

BHARATHIAR UNIVERSITY : COIMBATORE 641 046

RE-TENDER NOTICE

Ref.No. BU/RUSA 2.0/R3/2020/632

Date. 17.09.2020

Sealed Tenders are invited by the Registrar, Bharathiar University, Coimbatore 641 046 up to 3.00 P.M on **07.10.2020** from the reputed firms for the supply of the following equipments to the respective departments in separate covers, RUSA 2.0 BEICH Project.

S.No.	Department	Name of the Equipment	Tender Cost in Rs.	EMD Cost in Rs.
1	Chemistry	Photocatalytic reactor	315/-	4,375/-
2		Photoelectric flow reactor	788/-	5,375/-
3	Zoology	Fluorescent Microscope with camera	788/-	12,500/-
4	Nano Science & Technology	3D Bio Printer	788/-	10,000/-
5		High Pressure Dispenser	315/-	2,375/-

Tender Documents can be downloaded from our website: www.b-u.ac.in. from **18.09.2020 to 07.10.2020**. The **aforsaid Tender costs and EMD costs each separately** in the form of DD drawn in favour of The Registrar, Bharathiar University, Coimbatore has to be enclosed while submission of tender .

**REGISTRAR i/c
BHARATHIAR UNIVERSITY**

Copy to:

1. The Registrar i/c, BU.
2. The Finance officer, BU.
3. The Prof & head, Dept of Chemistry, BU.
4. The Prof & head, Dept of Zoology, BU.
5. The Prof & head, Dept of Nano Science & Technology, BU.
6. Dr I.Prabha, PI, RUSA 2.0 Project, Dept. of Chemistry, BU.
7. Dr P.Saravanabhavan, PI, RUSA 2.0 Project, Dept. of Zoology, BU.
8. Dr A.M.Ballamurugan, PI, RUSA 2.0 Project, Dept. of Nano Science & Technology, BU.
9. The PROi/c, BU- with a request to release in Dailies and to host the above in the Univ.Website

BHARATHIAR UNIVERSITY –COIMBATORE 641 046

TENDER TERMS AND CONDITIONS

- 1 Sealed Tenders will be received by the **Registrar, Bharathiar University from the reputed firms** up to **3.00 p.m. on 07.10.2020** for **the supply and installation of** of the following equipments to the respective departments in separate covers **for the RUSA 2.0 BEICH Project** specified in the schedule.

S.No.	Department	Name of the Equipment
1	Chemistry	Photocatalytic reactor
2		Photoelectric flow reactor
3	Zoology	Fluorescent Microscope with camera
4	Nano Science & Technology	3D Bio Printer
5		High Pressure Dispenser

2. Tender should be addressed to the Registrar, Bharathiar University and should be only in sealed covers by Registered post/ or in person. Tenders received in ordinary covers without seal will not be considered.
3. The tender shall be submitted in a sealed cover with **Ref. No. and superscribed as “Tender for the supply of the required equipment to the respective department for the RUSA 2.0 BEICH Project. Due on 07.10.2020. The covers received without such superscription will be rejected summarily.**
4. a)Tender shall be accompanied with the **requisite following tender fees and EMD in the form of DD drawn in one of the Nationalised Banks in the name of “Registrar, Bharathiar University” payable at Coimbatore. Bank Guarantees will not be accepted.**

S.No.	Department	Name of the Equipment	Tender Cost in Rs.	EMD Cost in Rs.
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5		High Pressure Dispenser	315/-	2,375/-

- b).Tenders without EMD shall be summarily rejected. EMD will not carry any interest. of tenderers specifically exempted by the Government from the payment of earnest money deposit /tender cost necessary certificate should be enclosed for exemption otherwise it will be liable for rejection
- 5. The tenders will be opened on 07.10.2020 at 4.00 p.m. by the Registrar or his/her nominee in the presence of the tenderers** or their representatives who may be present at the time of opening. The representatives of the tendering firms who are attending during opening of the tenders should bring **a letter of authorization** from the tendering firms, which they represent to identify their bonafied.
6. Tenders received late i.e. after 3.00 p.m. on due date will be returned to the tenderer unopened.
- 7 The tender shall be valid for a maximum period of 180 days from the date of opening of the tender in acceptance .
8. If the tender validity is less than **180 days** the tender will be rejected as non-responsive tender. Tenderer should not withdraw his tender after the tenders are opened. In case the tender is withdrawn after it opened, the EMD will be forfeited and black listed.
9. The rate should be quoted for item with specification and model if applicable and should be indicated clearly both in words and figures. Any scoring of overwriting should be attested by the tenderers with full signature. The rate quoted should be firm and should not subject to any variation clauses.
10. The EMD of the unsuccessful tenders will be refunded immediately after the tenders are disposed of by the competent authority.
- 11 . Successful tenderer shall execute an agreement for the fulfillment of contract in the Rs.100/- stamp paper of TamilNadu as per the model format. The conditions stipulated in the form should be strictly adhered to and violation of any of the conditions will entail termination of the contract without prejudice to be right of the University and to recover any consequential loss from the successful tenderer.

12. **Successful tenderer shall remit a Security deposit 5% to the order value.** The EMD will be refunded to the successful firm after remittance of security deposit or it may be adjusted towards Security deposit. Security Deposit will be refunded at the end of warranty period as per the purchase order subject to the satisfaction of the University.
13. If the Successful tenderer failed to act up to the tender or backs out when his tender accepted the EMD will be forfeited
14. a) Manufacturer / Authorized Dealer / Distributor/ Supplier can also bid with authorization letter from the manufacturer.
b) Manufacturer should not authorize more than one dealer / distributor for participating in the tender.
15. The material should be supplied strictly in accordance with the specifications given in the Appendix and should fulfill the successful tests carried out by the Competent Authority of the University.
16. The supply and installation should be made as per the delivery schedule to be sent by the Registrar along with the exact location of the work. The guarantee period shall take effect from the date of installation . Successful tenderer shall be liable to change any defective part during the warranty period. In either case the damaged or defective items will have to be taken back at supplier's cost and risk.
17. The installation should be completed within the stipulated period mentioned in the supply order. If the supply is not made within the period, the supply order will be cancelled and the EMD & Security deposit will be forfeited.
18. The materials are to be guaranteed as per the required warranty period . The warranty period specified will commence from the date of installation .
19. The materials quoted shall confirm to ISI standard. The make of the materials shall be mentioned in the tender.
20. Any dispute arising out of this contract shall be settled only at the court having jurisdiction of Coimbatore.
21. The authority competent to accept or reject any tender without assigning any reasons thereof..
22. Regarding the acceptance of supply with reference to the specification and quality of materials supplied, the decision of Registrar shall be final.
23. Price:
 - a) **For Imported:** The Price shall be quoted in Currency for CIP Chennai / FOR Coimbatore.
 - b) **For Indigenous** : Quote the price in INR inclusive of GST, packing , transportation and warranty. Separate charges for warranty will not be considered at any cost ,
24. The University is registered with DSIR and eligible for exemption towards customs duty as per the Government Notification No: 51/ 96 Customs Dt.23.7.1996.and Central excise duty as per Government Notification No.10/97 Central Excise Dt: 1.3.1997.

The GST and IGST will be paid as per Govt Notification No.45/2017 –Central Tax (Rate) &47/2017-Integrated Tax(Rate) dated 14.11.2017 : NO. 9/2018-Central Tax(Rate), No.09/2018- Union Territory Tax(Rate) & No.10/2018 – Integrated Tax(Rate) dated 25.01.2018: and State Tax(Rate).
25. This University do not have IEC number and exempted from application of rules as per Foreign Trade for importers in certain cases since 1993 . This is a Research Institution Permanent IEC numbers shall be used at the time of Customs clearance .

26 The customs clearance, transportation and delivery charges up to the University have to be borne by the firm. Local supplier shall arrange an authorized customs clearing agent on behalf of the University for customs clearance. Necessary documents will be provided for customs clearance after receipt of airway bill/shipment notice, packing list and invoice.

27. **PAYMENT :**

a) If the quoted price in currency, the payment will be made by irrevocable Letter of Credit (LC) in favor of the Principal Supplier (OR) Currency Wire Transfer to the Principal Supplier only after supply and installation of the equipment . Advance Currency Wire transfer is not applicable

b)If the quoted price in INR, the payment will be made after supply and installation. No advance payment will be made .

28. **Additional Documents required**

- GST Number along with the copy of the registration Certificate
- PAN Number along with the copy of PAN
- Company Profile.
- Copy of the supply order and installation record at reputed institutions / organizations and sufficient service back-up in Tamil Nadu
- Any other relevant details in support of the items specified.
- Full descriptive particulars and manuals of the equipment

29. The University will not offer any explanation to those tenderers whose bid has not been found acceptable by the competent authority

30. Tenders will be considered from the Manufacturers / authorized distributors.

31. The University's general rules for the supply of the materials and works will apply on this purchase also.

32. No communications from any tenderer adding to/adhering or explaining any terms of the tender will be considered prior to the submission or after opening of the tenders by the competent authority

33. In case of any modifications in specifications/terms and conditions/ any clarifications to the bid document it will be hosted in our website only and bidders are requested to log on to our website from time to time regularly for any amendment, no separate corrigendum will be issued in this regard.

34. The tender shall be submitted along with the downloaded tender documents subject to and agreeing the above conditions duly attested and certified.

TO BE FILLED IN BY THE TENDERER:

Tender Cost		EMD	
DD No /Date	Amount	DD No/Date	Amount

SIGNATURE OF THE TENDERER

SCHEDULE

1. Photo-catalytic reactor

S.No	Specifications	Qty	Price	
1	Photo-catalytic reactors with suspended catalyst give much better contact between the photo-catalyst and dissolved impurities comparing to reactors with immobilized catalyst.	1		
	Light sources			UV High Pressure, Xenon Lamps and Mercury Halide Amalgamation Lamp
	Photo catalytic Reactor with triple jacketed with 3 port to insert			(i) catalyst (ii) Sample draw (iii) for additional use like temperature sensor etc.
	Inner Jacket			Quartz
	Outer jacketed			Borosilicate glass
	Extra cooling jacket			for water circulator with two port inlet and outlet
	Capacity			250 mL
	UV Protection Cabinet and Chiller Circulator			Available
	Voltage			220 - 240 V
	Frequency			50 Hz
	Power (Max)			500 W
	Connection			Grounded, single-phase outlet

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2. Proposed batch reactor for degradation process

S.No	Specifications	Qty	Price
2	<p>The technical specifications for the proposed batch reactor for the water degradation process are listed below.</p> <ol style="list-style-type: none">1. Waste water tank Material – Glass Capacity- 10 litres Dimension- 60 cm x 40 cm x 15 mm Conductor - Non-conductor2. Water supply Motor Power – 0.18 kW Maximum total head – 45 mts Maximum flow rate – 1.01 Lps3. Water pipe Internal diameter- 13 mm Length – 10 feet Weight- 1 kg Material- Poly vinyl chloride (PVC)4. Residue filter- Carbon filter	1	

	<p>Each carbon filter is typically given a micron rating that specifies the size of particle which the filter can remove from a fluid. Typical particle sizes which can be removed by carbon filters range from 0.5-50 μm.</p> <p>5. Glass Vessels -02 Material – Glass Capacity- 10 litres Dimension- 60 cm x 40 cm x 15 mm Conductor - Non-conductor</p> <p>6. Heating coil Capacity – 1000 watts Power- 1 kW Volt-230V 50 HZ AC (length- 10.25 inch) Operating voltage-220-240 V</p> <p>7. Electrodes Electrode material (Anode) – Iron electrode Electrode material (Cathode) – Copper cathode Electrode dimension-30 x 10 cm with 1 mm thickness</p> <p>8. Power supply Specific power consumption- 5 and 10 kWh/ (PE) PE = Population Equivalent or unit per capita loading</p> <p>9. UV light UV irradiation at 253 nm using a 350 Watts Hg vapour lamp</p> <p>10. Magnetic stirrer- With hot plate – Digital Rotation per Minute (RPM) REMI (2000) 1 MLH Speed range of 0-1500 rpm Maximum quantity 2000 Litre Stainless steel top for chemical resistancy and scratch resistance High magnetic adhesion and prevents the stirrer bar escape Brushless DC motor is maintenance free and explosion-proof</p> <p>11. Wooden rectangular stand Material –wood Dimension- 3m length x 2m width</p>		
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SIGNATURE OF THE TENDERER

3. Fluorescent Microscope with camera

S.No	Specification	Qt	Price																																																													
3	<p>Specifications of Trinocular LED fluorescence microscope, image analyzing system, and desktop PC</p> <p>1. Biological Microscope - Trinocular LED fluorescence microscope</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Optical System</td> <td colspan="3">UIS2 (universal infinity-corrected) optical system</td> </tr> <tr> <td>Illumination System</td> <td colspan="3">Built-in transmitted illuminationsystem, Köhler illumination (fixed fielddiaphragm), LED power consumption 2.4 W (nominal value),pre-centered</td> </tr> <tr> <td>Focusing</td> <td colspan="3">Stage height movement (coarse movement stroke: 15 mm), Stroke per rotation for coarse adjustment knob: 36.8 mm, Focusingstopper, Torque adjustment for coarse adjustmentknob, Fine focus knob (minimum adjutsment gradations: 2.5µm)</td> </tr> <tr> <td>Revolving Nosepiece</td> <td colspan="3">Fixed quintuple nosepiece with inward tilt</td> </tr> <tr> <td>Stage</td> <td colspan="3">Wire movement mechanical fixed stage, (W × D): 211 mm × 154mm, Traveling range (X × Y): 76 mm × 52mm, Single specimen holder (optional: double specimen holder, sheetholder), Specimen positionscale, Stage XY movementstopper</td> </tr> <tr> <td rowspan="5">Observation Tube</td> <td>Type (anti-fungal)</td> <td>Binocular</td> <td>Trinocular</td> <td>Tilting binocular</td> </tr> <tr> <td>Eyepiece (anti-fungal)</td> <td>10X Field Number (FN): 20</td> <td>10X Field Number (FN): 20</td> <td>10X Field Number (FN): 18</td> </tr> <tr> <td>Tube Inclination</td> <td>30°</td> <td>30°</td> <td>30°– 60°</td> </tr> <tr> <td>Light Path Selector</td> <td>None</td> <td colspan="2">None (eyepiece/camera port = 50/50 fixed)</td> </tr> <tr> <td>Interpupillary Distance Adjusting Range</td> <td colspan="3">48–75 mm</td> </tr> <tr> <td>Condenser</td> <td colspan="3">Abbe condenser NA 1.25 with oilimmersion, Universalcondenserwith7turretpositions:BF(4–100X),2X,DF,Ph1,Ph2,Ph3,FL, Condenser turret lock pin (BFonly), Built-in aperture irisdiaphragm, AS lockpin</td> </tr> <tr> <td>Observation Methods</td> <td colspan="3">Brightfield, simple polarization, fluorescence, phase contrast, darkfield</td> </tr> <tr> <td>Objectives</td> <td colspan="3"> Plan achromat (UIS2), anti-fungal 2X NA0.06 W.D. 5.8mm 4X NA0.1 W.D. 18.5mm 10X NA0.25 W.D.10.6mm 10XPH NA0.25 W.D. 10.6mm 20X NA0.4 W.D. 1.2mm 20XPH NA0.4 W.D. 1.2mm 40X NA0.65 W.D. 0.6mm 40XPH NA0.65 W.D. 0.6mm 60X NA0.8 W.D. 0.2 mm 100XO NA1.25 W.D. 0.13mm 100XOPH NA1.25 W.D. 0.15mm 100XOI NA1.25–0.6 W.D. 0.13 mm </td> </tr> <tr> <td>Fluorescence Light Source</td> <td colspan="3">LEDreflectedfluorescenceilluminator(peakexcitationwavelength470nm:Bexcitationonly), pre-centered</td> </tr> <tr> <td>Rated Voltage/Electric Current</td> <td colspan="3">AC 100–240 V 50/60 Hz 0.4 A</td> </tr> </table> <p>2. Microscope camera Five megapixel (5MP) microscope camera with image analyzing software</p> <p>3. Desktop PC CPU: i3 processor, 256 GB SSD storage, 8 GB RAM, Windows 10 Pro 62-bit operating system (Genuine), MS office 10 or 13 (Genuine), DVD writer.<u>Monitor</u>: 22 inch Full HD LED Backlit panel.<u>Peripherals</u>: Wireless keyboard and mouse.</p>	Optical System	UIS2 (universal infinity-corrected) optical system			Illumination System	Built-in transmitted illuminationsystem, Köhler illumination (fixed fielddiaphragm), LED power consumption 2.4 W (nominal value),pre-centered			Focusing	Stage height movement (coarse movement stroke: 15 mm), Stroke per rotation for coarse adjustment knob: 36.8 mm, Focusingstopper, Torque adjustment for coarse adjustmentknob, Fine focus knob (minimum adjutsment gradations: 2.5µm)			Revolving Nosepiece	Fixed quintuple nosepiece with inward tilt			Stage	Wire movement mechanical fixed stage, (W × D): 211 mm × 154mm, Traveling range (X × Y): 76 mm × 52mm, Single specimen holder (optional: double specimen holder, sheetholder), Specimen positionscale, Stage XY movementstopper			Observation Tube	Type (anti-fungal)	Binocular	Trinocular	Tilting binocular	Eyepiece (anti-fungal)	10X Field Number (FN): 20	10X Field Number (FN): 20	10X Field Number (FN): 18	Tube Inclination	30°	30°	30°– 60°	Light Path Selector	None	None (eyepiece/camera port = 50/50 fixed)		Interpupillary Distance Adjusting Range	48–75 mm			Condenser	Abbe condenser NA 1.25 with oilimmersion, Universalcondenserwith7turretpositions:BF(4–100X),2X,DF,Ph1,Ph2,Ph3,FL, Condenser turret lock pin (BFonly), Built-in aperture irisdiaphragm, AS lockpin			Observation Methods	Brightfield, simple polarization, fluorescence, phase contrast, darkfield			Objectives	Plan achromat (UIS2), anti-fungal 2X NA0.06 W.D. 5.8mm 4X NA0.1 W.D. 18.5mm 10X NA0.25 W.D.10.6mm 10XPH NA0.25 W.D. 10.6mm 20X NA0.4 W.D. 1.2mm 20XPH NA0.4 W.D. 1.2mm 40X NA0.65 W.D. 0.6mm 40XPH NA0.65 W.D. 0.6mm 60X NA0.8 W.D. 0.2 mm 100XO NA1.25 W.D. 0.13mm 100XOPH NA1.25 W.D. 0.15mm 100XOI NA1.25–0.6 W.D. 0.13 mm			Fluorescence Light Source	LEDreflectedfluorescenceilluminator(peakexcitationwavelength470nm:Bexcitationonly), pre-centered			Rated Voltage/Electric Current	AC 100–240 V 50/60 Hz 0.4 A			1	
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4. 3D Bio Printer

S.No.	Specifications	Qty	Price
4	3D Bio Printer : <ul style="list-style-type: none">• Printer with Multiple Printer Heads or Universal Printer Head• Overall Science Ranging from: 250 * 250* 250 mm to 500 * 500 * 500 mm• Accuracy: 1 nm• Resolution: 10 to 15 micron• Speed: 10,000 to 15,000 mm / min• Mechanical: Stepper Motor, Timing Belt and Single Deposition Extruder• Syringe with Different Capacity• Nozzle with different size• Heated Bed: PCB heating system• Different Types Printing Substrates• Extrusion Speed 15 to 200 N• UV or LED Curing• Materials: Bio-Materials, Pastes, Fluids and Hydrogels• Input: Standard User Friendly File Format• USB Interface• Software: Windows, Linux• Single Command Printing Specification• Power: 220V AC, 120W• Along with Essential Accessories and Consumables <p><u>Warranty:</u> Three Years Replacement Warranty</p>	1 No.	

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5. High Pressure Dispenser

S.No.	Specifications	Qty	Price
5	High Pressure Dispenser : <ul style="list-style-type: none">• Vacuum pressure dispenser capacity 50-200ml• Stirring capacity 500-15000rpm• pH sensor and Digital Display• Temperature display (5-120°C)• Electronic speed control• Electronic overload protection system• Error code display• Super silent operation	1 No.	

SIGNATURE OF THE TENDERER