

**No. NU/Interim Camp/**

**Date:** 10<sup>th</sup> Feb 16

**To**

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**Sub:** Limited Tender Enquiry is invited for Quotation for providing and installing lab equipment's for SEES lab at Nalanda University.

Dear Sir(s),

1. Sealed quotations (Two bid) is invited for providing and installing lab equipments for SEES lab at Nalanda University, as per specifications detailed in annexed Price Schedule and on the terms & conditions as detailed.

**2. DUE DATE & TIME FOR RECEIPT/OPENING OF QUOTATION:-**

- (i) Last date and time to submit bid documents : 03.03.2016 (Thursday ) up to 3.00 pm
- (ii) Due date and time for opening of Bid: 03.03.2016 (Thursday) at 3.30 pm at University Campus, Nalanda University, Rajgir

**3. MODE OF SUBMISSION OF QUOTATIONS:-**

The quotation may be sent by post or may be dropped physically in the Tender Box of the Nalanda University, Rajgir, placed in the Reception on or before due date & time of receipt of bid as indicated above. Quotations not received by 3:00 PM on 03.03.2016, will not be entertained. The Nalanda University will not be responsible for any delay in receipt of quotation what so ever may be the reason.

**4. VALIDITY:-**

The offer shall be kept valid for a period of 90 days (Ninety days) from the date of opening of technical bid.

**5. PRICES:-**

The prices shall be for providing and fixing of lab equipment for SEES lab at Nalanda University, Rajgir, District Nalanda, On door delivery basis inclusive of packing, freight & forwarding charges, Excise Duty, VAT/CST/BRCT & other levies, if any. Payment of any types of Govt. Statutory levies/taxes will be responsibility of

the bidders. Bidders are to ensure that the rates/prices are strictly filled in the Schedule-I enclosed herewith.

**Earnest Money Deposit** : Rs. 44,000/- (**Rupees Forty Four thousand only**) drawn in favour of Nalanda University payable at Rajgir is to be submitted as EMD.)

**Details of the Earnest Money Deposit (EMD):-**

<b>Sr. No.</b>	<b>DD No.</b>	<b>Date</b>	<b>Amount (Rs.)</b>	<b>Drawn on Bank</b>

**Tender Fee:** - A demand draft amounting to Rs.500/- drawn at a nationalized bank in favour of Nalanda University payable at Rajgir is to be submitted as Tender fees.

**6. DELIVERY:-**

The delivery within stipulated time period (i.e. thirty days) will be the essence of the contract as per issuance of work order and has to be strictly adhered to by the bidder. There shall not be any compromise in the quality of goods delivered and scheduled delivery under any circumstances.

**7. BANK GUARANTEE:-** Successful bidder has to submit bank guarantee for an amount equivalent to 10 % of the quoted price of the equipment. The said bank Guarantee is required to be valid till sixty days beyond the guarantee period/Warrantee period, as applicable.

**8. PAYMENT:-**

Subject to completion of all formalities as per terms of order, 90% payment of each consignment inclusive of all charges shall be paid to the firms within 30 days from the date of fixing and installation of equipment in good condition. The payment shall be released by the Finance section (Bills), Nalanda University, Rajgir, District Nalanda only after satisfactorily delivery and installation certificate/commissioning. Balance payment will be released to the agency after submission of performance Bank Guarantee of an amount equivalent to 10% of the quoted price of said equipment.

**9. PENALTY:-**



The delivery period is the essence of the contract and has to be maintained under any circumstances. In case of delay in execution of the order, the Nalanda University may at its option either:-

(i) Recover from the supplier/vendor as agreed towards liquidated damages a sum @ ½% (half percent) of the price of any stores not delivered for a week or part thereof subject to maximum of 10%.

OR

(ii) Purchase from elsewhere on account and at the risk and responsibility of the suppliers, the stores not delivered or others of similar descriptions.

OR

(iii) Cancel the contract for part or whole of the quantity on order, with liability.

**10. CONSIGNEE:-**

The delivery of the item is to be made to the faculty In charge of SEES Lab, Nalanda University.

**11. ACCEPTANCE:**

It is not binding on the University to accept the lowest or any tender. The Nalanda University reserves their right to accept or reject any offer at its option or place order with more than one supplier for full or part of the quantity of this enquiry without assigning any reason and the same shall be binding on suppliers unless otherwise stated in the offer. No correspondence shall be entertained on this account.

12. If any item is not manufactured by the vendor, authorization certificate should be produced by the vendor positively. Authorization Certificate should be deposited to the undersigned before the delivery of items in case of awarding of contract.

13. Delivery of items will have to be done in stipulated time frame failing which the award of contract will automatically be cancelled and the contract will be awarded to next vendor.

**14. DISPUTES:**

All disputes, if any, out of or in respect to this enquiry are to be settled at court Rajgir District- Nalanda. Stated specifically to the contrary it shall be deemed that you have agreed to all terms and conditions mentioned in the enquiry and the same shall be binding on you.

Bidders/Suppliers are requested to confirm their acceptance to the commercial terms & conditions as per Enquiry. Stated specifically to the contrary it shall be deemed that you have agreed to all terms and conditions mentioned in the enquiry and the same shall be binding on you.

Please acknowledge the receipt of enquiry.



Yours faithfully

Registrar

**Nalanda University, Rajgir  
District : Nalanda (Bihar)**

**SCHEDULE-I: Price & Quantity**  
(To be kept in the sealed envelope)



<b>No</b>	<b>Particulars for Providing and fixing of following</b>	<b>Qty.</b>	<b>Per Unit Rate</b>	<b>VAT@ (%)</b>	<b>Total (including VAT)</b>
1	Semi-microbalance	1			
2	Remi centrifuge Rotor for 500 ml and 250 ml with polypropylene tubes	2			
3	Field binoculars	3			
4	Ultrasonic cleaner with perforated tray	1			
5	Quartz Double distillation unit (with water softener, power supply)	1			
6	Multi-parameter field kit	1			
7	DO meter, field model	1			
8	Conductivity & temp probe, field model (with long cable)	1			
9	pH, conductivity, turbidity, temp, Ca, F, Cl, Nitrate, Sulphate, Ammonium ions electrodes (bench model)	1			
10	pH meter, field model	2			
11	Water level meter (electronic)	1			
<b>Grant Total Amount (Rs)</b>					
<b>Grant Total Amount in words:</b>					

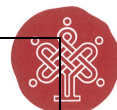
**NOTE:**

01. Rates in various tapering steps shall not be considered
02. The offers, with the rates given in any form/Performa, other than mentioned above may be liable for rejection.
03. Payment of any type of Govt. statutory levies/taxes will be responsibility of the Bidder.
04. While quoting the prices, Make and model of the offered material required to be indicated.

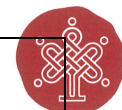
**SCHEDULE-II: Technical Specifications**

(To be kept in the sealed envelope)

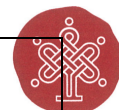
<b>Item #</b>	<b>Specifications</b>	<b>Unit(s)</b>
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<p><b>Nalanda University</b></p>	<p>Nalanda University, Rajgir, District Nalanda, Bihar-824 231, India T+91 611 2255 330 www.nalandauniv.edu.in</p> <p><b>Semimicro Balance</b></p> <p><b>Capacity</b> : <b>Approximately 200 g – dual/multi range 100/200 g</b></p> <p><b>Readability</b> : 0.01mg/0.1 mg</p> <p><b>Taring facility</b> : entire range</p> <p><b>Linearity</b> : better than 0.15mg/0.25 mg</p> <p><b>Sensitivity drift</b> : Max ± 0.00015%</p> <p><b>Display</b> : LCD/ Touch screen</p> <p><b>Calibration</b> : Built in fully automatic time and temperature controlled adjustment</p> <p><b>Leveling</b> : Intelligent leveling sensor with alarm function and interactive user guidance for reliable leveling preferred</p> <p><b>Stabilization time</b> : &lt; 7 sec/3 sec</p> <p><b>Pan size</b> : approx.. 80 mm</p> <p><b>Printer port</b> : built in USB port for printer/computer</p> <p><b>Power supply</b> : Should operate on 230 ± 10 volts, 50 Hz, AC; Static charge discharge facility preferred</p> <p><b>Working temp.</b> : 10 to 40 °C</p> <p><b>Relative air humidity</b> : 40 to 80%</p> <p>With Multiple selectable weight units and Multiple built-in application programs</p> <p>Password protection of setup parameters preferred</p> <p><b>Make</b> : Mettler; Sartorius; or equivalent</p> <p><b>Other requirement</b> : (i) To be supplied complete with dust cover, (ii) operation &amp; service manual, (iii) calibration certificate (iv) List of users with comments.</p>	<p><b>1</b></p>
<p><b>2</b></p>	<p>Angle rotor for Remi K-70 plus model heavy duty centrifuge</p> <p>(1) 12 x 100 ml rotor with 12 polypropylene tubes</p> <p>(2) 6 x 500 ml rotor with 6 polypropylene tubes</p> <p><b>Make: Remi</b></p>	<p><b>2</b></p>
<p><b>3</b></p>	<p><b>Field Binoculars</b></p> <p>i) Magnification: 10 x or better ii) Diameter of the front lens: 50 MM or more iii) Complete water proof protection iv) Dry Nitrogen – purged and sealed to prevent fogging, clouding and moisture damage. v) Fully multi – coated optics which maximizes light transmission for superior brightness and clarity. vi) BAK-4 prisms for crisp and clear images. vii) Extreme close focus distance. viii) Wide field of view ix) Optimum long eye relief with twist-up eye-cups. x) Large Knurled center focus knob for precise focusing. xi) Textured and rugged shock-absorbing rubber armor xii) Non-slip and ergonomic rubber design for a secure grip. xiii) Solid and sturdy construction. xiv) Deluxe carrying case and neck strap.</p>	<p><b>3</b></p>
<p><b>4</b></p>	<p><b>Ultrasonic cleaner with perforated tray</b></p> <p><b>Type</b> : Bath sonication</p>	<p><b>1</b></p>



<p>Nalanda University, Rajgir, District Nalanda, Pin 803 116, Bihar, India, T+91 611 2255 330 www.nalandauniv.edu.in</p> <p><b>Nalanda University</b></p>	<p>Capacity : approximate inner volume 4.5 L and inner dimension 24 x 14 x 10 cm</p> <p><b>Power supply</b> : 220-240 volts, AC, 0-100 Hz, phase 1, current 10-15 A</p> <p><b>Other requirements</b> : digital timer, light-weight and portable with a universal applicator cable to make changing applicators quick and easy. Perforated trays, solid insert trays, and wire mesh baskets have built-in handles specially designed to prevent accessories from touching the tank bottom.</p> <p><b>Frequency</b> : 25 - 60 KHz</p> <p><b>Ultrasonic power</b> : 100 - 200 W</p> <p><b>Warranty</b> : Three years</p>	
<p><b>5</b></p>	<p><b>Quartz Double distillation unit with softener</b></p> <p><b>Type</b> : Raw water to distillate quality</p> <p><b>DW Output Capacity</b> : 2.5 L/h or more</p> <p><b>Installation</b> : table top</p> <p><b>Power supply</b> : 230-250 V, single phase 4.4 kW</p> <p><b>Cooling water consumption</b> : 100 L/h</p> <p><b>Biological activity</b> : Pyrogen free</p> <p><b>pH</b> : 6.9 - 7.2</p> <p><b>Conductivity</b> : &lt; 1 x 10<sup>-6</sup> S/cm</p> <p><b>Total organic carbon</b> : &lt; 500 µg/L</p> <p><b>Total solids</b> : &lt; 0.1 mg/L</p> <p><b>Organic matter</b> : NIL</p> <p><b>KMnO<sub>4</sub> for color retention</b> : 1 hr.</p> <p><b>Distillate temp.</b> : 65 - 75 °C</p> <p><b>Total plate count</b> : 0</p> <p><b>Yeast and mould</b> : 0</p> <p><b>UV absorbance at 254 nm</b> : 0.007</p> <p><b>Additional spares of distillation unit</b></p> <ol style="list-style-type: none"> <li>1) Distillation apparatus power supply (DAPS) for output capacity 2.5 Lt/hr</li> <li>2) Softener</li> </ol> <p><b>Warranty</b> : Three years</p> <p><b>Make</b> : Borosil or similar.</p>	<p><b>1</b></p>
<p><b>6</b></p>	<p><b>Multi-parametric field kit (pH, TDS, Salinity, conductivity and temp.)</b></p> <p>For water sample analysis</p> <p><b>pH</b> : 0 - 14, accuracy : ±0.002Ph</p> <p><b>Conductivity (EC)</b> : 0- 2000 mS/cm, Accuracy : 0.5% of reading ±1 digit &gt;3µS/cm</p> <p><b>TDS</b> : 0 - 200 ppt, Accuracy : 0.5% of reading ±1 digit</p> <p><b>Temp.</b> : 0 - 110 °C (auto calibrated),</p> <p><b>Calibration points</b> : up to 5 points (Auto)</p> <p><b>Display</b> : Graphic LCD with backlight</p> <p><b>Keypad</b> : Numeric with menu specific function keys with dual purpose scroll</p>	<p><b>1</b></p>



<p>Nalanda University, Rajgir, District Nalanda, Pin 803 116, Bihar, India T: +91 611 2255 330 www.nalandauniv.edu.in</p>	<p><b>Protection glass</b> : permanent protection <b>Immersion depth</b> : Min. 75 mm and max. 200 mm (expandable) <b>Following should be the key features:</b> 1) LCD display 2) At least it should provide 800 h of operation 3) power adaptor should be there separately 4) with large memory space with time and date stamp 5) Alarm : High/low limit alarm, calibration limit alarm <b>Warranty</b> : 3 year for meter and module warranty <b>Make</b> : <b>Eutech, Orion, Thermo, etc.</b></p>	
<p>7</p>	<p><b>DO meter (Portable)</b> <b>Water proof</b> <b>Range</b> : 0 to 90.00 mg/l or ppm <b>Sensor type</b> : RDO optical dissolve oxygen sensors or polarographic dissolve oxygen sensor <b>Calibration modes</b> : Calibrate using water saturated air-air saturated water, a winkler titration or zero point calibration</p> <ul style="list-style-type: none"> <li>• LCD display must show D.O in percent saturation or concentration with temperature in electrode status, time, date, sample id, user id and calibration points</li> <li>• At least it should provide 800 h of operation, battery type : 4AA</li> <li>• power adaptor should be there separately</li> <li>• with large memory space with time and date stamp</li> </ul> <p><b>Temperature range</b> : 0 to 50 deg C <b>Accuracy</b> : +/- 0.1 ppm <b>Warranty</b> : 3 years <b>Alarm</b> : High/low limit alarm, calibration limit alarm <b>Make</b> : <b>Eutech, Orion, Thermo, etc.</b></p>	<p>1</p>
<p>8</p>	<p><b>Conductivity and temperature probe with cable</b> (Field model) <b>EC</b> : 0-200 mS/cm <b>Temp</b> : 8-50 deg C Cable length : Approx. 200 m Capacity to record and save the data inside or transfer to the attached data logger <b>Resolution</b> : 0.01, Accuracy: +/- 0.01 <b>Output</b> : Internal memory, USB or RS-485 <b>Power</b> : Internal battery <b>Warranty</b> : 3 years <b>Accessories</b> : Data logger</p>	<p>1</p>
<p>9</p>	<p><b>pH, DO, TDS, Salinity, conductivity, temp, and ions (Bench model, Multiparameter meter)</b> <b>pH</b> : 2 – 14, accuracy : ±0.002 pH <b>Conductivity</b> : 0- 2000µS/cm, Accuracy : 0.5% of reading ±1 digit &gt;3µS/cm</p>	<p>1</p>

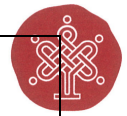


	<p><b>TDS</b> : 0 - 100 ppt, Accuracy : 0.5% of reading <math>\pm 1</math> digit</p> <p><b>D.O</b> : 0-40.00 mg/L (ppm), Accuracy :0.01-0.1 mg/l</p> <p><b>Temp.</b> : 0 - 110 °C,</p> <p><b>Ion selective electrodes:</b></p> <p><b>Resolution:</b> 2 auto-range scale : 0 to 99.99 mg/L, 100 to 8999.9 mg/L</p> <p><b>Accuracy</b> : 10% of reading or 2 ppm (whichever is greater)</p> <p><b>Chloride</b> : 0 - 20,000 mg/L or ppm</p> <p><b>Ammonium / ammonia</b> : 0 - 9000 mg/L</p> <p><b>Fluoride</b> : 0 - 1000 mg/L</p> <p><b>Nitrate</b> : 0 - 30000 mg/L</p> <p><b>Calcium</b> : 0 - 2000 mg/L</p> <p><b>Data management details</b> : transfer all data points, single to computer/ printer</p> <p><b>AC adapter</b> : Universal - 50-60Hz, 220-250VC power adapter</p> <p><b>Calibration</b> : All parameters (pH, mV, TDS, Salinity, DO, conductivity and temp, nitrate, fluoride, calcium, chloride, ammonium) should have calibration editing option</p> <p><b>Alarm</b> : High/low limit alarm, calibration limit alarm</p> <p><b>Display type</b> : Color graphic LCD with user customizable</p> <p><b>Keypad</b> : Numeric with menu specific function keys with dual purpose scroll</p> <p><b>Accessories</b> : Separate electrode (probe) for pH, Temp, Conductivity, TDS and DO, Cl, F, Ca, Nitrate, Ammonia, Sulfate ion electrodes and their standards</p> <p><b>Warranty</b> : 3 year for meter and module and software warranty</p> <p><b>Other requirements:</b> (i) To be supplied complete with operation &amp; service manual, (ii) calibration certificate (iv) List of users with comments.</p> <p><b>Make</b> : <b>Metrohm, Eutech, Orion, Thermo, etc.</b></p>	
<p><b>10</b></p>	<p><b>pH meter, field model</b></p> <p><b>Range (NTU)</b> : 0 to 14</p> <p><b>Resolution (turbidity)</b> : 0.1</p> <p><b>Accuracy</b> : <math>\pm 0.1</math></p> <p><b>display</b> :LED display, detector: photodiode, resolution: 0.01NTU</p> <p><b>Calibration</b> : Should have calibration editing option</p> <p><b>Measuring mode</b> : Normal, average and continuous</p> <p><b>Warranty</b> : Three years</p> <p><b>Make</b> : <b>Metrohm, Eutech, Orion, Thermo, etc.</b></p>	<p><b>2</b></p>

**Nalanda University**  
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 www.nalandauniv.edu.in

**Water level meter Electronic, with sound**  
**Cable length: 30 m approx.**  
**Material:**  
**Reel** : Polypropylene / aluminum coated  
**Tape** : Polyethylene coated steel  
**Probe** : PTFE and stainless steel  
**Power** : 9 Volt DC alkaline battery  
**Alarm** : Audible and visual  
**Accessories:** pressure and temperature sensors  
**Accuracy** : 1 mm  
**Warranty** : 3 years

**1**



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