

**AMENDMENT OF QUOTATION NO - KDU/PRO/CAP/C/15/2023**

**PURCHASING OF LAB EQUIPMENT FOR KDU CARE**

1. Please be kind enough to pay your attention on following amendment.

File No - **KDU/PRO/CAP/C/15/2023. Tender Open Date- 07/03/2023**

Amendment - above reference tender **specifications** to be changed.

2. Please be kind enough to pay your attention on attached amendment of specifications.

3. Thank You.



**TSK Lankeshwara Lsc**  
Lieutenant Commander (S)  
Officer Commanding Logistic  
Services  
For Director Logistics

## 1. Large Capacity Laboratory incubator Vertical, multiple racks

(Example figures just to get an idea only)

### Technical features :

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- Upright incubator with a capacity of approximately Volume about 350-450 L
- Microprocessor Control and digital temperature, LCD display.
- Precise Temperature Control, Superior Uniformity
- Independent Overtemperature Thermostat
- Temperature Uniformity  $\pm 0.8^{\circ}\text{C}$  at  $37^{\circ}\text{C}$
- Temperature Range  $15^{\circ}\text{C}$  to  $40^{\circ}\text{C}$
- Should ensure temperature uniformity
- Unique air duct circulation system ensures temperature uniformity
- Should have double doors, magnetically sealed, lockable
- Inner chamber equipped with a lightning device for easier observation
- Interior Electrical Outlets minimum 03
- Humidity Range 50-90 %RH and should have a Large capacity humidifier that enables automatic water intake function
- Should have UV sterilization facility
- Built-in socket and adjustable shelves
- Touch-button operation with timer function
- Fluorine-free R134a refrigerant
- Over-temperature alarm function
- Stainless steel material (both internal and external)
- Should have at least 5 shelves
- Power Supply 220V, 60Hz
- Warranty period should be specified
- Bidder should be the Manufacturer/ Authorized Partner/ Reseller of the manufacturer and a Letter of Authorization from the manufacturer for the same and specific to the tender should also be enclosed. The bidder should also be the Authorized Service Provider.
- The bidder should enclose similar orders provided to various reputed Government Institutes/Research labs/ICAR/CSIR institutes throughout India in the last 5 years.



All vendors are requested to attach original technical literature/ catalogue in support of the mentioned specifications & highlight the above features. The same features should be available in the company website.

**Specification for He Gas Cylinder.**

SR. NO	DESCRIPTION	SPECIFICATION	QTY
01	He Gas Cylinder with regulator for Gas Chromatography	47L Purity 99.99%	01



### 3. Suction pump

#### Technical Specifications

- Laboratory suction should be ideal for filtration, aspiration, bottle-top filtration, manifold filtration, solvent degassing, etc.,
- Should be 100% oil-free, Should be driven by the diaphragm, without the need of lubricant,
- Should specify filtration capacity (liter per minute), the vacuum generated (bar), connectors for tubes ID
- Should be portable with a compact design
- No air pollution, maintenance-free,
- Should be chemical-resistant construction
- Power supply 220v
- Maximum power should be given
- Noise level: 50 dB,
- Vacuum and pressure regulators with gauges, liquid trap at the inlet with ball valve to prevent accidental ingestion of solution into the pump, and a silencer on outlet for noise reduction.
- Vacuum regulation options preferred
- Warranty minimum 1 year
- Bidder should be the Manufacturer/ Authorized Partner/ Reseller of the manufacturer and a Letter of Authorization from the manufacturer for the same and specific to the tender should also be enclosed.
- The bidder should also be the Authorized Service Provider.
- The bidder should enclose similar orders provided to various reputed Government Institutes/Research labs/ICAR/CSIR institutes throughout India in the last 5 years.
- All bidders are requested to attach original technical literature/catalog in support of the mentioned specifications & highlight the above features. The same features should be available in the company website.



#### **4. Benchtop Laboratory pH Meter/mV meter**

##### **Technical Specifications**

- The measurement of pH, mV, and temperature should be possible.
- pH range - -2.00 to + 14.00, Resolution-0.01 pH, Accuracy  $\pm 0.01$  pH
- Simultaneous readout of pH and temperature
- Two channels for pH, mV, and temperature measurements
- Range  $\pm 1999$ mV, Resolution 1mV, Accuracy  $\pm 1$ mV
- Temperature Range -10 to +105°C
- Three-point calibration and manual calibration with selected buffers should be possible.
- Accuracy for each pH measurement should be 3 decimal points
- For calibration, pre-programmed buffer sets should be supplied, and automatic buffer recognition and display should be possible, with maximum 3-point calibration,
- Range for mV should be -999.9 to +999.9. Accuracy for each mV measurement should be less than  $\pm 0.3$
- Display -digital LCD
- Warranty-at least 1 year
- Should provide a calibration certificate
- Bidder should be the Manufacturer/ Authorized Partner/ Reseller of the manufacturer and a Letter of Authorization from the manufacturer for the same and specific to the tender should also be enclosed.
- The bidder should also be the Authorized Service Provider.
- The bidder should enclose similar orders provided to various reputed Government Institutes/Research labs/ICAR/CSIR institutes throughout India in the last 5 years.
- Bidders are requested to attach original technical literature/catalog in support of the mentioned specifications & highlight the above features. The same features should be available in the company website.

## 5. Laboratory Analytical Weighing Balance

### Technical Specifications

- Capacity should be up to 60 g
- Readability-0.0001 g
- Should have stainless steel flatter with glass sliding win shields ,
- LCD display
- Overload protection, bubble level adjustment
- Should be able to operate on AC and DC adapter
- Should provide Certified calibration weight supplied as standard
- Should have built-in calibration
- Electrical supply 230 to 250V 60Hz
- Warranty period should be minimum 1 year
- Bidder should be the Manufacturer/ Authorized Partner/ Reseller of the manufacturer and a Letter of Authorization from the manufacturer for the same and specific to the tender should also be enclosed.
- The bidder should also be the Authorized Service Provider.
- The bidder should enclose similar orders provided to various reputed Government Institutes/Research labs/ICAR/CSIR institutes throughout India in the last 5 years.
- Bidders are requested to attach original technical literature/catalog in support of the mentioned specifications & highlight the above features. The same features should be available in the company website.