



Bineswar Brahma Engineering College
Chandrapara Kokrajhar (BTAD)-783370, Assam

INVITATION LETTER FOR QUATATION

Ref: BBEC/TEQIP/2019/CRS/01

Date: 15/11/2019

To,
The Vendors

Dear Sir/Madam,

We herein invite quotation sealed quotation to supply the different items in the Lab of Dr. Vineeta Gautam (PI-), Assistant Professor, Department of Chemical Engineering, Bineswar Bhrama Engineering College, Kokrajhaar, Assam. These instrument/equipments/items are purchasing under the CRS project “**Develop novel polyaniline based composite materials to fabricate electrochemical biosensors for detecting some common disease biomarkers**”, Project Number” 1-37 20 664633...”. We are requesting to the concern persons/companies/supplier submit their competitive quotation for the following goods.

Sr. No	Item Name	Quantity	Place of Delivery	Installation Requirement (if any)
1	Electrochemical analyzer	1	Sensor Laboratory, PI: Dr. Vineeta Gautam Department of Chemical Engineering Bineswar Brahma Engineering College Chandrapara, Kokrajhar, BTAD, Assam-783370	Annexure I
2	Refrigerator 170 L	1		Annexure I
3	Magnetic stirrer cum hot plate with Teflon coated Magnetic beads of different sizes	1 4		Annexure I
4	Vacuum pump			Annexure I
5	Vacuum desiccator	2		Annexure I
6	Ultra-Sonicator Capacity of 2 Litter	1		Annexure I
7	1.5 KW off grid solar power system			Annexure I


	Solar panel 250 watt Batteries Solar inventor Battery stand Wire and other accessories need for installation of system	6 2 1 1		
8	Furniture Chair Table Rack Stool	2 2 2 2 2		Annexure I
9	Laptop and Hard disk	1+1		Annexure I
10	AC	1		Annexure I
11	Micropipettes A. 2- 20 μ L B. 20- 200 μ L C. 20- 1000 μ L	2 2 1 1		Annexure I
12	pH Meter	1		Annexure I

The specifications details of the items are given at Annexure I. When preparing your quotation, please be guided by the term and condition and form attached here to as Annexure II and III respectively. Quotations may be submitted on or before **30 Nov. 2019** by Courier mail/ speed post to the address below

Dr. Vineeta Gautam (PI)
Department of Chemical Engineering
Bineswar Brahma Engineering College,
Chandrapara, Kokrajhar (BTAD) Assam-783370, Assam
Attention: Dr. Vineeta Gautam (PI)/Principal
For any queries contact: gauamvinita09@gmail.com, 09365114227

BBEC look forwards to receive your quotation within due time limit and thank you for your interest in this project. The final quotation will be selected by the purchasing committee.

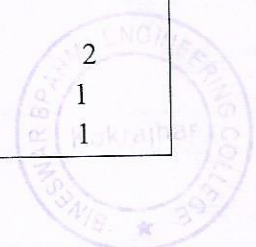



(Authorized Signatory)
Name & Designation

Bineswar Brahma Engineering College
Kokrajhar

Annexure I

Sr. No	Item Name	Specifications
1	Electrochemical analyzer	<p>Potentiostat-Galvanostat with Windows Based Acquisition Software. The soft ware consist all major electrochemical techniques</p> <p>Specifications are as follows:</p> <p>Cyclic Voltammety (CV) Linear Sweep Voltammety (LSV) Staircase Voltammety (SCV) Tafel plot (TAFEL) Chrono Amperometry (CA) Chrono Coulometry (CC) Differential Pulse Voltammety (DPV) Normal Pulse Voltametry (NPV) Differential Normal pulse Voltametry (DPNV) Square Wave Voltammety (SWV) AC Voltammety (ACV) Second Harmonic AC Voltammety (SHACV) Amperometric I-t Curve (I-t) Differential Pulse Amperometry (DPA) Double Differential Pulse Amperometry (DDPA) Triple Pulse Amperometry (TPA) Bulk Electrolysis with Coulometry (BE) Hydrodynamic Modulation Voltammety (HMV) Sweep-Step Functions (SSF) Multi-Potential Steps (STEP) AC Impedance (IMP) – 10u Hz – 1 M Hz Impedance – Time (IMPT) Impedance – Potential (IMPE) Chronopotentiometry(CP) Multi-Current Steps(ISTEP) Chronopotentiometry with Current Ramp(CPCR) Potentiometric Stripping Analysis (PSA) Open Circuit Potential – Time (OCPT) Galvanostat RDE control (0-10V output) Full version of CV simulator Impedance Simulator IR Compensation. Instrument should have USB interface with computer. And all other required assoceries.</p> <p>Electrochemistry Cell: It should consist of the following:</p> <ol style="list-style-type: none"> a. 20-90 mL Glass cell with suitable lid b. Cell stand c. N₂ Purge tube



		<p>d. 2mm diameter Pt disc electrode: 2</p> <p>e. 2mm diameter glassy carbon electrode: 2 Pt</p> <p>wire Counter electrode 1</p> <p>f. Ag/AgCl Reference electrode: 2</p> <p>g. Empty electrode body (carbon paste) 4</p> <p>Computer & Accessories A branded Computer with following configuration i5 processor or better 4 GB RAM 1 TB HDD DVD read/write combo drive 17" TFT Colour Monitor Keyboard Optical mouse Printer UPS with 30 min back up for the instrument.</p>
2	Refrigerator	170- 200 L 5 star rating Double door/s Along with voltage regulator
3	Magnetic stirrer cum hot plate with Teflon coated Magnetic beads of different sizes	Speed range 100 to 1500 rpm 150 Watt Temperature up to 550 Temperature and speed control Digital display Constant speed even with change in load Low weight
4	Vacuum pump	220V 180W 60HZ 3CFM 1/4HP Single Stage Rotary Vane Vacuum Pump HVAC AC Air Tool
5	Vacuum desiccator	Vacuum desiccators,PC/PP,with PTFE stopcock diam. 149 mm Can maintain a vacuum of 740 mm Hg for 24 hours. With PTFE stopcock for connection to flexible tubing with internal diameter of 6.4 mm. With neoprene sealing ring and perforated PP plate.
6	Ultra-Sonicator CLE Capacity of 2-3 Litter	High-frequency electrical energy is converted into ultrasound waves by means of ultras-transducers, which are bonded on the base of S. S. Water Tank. Operating frequency 33 KHz Frequency 50 KHz
7.	1.5 KW off grid solar power system	6 Solar panel 250 watt or Batteries Solar inventor Battery stand Wire and other accessories need for installation of system
8.	Furniture	Chair 2



		Table 2 Rack 2 Stool 4
9.	Laptop and Hard disk	Intel Core i5 8th Gen 15.6-inch FHD Laptop (8GB/1TB HDD/ Pre-installed Genuine Windows 10 OS MS Office 1 Year ADP+NBD Warranty Brand: Dell/Lenova/HP 1TB external Hard Disk.
10	AC	1.5 tons split AC 5 Star rating
11	Micropipettes	A. 2- 20 μ L 2 B. 20- 200 μ L 1 C. 20- 1000 μ L 1
12	pH Meter	<ol style="list-style-type: none"> 1. Should have Working range from 0 to 14. 2. Should have resolution 0.1/0.01 pH. 3. Should have Temperature compensation zero to 100 degree C with ATC. 4. Should have RS.232C output and supply Data connector cable. 5. Should have Automatic calibration facility. 6. Should have data storage facility and record maximum and minimum value. 7. Should have 3 stage calibrations. 8. Should have digital display with 0.001 pH unit readability 9. Should supply Tri-combination pH/ATC electrode 10. Should supply Electrode + Standard buffer solution (pH 4.0, 7.0, 10.01 x 50ml for each bottle) + standard electrode holder +Ac /DC Adaptor. 11. Should be provided with an electrode holder/arm with smooth movement



Annexure II

Terms and Conditions

- 1) The contract shall be for the full quantity as described above; corrections, if any, shall be made by crossing out, initialling, dating and rewriting.
- 2) All duties and other levies payable by the supplier under the contract shall be included in the unit Price.
- 3) Applicable taxes shall be quoted separately for all items.
- 4) 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.
- 5) The Prices should be quoted in Indian Rupees only.
- 6) Each bidder shall submit only one quotation
- 7) Quotation shall remain valid for a period not less than **45** days after the last date of quotation submission.
- 8) Evaluation of Quotations: The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which are properly signed; and Confirm to the terms and conditions, and specifications.
- 9) The Quotations would be evaluated for all items together.
- 10) 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.
- 11) 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.
- 12) 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.
- 13) Payment shall be made in Indian Rupees as follows:

Payment Description	Payment Percentage
Expected Delivery Period (in Days)	
Satisfactory Delivery & Installation (30)	10
Satisfactory Acceptance (30)	90
- 14) Liquidated Damages will be applied as per the below:

Liquidated Damages Per Day Min %:	0.01
Liquidated Damages Max %:	10
- 15) You are requested to provide your offer latest by **14:00** hours on/before **30 Nov 2019**
- 16) All supplied items are under warranty of **12** months from the date of successful acceptance of items and AMC/Others are: **Yes**
- 17) Testing/Installation Clause (if any) **Yes**
- 18) Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.



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. _____

