



MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

(Formerly WEST BENGAL UNIVERSITY OF TECHNOLOGY)

Main Campus: NH 12, Haringhata, Post Office - Simhat, Police Station – Haringhata, Pin - 741249

City Campus: BF-142, Sector -I, Salt Lake, Kolkata -700 064

TENDER FOR SUPPLY OF INSTRUMENTS

Tender Ref. No.: MAKAUT-WB/2020-21/PHARMA/005/Instrument-2

Dated: 07-09-2020

Maulana Abul Kalam Azad University of Technology, West Bengal (MAKAUT, WB) invites quotations for supplying of Instruments to the Dept. of Pharmaceutics at the Haringhata Campus of the University.

Please follow the Part-A, Part-B, Part-C and Part-D of this tender for further details.

Part-A: General Information

- 1) Name of the Vendor:
- 2) The firm is running business from / for:
- 3) Address:
- 4) Official Contact Number(s):
- 5) Official E-mail address:
- 6) Contact Person detail [Name, Designation, Contact No. & E-mail address]:
- 7) Whether has *Valid* Trade License for Financial Year 2020-2021? **Yes / No**
- 8) PAN:
- 9) GSTIN:
- 10) P. Tax Registration Number:
- 11) Tender Fee (Rs.500/-) deposit detail:
 - a) Transaction reference no. and date:
 - b) Bank A/c No., Bank Name & Branch from where the amount was debited:
12. Any other necessary information that the vendor would like to mention:
 - a)
 - b)
 - c)
 - d)
 - e)
 - :
 - :
 - :

Part-B: BoQ for the items to be supplied

| Sl. No. | Item | Qty. | Item Rate (Rs.) | Item Value (Rs.) | % of GST | GST Amt. (Rs.) | Total Value (Rs.) |
|------------------------------|---|--------|-----------------|------------------|----------|----------------|-------------------|
| 1. | Magnetic Stirrer 500ml | 1 No. | | | | | |
| 2. | Tablet Coating Machine | 1 No. | | | | | |
| 3. | Autoclave | 1 No. | | | | | |
| 3.a. | Pressure Cut Out System | 1 No. | | | | | |
| 4. | Tablet punching machine | 1 No. | | | | | |
| 5. | Monsanto Hardness tester | 1 No. | | | | | |
| 6. | Friability test apparatus | 1 No. | | | | | |
| 7. | BOD Incubator | 1 No. | | | | | |
| 8. | Hot Plate | 1 No. | | | | | |
| 9. | Water Bath | 1 No. | | | | | |
| 10. | Homoginizer | 1 No. | | | | | |
| 11. | Microscope | 1 No. | | | | | |
| 11.a. | Binocular Microscope | 1 No. | | | | | |
| 12. | Stage Micrometer | 1 No. | | | | | |
| 12.a. | Ocular Micrometer | 1 No. | | | | | |
| 13. | Extractive Distillator (Soxhlet Extraction Unit 360Watts) | 1 No. | | | | | |
| 14. | Mechanical Stirrer | 1 No. | | | | | |
| 15. | Ultra sonicator | 1 No. | | | | | |
| 16. | Franz Diffusion Cell | 1 No. | | | | | |
| 17. | Hot Air oven | 1 No. | | | | | |
| 18. | Desiccators | 2 Nos. | | | | | |
| 19. | Refrigerator | 1 No. | | | | | |
| 19.a | Voltage Stabilizer | 1 No. | | | | | |
| 20. | Centrifuge | 1 No. | | | | | |
| 21. | Micropipette Single channel (200µl, 1 ml) | 2 Nos. | | | | | |
| 21.a | Micropipette multi-channel | 2 Nos. | | | | | |
| TOTAL (including all) | | | -- | xxxxx | -- | xxxxx | xxxxx |

Part-C: Specifications of the items to be supplied

1. Magnetic Stirrer 500ml

“REMI” Micro Magnetic stirrer Capacity-500ml, Cat No- MS-500.

2. Tablet Coating Machine

“SECOR” TABLET COATING PAN ELECTRICALLY OPERATED FITTED WITH 12” DIA MADE OF STAINLESS STEEL.

Machine is fitted with gear Box Electric Motor of heavy duty to work on 220 Volts A.C. An Air blower is provided to operate independently. An Energy Regulator is provided. Complete unit supply with neon indicator. Switch and 3 core wire and plug.

3. Autoclave

“INSTIND” AUTOCLAVE, VERTICAL, ELECTRIC FOR 220/230 V. AC:

- Boiling Chamber : Made of Stainless Steel 16 SWG AISI 304 Grade.
- Ring : Made of Stainless Steel.
- Lid : Made of Stainless Steel is tightened with swing nuts and bolts.
- Outer Jacket : Made of thick gauge mild steel sheet with m.s.handle paddle lifting of lid & legs. Nicely spray painted.
- Lid lifting : Paddle lifting device.
- Basket : Stainless Steel perforated for putting materials for testing.
- Heaters : Industrial type Immersion heater.
- Fittings : Pressure Gauge, Safety valve, Pressure release cock etc with plug & cable.
- Max. Pressure : 20 lbs / Sq. inch.

Boiler Size

12” Dia. X 20” Deep

Instrument must be ISO 9001-2015 and CE Certified.

3.a. Pressure Cut Out System

AUTOMATIC PRESSURE CONTROL SWITCH(PIEZOSTAT) : This functions interlocking the heaters on set operable pressure thereby saving electrical energy and ensuring safety in operation.

Instrument must be ISO 9001-2015 and CE Certified.

4. Tablet punching machine

“SECOR” TABLET MACHINE, HAND OPERATED, SINGLE PUNCH FOR MAKING TABLETS

For making Tablets upto 1000 m.g for pharma colleges and not for production purposes supplied with one punch size of the punch 9 mm, Automatic compression and ejection device with each revolution of the wheel drives. Hopper provided and connected by a rubber tube. The unit is built on a heavy duty base plate.

5. Monsanto Hardness tester

“SECOR” TABLET HARDNESS TESTER (MASANTOO TYPE) (Scale from 0 to 20 Kg.)

A fairly handy instrument for taking quick reading hardness of tablets. It is made of Gun Metal /Brass turned parts heavily chrome plated. The scale is 0 to 20 kg. The index and division in 1 kg. Reading scale is adjustable for zero setting as per side of the tablets. Complete in case. Monsanto's hardness tester

6. Friability test apparatus

“LABTRONICS” TABLET FRIBILITY TEST APPARATUS MODEL-LT- 70,

Measures Obsession Strength of Tablets with programmable timer. Rotation Speed 25rpm± 1 auto & manual model of operation with 2 acrylic drums, Results are displayed on 3 digit LED display and it has 3 digit pre-settable control.

7. BOD Incubator

“INSTIND” BOD INCUBATOR, COMBINED LOW & HIGH TEMPERATURE, PROVIDED WITH PRECISE ELECTRONIC TEMPERATURE CONTROL WITH DIGITAL READOUT -- Made in India

- Construction: Double-walled with adequate polystyrene and glass wool insulation.
- Inner Chamber: Stainless Steel, duly polished with different shelf positions.
- Outer Walls: CRC Steel Sheet, scraped and treated with anti-corrosive primer and finished with powder coating.
- Outer Door: The outer door will be double walled duly insulated and provided with magnetic strip gasket with proper sealing and locking device.
- Inner Door: An Acrylic/Glass door is provided.
- Forced Air Circulation: Provided by a multi-vaneblower fan of Aluminium having brass shaft.
- Non-CFC Refrigeration System: Done by a hermetically sealed ISI marked and approved Copeland refrigeration compressor with balanced condensing unit.
- Heating System: Provided by a pair of replaceable type sealed air heaters made of nickel-chromium resistance wire.
- Temperature Controller: Precisely done by a fully automatic solid state digital temperature indicator cum controller in conjunction with PT-100 sensor and heavy duty low voltage electronic delay \ relay system. The temperature indicator indicates both set temperature and actual values and has a resolution of 0.1° C.

Technical Specifications:

- Temperature Range : 5°C to 60°C
- Mode of Temp. Control : By a sensitive Electronic Temperature Controller with Digital Indicator with assured performance related to Maintenance of Set and Desired Temperatures.
- Accuracy of Control : Plus/Minus 0.5°C to 1°C.
- Air Circulation : Provided with a smooth running continuous duty Blower fan to operate alternatively ensuring prolonged Operational life.

- Insulation : Adequately done with non-hygroscopic glass fiber wool.
- Working Chamber Made of : Stainless Steel Sheet.
- No. of Trays : 2/3 Numbers Perforated SS Trays.
- Safety Device : A built-in delay relay system is provided in the control circuit to safeguard the refrigeration compressor against abrupt starting in the event of restoration of power after load shedding.
- Operable on : 220/230 Volts, Single Phase, 50 Cycles, AC Mains.
- Size of the Working Chamber :

| Volume | Inner Dimension | No of Tray |
|--------------|------------------|------------|
| 170 Lt/6 cft | 45 x 45 x 80 cms | 3 |



Instrument must be ISO 9001-2015 and CE Certified.

8. Hot Plate

“INSTIND”HOT PLATE :- Rectangular mild steel Top plate mounted on m.s. housing duly spray painted. Kanthal Grade A-1 heaters are distributed underneath the plate. Temperature is controlled by Energy Regulator. Complete with cord, plug etc. Operating on 220/230 V. AC.
Plate Size – 18” x 12”

Instrument must be ISO 9001-2015 and CE Certified

9. Water Bath

“INSTIND”BOILING WATER BATH, DIGITAL CONTROL, 6 HOLES:

Inside made of stainless steel AISI 304 Grade, outside of mild steel with powder coating. Glass wool insulation. Top cover made of Stainless Steel. 75 mm (3”) openings (holes) are provided with concentric rings. Temperature is controlled by Digital Temperature Indicator cum Controller range 5°C above ambient to 99°C. Heating is effected by Immersion heater. Operating on 220/230 volts A. C.6 Holes

Instrument must be ISO 9001-2015 and CE Certified

10. Homoginizer

“REMI” High speed homoginizer with 1/8HP Motor & transformer speed regulator Cat No- RQ-127A/D

11. Microscope

“WEXWOX” SENIOR LABORATORY AND MEDICAL MICROSCOPE

(Wide Field Model):

A Superior and most advanced microscope for the use in research and pathological Laboratories and clinical centers.

WESWOX optics & KEOWA 100x oil imm.

TECHNICAL SPECIFICATIONS:

- Monocular body with horse shoe shaped base hinged type, versatile designed inclinable through 90° Aluminium Die-Cast parts.
- Mechanical tube length 160 ± 1 mm.
- Quadruple revolving nosepiece with positive centring and click stop.
- Coarse motion through rack and pinion. Very precise and accurate graduated fine motion reading to .002 mm.
- Fixed square stage 120mm x120mm fitted with detachable graduated mechanical stage for X and Y movement up to 40mm to 75mm.
- Two lens Abbe condenser NA 1.25 with iris diaphragm and swing out filter holder with blue filter, moveable through rack and pinion.
- A standard plano-concave mirror 50mm dia. in fork, replaceable by a sub-stage microscope lamp. Safety stopper prevents damage to slide and objectives.
- Black stoving finish and hard instrumental chromium finish.
- Complete with optics, these microscopes are packed in shockproof Styrofoam molded box having provision for placing eyepieces, objectives and dust cover.

OPTICAL COMBINATIONS:

Eyepieces : HKW 10x (Wide Field) & H-15x.

Achromatic Objectives : Anti-fungus, Anti-reflection coated, colour-coded parfocal objectives
10x, 40x(SL) & 100x Oil Imm.(SL)

Magnification Range : 100x - 1000x

Model

HL-4

- a) WESWOX Optics
Warranty 2 Years

11.a. Binocular Microscope

“WESWOX” BINOCULAR MICROSCOPE (with built-in light arrangement)

Model- HL-66

Technical Specifications:-

- | | |
|-----------------------|---|
| ▪ Stand - | Rigid & Heavy single mould aluminium die-cast stand. |
| ▪ Observation Head- | Binocular head inclined at 45o and rotatable in 360o. |
| ▪ Eyepiece - | 10x WF (paired) anti-fungal eyepiece. H6x (paired) extra. |
| ▪ Nosepiece - | Quadruple ball bearing revolving nose piece |
| ▪ Objectives- | 4x/0.10, 10x/NA 0.25, 40x/NA 0.65(SL) & 100x/NA 1.25(SL) Oil imm. |
| ▪ Stage - | Size 120x140mm with co-axial controls for X & Y movement. |
| ▪ Focusing - | Separate coarse and fine knobs reading up to 0.002mm. |
| ▪ Condenser- | NA 1.25 fitted with iris diaphragm and blue filter holder. |
| ▪ Illumination- | Halogen 6V-20W with variable intensity control. |
| ▪ Power- | AC input 100V-240V, 50/60 Hz ISO 9001, CE approved. |
| ▪ Packaging Contents- | Styrofoam molded, Nylon Dust cover, |
| ▪ Warranty- | 2 Years |

12. Stage Micrometer

“ERMA” Stage Micrometer

12 a. Ocular Micrometer

“ERMA” Ocular Micrometer

13. Extractive Distillator (Soxhlet Extraction Unit 360Watts)

“INSTIND” Soxhlet Extraction Unit: No water is used since highly efficient heating elements carried by flexible glass fabric in close proximity to the flask ensure perfect heat transfer. So there is none disadvantage associated with water as heating medium, Glass wool insulation between heating elements and M.S. housing reduces heat losses to a minimum. Accurate control of temperature is attained by means of built – in Energy Regulators. Indicator lamp for each recess is provided. Supplied complete with 3 Pin plug and a length of 3 core PVC cable. Suitable for 220V.A.C. (without Glass Parts, boss heads & Clamps).

| Capacity | No of Flask recesses | Energy Controller | Total Watts. |
|----------|----------------------|-------------------|---------------|
| 250ml | 3 | 3 | (120 x 3)=360 |

Complete with Following Accessories.

- a) **“BOROSIL” Extraction Apparatus**, Soxhlet complete with Allihn Condenser, Interchangeable joint. Flask Capacity – 250 ml, Extractor Capacity- 100 ml
 - b) **Clamp with Boss head**
Instrument must be ISO 9001-2015 and CE Certified
14. Mechanical Stirrer
“REMI” All purpose stirrer with 1/20 HP Motor, chuck & transformer speed regulator Cat No- RQ-122/D
15. Ultra sonicator
“LABMAN” DIGITAL ULTRASONIC CLEANER with Lid, Digital Timer, Heater & Basket

Salient Features

- * Continuous Self-tuning Circuitry for any change in workboars Liquid Level and Bath Temp.
- * Uniform Cavitations throughout the tank with special transducers
- * Separate Oscillator Eliminates damage to Generator in case of failure of Transducers
- * Using 40 KHz Frequency for Effective Cleaning with Low Noise
- * Designed for complete cleaning of small and large components without dismanting
- * Inner tank and outer body made of Stainless Steel

Specification:

- Make : LABMAN
- Ultrasonic Frequency : 40 ± 3 KHz
- Heating : Ambient to 80°C Digitally Controlled (Dual Display)
- Digital Timer : 5 to 60 Minutes
- Inner Tank Material : Stainless Steel
- Outer Housing Material : Stainless Steel
- Power Supply : AC 220V/50Hz

| Model | Capacity | Ultrasonic Wattage |
|--------|----------|--------------------|
| LMUC-3 | 3 Litres | 100W |

16. Franz Diffusion Cell

Specification: Vertical glass diffusion cells are classic Franz Cells, diameter: 25mm.

17. Hot Air oven

“INSTIND”HOT AIR DRYING OVEN, ELECTRIC FOR 220/230 V. AC.

Inner chamber is made of **Stainless Steel AISI 304 Grade**, outside of mild steel finished in Powder Coated, duly insulated with glass wool Insulation. Double walled single door with hinges and handle. Tubulature for thermometer and air regulator on top Kanthal heaters are distributed on bottom. Temperature is controlled by Digital Temperature Indicator cum Controller range 5°C above ambient to 250°C. Complete with shelves Cord, plug, cable etc.

Size – 18” x 18” x 18”

Instrument must be ISO 9001-2015 and CE Certified

18. Desiccators

“TARSONS” DESICCATOR Dia. mm 200mm

19. Refrigerator

“REMI” LABORATORY REFRIGERATORS TEMPERATURE RANGE 1°C-10°C
Recommended Voltage Stabilizer-VS-02

New ranges of refrigerators from REMI are designed for storage applications in pharmaceutical, microbiology, biotechnology, chemical, clinical diagnostic, hospitals & research institutions. The units supplied with a glass door for convenient sample viewing forced air circulation ensures uniform temperature throughout the chambers, Digital Controller is provided for display of internal temperature along with alarm system.

Salient Features

- Plastic inner chamber; Outer body pre painted G.I
- Frost Free/Static Cooling. Energy efficient
- Uniform cooling by forced air circulation
- Adjustable Plastic coated wire mesh shelves
- Clear product visibility with dual glass

| Model No | Capacity | Cooling Type |
|----------|----------|--------------|
| RLR-300 | 300Lit | Frost Free |

19.a. Voltage Stabilizer

Servo Control Voltage Stabilizer input 170 volts to 260volts, output 220 volts to 240volts Cat No – VS-02

20. Centrifuge

“REMI” CLINICAL CENTRIFUGE with 8 x 15 ml, swing out head & 15 ml, tapered bottom glass tubes Cat No-C-854/8

21. Micropipette Single channel (200µl, 1 ml)

“ANM” Variable Volume Pipette man(Single)

Features:

- Ergonomic Design ensuring light weight & soft plunger movement
- High grade engineering plastics
- Smart engineering design
- Click-stop digital system for volume setting
- 100% Fully Autoclavable Pipettes
- Color coded for easy identification
- Calibration conform to DIN 12650 & EN-ISO 8655 standards ensuring high accuracy & precision
- Calibration report enclosed with every pipette
- Volume: 200 to 1000 ul

21.a. Micropipette multi channel

“TARSONS” Multi-Channel Pipettes

8 Channel Pipette; Capacity- 0.5-10ul, 5-0ul, 50-300ul

Part-D: General Terms & Conditions

- 1) The bidder should be a registered firm under prevailing rules having an office in West Bengal, preferably in Nadia, North 24 Parganas or Kolkata and will provide essential registration numbers like PAN, GSTIN, Profession Tax, etc.
- 2) The web tendering process will be two-stage bidding: (a) Technical and (b) Financial.
- 3) In order to maintain the confidentiality, the financial bid (BoQ) must be a password-protected file. The bidders have to send both Technical and Financial bids to purchase@makautwb.ac.in mail address and the password of the password-protected financial bids file to registrar@makautwb.ac.in mail address.
- 1) The total of "Item Value (Rs.)", "GST Amt. (Rs.)" and "Total Value (Rs.)" should be mentioned in the BoQ. The sum of the "Total Value (Rs.)" column will be considered the total bid price. No other charge in addition to that value will be accepted by the University (except any hike in Govt. levies, duly supported by the respective Govt. order / notification).
- 2) Last date of submission of bids: 14th September, 2020 (through e-mail only).
- 3) Any firm already having any legal dispute with the University need not to submit the bid.
- 4) The Technical Bid should contain the following items in the respective sequence:
 - a) Duly filled formats as mentioned in **Part-A**.
 - b) Valid Trade License (for the financial year 2020-2021) of the firm. *In case the latest Trade License (2020-2021) not yet available to the firm, trade license for 2019-2020 may be enclosed along with a copy of application for renewal / fees payment receipt for the financial year 2020-2021.*
 - c) PAN Card copy
 - d) GSTIN Copy
 - e) P. Tax Registration Copy
 - f) Any other document, the bidder feels necessary to furnish.
- 5) Apart from the above list mentioned above, the University may ask the bidder for any other document(s) / information, if feels necessary. The bidder has to furnish the document(s) / information immediately failing which his bids will be rejected.
- 6) All the documents should be authenticated with official stamp and signature / signatures thereon by the bidder.
- 7) Submission of false document(s) / information by the bidder will result into cancellation of bid and the University may take strict action against that bidder.
- 8) Any document sent in .jpeg / .jpg / .doc / .docx / .xls / .xlsx format will not be accepted.
- 9) Incomplete / Partial bidding will not be allowed. The commercial bid should be exactly as per the given BoQ format. Rate-based quotation is not preferred.
- 10) **Tender Fee (Non-Refundable) detail:**
 - a) Tender Fee Amount : Rs.500/- (Rupees Five Hundred only)
 - b) Bank & Branch : Indian Bank, Salt Lake Branch
 - c) Bank Account No. : 6360279330
 - d) Bank Account Name : MAKAUT, WB
 - e) IFS Code : IDIB000S147
 - f) Mode of deposit : NEFT / Net Banking / UPI (through various payment gateways)

The bidder must mention the transaction details in Part-A of this tender which will be subject to cross-checking at the University end during the time of technical evaluation. Bid without tender fee and/or without relevant deposit details will not be considered.

- 11) The University reserves the right to accept or reject any bid without showing any reason.
- 12) Any dispute which may arise between the bidder and the University regarding this bidding shall be referred to the Vice Chancellor of the University whose decision shall be final and irrevocable in this regard.
- 13) Being the lowest bidder (L1) in term of quoted amount (incl. all) may not be the only condition to receive the order, other criteria like having PAN, GSTIN, location of office, etc. may also be considered during selection of the eligible bidder. Decision of the University in such case will be the final.
- 14) In case the selected bidder is unable to supply the items after being selected to supply the items or after receiving the respective order from the University, the bidder should immediately inform the University Authority about the same by e-mail. Decision of the University in such case will be the final.
- 15) Items should be as per the specifications mentioned in **Part-B** of this tender.
- 16) Warranty on the items should be available as per the OEM policy. Post sales service should be ensured by the bidder / manufacturer as and when required by the University.
- 17) Delivery of the items to the destination is solely the bidder's responsibility and no extra charge will be paid by the University for the same. Any damage of any item during transit will be the responsibility of the bidder.
- 18) Govt. levies will be as per existing Government Rules. The University will provide DSIR Certificate against which all permissible tax relief has to be ensured.
- 19) If any vendor is registered under GST Composite Scheme, the same is to be mentioned in Part-A (Item No.9). The same may also be mentioned in the BoQ.
- 20) Payment will be subject to successful delivery and installation (if required) of the required items and necessary approval by the Approval Authority of the University. No additional charge will be paid by the University towards installation charges.
- 21) Apart from submitting the hard copies, a copy of the order, challan and bill / invoice should be mailed to: finance@makautwb.ac.in.
- 22) The bidder should submit GST-compliant bill / invoice for GST bill / invoice. Copy of the order received by the vendor always should be attached to the challan and bill / invoice.
- 23) PAN, GSTIN and Bank details of the bidder are to be mentioned in the bill / invoice.
- 24) Statutory deductions (if any) during payment process will be made as per existing Government Rules.
- 25) The payment will be made only in favour of the bidder's name. Any exception in this regard will subject to the consideration of the University Authority only.
- 26) For any query related to the bid submission, the bidder may contact the University by e-mailing to purchase.makaut@gmail.com.

Sd.
Registrar
MAKAUT, WB