DEPARTMENT OF LIFE SCIENCE AND BIOINFORMATICS
ASSAM UNIVERSITY, SILCHAR
(A Central University constituted under the Act of Parliament of India in 1994)
Tel: +91-3842-270260, Fax: +91-3842-270802
www.aus.ac.in

NOTICE INVITING TENDERS

Assam University, Silchar, a central University invites **SEALED BIDS** from reputed manufacturers /authorized distributors / authorized firms with sound technical capabilities for supply, installation and commissioning of the following items to be procured under DBT RGYI Project in the Department of Life Science and Bioinformatics, Assam University, Silchar.

Serial no.	Description and specification of the item	Last date of submission of sealed tender
1.	**<u>WATER PURIFICATION SYSTEM</u>** 1. Elix electrodeionization technology, with advanced reverse osmosis technologies; optimized microbiological contamination removal; continuous regeneration of ion-exchange resins. 2. Important water quality parameters display: water resistivity and RO permeate conductivity; alert/alarm message on screen. 3. Low electricity consumption; low feed water volume. On-demand water production at a flow rate of up to 2L/minute. Easy pre-treatment cartridge replacement. 4. Water quality in compliance with the "Purified Water" standards of the European and U.S. Pharmacopoeias. 5. Ion-exchange resin and ion-selective membranes. Advanced reverse osmosis to produce high quality Type II pure water. 6. Minimum eight (8) litre tank integrated in to the system, to deliver up to 30 litters water per day. 7. A complete set of accessories.	**17.05.2015**

2.	**<u>High Performance Liquid Chromatography System</u>** <u>1. Solvent Delivery:</u> High Pressure binary gradient Two pump System with wide range. The machine should be operable both in isocratic and gradient mode. The flow rate for EACH PUMP should be within a range from 0.001 to 10 ml/min with the possibility of increment of 0.01 ml/min for carrying out semi-preparative applications. Precise stepper motor control (48 steps/µl resolution) of dual reciprocating pistons to ensure pulse free solvent delivery. Flow Accuracy: +/- 1.0% or better Max. Operating pressure: Should be 6000 psi Flow Calibration: Programmable Flow Precision: ≤ 0.1% RSD or better System Delay volume to be lesser than 400 µl The pump should be corrosion resistant and applicable to wide range of pH and solvents. Gradient Mixer must be the part of each pumping system. Option for programming for fast & slow gradients to separate eluted peaks at close proximity. System should have possibility to operate in at least 1-10 or more gradient curve mode including Liner, Step, concave, convex & Exponential etc. (Should be mentioned in the printed brochure). <u>2. Sample Injector:</u> Rheodyne injector should be offered with suitable sample loops with automatic starting of analysis. <u>3. Original HPLC Manufacturer's Licensed Software</u> Chromatography software with integrated database (Oracle 8.0/SQL/ACCESS). Database for easy tracking and trending: Instrument Method, Processing Method, Report Method, etc. Custom field / Custom calculations. Pre-made templates, customizable data reports, online help and answer Wizards are all included to help maximize your lab's productivity. Each injection is time and date stamped for easy archiving, retrieval of data. Drag and Drop, look and feels of Windows. Report publisher facility for customized reports. Custom reporting with view filters for easy retrieval. Scale from a single workstation to an enterprise vide network. Software should offer multiple levels of password, security to ensure the integrity of all your raw data and results and extensive audit trail. Security of data, custom reporting with view filters for easy retrieval. Report publisher facility for customized reports. It should be up gradable for Automated method development Software.	**17.05.2015**

	4. Pulsed Electrochemical Detector : Operating Modes: Direct Current, Pulsed Amperometric Detection Scan. Potential Range : ±2000 mV in mV steps(DC, PAD Scan) Analog Signal output : ±1 Volt or ±10 Volt Selectable. Output Resolution : Analog 20 bit DAC, 24 bit RS232 digital communication to chromatography software personal workgroup or client computer. Analog signal offset : ±50% of analog signal output, in 10% steps. Autozero : Maximum Autozero determined by analog signal potential range, triggered by keypad, event in signal or software control. Integrated flowcell & Column volume : 7ºC Above ambient to 45 ºC, 0.1 ºC Resolution. DC Range : Filter Time Constant : 0.1 to 5.0s in 1, 2, 5 sequence steps. Noise : <2pA Drift : <8pA/hour. PAD Mode : Range : 10 nA to 200 µA 1, 2, 5 sequence steps Scan Mode : Scan Range : 10 nA to 200 µA 1, 2, 5 sequence steps Flow Cell : Design : Confined Wall Jet Standard Flow Cell : 0.080 µl minimum Volume, flow rates from 25.000 µl/min to 2000.00 µl/min Working Electrode Material : Glassy Carbon, Gold, Platinum, Silver. 5. Accessories: Necessary Accessories C18 Column 4.6 x 250 mm, 5um along with suitable branded Computer with high speed processor and memory. Should be provided with a online UPS (preferably 5KVA).	
3.	**STEREOTAXIC APPARATUS** **(ONLY FOR MICE)** 1. 25cm X 25cm Footprint. 2. Gas Anaesthesia compatible. 3. Ear and tooth bar post height adjustment to accommodate animals between 10-75g. 4. Delrin® ear bars, with 3 types of head holders. Triple lead screw in manipulator arm for fast positioning. 5. Accurate to 100 microns (Non-Digital), 6. 10 microns (Digital Only) or 1 micron (Motorized Only) 7. 10 Micron Resolution. 8. Ensure accurate placement of electrodes, micropipettes, cannula, and other devices. Instrument built especially for mice. 9. A zeroing function to allow to target specific coordinates in	**17.05.2015**

	the brain for injection, implantation, etc. no Calculation of distance measurements. 10. Ear bars should be composed of light Delrin material with tapered points or non-invasive rubber pads or jaw holder cuffs. 11. Target Small Brain Regions with Confidence. 12. Compatibility for: (i). Manual as well as automated Injector. (ii). Dual arm capable (For electrophysiology studies that requires both recording and stimulation. Light ear bars; ear bar posts should be independently adjustable in height to level the skull.) (iii). Digital LED display (iv). Software and motor controlled (v). Integrated Stereotaxic Atlas (vi) Mouse and rat brain stereotaxic atlas	
4.	**STEREOTAXIC, SURGICAL ACCESSORIES** 1. Dental cement to affix stainless steel to skull (Requirement 12 no.) **2.** Bone Anchor screw (Stainless steel, Size 1.59mm, O.D., 3.2mm (Requirement 5 pack); **3.** Syringes that fits to Stereotaxic apparatus (10 microliter Volume; Requirement 5 no.)	**17.05.2015**

Terms and Conditions:

1. The tenders complete in all respects should be addressed to **Dr. Anupom Borah, PI, DBT-RGYI Project, Department of Life Science and Bioinformatics, Assam University, Silchar-788011, ASSAM**
2. The tenderers for equipments must submit the bid(s) in two-bid system (Technical and Financial).
3. Tenders by e-mail, Fax, Telex, Telegram will not be accepted. Tenders must be submitted in sealed envelope only clearly indicating "**TENDER FOR ITEMS FOR DBT-RGYI/Life Science-2015"**
4. In case of any modification in specifications / terms and conditions / any clarification to the bid document, it will be hosted in the University website only and the bidders are requested to log to our website from time to time and no separate corrigendum will be issued in this regard.
5. The rate should be exclusive of taxes and applicable tax should be clearly indicated.
6. The rates should be quoted along with supporting documents of specifications, technical features, list of users and authorized dealership documents (if applicable)
7. Details of availability of after sales support will have to be furnished.
8. **The University is exempted from paying Customs and Excise duty**.
9. Proprietary items should be quoted with sole Manufacturer / Dealership certificate. Without dealership or manufacturer's certificate no bids will be accepted.

10. No advance payment will be made. However, if items are of foreign origin, advance payment can only be made in the form of vide **LOC/FDD/Wire Transfer**. **Performance Bank Guarantee may be submitted as per rules covering warranty period.**
11. Items of foreign origin should have insurance up to installation site.
12. If any item / equipment delivered in damaged condition, the equipment should be replaced with new one immediately.
13. In case of equipment of foreign origin, the Indian agent should submit one undertaking in nonjudicial stamp paper, stating that if any equipment delivered in damaged condition they will be liable to replace the same with a new one (**applicable only when order is placed**).
14. The University reserves the right to accept or reject any or all the bids without assigning any reason whatsoever.

Sd/-
Dr. Anupom Borah
PI, DBT-RGYI project
Department of Life Science and Bioinformatics
Assam University, Silchar – 788011, INDIA

PROFORMA FOR SUBMISSION OF TECHNICAL BID (TB)

From
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To,
Dr. Anupom Borah
PI, DBT-RGYI- Project
Department of Life Science and Bioinformatics
Assam University, Silchar – 788011, India

With reference to your advertisement dated published in the Newspapers and posted at Assam University Website, I / We hereby submit the Technical bid for the _____ required by you. I / We confirm that I / We are the owners / authorized person to offer you the item as per the desired specifications.

Serial no.	Technical Specification	Details to be filled by offerer

Date:

(Signature of the Offerer)

OFFICE SEAL

(This format shall be sent in a separate sealed cover super scribing - "TECHNICAL BID FOR EQUIPMENTS FOR DBT-RGYI/Life Science-2015")

PROFORMA FOR SUBMISSION OF FINANCIAL BID (FB)

From
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To,
Dr. Anupom Borah
PI, DBT-RGYI project
Department of Life Science and Bioinformatics
Assam University, Silchar – 788011, India

Having read and understood the Technical bid, I am / We are furnishing the desired information and submitting our Technical Bid duly signed by our Authorized person. Now we hereby submit (in separate sealed cover) our Financial Bid for the purchase of equipments.

Serial no.	Specification of Items	Details to be filled by offerer
1	Item	Price in INR /$/Other currency whichever is applicable (Please mention separately the price of the items, accessories, insurance, etc. under separate heads)
2	Applicable taxes	To be included
3	FOR Silchar	To be included
4	Special Offer/ Discount	To be included
5	Grand Total	Price in INR /$/Other currency whichever is applicable
6	Terms and condition	As applicable
7	Warranty and after sales service	As applicable
8	Banking Details (For foreign items)	To be included

Date:

(Signature of the Offerer)

OFFICE SEAL

(This format shall be sent in a separate sealed cover super scribing - "FINANCIAL BID FOR EQUIPMENTS FOR DBT-RGYI/Life Science-2015")