-date. and/or PAN Number must be enclosed along with the Tender documents.

### General Instructions:

The tenderers who are **the Original Equipment Manufacturers (OEM)/ Authorised Dealers/Suppliers** of the product must be manufacturing the complete product, selling under the specified brand name and model are the eligible participants.

The tenders will be opened on **9.6.2016 at 3.00 PM** in presence of the tenderers or their authorized representatives. Authorized representatives will be required to produce their authorization before opening of the bid, failing which they will not be allowed to be present.

Submission of more than one bid by a particular tenderer under different names is strictly prohibited. In case it is discovered later on that, this condition is violated, all the tenders submitted by such tenderer/s would be rejected or contract cancelled and earnest money deposited will be forfeited.

All offers should be typed or printed clearly in English and the price quoted for each item should be firm.

Warranty period, Delivery period and After-Sale-Service conditions, etc. are also to be clearly indicated.

The rates and the conditions of the offer will remain valid for three months from the date of opening of the tender and no change or alteration of the rate will be acceptable on any account.

Submitted tender forms with overwriting or erased or illegible specifications and rates will be rejected.

Request from tenderer in respect of additions, alterations, modifications, corrections, etc. of either terms & conditions or rate after opening of the bid may not be considered. However, negotiation may be made before finalization.

Tenderers shall carefully examine the bid documents and fully inform themselves of all the conditions, which may in any way affect the work of the cost thereof.

Should a tenderer find discrepancies or omissions from the specification or other documents and any doubt as to their meaning, he should at once notify the purchaser and obtain clarification in writing.

This, however, does not entitle the tenderer to ask for time beyond the due date fixed for receipt of tenders.

The tenderer must also specify minimum uptime and maximum time to repair/replace in the event of a failure and penalty there of.

Verbal clarification and/or information given by the purchaser or its employees or representatives shall not be binding on the purchaser.

Submission of sealed bid will carry with the implication that the tenderer agrees to abide by the conditions laid down in the detailed particulars of the bid notice.

Conditional offers and offers qualified by vague and indefinite expression, as ‘subject to immediate acceptance’, ‘subject to prior sale’, etc. will not be considered.

While tenders are under consideration, tenderers and their representatives or other interested parties are advised to refrain from contacting by any means, to the purchaser's personnel or representatives on matter relating to the tenders under study.

The purchaser, if necessary, will obtain clarification on tenders by requesting such information from any or all the tenderers either in writing or through personal contact as may be necessary.

The tenderer will not be permitted to change the substance of his offer after the tenders have been opened.

In the event of non-compliance with this provision, the tenderer is liable to be disqualified.

### Submission of Tenders:

#### The sealed envelope must show the name of the tenderer and his address and should be superscribed as “Tender for Equipments for Department of Chemistry” on the top of the envelope.

All the documents submitted must be in the papers showing signature of the tenderer and printed office name of the tenderer on official seal.

All the documents must be submitted in a sequential manner with separator/flags to help in quick scanning of the topics.

Wherever possible, data in tabular form should be given.

Cost-benefit/break-even analysis should be supported in graphical and tabular form to give quick view and supported with description or details.

The tenders should be submitted at the office of the **Principal, College of** **Engineering & Technology, Bhubaneswar – 751003, Orissa**.

Outstation offices may sent the tender forms by Registered Post/Speed Post/courier and addressed to the **Principal, College of Engineering & Technology** superscribed as **“Tender for Equipments for Department of Chemistry*”.***

### Requirements by Tenderer before Supply:

### Rating Plate, Name Plate and Labels:

Each of the equipment is to have permanently attached to it, a rating plate of non-corrosive material in a conspicuous position, upon which the total specifications along with the manufacturer’s name, address, etc. are to be engraved.

### Packaging:

All the equipment are to be suitably protected, covered in water–proof packing and crated to prevent damage or deterioration during transit and storage till the time of installation. The supplier shall be responsible for any loss or damage caused during transportation, handling or storage till their successful installation.

### Inspection:

All materials/equipment shall be inspected and tested for completeness, proper assembly, operation, cleanliness and state of physical condition and performance as per quoted specification.

The test shall be conducted, reported and certifications to provided by the tenderer.

The tenderer shall provide all test and measuring equipment/tools required for inspection/testing.

The cost of all such tests shall be borne by the Tenderer.

CET reserves the right to reject any equipment if it does not comply with the specifications during site testing, installation and commissioning stage.

Inspection & testing would be conducted, jointly, at various stages as applicable during unpacking, installation and commissioning of respective equipment/ components at the manufacturing site.

### Environmental Condition:

All the equipment supplied shall be rugged and should operate without any deviation in quality, or degradation of equipment performance. All the specification/parameters shall be guaranteed over the following environmental conditions:

\* Storage Temperature 0 to 70 degree Celsius

\* Operating Temperature 0 to 50 degree Celsius

\* Humidity 95% RH (non-condensing)

All the equipment are intended to operate under 220 V, 50 Hz power supply.

### Requirements by Tenderer after Supply:

### Supply:

The material would be delivered by the supplier at **College of Engineering & Technology, Techno Campus, Kalinga Nagar, Near Khandagiri, Bhubaneswar – 751003, Orissa**.

The items should be supplied directly from the manufacturing terminal having passed all tests successfully with Certifications as required.

The equipment should conform to the latest relevant National/International standards and shall be completed in all respect.

Any component, fitting etc. which may not have been specifically mentioned in the specifications but which are usual and necessary for the equipment, shall be supplied by the tenderer at no extra cost.

In case, articles are found damaged in transit or found short at the time of delivery the full cost of the same will be deducted from the bill of the supplier in case the supplier does not replace the stock within a week from the date of lodging the complain.

The articles ordered must be supplied in one lot within 6 (SIX) weeks (for Indian equipments or 120 days for foreign manufaturers)of placing of the purchase order.

In case of delay in delivery or successful installation, a penalty of 1% (one per cent) per week shall be levied.

CET reserves the right to procure the materials from alternative sources at the risk and cost of the successful tenderer giving 15 days notice.

Any increase in tax and duties after expiry of delivery period will be to the seller’s account.

In case the items supplied by the supplier are found not up to the specification shall be rejected. The supplier will be intimated to take back the stocks at his own cost within three days from the date of rejection and to replace the same within 7 days, failing which the EMD will be invoked in addition to taking legal actions.

The suppliers shall be responsible for releasing the consignments from the carriers/transporters.

The equipment shall be delivered and installed at site at the cost of the tenderer.

All taxes, levies, surcharges including the customs clearance and handling freight and insurance should be paid and handled by the tenderer.

### Installation and Commissioning:

Installation and Commissioning shall include the following:

1. Installation and Testing of the Equipment, Machineries etc. supplied by the tenderer.
2. It will be the responsibility of the tenderer to provide all necessary spares and consumables, which may be required during installation and commissioning, at no extra cost to CET.
3. The tenderer is to bring their own testing and measuring instruments required for installation, testing, commissioning, which can be taken back after completion.
4. Installation must complete within a week after delivery on site.

### Documentation:

Detailed technical manuals, handbooks, drawings, Warranty card and Factory Quality Assurance checklist, test results and any other certifications mentioned in the Technical specifications shall be supplied along with the consignment.

Supplied manuals/handbooks must cover detailed technical specifications and installation, operation, maintenance and System Safety procedures.

For Experimental setups details of theory, procedure and methods of taking measurements etc. should be provided in the form of hand books for each experiment in duplicate.

The receipts for taxes paid, if any, for the supplied materials should also be submitted

### Trial Operation and Performance Guarantee Test:

After successful completion of Installation and Commissioning of the equipment, a 7-day continuous trial operation putting those on optimum use shall be conducted by the tenderer at site, during which the performance of the equipment shall be demonstrated for trouble-free continuous operation, meeting the specified standards.

During trial operation, tenderer shall do all necessary adjustments required to ensure the performance as per the acceptable level.

In case, guaranteed performance is not established, the tenderer shall be given opportunity to rectify/replace the equipment/components, and restart the 7 days continuous trial operation, at the risk and cost of the tenderer.

### On-Site Warranty:

1. The entire materials may be used continuously. The reliability and safety of the total installed system and trouble-free operation are, therefore, of prime importance. The supplied devices/equipment and components shall be covered under **two-years or more** comprehensive on-site warranty from the date of issue of successful completion of Performance Guarantee Report.
2. During the period of warranty, it shall be the responsibility of the tenderer to provide all essential spares and consumables, which may be required for maintenance and trouble-free operation of the devices / components at the tenderer’s cost.
3. Software, if any, has to be tested with at least one-year warranty for trouble free operation.

### Comprehensive Maintenance Contract:

The tenderer shall be under the obligation of entering into a Comprehensive Maintenance Contract (CMC) with CET for a minimum period of two years, renewable if felt necessary, on mutually acceptable rates, terms and conditions. CMC shall start after the completion of Warranty.

The scope of CMC shall cover maintenance and supply/replacement of materials and components, for smooth and reliable operation of the systems without trouble.

Accordingly, the tenderer has to offer rates for the CMC structure per equipment along with the price for the Systems and other associated Equipment supplied.

### After Sales Service:

During the warranty period and subsequently, after signing of Agreement for CMC the tenderer shall attend to the problems reported by the users of CET on a priority basis.

For any problem reported, the tenderer shall attend and rectify the problem within 3 (three) days or provide a stand by system of the similar configuration.

The report on any problem will be informed through phone or fax number of which shall be given by the tenderer.

The branch office of the concerned manufacturing firm will be fully responsible to provide maintenance service, in case of any negligence, in providing the service by the tenderer.

### Financial Terms:

* 1. **EMD**

The tenderer has to submit a Demand Draft/Banker’s Cheque/Pay Order/Bank Quarantee item-wise as detailed below in favour of **Principal, College of Engineering and Technology** payable at Bhubaneswar in any Nationalised Bank towards EMD. **Without EMD for an item, the tender will be not be considered for the same item**.

|  |  |
| --- | --- |
| **Items** | **EMD (in Rupees)** |
| **(i**) UV-VISIBLE spectrophotometer with accessories and softwares | 6,000/- |
|  |  |
|  |  |
|  |  |

There will be no interest paid to the tenderer towards EMD money opening of the bid.

No request for adjustment of claims, if any, will be accepted.

The EMD of unsuccessful tenderers will be refunded as soon as possible after the tenders are finalized.

No one should submit a tender who is unable to furnish the EMD as indicated above and supply the equipment within the specified period as indicated in the indent/order issued for the quantities decided in his favour.

* 1. **PRICES:**

Price quoted should be **FOR Bhubaneswar only.**

Price should be quoted for unit item; however, the actual requirements may be much more. (A tenderer may propose to give discounts if any for purchase of more than one unit of a particular item.)

Purchase order will be placed as a single lot for each type of item or for all the items together, as the case may be.

In case of items of import, the tenderer should take full responsibility for customs clearance, handling, tax payment, etc. and specify the charge for the same in the price bid. Custom duty and other government duties/taxes will be paid extra and as per actual.

* 1. **Sales Tax Concession:**

Central Sales Tax Concession is to be availed on production of the required certificates applicable to Educational Institution.

* 1. **Discount:**

Our Institute is a pioneer Institution in the field of Teaching and Research in Engineering and allied disciplines and do not run with profit motive.

As such we are availing price discount for purchase of equipment/instruments.

The rate of discount or any other Institutional benefit arising out of Govt. Policy etc., on each item may also be indicated in the bid specifically.

* 1. **Payments:**
1. In case of imported items, (i) payment will be made by wire transfer or (ii) payment will be made through opening LC.
2. In case of purchase in Indian Rupees, payment of 100 percent of the ordered value will be made after successful installation and commissioning of the equipment subject to submission of satisfactory performance report by our Professor-in-Charge.
	1. **Penalty:**

If the delivery, installation and commissioning is not carried out in time as specified in other part of the tender document, the tenderer/manufacturer will be charged @ 1% (one per cent) per week of the total value of the concerned system/ equipment.

* 1. **Rate Contract with DGS&D or any other Government Organisation:**

In case the tenderer has entered into a Rate Contract with DGS & D or any other Government Organisation such as EPM, rate contract preference, number & copy of rate contract have to be submitted along with tender.

### Technical Specifications:

The technical specifications are enclosed in Annexure-I.

### Instruction to the Tenderer:

* 1. **Instructions to Offer Technical and Price Bids Separately:**

Technical Offer and Price Bids should be separately given in two different covers.

Each cover should be earmarked as to know the contents within as either ***“Technical Offer” or “Price Offer”***.

Both these covers should be placed in a third cover super scribed as **“Tender for Equipments for Department of Chemistry*”.***

Some of the minimum specifications specified may be redundant, obsolete or incompatible and in these cases, quote the particulars of correct specification of latest trend and technology. Higher specifications instead of minimum specifications are allowed if a minimum specification is not available, obsolete or incompatible. Otherwise, model with higher specification should be in addition to the model with minimum specifications.

Specify brand name and full model name and number for each offer. Include the printed catalogue and price list if any for each of the equipment quoted.

Specify the list of Accessories required along with each of the equipment.

Quote the additional price of the accessories; only those, which are fully compatible with the quoted model, should be furnished.

Specify the list of Accessories to be given free of cost, along with the equipment as “**Free Accessories”**; these should be fully compatible with the quoted models.

* 1. **Solving Disputes:**

CET, the tenderer and the manufacturer shall make all efforts to resolve amicably by direct informal negotiation on any disagreement or dispute arising between them under or in connection with this contract.

All disputes arising out of the contract shall be referred to courts under the jurisdiction of the Bhubaneswar court only.

**The CET authority has all rights to accept/reject any tender without assigning any reasons there of.**

NB: (i)The above terms and conditions except those otherwise agreed upon, shall form a part of the Purchase Order.

(ii) Sign on each page of this tender document and return it along with the offer enclosing this part together with the technical offer.

**Annexure-I**

All kind of necessary spares and cables/cords with tool kits should be supplied with the equipment. The power system is compatible with the Indian standard system.

* + - 1. **UV-VISIBLE SPECTROPHOTOMETER with accessories and softwares**

UV-Visible Double beam Spectrophotometer capable of measuring the absorbance or transmittance in the range of wavelength 190 nm to 900 nm with thermostatted 4-turret automatic cell changer system with the standard softwares for kinetic measurements having the following specifications or better. One cell path length varies from 0.1 to 1cm. Features also include Wavelength scan (Abs, %T, %R, Sample, Reference), Time scan (Abs, %T, %R, Sample, Reference), Fixed wavelength (Up to 8 wavelengths), Abs/%T monitor. Necessary softwares for data processing forPeak picking, Peak height, Peak area, Peak width, Derivatives, Smoothing, Data truncation, Arithmetic, Baseline correction, Subtraction, Deconvolution, Vertical axis conversion, Horizontal axis conversion. The minimum technical specifications are as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl. No.** | **TECHNICAL SPECIFICATIONS** | **DESCRIPTION** | **Qty** | **Rate** |
| a | Optical system  | Double beam system with single Monochromator | one |  |
| b | Light Source  | Deuterium & Halogen Lamp |
| c | Detector  | Photomultiplier tube |
| d | Wavelength Range | 190 to 900.0 nm |
| e | Wavelength Accuracy | ±0.3 nm or better |
| f | Wavelength Repeatability | ± 0.05 nm or less. |
| g | Scanning Speed | 10-4000 nm/min or more. |
| h | Spectral bandwidth | 1.5 nm fixed or less |
| i | Cell path length | Cell holder for One cell path length varies from 0.1, 0.2, 0.5cm  |
| j | Photometric Range | 0 to 10000 %T -2 to 4 Abs |
| k | Baseline stability  | : ± 0.0003 Abs/hour |
| l | Photometric Mode  | Abs, %T, %R |
| m | Wavelength Display  | 0.1 nm increment |
| n | Photometric Accuracy | ±0.3%T or ±0.002Abs (0 to 0.5 abs) |
| o | Stray Light  | ≤0.005% |
| p | Operating Mode:  | (1) Single Wavelength; (2) Multi Wavelength; (3) Scan(4) Time Scan |
| q | Measuring Mode  | Multi Component Analysis, Concentration (K Factor, Multi standard), Absorbance, %Transmittance |
| r | Wavelength Scan Speed | 10, 100, 200, 400, 800, 1200, 2400, 3600nm/min |
| s | Data Storage  | User defined files, analytical parameters and measurement data |
| t | Printer Port  | PCL3 or ESC/P |
| u | Water thermostatted 4-position automatic cell changer (min.)Temperature Control : | Rectangular cell, 10x10mm; 6 pcs Compatible cell : Reference : Rectangular cell, 10x10, 1 pcsThermosatted water circulation for sample and referenceOperating temperature : 10 to 90°c |
| v | Stirring system | Integrated variable speed magnetic stirrer |
| w | Cell switching :  | Software Control/manual |

Optional items: (1) water circulator-cum-chiller fitted with the above system (50C to 800C)

 (2) Stoppered Quartz cell (10x10mm) -3 pairs

1. **Tensiometer**

**Technical specifications**

Compact bench top design having the facility to measure both forward and reverse CMC with software controlled dosing rates, automatic refill facility. The equipment must be quoted with all the items it requires for its normal installation and operation in laboratory condition. The accessory items and additional features if any should be quoted separately each and will be treated as optional items for comparison.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.****No.** | **Technical specifications** | **DESCRIPTION** | **Qty** | **Rate** |
| a | Surface tension range | 1-2000mN/ m or better | **One** |  |
| b | Resolution | 0.001 mN/ m or better |
| c | Temperature measurement | 1. Range: -15 to 1000C or better
2. Resolution: 0.010C
3. Precision: ±0.050C
4. Accuracy: ±0.50C
 |
| d | Software- controlled Dosing Rates | 5-100mL /min or better |
| e | Measuring methods and functionality | Have an ability to measure forward and reverse CMC with ring and plate method |
|  | Functionality | Automatic refill, Rinse function 1-100cycles or better having software controlled filling and degassing. |

1. **Microviscometer**

**Technical Specifications:** Compact and light weight bench top rolling ball type micro viscometer with the following specifications:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl. no.** | **Features** | **Description** | **Qty** | **Rate** |
| a | Viscosity  | 0.3 to 10000mPa.s and broader | One |  |
| b | Repeatability s.d  | 0.1% or better |
| c | Accuracy  | 0.5% or better |
| d | Sample volume  | 0.4mL to 1mL or lesser |
| e | Sample type | transparent |
| f | Measuring Temp  | 50- 800C or better |
| g | Measuring Time | 3 mins or less  |

1. **Digital Melting Point apparatus**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl. No.** | **Features** | **Description** | **Qty** | **Rate** |
| a. | Number of Samples | 2 or more | **One** |  |
| b. | Temp. range | Ambient to 3000C |
| c. | Temperature Accuracy | ±10C |
| d. | Display Resolution | 10C  |
| e. | Ramp rates | 200C / min or better |

The instruments may have the facility for upgradation.

Following are the minimum specifications of the equipment. The minimum specifications are indicative and not exhaustive.

Advanced models with better options/applications may also be quoted. The quoted materials should be of latest trend and technology.