**BHARATHIAR UNIVERSITY: COIMBATORE 641 046**

**TENDER NOTICE**

**Ref. No. C7/DST-PURSE PHASE II/Equip/156-4/ATC/2023 Date: 27.02.2023**

Sealed Tenders are invited by the Registrar, Bharathiar University, Coimbatore 641 046 up to 3.00 P.M on **17.03.2023** in two bids **(**Technical and Commercial ) from the reputed firms for the supply of **Animal Tissue Culture Facility** under DST-PURSE PHASE II Programme.

|  |
| --- |
| **TENDER COST : Rs. 7,080/-(inc of GST) EMD : Rs. 24,000/-**  **LAST DATE FOR SUBMISSION OF TENDERS: 17.03.2023 up to 3.00P.M.**  **TECHNICAL BIDS OPENING DATE : 17.03.2023 at 4.00 P.M.** |

The tender documents can be downloaded from our website [www.b-u.ac.in](http://www.b-u.ac.in) and www.tenders,tn.gov.in **from 28.02.2023 to 17.03.2023**

**REGISTRAR i/c**

**BHARATHIAR UNIVERSITY**

**Copy to:  
 1) PS to the V.C.’s Committee**

**2) PA to the Registrar i/c**

**3) The Finance Officer,BU**

**4) Dr. V. Thirunavukkarasu, Dept. of Biotechnology, Convenor, (ATC)Purchase facilitation committee.**

**5) Dr. R. Sathishkumar, Co-ordinator, DST-PURSE PHASE II, BU**

**6) Data Centre i./c – with a request to host the above in the Univ.website and TN Govt**

**Tender portal.**

**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 17.03.2023** in **two bids (Technical & Commercial)** for the **supply and installation of Animal Tissue Culture Facility, Bharathiar University (Appendix ).**
    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 cover with **Ref. No. should be superscribed as “Tender for the supply and installation of Animal Tissue Culture Facility, Bharathiar University Due on 17.03.2023.** The covers received without such superscription will be rejected summarily. All covers containing the tender should be sealed. Separate sealed covers should be used for technical and price bid and please be superscribed on the cover .
    4. **Technical Bids will be opened on 17.03.2023** at 4**.00 p.m. by the Registrar or his/her nominee in the presence of the tenderers** or their representatives may be present at the time of opening. The representatives of the tendering firms who attends during opening of the tenders must produce their identification proof and authorization letter from the tendering firms

If the tenderers are unable to participate at the time of tender opening kindly be informed to the Registrar through mail [directorcrtd@buc.edu.in](mailto:directorcrtd@buc.edu.in) and dstpurse@buc.edu.in.

**Price bids will be opened after technical evaluation of bids which will be informed later.**

1. The tender shall be accompanied with the requisite **Tender cost of** **Rs. 7,080/-(inc of GST ) and EMD of Rs. 24,000/-** in the form of DD drawn in one of the Nationalized Banks in the name of “Registrar, Bharathiar University” payable at Coimbatore. Bank Guarantees will not be accepted. .
2. Tenders without EMD shall be summarily rejected. EMD will not carry any interest. If tenderers specifically exempted by the Government from the payment of EMD/Tender Cost necessary certificate (SSI, NSIC, MSME) in respect of the item for which the registration certificate has been obtained .
3. **The University is not be responsible for any postal delay in receipt of tender. Delayed/Late bids will not be accepted at any circumstances. Any tender received after the due date will be returned to the tenderer**
4. The tender shall be valid for a **maximum period of 180 days** from the date of opening of the tender in acceptance. 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.
5. **Faxed bids will be rejected**.

**10) The initial examination shall consider the following factors, namely**:-

(a) Whether the tenderer meets the eligibility criteria laid down in the tender documents;

(b) Whether the tender documents each page have been duly signed;

(c) Whether the requisite Earnest Money Deposit (EMD) with appropriate validity has been furnished;

(d) Whether the tender is substantially responsive to the technical specifications and commercial conditions set out in the tender documents.

e) Tenders which on initial examination are found not to be substantially responsive under any of the above clauses shall be rejected for further scrutiny.

**11). TECHNICAL BID –Evaluation - Eligibility Criteria**

**The bidders must fulfil the following eligibility conditions and also submit the documentary evidence in support of fulfilling these conditions while submitting the technical bid**

1. The brief description of the equipment with make and model
2. A tenderer should be a manufacturer possessing a valid manufacturing license from the competent authority for manufacturing the items. (Documentary evidence to be furnished)
3. The manufacturer should be an ISO:9001/Equivalent certificate company .
4. Documentary evidence should be enclosed.
5. Authorized Dealer can also bid with authorization letter from the Principal Manufacturer of OEM for the proposed equipment who has supplied in India over the past three years. (Documentary evidence to be furnished).
6. **A manufacturer shall not authorize more than one dealer / distributor** for participating in this tender.
7. In case a tenderer is participating as an authorized Dealer/Distributor the

manufacturer of the item should satisfy the conditions mentioned at (b) and (c) above

1. The Copy of the GST Registration Certificate and Copy of PAN
2. The annual turnover of the bidder for the last three financial years
3. The tenderer submitting their offer must have supplied and installed of similar nature of the item most preferably orders received for previous two/three years from Govt department/ Institutions/ University/Govt undertaking/ organizations (documentary evidence to been closed)
4. The tenderer should not have been blacklisted or debarred from participating in tenders by any Central/State Government agencies or autonomous bodies or universities/ institutions. (An undertaking to this effect should be furnished)

**12) The** bidders who fulfil the eligibility criteria laid down will be considered for technical valuation. The price bid of the technically qualified bidders will be opened for negotiation

**13) PRICE BID :**Price shall be quoted as per the format given in Appendix-.

The tenderer shall not carry out any alteration in the format prescribed for Price Bid. The tenderer

shall not enclose any other document or statement that will influence the price.In such an event,

the tender inviting authority shall summarily reject the tender.

**Imported** :The tenderer shall quote the price in currency for **FOR Coimbatore inclusive of all other charges** (break up details necessary) up to the destination and should be indicated clearly both in words and figures.

I**ndigenous**: the tenderer shall quote the basic price+GST with warranty. No separate charges for warranty period will be considered

Any scoring or overwriting in the price bid should be attested by the bidder with full signature. The rate quoted should be firm and should not be subject to any variation clauses.

University shall not pay any increase in duties, taxes and surcharges on account of any revision by the Govt after allotment /issue of work order / at the time of supply.

**14)** Price bid evaluation will be done for imported inclusive of the customs duty. For indigenous

inclusive of GST.

**15) THE EMD IS LIABLE TO BE FORFEITED :**

i) If the Tenderer withdraws his tender after the tenders are opened., the EMD will be forfeited and black listed.

ii) If the successful tenderer fails to furnish the required security deposit or the agreement, within the stipulated time limit

iii) The EMD of the unsuccessful tenders will be refunded immediately after the tenders are

disposed of by the competent authority.

**16) PERFORMANCE SECURITY :**

i. Successful tenderer has to furnish Security Deposit equivalent to **6.5%** of the ordered value in form of Demand Draft drawn in favour of “The Registrar” Bharathiar University payable at Coimbatore

ii. The EMD of the Successful Bidder will be adjusted towards Security Deposit (SD). (Security Deposit will be released only after the expiry of the warranty period .

**17) PAYMENT**

**Imported:** 100% payment will be made through irrevocable letter of credit in favour of the Principal Supplier. Advance payment is not applicable

**Indigenous**: The payment will be made only after supply and installation of the equipment either by Cheque or RTGS

The commissioning and 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) CUSTOMS DUTY &TAXES :**

**Imported :**

The equipment purchase for Research and Development activities. University is registered with DSIR and exempted from customs duty for all research equipments as per the Government Notification No: 51/ 96 Customs Dt.23.7.1996.and Government Notification No.10/97 Central Excise Dt: 1.3.1997. If the equipment has Customs Duty as per Customs Tariff of India, **the tenderer should mention HS Code for the said equipment.**

The University shall provide all the documents under this notification to enable the supplier to clear the goods whenever required after receipt of invoice, airway bill /shipping notice from the principal supplier .

The customs clearance, transportation and delivery charges has to be borne by the supplier.

**Indigenous :**

The GST and IGST is applicable as per the Govt norms 47th meeting of GST Council dated 28th and 29th June 2022

19) Any dispute arising out of this contract shall be settled only at the court having jurisdiction of

Coimbatore.

20) The authority competent to accept the tender reserves the right to reject or accept any tender without assigning any reasons thereof.

21). Regarding the acceptance of supply with reference to the specification and quality of materials supplied, the decision of Registrar shall be final.

22 ) A**greement** :

For the fulfilment of the order, Successful tenderer shall execute an agreement for the fulfilment of contract in Rs.100.00 Non judicial stamp paper of Tamil Nadu Government . If failed to execute the agreement, the EMD will be forfeited. 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.

23). **Loss or Damage**: External damages or shortages that are prima facie the results of rough handling in transit or due to defective packing will be intimated within a fortnight from the date of receipt of the material, Internal defects, damages of any internal parts that cannot ordinary be exhibited on superficial inspection though due to bad handling in transit or defective packing will be intimated within two months from the date of receipt of the stores. In either case the damaged or defective stores will have to be taken back at supplier’s cost and risk.

24) **Guarantee**: The Supplier shall undertake to repair free of charge or replace any defective part of the equipment supplied due to defective or faulty design or bad workmanship during a period of three years from the date of commissioning of the equipment.

25) **Leaflets and Descriptive Literature**: Full descriptive particulars and manuals of the equipment offered should accompany the tender. Information regarding the country of manufacturer or origin of materials in the manufacture of articles should be furnished.

26) **Tests:** Manufacturer’s certificate for the routine tests specified in the BSS of the test issue or as per manufacturer’s standard practice should be forwarded in duplicate. The materials will be rejected, if the test results are not satisfactory.

27) **Penalty Clause**: The delivery should be guaranteed by you under the penalty clause mentioned hereunder:

“Should delivery be delayed by strike, lockouts, fire accidents or any cause whatsoever, beyond the reasonable control of the contractor and whether such delay or impediment occurs before or after the time or extended time for dispatch or completion, a reasonable extension time shall be granted.

If the contractor fails in due performance of this contract, within the time fixed by the contractor the extension thereof , the contractor is liable at discretion of the purchaser to a penalty of 4% per month of the contract value of such portion only of materials as cannot, in consequence of the delay, be used during each month between the appointed or extended time as the case may be and the actual time of acceptance, and such penalty shall be in full satisfaction of the contractor’s liability for the delay but shall no in any case exceed 25 % of the contract value of such portion of the materials.

28). If the successful tenderer failed to act up to the tender or backs out when his tender

accepted, Security deposit will also be forfeited .

29) The material should be supplied strictly in accordance with the specifications given in the Appendix and should fulfil the successful tests carried out by the Competent Authority of the University. The supply and installation should be made as per the delivery schedule 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.

30) Training at University Campus at free of charge.

31) 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.

32) **Amendment**

Tender Inviting Authority may amend the tender wherever it is felt that such an

amendment is absolutely necessary.

In case of any modifications in specifications/terms and conditions/ any clarifications to the bid document it will be uploaded in the website only and bidders are requested to verify the amendments before the submission of the tender provided **no such change could be effected 48 hours prior to the time fixed for opening of the tender.**

The tender shall be submitted subject to and agreeing the above terms and 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 WITH SEAL**

**APPENDIX**

**Technical specifications for Animal tissue culture facility**

1. **Professional Cell Culture CO2 Incubator (170L)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Specifications:** | |  | | |  | |
| * Interior volume | | : | 165L | | | | |
| * Exterior Dimensions | | : | 620 x 755 x 905 mm | | | | |
| (W x D x H) | |  |  | | | | |
| * Interior Dimensions | | : | 490 x 523 x 665 mm | | | | |
| (W x D x H) | |  |  | | | | |
| * Net weight | | : | 79/80 Kg | | | | |
| * Heating method | | : | Heater jacket | | | | |
| * Temp. Control range and fluctuation | | : | At +5 to +50° C , ± 0.1 ° C | | | | |
| * Temp. Uniformity | | : | ± 0.25° C | | | | |
| * Interior humidity | |  | - 95 % ±5 % R.H. at 37°C by natural evaporation with humidifying pan. | | | | |
| * Sterilisation method | | : | Dry heatsterilisation, 180 Deg C , ±11 hours | | | | |
| * Temperature sensor | | : | Thermistor | | | | |
| * CO2 sensor | | : | Dual IR | | | | |
| * Display | | : | LCD Touch Screen | | | | |
| * CO2 Rangeand deviation | | : | 0 – 20 %, +0.15 | | | | |
| * Exterior material | | : | Painted Steel ( rear cover not painted) | | | | |
| * Interior material | | : | Stainless Steel Copper-Enriched Alloy | | | | |
| * Insulation material | | : | Melamine resin form | | | | |
| * Outer door | | : | 1 | | | | |
| * Outer door lock | | : | Standard | | | | |
| * Field reversible door | | : | Included | | | | |
| * Inner doors | | : | 1 (Tempered glass) | | | | |
| * Shelves (mm) | | : | 4x stainless steel copper-enriched alloy | | | | |
| * Shelf dimension (WxDxH) kg | | : | 475 x 450 x 12 | | | | |
| * Max. load per shelf (Qty) | | : | 7 | | | | |
| * Access port | | : | 1 | | | | |
| * Power failure | | : | Visual Buzzer Remote Alarm | | | | |
|  | * Temperature Deviation | | | : | | Visual Buzzer Remote Alarm | | |
|  | * High Temperature | | | : | | Visual Buzzer Remote alarm | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| * CO2 deviation | | : | | Visual Buzzer Remote alarm | |  | |
| * Door Open | : | | Visual Buzzer Alarm | |  | |
| * Warranty |  | | 3 years | |  | |

* Accessory: High Quality CO2 cylinder 2 nos with regulator
* Gas Cylinder Trolley- High quality2. **Professional Cell Culture CO2 Incubator (Small) (50L)**

**•** Interior volume : 50 liters.

• Net weight : 45 Kg

• Temperature control range and fluctuation : At +5°C to +50°C, ±0.1°C

• Temp. Uniformity : +/-0.25°C

• Interior humidity - 95 % ±5 % R.H. at 37°C by natural evaporation with humidifying pan.

• Sensor : Dual IR

• Temperature Sensor : Thermistor

• Exterior material : Painted Steel (near cover not painted)

• Interior material : Stainless steel copper-enriched alloy

• Insulation material : Styrene AcryloNitrile copolymer

• Heating Method : Direct Heat and Air Jacket system

• Outer door : 1 (Field Reversible door )

• Inner door : 1 (tempered glass)

• CO2 setting range and fluctuation : 0 to 20, ±0.15

• Shelves : 2 x stainless steel copper enriched alloy

• Shelf dimension (WxDxH) : 353xz308x12mm

* Warranty : 3 years

1. **Inverted Microscope with camera**

* Optical System: AIS Infinity Optical System, anti-fungal.
* Observation Method: Brightfield, Phase Contrast inverted.
* Viewing Body: Trinocular with Plan Phase Objectives Trinocular viewing head, inclined 45°
* Interpupillary distance: 54-75mm, Siedentopf type; Eyepiece/cameraport (standard): 100/0:80/20.
* Eyepieces: WF10x/22mm field of view focusable eyepieces with roll-down eyeguards; Optional 15x/16mm, 20x/12.5mm.
* Nose piece: Side facing quintuple nosepiece.
* Objectives: LWD Plan chromat 4x, LWD Plan Phase 10xand 20x.
* Stage: Fixed, plain stage, 160mm x 250mm with glass and aluminum insert plates; (Optional attachable mechanical stage right hand coaxial control, movement range 120mm x 78mm).
* Condenser: ELWD Condenser N.A. 0.3, W.D. 72mm.
* Slider: Pre-centered phase slider 4x/10x, 20x/40x annuli and BF position; secondary slider for filters for enhanced illumination techniques.
* Stand: Cast alloy aluminum
* Illumination: 5-watt LED with variable intensity control; LED for over 25,000 hours of continued use;
* Universal power supply 100 - 240v 0.50x c-mount adapter for 1/2" chip sensors.
* Focusing: Coaxial coarse and fine focus with adjustable tension control; all brass gears.
* Accessories: Green 550nm interference and ground glass,
* Dust cover and instruction manual.
* Certification: ISO 9001: 2018 and ISO 14001: 2018; UL approved; CE anti-mold.
* Microscope Dimensions (LWH): 515mm x 248mm x 473mm (without fluorescence)
* Imaging Camera: Adjustable focus 5MP camera with 1080P HD, 30 fps USB 2.0 Output, SD Card, Resolution: 1920 x 1080, sensor: 1/2.5" CMOS
* Warranty: 5-year limited warranty for parts, labor and electronic components.

1. **Lab Centrifuge**

* Brushless DC motor for maintenance free long life, digital display
* Microprocessor controlled centrifuge with variable speed and time setting and with last run memory function
* Single equipment for different work protocols with appropriate choice of rotors (swing out and fixed angle)
* Imbalance detection and lid lock safety feature
* Large digital display for easy setting & reading of multiple parameters (Speed & Time) Adjustable ramp & brake speeds (up to 9 speed selection)
* User programmable so user can set up to 99 programs with 4 line each (critical)
* Timer setting from 30 secs to 999 mins& infinite mode
* Auto rotor detection feature
* Rotors to be supplied along with main unit:
  1. Fixed angle rotor for 24x1.5/2 ml tubes, RPM: 15,000, G-Force: 21420xg,
  2. Fixed angle rotor for 24x15ml tubes, RPM: 6000, g-force: 4910xg,
  3. 4X100 ml (swing out) for cell culture
* Warranty: 3 Years.

1. **Pipettes**

* Magnet assisted piston for low plunger force and lesser chance of RSI
* PVDF tip cone for durable performance
* Large and clear 4 digit display; color coding for easy identification
* 3-Year warranty
* fully autoclavable
* tested in ISO 17025 accredited lab
* Volume Ranges. 0,1 - 2,5 µl, 0,5 - 10 µl, 10 - 100 µl, 20 - 200 µl, 100 - 1000 µl
* Carousel Pipette Stand for Each set of pipettes.

1. **Pipette Controller**

* Battery- Lithium Ion
* Battery Service Life More than 8 hours of intermittence use.
* Charging Time- 2 hour Approx.
* Pipette Types- Glass & Plastic pipette (0.1 -100ml)
* Aspirate Speed- 8
* Dispense Speeds -8 Gravity Dispense
* Filter 0.45 μm Hydrophobic
* Material: PP (polypropylene)
* Basic Features -Made up of highly Virgin thermoplastic polypropylene 1.6.2 Autoclavability : Yes – Semi (Silicon Pipette Holder part)

1. **Bio safety Cabinets Class II B2**

* Working size in feet: W 6 x D 2 x H 2
* MOC: In GI with PU Coated Construction
* Cleanliness Level ISO CLASS 100 as per ISO 14644-1
* Direction of flow Vertical
* Air Balancing 100% Exhaust & 0% Re-Circulation
* Particle retention 0.3 Micron
* Velocity 90 Feet / Min ± 20
* Noise level 60 decibel on “A” scale ± 5
* Pressure Differential Digital Display Gauge
* Ultra violet lamp PHILIPS - make
* Illumination LED tube fitting
* Power supply 220 V, Single Phase, 50 Hz
* Material of Construction: The Cabinet made of Galvanized Iron 18 SWG sheet metal with polyurethane paint coated finish
* Support stand under-bench support-stand made of heavy duty square pipes-
* MS with PU coated finish
* Work Table Removable type tabletop, made of perforated 18 SWG thick IS 304 Grade Stainless Steel with satin finished, underneath provided with drain-pan to collect & dispose of liquid wastes
* Front Sash Made of clear 5 mm thick polycarbonate sheet – vertical sliding while opening the door UV Lamp will be cut “OFF” and while closing the door UV Lamp will be “ON” automatically.
* Side Panels Both the sidewalls to be made from double layered outer GI & inner stainless steel with return-air plenum in between. Edges are perforated to avoid entry of room air into the work zone and exit of contaminated air in to the room and such contaminated air is sucked through this full height perforation at the edges of the sidewalls.
* HEPA Filter: Media Ultra clean glass fiber paper–imported
* (Supply & Exhaust) Type Mini-Pleated constructions
* Retention 0.3 Micron
* Efficiency 99.97%
* Pressure drop 12 mm WG
* Grade H13 rating
* PRE FILTER Media Non woven - synthetic polyester
* Retention 5 micron
* Efficiency 95%
* Pressure drop 6 mm WG
* Blower Assembly: Outer rotor type blower system, which consists of dynamically & statically balanced aluminum centrifugal impeller driven by a Single phase, motor, enclosed in a PU coated GI casing directly mounted type.
* Exhaust Duct: The exhaust air need to be sent out through an exhaust duct made of 200 mm dia PVC pipe up to 10 feet length. Suitable canopy need to be provided at the end of the duct.
* Exhaust Blower: Need to have a displacing capacity of 1360 CMH at a static of 40mm WG and made of mild steel and directly driven by Single phase, 1440-RPM motor need to be provided.
* ON/OFF Controls: Soft touch switch pads to be provided for blower, UV & Daylight lamp
* UV / Door integration Apart from an independent control switch, the closing / opening operation of front door is integrated with the UV on / off. The UV will automatically switch “off” when the front doors opened; likewise, the UV will switch “on” automatically when the door is closed. This is to avoid accidental exposure of UV rays to the users’ as UV rays are harmful to the skin
* Standard Accessories: Additional power point 5 /15 Amps – 1 No
* Air/Gas inlet nozzle, Floor leveling screws & Wire chord
* Virus Burnout Unit 1 No
* 2KW Servo Stabilizer for Low Voltage - 150 to 240 Volt 1 no
* Installation of ducts for removal of air
* Warranty- 1 year

1. **5KVA ONLINE UPS and 15 No’s Batteries with suitable battery cabinets**

INPUT:

• Nominal input voltage (V): 220/230/240VAC

• Input voltage range (V): 176-288VAC at full load; 100-176VAC at linear derating; 100VAC at half load.

• Nominal input frequency (Hz): 50/60

• Input power factor (kW/kVA)\*- 0.99

• Current THD at full linear load (THDi%)\*- <5

• DC Bus Voltage- 120 VDC

• Battery Charger max. power (A)- 20 AMPS

OUTPUT:

• Nominal output voltage (V): 220/230/240VAC (I-Phase)

• Nominal Output frequency (Hz)- 50/60

• Related power factor (kW/kVA)- Unity

• Voltage harmonic distortion (%)-<2% for linear loads &<5% for Non-Linear loads

• Overload capacity- At 25°C; 105%-125%, 5min; 125% ~ 150%, 1 min; 150% , 200ms

• Crest Factor- 3:1

EFFICIENCY:

• Online mode efficiency- Up to 95.5%

GENERAL:

• Noise at 1m (dBA)- =55

• Operating Temperature (°C)- 0 ~ 50\*

• Relative humidity (%RH)- 5 ~ 95, non-condensing

• Altitude (m)- 3000m

BATTERY:

• Model: 6EL150

• Number of Batteries- 15 No’s

• Nominal Monobloc unit voltage: 12V

• Overall dimension: 500 \* 188.38 \* 398 (in mm)

• Constant potential limiting current 37.50 Amps

• Trickle charge current (mA) minimum 150 to maximum 600

• Approx. + Battery weigh (filled with acid)= 60.95 kg

• Charge current for initial charging

Starting 2.35 V/Cell- 18 Amps

Finishing 2.75 V/Cell- 9 Amps

• Free Installation

• Battery cabinets for holding upto 15 No’s batteries

Type- Battery storage cabinet with safety lock

Materials- Steel/ Iron

Application - Hold Batteries of 150 AH

The battery should be convenient for transportation and simple for assembly.

The whole cabinet is sprayed with static electricity, soft, wear- resistant, corrosion- resistant, fireproof, insulating and durable.

Specification- ISO, CE

WARRANTY

• 5 Years warranty for Battery and 4 years warranty for UPS with a hassle- free service and technical clarification.

• With a recognized certification like ISO 9001, ISO 14001, OHSAS 18001 etc.

1. **Bottom Top Freezer/ Refrigerator (90C to -200C)**

* Capacity 256- 258L
* Annual Energy Consumption 180 Kilowatt hours
* Energy Efficiency 3 star rating
* Temperature range: +7 to -24C
* Refrigerator fresh food capacity 179- 182L
* Freezer Capacity 77-80L
* Form Factor ‎Standard double door, ‎Freezer Bottom
* Defrost System ‎Frost free
* Door Material ‎Stainless Steel
* Colour ‎Silver/ Dazzel steel
* Shelf Type ‎Glass
* Certification ‎Energy Star
* Lighting ‎LED
* Installation type Free standing
* Door Orientation Right
* Warranty 2 years
* Special features: Stabilizer free operation, ‎Inverter, Convertible, Door lock

1. **Waterbath, Unstirred, 5L**
   * Full Stainless Steel, GMP construction.
     + PID Temperature Controller.
   * Leak free inner seamless die pressedchamber.
   * Easy chamber cleaning and no microbesharboured due to contoured corners allaround.
   * Elegant looks - external matt and internalglossy - Full SS 304 construction.
   * Temperature Range: ambient+5°C to99.9°C (with optional gabled lid).
     + Control Accuracy at 37°C: ±0.3°C 19,000.00 1 19,000.00
     + Dry Run Safety Alarm
     + CE Certified

* Warranty- 3 years

**SIGNATURE OF THE TENDERER**

**ANNEXURE – I**

**TECHNICAL BID**

**Tender reference No:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **Name and address of Bidder**
2. **The details of EMD**

**Amount of EMD Rs.\_\_\_\_\_\_\_\_\_\_\_, DD No. \_\_\_\_\_\_\_\_\_\_\_\_ dt**

**Bank:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **Due Date of bid :**
2. **The bid shall remain valid for acceptance for 180 days, from the date of tender opening.**
3. **Schedule of Requirements:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.No | Brief description of stores | | | | Qty  Required | Qty  Offered | Delivery | Unit  price  (Rs) | Total Cost  (Rs) |
|  |  | | | |  |  | At Bharathiar University  Coimbatore | To be filled in Annex:II |  |
| (i) | GST |  | % |  | | - | - |  |  |
| (ii) | **Warranty**:  1). Professional Cell Culture CO2 Incubator (170L) - 3Years warranty  2). Professional Cell Culture CO2 Incubator (Small) (50L) - 3Years warranty  3). Inverted Microscope with camera - 5-year limited warranty for parts, labor and electronic components  4). Lab Centrifuge - 3Years warranty  5). Pipettes - 3Years warranty  6). Bio safety Cabinets Class II B2 – 1  Year warranty  7). 5KVA ONLINE UPS and 15 No’s Batteries with suitablebattery cabinets –  5 Years warranty for Battery and 4 years warranty for UPS with a hassle- free service and technical clarification.  • With a recognized certification  like ISO 9001, ISO 14001,  OHSAS 18001 etc.  8). Bottom Top Freezer/ Refrigerator (90C to -200C) - 2 Years  9). Waterbath, Unstirred, 5L  - 3 Years | |  |  | |  |  |  |  |
| (iii) | Other charges, if any | | | | | - | - |  |  |
| **Grand total cost in Rs.** | | | | | | | |  | |
| Total cost (in words) Rupees. | | | | | | | | | |

**Note: (1) All columns must be filled up.**

**(2) Adhering to the format given above is a pre- requisite for considering your bid.**

**(3) Please indicate applicability.**

**I/certify that I/We have completely read and understood and agree to all the terms & conditions given in Part II.**

**Date : Signature of Bidder :**

**Office Stamp: Signing as :**

**Name in block letters :**

**Mobile No. Fax No. e mail**

**ANNEXURE: II**

**PRICE BID**

**Tender reference No:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **Name and address of Bidder**
2. **The details of EMD**

**Amount of EMD Rs.\_\_\_\_\_\_\_\_\_\_\_, DD No. \_\_\_\_\_\_\_\_\_\_\_\_ dt**

**Bank:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **Due Date of bid :**
2. **The bid shall remain valid for acceptance for 180 days, from the date of tender opening.**
3. **Rates for items given in Techno-commercial offer at Schedule of requirements are as follows:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SlNo | Brief description of stores | | | | Qty. Offered | Delivery | Unit  price | Total Cost |
|  |  | | | |  | At Bharathiar University  Coimbatore |  |  |
| (i) | GST |  | % |  | - | - |  |  |
| (ii) | Other charges, if any | | | | - | - |  |  |
| **Grand total** | | | | | | |  | |
| Total cost (in words) Rupees. | | | | | | | | |

**NOTE :(1) All columns must be filled up.**

**(2) Adhering to the format given above is a pre- requisite for considering your bid.**

**(3) Please indicate applicability.**

**Date : Signature of Bidder :**

**Office Stamp Signing as :**

**Name in block letters :**

**Tele No. Fax No. e mail**

**LETTER OF ACCEPTANCE**

**To**

**THE REGISTRAR**

**BharathiarUniversity**

**Coimbatore – 641 046**

**I/We agree to furnish required supplies /services as detailed in the Tender schedule or such portions thereof as you may specify in the Acceptance of Tender in accordance with the General Terms and Conditions governing the contract / supply order enclosed hereto duly accepted on receipt of the order for the same.**

**I /We agree to hold this offer open until and shall be bound to supply / omission /erect the equipment and dispatch the same within the specified period.**

**I/ We agree to supply and commission /erect the equipment and complete the whole of the work and hand over to the purchaser within the period of weeks. From the date of receipt of intimation from you regarding acceptance of this tender / receipt of supply order.**

**Signature of the bidder**

**With office stamp**

**Name & Address**

**Station**

**Date:**