



राजीव गाँधी विश्वविद्यालय
रोनो हिल्स, दोईमुख
RAJIV GANDHI UNIVERSITY
RONO HILLS, DOIMUKH.

No. RGU/PC/DBT-384/2018(Equip)/142

दिनांक/Dated 21st August 2020.

Notice Inviting Quotation

To,

Dealer/Suppliers/Vendors

Sub:- Invitation of Quotations under Limited Tender System for Scientific equipments/instruments (major & minor) items under DBT Sponsored Project, Dept. of Botany, Rajiv Gandhi University, Rono Hills Doimukh-791112, A-P.

Sealed quotations are hereby invited from the prospective suppliers for supply of the following 4 (Equipments) against DBT sponsored Project (DBT Twinning Project) under the Principal Investigatorship to Dr. A. Victor Singh, Dept. of Botany, RGU, Doimukh Itanagar, Arunachal Pradesh as per the following terms & conditions.

Interested firms/Vendors may kindly submit the quotations up to 8th September, 2020, if the firm/Vendor deals with the following major instrument and items:-

Sl. No.	Particulars/Technical Specification	Qty	EMD (In Rs)
1	<p>Lab Ultra Pure Water Purification System generated directly from tap water:-</p> <p>Prefilter: Should be customized based on feed water quality test report. It should come with integrated booster pump and should produce water that qualifies feed water requirement of the main system to ensure minimum recurring cost down the line.</p> <p>The Complete Ultrapure Water system must give ASTM Type III pure and Type I ultrapure water from a single system.</p> <p>Water purification methods: Adsorption by means of spherical activated carbon, catalyst, reverse osmosis, ion exchange, optional UV irradiation, and end-position particle sterile filtration</p> <ul style="list-style-type: none">• The system should handle Conductivity < 1500 μS/cm, TOC < 2000 ppb, Free chlorine < 4 ppm, Fouling Index (SDI) < 10, Turbidity < 1 NTU, pH value 4 – 10 & Max. total hardness (max. CaCO₃) 360 ppm• The unit should be ideal for a daily consumption of up to 10 liters of ultrapure water with 8l/hr Type III pure water production rate.• Pretreatment Cartridge should be a combination of spherical, catalytic-effective, activated carbon, a catalyst and a downstream reverse osmosis membrane.• The system should come with closed bag system of 5 liter inbuilt to store consistently high quality pure water for prolonged period and prevent Contamination by ambient air. Should have technology to avoid time consuming cleaning process as well as use of chemicals.• System should have a horizontally mounted integrated UV lamp with dual wavelength 185 and 254nm for optimized temperature gradient and reliable results.• Deionization cartridge should consist of spherical, catalytic activated carbon with ultrapure mixed bed ion exchange resin in semiconductor quality to deliver long lasting performance and low-maintenance operation. The flow inside the cartridge should be top-down to produces ideal purification kinetics and prevents any mixing of cleaning media.• Final Filter should be 0.45+ 0.2μm pleated double layered sterile grade PESU membrane and should be validated according to HIMA & ASTM F-838-83 guidelines.• System should have touch screen display with intuitive menu navigation facility for easy operation.• Re-circulation feature in standby mode to maintain the purity of the water.• The system should have the volume-controlled dispensing function from 50 ml to 5 l (in 50-ml-increments) to obtain accurate results.	1	10,000/-

	<ul style="list-style-type: none"> • System should be Designed, Developed and Produced under DIN/ISO 9001 certificate Quality Management system & should have ISO-9001 certifications. <p>Product Water Quality-Type-III Production output: Up to 8 l/h Typical Conductivity: < 20 µS/cm Particle content (> 0.2 µm) : <1/ml Typical ion retention: Up to 98% Retention of dissolved organic substances: > 99 % (MW > 300 Dalton) Particle and microorganism retention: > 99 %</p> <p>Product Water Quality-Type-I Water dispensing flow rate: Up to 1.0 l/min Conductivity: 0.055 µS/cm compensated to 25°C Resistivity: 18.2 MΩ* cm compensated to 25°C TOC content (system with UV lamp) < 5 ppb Microorganism content < 1 CFU/1,000 ml Particle content (> 0.2 µm) < 1/m</p>		
2	<p>Analytical Weighing Balance:- The max capacity of the Analytical Weighing Balance should be 220 g along with 0.1mg Readability [0.0001g] and ± 0.2 mg Linearity Tare Range should be Full Capacity [-220 g]; Repeatability: ± 0.1 mg; Pan Size: 100 mm Dia. Minimum weight (U=1%, k=2): Minimum weight (USP): 14 mg 140 mg Draft Shield should be Manual The Weighing Units should be available in G, kg, ct, lb, oz, ozt, tlh, tls, tit, Gn, dwt, mg, /lb, tlc, mom, k tol, bat, and MS. Following Weighing Modes such as Weighing, Parts Counting, Check weighing, Percent setup, Formulation, Dosing, , Peak hold, Statistics, Animal Weighing, Density, under hook weighing, Autotest, totalizing , alibi memory, Ambient Conditions Measurement should be available. The Calibration should be fully automatic and there should not be need of any external weight. The stabilization time should be 2 Seconds or less. The working temperature should be between +10°C to +40°C. The power supply range should be between 110V to 230V AC / 50 to 60 Hz. It should contain LCD display with back light. It should have the_Databases as follows: 10 users, 1,000 Products and 1,000,000 weighing records to be stored in memory. The balance should have 2 × RS 232, 2 x USB inter faces Draft shields should be removable from 3 Side. The balance should comply with GLP/GMP and ISO certified.</p> <p>Analytical Weighing Balance should have the following features: Ergonomic Mechanical Design, Antistatic Weighing Chamber Weighing chamber panes feature antistatic coating compensating electrostatic charges on the sample and accessories used for mass measurement.</p> <p>(*Antistatic coating has been applied in balances with the readability of d=0.01mg)</p> <p>Data Management, ALIBI Memory Internal ALIBI memory to guarantee safety and automatic record of measurements copies, it also offers possibility to preview, copy and archive data.</p> <p>Kensington Lock for securing the device against theft etc.</p> <p>Easy Data Transfer: There should be easy two-direction data exchange to import or export databases using USB pen drives.</p>	1	2,000/-

Ultrasonic Cleaning Bath should have the following features and specifications:

- ❖ It should have built-in digital thermometer and timer should be set to optimum condition for cleaning
- ❖ It should have 3 step selectable use of ultrasonic power is available. The steps are Low-1, Medium-2, High-3
- ❖ It should have digital display, Built-in drain valve unit, silicon rubber heater for durability and stability, built-in alarm function
- ❖ It should be supplied with stainless steel tray

The Specifications of Ultrasonic Cleaning Bath are as follows:

- The Industrial Transducer should be of BLT Type
- The Time range should be 1~99 min (Digital)
- Temperature Range Ambient~70°C (Digital)
- The Frequency should be 40 KHz
- The Housing Material should be ABS
- The Bath Capacity should be 5.7 L
- The Bath Dimensions should be W300 x D155 x H150mm approximately
- The overall Dimensions should be W500 x D285 x H260mm approximately
- Tray Dimensions should be approx.W240 x D140 x H150mm
- The Power required should be 350 watt
- The Net Weight should be approx. 7 kg

The Voltage should be 220V, 50/60Hz

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3,500/-

4 TLC U.V. Inspection Cabinet (Dual Wave):-

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NIL

Product Specification for TLC U.V. Inspection cabinet (Dual Wave)

Size/Dimension	15 X 12 X 10 (H)
Light Source	Ultraviolet Lamp
Color	White
Material	Mild Steel
Automation Grade	Automatic
Power Source	AC
Warranty	12 months
Voltage	130 V
Tube Volume	12 Inch
Weight	4Kg
Wave Length	254nm 365nm
Model Number	SAUVC5
UV Tube	8 watts
Condition	New
Usage/Application	Inspection of thin-layer chromatograms and other objects in an undarkened room.
I Deal In	New Only
Brand	S A Instruments
Minimum Order Quantity	1 Piece

Production Description:-

The UV Cabinet is suitable for inspection thin-layer chromatogram and other object in a undrakened room. The front is closed with a magnetic lock, which can be pushed open. A glass filer in the viewing window protects the eyes against reflected short-wave UV light. Great care has been taken to ensure the correct distances between UV lamp, object and the observers eye in the interest of good illumination and untroubled viewing.

Features and benefits:-

- Inspection of thin-layer chromatograms and other objects in an undarkened room.

- A glass filter in the viewing protects the eyes against reflected short-wave UV light.
- Bas measures 370 x 300 mm inside.
- For visualization of test objectives under Tubes having long wave length (365nm) short wave length (254nm) as desired.
- Use with ultraviolet lamp for observing fluorescent effect chromatographs etc.
- Supplied with 3 tubes to work on 230 volts A.C only.
- Provides an enclosed viewing space which eliminates external light interference.
- Control switches mounted on top of the unit.
- This self-contained unit is designed for easy viewing and making of chromatographs.
- Minimum space requirements through reduced footprint.

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Professional Heat Gun:-

Product specification of Professional Heat Gun:-

Brand	Bosch
Weight	0.65 kg
Rated Input Power	1500-2000W
Tool width	86mm
Tool Length	245mm
Tool Height	201mm
Working Temperature	50-630 °C
Airflow	140/300/600 l/m
Airflow Control	3-stage
HSN Code	84672900
Part Number	06012A62k0
Durability	600 h
Scope of supply	Glass protection nozzle, surface nozzle, welding glove, reduction nozzle, reflection nozzle

Production description:-

Features:-

- Cold stage, 50°C
- Continuously variable temperature control

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NIL

TERMS AND CONDITIONS:-

- 1. Quoting the core price & Tax, Duties, Discount etc separately.** All rates quoted should be F.O.R. destination (Rajiv Gandhi University, Doimukh) with breakup. Vague/Ambiguous terms like "Packing, forwarding, clearing, installation charge etc. Extra "without mentioning the specific amount should not be accepted.
Taxes/duties/discount if applicable, are to be explicitly and separately shown in the quotation and under no circumstances these components shall be added to the basic price and shown as single price. All the components taxes, if applicable, should be shown explicitly and separately. Bidders shall indicate their rates in clear/legible figures as well as in words and should not contain overwriting.
- 2. Validity of quotations:-** the Quoted rates must be valid for 90 days from the last date of submission of quotation.
- 3. Warranty:-** The Equipment and its components under the purchase order, when installed, shall be warranted for the quality, workmanship, trouble free operation and performance for a period of **at least 1 year from the date of putting the system into operation** at Rajiv Gandhi University, or at least 15 months from the date of receipt of the last lot of the consignment in India. (A signed Bidder's warranty as per Annexure-1 has to be submitted