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| **institute** | **Jawaharlal Nehru Government Engineering CollegeSundernaga,JN GOVT. ENGG. COLLEGE SUNDERNAGAR DISTT. MANDI (HP)** |

**INVITATION LETTER**

|  |  |
| --- | --- |
| **Package Code: TEQIP-III/2019/HP/jnge/100** | **Current Date:** |
| **Package Name: JNGEC/ASH/Chemistry Equipments/2019** | **Method: Shopping Goods** |

**Sub: INVITATION LETTER FOR JNGEC/ASH/Chemistry Equipments/2019**

Dear Sir,

|  |  |
| --- | --- |
| **1.** | You are invited to submit your most competitive quotation for the following goods with item wise detailed specifications given at Annexure I, |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No** | **Item Name** | **Qty.** | **Place of Delivery** | **Installation Requirement (if any)** |
| 1 | **Fume Hood** (specification as per annexure-A) | 1 | Chemistry Lab JNGEC Sundernagar | Yes |
| 2 | **Rotary Evaporator** (specification as per annexure-B) | 1 | Chemistry Lab JNGEC Sundernagar | Yes |
| 3 | **Ultrasonicator** | 2 | Chemistry Lab JNGEC Sundernagar | Yes |
| 4 | **Ultra Centrifuge Machine** | 1 | Chemistry Lab JNGEC Sundernagar | Yes |
| 5 | **Micropipettes** | 4 | Chemistry Lab JNGEC Sundernagar | Yes |
| 6 | **Safety goggles for chemical splash** | 35 | Chemistry Lab JNGEC Sundernagar | Yes |
| 7 | **Burette: (15nos.)** | 15 | Chemistry Lab JNGEC Sundernagar | Yes |
| 8 | **Ostwald’s Viscometer (20 nos.)** | 20 | Chemistry Lab JNGEC Sundernagar | Yes |
| 9 | **Stalagmometer (20 nos)** | 20 | Chemistry Lab JNGEC Sundernagar | Yes |
| 10 | **Titration flask (15 nos)** | 15 | Chemistry Lab JNGEC Sundernagar | Yes |
| 11 | **Volumetric Flask (5 nos)** | 5 | Chemistry Lab JNGEC Sundernagar | Yes |
| 12 | **Pipettes (20 nos.)** | 20 | Chemistry Lab JNGEC Sundernagar | Yes |

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| **2.** | | Government of India has received a credit from the International Development Association (IDA) towards the cost of the **Technical Education Quality Improvement Programme [TEQIP]-Phase III** Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued. | | | | | | | | |
| **3.** | | **Quotation** | | | | | | | | |
|  | | 3.1 | | | | | | The contract shall be for the full quantity as described above. | | |
|  | | 3.2 | | | | | | Corrections, if any, shall be made by crossing out, initialling, dating and re writing. | | |
|  | | 3.3 | | | | | | All duties and other levies payable by the supplier under the contract shall be included in the unit Price. | | |
|  | | 3.4 | | | | | | Applicable taxes shall be quoted separately for all items. | | |
|  | | 3.5 | | | | | | The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account. | | |
|  | | 3.6 | | | | | | The Prices should be quoted in Indian Rupees only. | | |
| **4.** | | Each bidder shall submit only one quotation. | | | | | | | | |
| **5.** | | Quotation shall remain valid for a period not less than **90** days after the last date of quotation submission. | | | | | | | | |
| **6.** | | Evaluation of Quotations: The Purchaser will evaluate and compare the quotations determined to be Substantially responsive i.e. which | | | | | | | | |
|  | | 6.1 | | | | | are properly signed; and | | | |
|  | | 6.2 | | | | | Confirm to the terms and conditions, and specifications. | | | |
| **7.** | | The Quotations would be evaluated for all items together. | | | | | | | | |
| **8.** | | Award of contract The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price. | | | | | | | | |
|  | | 8.1 | | | | | Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of Contract. | | | |
|  | | 8.2 | | | | | The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be Incorporated in the purchase order. | | | |
| **9.** | | Payment shall be made in Indian Rupees as follows: | | | | | | | | |
|  |  | | |  | | **Satisfactory Acceptance - 100% of total cost** | | | | | |
| **10.** | | | Liquidated Damages (L.D):  If a supplier fails to execute the order in time as per the terms and conditions stipulated therein, it will be open to the purchaser to recover liquidated damages for delay in delivery and installation from the supplier at the rate 0.5% of the value of the order per week subject to a maximum of 10% of the total order value. The L.D charges can be increased in case of gross violation of the Purchase Order terms as decided by the Principal of the Institute. | | | | | | | |
| **11.** | | | All supplied items are under warranty of **36** months from the date of successful acceptance of items and AMC/Others is **N.A.** | | | | | | | |
| **12.** | | | You are requested to provide your offer latest by **12:00** hours on **08-Oct-2019.** | | | | | | | |
| **13.** | | | Detailed specifications of the items are at Annexure I. | | | | | | | |
| **14.** | | | Training Clause (if any) **Yes** | | | | | | | |
| **15.** | | | Testing/Installation Clause (if any) **yes** | | | | | | | |
| **16.** | | | **Performance Security:**  The supplier shall require to submit the performance security in the form of irrevocable bank guarantee issued by any Nationalized /Commercial bank for an amount of **5%** of the Invoice value within 30 days from the date of receipt of the purchase order/LC and should be kept valid for a period of 60 days beyond the date of completion of warranty period. | | | | | | | |
| **17.** | | | | Information brochures/Product catalogue (if any) may be accompanied with the quotation clearly indicating the model quoted for. | | | | |
| **18.** | | | | Sealed quotation to be submitted/ delivered at the address mentioned below, **Jawaharlal Nehru Government Engineering College Sundernagar, DISTT. MANDI (HP).** | | | | |
| **19.** | | | | The offer/bid should be submitted in one bid system as per the format mentioned in Annexure- II. | | | | |
| **20.** | | | | Bid Format: The bid comprising of following documents should be sealed in envelope mentioning **Bid for “Package Name”** on top of the envelope. The envelope must mention package no. and name. | | | | |
| **21.** | | | | Bid must include: 1.) A compliance list against the technical specifications as per Annexure-I should be provided.  2.) The Bid should be submitted as per the bid format. (Annexure-II)  3.) Proof of Registration of the bidder.  4.) Copyof and GST registration no.  5.) Signed copy of the tender document, with company seal, agreeing to the terms & conditions must be submitted.  6.) It should indicate item wise price for the items mentioned in the bid as per the format (Annexure-III).  7.) **The price quoted should be F.O.R JNGEC Sundernagar (specified lab indicated by competent authority).**  8.) All duties and other levies payable by the supplier under the contract shall be included in the unit price.  9.) The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.  10.) All duties and other levies payable by the supplier under the contract shall be included in the unit price.  11.) The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.  12.) The Prices should be quoted in Indian Rupees only.  All documentary proof must be listed on the letterhead of the company. | | | | |
| **23.** | | | | **Opening of Bids:**  Bids will be opened on the last date of receipt of the quotations at 3P.M. in presence of Purchase Committee members and representatives of the vendors (if any). | | | | |
| **24.** | | | | Tenderer or his/her authorized representative (with proper authorization letter for opening of bids) may choose to be present at the time of opening of Bids. | | | | |
| **25.** | | | | **The Institute reserves the right to reject any bid not fulfilling the eligibility criteria** | | | | |
| **26.** | | | | **Supply of Items:** Free of cost at JNGEC Sundernagar by the vendor | | | | |
| **27.** | | | | **IMPORTANT:**   1. A bid submitted with false information will not only be rejected but also the OEM/vendor will be debarred from participation in future tendering process. 2. Each bidder shall submit only one quotation 3. In case of any dispute, the decision of the Principal of this Institute shall be final and binding on the bidders. 4. In case the due date for submission of the tender happens to be a holiday, the same will be accepted on the next working day. 5. The Authority of JNGEC Sundernagar reserves the right to reject any or the entire tender bids received without assigning any reason thereof. 6. **Bidder should submit the tender document, duly signed and stamped on every page in token of accepted all the terms and conditions of the tender**. 7. The institute does not bind itself to offer any explanation to those bidders whose bids have not been found acceptable by the evaluation committee of the institution. 8. The bids once submitted will be the property of the institute. 9. Declaration and Authorisation form to be attached with Quotation as per Annexure IV and Annexure-V. | | | | |
| **28.** | | | | **We look forward to receiving your quotation and thank you for your interest in this project.** | | | | |
|  | |  | | |  | | | | |

(Authorized Signatory)

DIRECTOR/PRINCIPAL **Annexure I**

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| --- | --- |
| **Sr. No.** | **Name of items with brief specifications** |
|
|  | **Fume Hood** (specification as per annexure-A) |
|  | **Rotary Evaporator** (specification as per annexure-B) |
|  | **Ultrasonicator:** Operating frequency 33KHz, frequency 50 KHz, input voltage range 170 V AC-270V AC, 50 Hz, single phase, time range 0-30 minutes, capacity 3.5 lts. |
|  | **Ultra Centrifuge Machine:** 6x30 ml(rotor) capacity, 1000-20000 rpm RCF 201,046 TO 1,048680 x g |
|  | **Micropipettes:** Variable volume single channel micropipette (range 1-5000 l) with variable capacity tip |
|  | **Safety goggles for chemical splash:** polycarbonate, clear frame, polycarbonate clear lens, standard size, protection against chemical splash, as per ANSI Z87.1-2003 standards |
|  | **Burette: (15nos.)-** 50 ml capacity,Straight bore PTFE stopcock, accuracy as per class A of IS1997:2008/ISO 385:2005 |
|  | **Ostwald’s Viscometer (20 nos.):** College Pattern, Oswald’s 80 - 100 Seconds, viscosity range (CS) 0.3-3, standard size (O) , nominal constant .0001. |
|  | **Stalagmometer (20 nos):** Borosilicate glass, easy to clean and perfect reading |
|  | **Titration flask (15 nos):** conical, narrow mouth, 250ml capacity, with interchangeable stoppers |
|  | **Volumetric Flask (5 nos):** 1000ml capacity, borosilicate glass, with Interchangeable Solid Glass Stopper, Accuracy as per Class A. |
|  | **Pipettes (20 nos.):** 10 nos of 10 ml capacity and 10 nos of 25 ml capacity, Measuring (Mohr Type), graduated for delivery from zero mark to the last graduation mark, Markings are made in permanent amber stain |

**Annexure-A**

Technical Specifications 5 feet Fume Hood for Chemistry Lab

**Superstructure Frame** – It shall be a free-standing rigid panel structure of steel (G.I.)

**Interior Walls** - Double wall ends, not more than 6” wide, shall be provided to maximize interior working area. The area between the double wall ends shall be closed to house the remote control valves. Cut-outs shall be provided inside the fume hood for service line accessibility. The same to have a cover with a fastener free design. The vertical fascias shall contain the required service controls, electrical switches and receptacles. Fume hood should be type-tested as per EN 14175 & ASHRAE 110 by a third party & certificate should be attached.

**Airfoil -** A streamlined airfoil shall be integral at the bottom of the hood opening on bench and distillation hoods. This foil shall provide a nominal 20mm open space between the foil and the top front edge of the work surface to direct an air stream across the work surface to prevent back flow of air. The sash shall be provided with a separate handle which also provides for air flow when in completely closed position. The foil shall be of 1.2mm steel to resist denting and flexing.

**Baffles -** A stable, non-adjustable baffle with a single slot on the back baffle to aid in distributing the flow of air into and through the hood. The baffle shall be spaced out from the back liner and shall be removable for cleaning. It shall have 3 point suction for low, medium and high density fume suction.

**Autosash (optional):** Fume Hood shall be equipped with auto sash features and the system shall have 2 modes:

**Auto mode** -The system shall sense user presence and open the sash to safe working height if user is present and close the sash after a delay of 60 seconds when user moves out of the sensing range

* If user returns to the Fume hood while the sash is closing, the sash shall reopen to safe working height.
* If any obstacle is detected during the automatic movement of sash, sash shall stop and the system shall give an alarm and indication.
* At any time, the user can operate the sash by hand

**Manual Mode**:

* Sash can be moved UP and DOWN using respective touch switches.
* All sensors shall be de-activated in Manual Mode.

The controls shall be via a touch panel for fume hoods with Autosash as shown in the image with touch buttons for various controls of Blower, Lights and Mode control. It shall also have visual indicators for User Present and Obstacle present

**Duct Collar -** A 8”-10” diameter polyethylene funnel shaped rectangular duct collar shall be located in the top of the hood plenum chamber.

**Lighting-** Two LED Lights of Philips or equivalent make shall be provided in the fume hood. The lighting fixture shall be completely outside the fume hood area. The luminosity on the work surface shall be average 600 lux

**Sash -** A vertical moving sash shall be provided having 5mm toughened clear glass. The bottom of the sash frame shall have a full length metal handle. The sash track has minimum protrusion to avoid any kind of turbulence. The sash shall be counterbalanced with a weights to prevent tilting and binding during operation. The glass panels shall be 5mm toughened glass mounted in a levelled channel with roller for smooth operation.

**Plumbing Services -** Utility services like Nitrogen, Vacuum, Compressed Air & Raw water (as per Schedule of Quantity) shall consist of remote control valves as selected located within the end panels, controlled by in and out facility with flexible hose passing through the side panels of the hood, with color coded plastic handles. Interior fitting for gases and water shall be with powder coated brass. All gas valves for regular lab gases to have standard needle valve and push and turn type arrangement for all burning gases shall be supplied. All supplied valves to clear the following pressure test conditions: Gas Fittings – 7 bar, Water fittings – 10 bar.

**Electrical Services –** The hood superstructure shall be fully wired and *shall* have a control box with MCB blower starter all safety devices like trip etc. Inlet shall be of 3 phase power supply and the whole electrical shall be of plug and play type. It also has 4 nos. electrical sockets and switches of Northwest make (230V, 5/16 A, 50 Hz)

**Electric Hatch** –There shall be two hatches, one in each vertical front side of the fume hood near worktop level which will allow passage of the electric wires of the equipment being used in the chamber to be guided through and connected to the electric power points

**Liner –** Interior liner panels shall be 6 mm thick Phenol resin based industrial laminate.

**Lattice Rod Assemblies -** 12mm dia solid SS rods shall be clamped with the PPclamps to form a lattice arrangement to hold the test samples and rotors within the fume hood.

**Base Cabinets –** Fume hoods are designed to rest on a bench (high base stand, pedestal or a cabinet) which is a complete rigid steel structure. Gauge of steel used in its construction shall be 0.8 mm GI for apparatus storages.

**Ceiling Enclosures -** Use to enclose space between front top and ceiling of Concept fume hood superstructure also provides enclosure for raised sash.

**Transition –** Used to connect fume hood with ducting. They are designed to reduce the static pressure and are made up of Poly-propylene of 6 mm thickness.

**Work Surface –** Standard hood work surface shall be 18mm thick jet black granite in the form of a watertight pan, not less than 7 mm deep to contain spillage. Worktop will have oval shaped 102 mm X 175 mm ‘PP’ Cup-Sink for drainage Premier . Top shall be manufactured at the same manufacturing location as the fume hood to assure proper cut-out alignment and coordinated shipping. The work surface and cup drain shall be available in black

**Annexure-B**

Technical Specifications: Rotary Evaporator

1. **Rotatory Evaporator:**

* Dimensions : (L x H x D) Approx. (390-450) x (400-550) x (310-

490) mm

* Weight : 15 - 20 kg with bath
* Operating voltage : 220 - 240 V
* Frequency : 50/60 Hz
* IP class : 20 or 21
* Rotation speed : (range) 20 - 280 rpm or more
* Flask size : 1000 - 4000 ml or more
* Max. Flask weight : 2.5 - 3.0 kg

1. **Heating Bath:** Heating bath should be constructed of an insulated double wall for user protection against burns and scalding

* Diameter Heating Bath : Approx. 250 - 300 mm
* Weight : Approx. 3.5 - 4.0 kg
* Operating voltage : 220 - 240 V
* Frequency: 50/60 Hz
* IP class : 20 or 21
* Bath size : 3.5 – 4.5 liter
* Temperature range : At least 20 – 95°C or more
* Regulation accuracy : +/- 1°C or better
* Display : LED/LCD

1. **Vacuum Pump**

* Diaphragm Pump : 2 Stages
* Volume flow rate : 1.5 -1.8 m3/h or better.
* Ultimate vacuum :7-9 mbar or better
* Operating voltage : 220 - 240 V/ 50-60Hz

1. **Other features:**

* Lift System: Manual
* Standard Joint: SJ 29/32 Glass Assembly:
* Vacuum Controller: I-100, with Woulff bottle
* Recirculating Chiller: without

System should be certified as complete for efficient removal of organic solvents and water at a temperature below their boiling point.

**Annexure II**

**TECHNICAL BID DOCUMENT**

**FORMAT TO BE FILLED BY OEM OR AUTHORISED VENDORS FOR SUBMITTING TENDER FOR PROCUREMENT OF \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **Name of the Tenderer:**
2. **Details of the Address of the Vendors: (Attach Details)**
3. **Proof of Registration or Trade Licence: (Attach Details)**
4. **GST Registration No. (attach copy)**

**Certified that the above information are correct to the best of my /our information, knowledge and belief.**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Dated Signature and seal of OEM/vendor**

**ANNEXURE-IV**

**<< Organization Letter Head >>**

**DECLARATION SHEET**

We, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ hereby certify that all the information and data furnished by our organization with regard to these tender specifications are true and complete to the best of our knowledge. I have gone through the specifications, conditions and stipulations in details and agree to comply with the requirements and intent of specification. We further certify that our organization meets all the conditions of eligibility criteria laid down in this tender document. Moreover, OEM has agreed to support on regular basis with technology / product updates and extend support for the warranty. We, further specifically certify that our organization has not been Black Listed/De Listed or put to any Holiday by any Institutional Agency/ Govt. Department/ Public Sector Undertaking in the last three years. The prices quoted in the bids are subsidized due to academic discount given to JNGEC Sundernagar.

**NAME & ADDRESS OF THE Vendor/ Manufacturer / Agent**

**Phone**

**Fax**

**E-mail**

**Contact Person Name**

**Mobile Number**

**GSTIN Number**

**(Signature of the Tenderer)**

**Name: Seal of the Company**

**ANNEXURE- V**

**MANUFACTURERS' AUTHORIZATION FORM**

[The Tenderer shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. Date: [insert date (as day, month and year) of Bid Submission]

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

**To:** [insert complete name and address of Purchaser]

**WHEREAS**

We [insert complete name of Manufacturer], who are official manufacturers of [insert type of goods manufactured], having factories at [insert full address of Manufacturer’s factories], do hereby author-ize [insert complete name of Tenderer] to submit a bid the purpose of which is to provide the following Goods, manufactured by us [insert name and or brief description of the Goods], and to subsequently negotiate and sign the Contract. We hereby extend our full guarantee and warranty as mentioned in the terms and conditions of the tender document, with respect to the Goods offered by the above firm.

**Signed**: [insert signature(s) of authorized representative(s) of the Manufacturer]

**Name:** [insert complete name(s) of authorized representative(s) of the Manufacturer]

**Title:** [insert title] Duly authorized to sign this Authorization on behalf of: [insert complete name of Tenderer]

Dated on \_\_\_\_\_\_\_\_\_\_\_\_ day of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_ [insert date of signing]

**ANNEXURE- III**

**FORMAT FOR QUOTATION SUBMISSION**

(In letterhead of the supplier with seal)

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_

To:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. No. | Description of goods \ (with full Specifications) | Qty. | Unit | Quoted Unit rate in Rs.  (Including Ex-Factory price,  excise duty, packing and forwarding, transportation, insurance, other local costs incidental to delivery and  warranty/ guaranty commitments) | Total Price  (A) | Sales tax and other taxes payable | |
| In % | In figures (B) |
|  |  |  |  |  |  |  |  |
| **Total Cost** | | | | |  |  |  |

Gross Total Cost (A+B): Rs. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. ———————— (Amount in figures) (Rupees ————————amount in words) within the period specified in the Invitation for Quotations.

We confirm that the normal commercial warranty/ guarantee of ——————— months shall apply to the offered items and we also confirm to agree with terms and conditions as mentioned in the Invitation Letter.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Contact No. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_