



KERALA AGRICULTURAL UNIVERSITY  
RICE RESEARCH STATION  
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No. RRS/B/1305/18

Dated, 06.12.2021

### TENDER NOTICE

Sealed tenders are invited for the supply of equipments as per specifications mentioned for the RKVY Project entitled “Mass production unit of biocontrol agents” of Rice Research Station, Vyttila. The sealed tenders are to be forwarded to the Professor & Head, Rice Research Station, Vyttila P O, Ernakulam 682 019., super scribing “*TENDER FOR THE SUPPLY OF EQUIPMENTS*” on the envelope.

Last Date & Time for receipt of tender : 20.12.2021, 3.00 pm

Date & Time of opening quotation : 20.12.2021, 3.30 pm

Tender Cost : 0.2% of cost of tender rounded to the nearest multiple of 100 subject to a minimum of Rs.400/- and maximum of Rs.1500/- + GST 12%

GST rate applicable : 5% (Reduced rate for research institutions, Essentiality Certificate for the same will be provided)

#### **1. DIGITAL AUTOCLAVE – FULLY AUTOMATIC (On buy back basis)**

- Capacity : 180 Litres
- Type : The Sterilizer has to sterilize the material under a Steam Pressure of 15-20 Psi
- Construction : Fully Stainless steel – Sturdy chamber made of SS 304 quality
- Boiler : Constructed of heavy Stainless steel SS 304 quality. The Chamber has to be hydraulically tested.
- Lid : Heavy Stainless steel accurately machined to form a steam tight joint with stainless steel ring. The lid should be of single lever lock type.
- Operating Pressure : 15 psi
- Working Temperature : 121<sup>0</sup> C
- Heater : ISI marked Immersion type heaters is to be used
- Temperature Control : Electronic temperature controller cum Indicator

Display : Digital  
 Basket : The instrument is to be supplied with perforated work basket made of Stainless Steel 304 quality where the bottles/flasks can be loaded  
 Control Box : The Control Box should contain the Contactor, Pressure Switch, Toggle Switch, On/Off Indicator  
 Chamber Size : 550 x 750 mm (Diameter x Depth) Volume : 178 Ltrs Rating : 6.0 KW  
 Power : 230 V, 50 Hz, Single Phase  
 Features : Pedal Lifting Arrangement, Auto purging Auto exhaust and Time Control, Single level Radial Lock, Low Water Level cut off facility  
 Pressure level cut off includes : Stainless steel heater cover Pressure Guage Safety Steam Release Valve Safety Valve for over pressure and safety over temperature Water inlet and outlet valve

## 2. DIGITAL BOD INCUBATOR

Temperature Range : 5<sup>0</sup> C to 60<sup>0</sup> C with an accuracy of +0.5<sup>0</sup> C  
 Double walled : Inside Stainless Steel and out side of mild Steel beautifully powder coated with electronic digital temperature controller cum indicator and air circulating fan – transparent door inside – self supported & adjustable perforated racks magnetic gasket outer door.  
 Door operated illumination lamp : To work on 220/230 VAC  
 Size : 610 x 455 x 410 mm; Volume : 115 Ltrs ; Capacity : 4 cu. Ft  
 Interior illumination with Fluorescent tube of 60 cm length placed vertically against the back well.  
 Separate ON/OFF switches are provided for tubes.  
 Minimum temperature when all tubes are on will be 10<sup>0</sup> C. L – shaped Thermometer  
 Automatic Voltage Stabilizer

## 3. LAMINAR AIR FLOW – VERTICAL (On buy back basis)

Material of construction : Steel Powder coated  
 Work top : Stainless steel good quality  
 Side Panels : Transparent acrylic framed in anodized aluminium frame  
 Blowers : Good quality noiseless and vibration less  
 Filtration : Pre Filter < 95 micron and HEPA Filter < 99.97 micron  
 Air Velocity : 90 ft/min  $\pm$  20%

UV Tube

Manometer

Gascock

Working chamber size : 60 x 60 cm

Certifications : 1. ISO certified

#### **4. HOT AIR OVEN (On buy back basis)**

Temperature Range : 50<sup>0</sup> C to 250<sup>0</sup> C

Control accuracy : ± 1<sup>0</sup> C

Uniformity : ± 2.0 at 100.0<sup>0</sup> C

Heating element on all sides

Instrument should have air circulating fan, electronic digital temperature controller cum indicator

3 No. of Shelves with height adjustable in 25 mm steps.

Outer body made up of Mild steel

Inner body made of Stainless steel with clear bottom

Chamber Size : 605 x 605 x 910 mm

Power Supply : 220 V, Single Phase, 50 Hz, AC Supply

Certifications : ISO Certified

#### **5. ORBITAL SHAKING INCUBATOR (On buy back basis)**

Double walled construction, the exterior – sheet steel powder coated and interior of stainless steel, should be able to inspect the specimen without disturbing the temperature.

Powerful air circulation to create positive air flow through the incubator.

Temperature range : 5<sup>0</sup> C above ambient to 60<sup>0</sup> C

Temperature accuracy : +/- 0.5<sup>0</sup> C

Orbital shaking with orbit diameter of 25 mm

Temperature control : Digital display electronic temperature controller

Platform capacity : i) 9 Conical flask x 1000 ml ii) 12 Conical Flask x 250 ml


Shaking Speed : Variable speed 50 to 250 rpm with digital speed meter

Certifications : 1. ISO certified

### Terms and Conditions

1. The Tender should be submitted in the prescribed forms which can be downloaded from the website :[www.kau.in/tenders](http://www.kau.in/tenders).
2. Each tender should be accompanied by an Earnest Money Deposit (EMD) of 1% of the total cost of the quoted items (subject to minimum of Rs.1,500/-) and Tender Cost as mentioned above by way of Demand Drafts separately drawn in favour of the Professor & Head, Rice Research Station, Vyttila P O payable at the State Bank of India, Vyttila along with the Tender Agreement. Late and incomplete tenders and tender without EMD and agreement will not be accepted.
3. The successful tenderer should execute an agreement in Kerala Stamp Paper worth Rs.200/- (Rupees Two Hundred Only) at the time of supply of items and furnish a security deposit of 5% of the equipment quoted in the form of term deposit/bank guarantee/demand draft drawn in favour of Professor & Head, Rice Research Station, Vyttila P O payable at the State Bank of India, Vyttila branch. Firms who are exempted from payment of EMD should furnish copy of the currently valid certificate from the Store Purchase Department, Govt. of Kerala. The format can be downloaded from the above website.
4. Continuous technical support and maintenance of equipment.
5. Warranty for a minimum of two years. Cost of annual system support/maintenance contract once the warranty period is over has to be quoted for a period covering 5 years from the date purchase. Payment for the AMC will be made only at the end of warranty period on yearly basis.
6. All the expenses for installation, training and post sales technical support needs to be borne by the tenderer.
7. If the date of opening the tender happens to be a holiday due to unexpected circumstances like bandh, hartal etc., tenders will be opened on the next working day at the same place.
8. The Professor & Head, RRS, Vyttila has the right to accept or reject any or all of the offers without assigning any reason. The decision of the undersigned in finalizing the tenders will be final and binding.
9. Payment as per the invoice will be made only after supply of the items as per specifications and tenderer is liable to replace the defective articles/rectify the defective items immediately on receipt of intimation.
10. All the rules and regulations applicable to Government tenders will be applicable to this tender also.
11. For further information, if any, please contact 0484-2809963 on working hours or mailed to [rsvyttila@kau.in](mailto:rsvyttila@kau.in)
12. Bank account credentials (Name & branch, Account No. and IFSC Code) to be furnished in the invoice for effecting payment



  
Dr. Sreelatha A K  
Asst. Professor & Head