

ACHARYA N. G. RANGA AGRICULTURAL UNIVERISTY
REGIONAL AGRICULTURAL RESEARCH STATION, ANAKAPALLE – 531001



QUOTATIONS CALL NOTICE

(Proc. 15381/ Res I (1)/2016 dated: 17.10.2016)

Quotations are invited for the Supply of following equipment under RKVY with the prescribed specifications as detailed herewith.

S. No	Equipment/ component	Specifications
1	Steam Generator	<ol style="list-style-type: none"> 1. Electrically operated with suitable 27 KW (3x 9KW) 3 phase power suitable for sterilization of 150L, 300L and 500 L fermenter. 2. It should be fitted with drain valve, steam valve, pressure gauge, safety valve, water level indicator, piping and electrical control panel with all safety devices. 3. Facility to operate heating elements individually should be provided. 4. Max steam output: 35-50 kg/hr. 5. Operating pressure: 4 bar. 6. Should be mounted on wheels for easy portability. 7. Automatic water level maintenance with boiler feed pump and automatic cut off if water level is low
2	Rotary shakers	<p>To hold 9 x 9 1L capacity flasks with rubber discs. Platform with a fixed speed of 150 rpm. Power: 3 phase.</p>
3	Laminar Air Flow	<p>Horizontal Laminar Air Flow:</p> <ol style="list-style-type: none"> 1. Working size: 4' X 2' X 2' 2. Laminar flow velocity: not less than 90 FPM 3. Pre filter: Disposable efficiency 85% for particles >0.5 um 4. ULPA/HEPA Filter efficiency: 99.99% at particle size between 0.1-0.3 microns. 5. Fluorescent lamp intensity: >2500 LUX. and UV lamp for pre sterilization of work bench 6. Cabinet construction: Stainless steel 7. Electrical : 220-240 V AC etc.
4	Horizontal autoclave	<ol style="list-style-type: none"> 1. Double walled unit, inner & outer made of S.S 304, 4mm thick. Mounted horizontal on a sturdy, heavy mild steel tubular stand duly powder coated. 2. Operating Pressure : 1.2kg-1.5 kg/cm² 3. Fitted with pressure gauge, safety valve and steam release valve. 4. These units fitted with S.S. boiler and separate valves for injecting the steam into the main chamber and releasing the steam into atmosphere after use must be provided. 5. Automatic vacuum breaker should be provided to break the vacuum in case of formation of vacuum due to steam condensation. 6. Fitted with a Digital temperature indicator to indicate inner temperature, Automatic pressure control switch and automatic low water level cut-off device. 7. Lid made of S.S 304, 12mm thick plate provided with radial locking system. 8. Size: 20'' x 48'' (500 x 1100mm). 9. Power: 9 KW, with in-built steam generator

5	BOD incubator	<ol style="list-style-type: none"> 1. Capacity : 175-225 Lt. 2. Temperature range : +5 to 60°C 3. Temperature sensitivity : 0.1°C 4. Chamber: Stainless steel 5. No. of Shelves: 4 6. Shelves: Perforated stainless steel 7. No. of doors: 2 8. Load per rack: 25-60 kg 9. Light facility: LED light 10. Inside door: Transparent acrylic. 11. Outside door: Well insulated (PUF) 12. Display: Digital Display 13. Power: supplied through through mains or invertors 14. Timer facility should be provided. 15. CFC free refrigeration and heating system
6	Stereo Zoom Microscope	<ol style="list-style-type: none"> 1. Magnification ranging from 10 to 65x or higher, continuously adjustable with 1x objective and 10x eyepiece. 2. Zoom ratio 8:1 3. Apochromatic 1x objective with maximum resolution 300lp/mm; objective mounting – screw mounting into thread 4. Numerical aperture of the objective 0.2 or more. 5. Ergonomic wide field eyepieces 10x with object field diameter 23mm or more. 6. Working distance should be minimum 75mm 7. Binocular tube view inclination angle 20° or more 8. Standard stand with LED reflected and transmitted light; black and white stage plate, clear glass plate, rotatable knob for creating effects of light on sample. 9. Illumination: Reflected LED with ring illumination and transmitted light free of UV and IR radiation with variable light intensity control. 10. Built-in universal voltage stabilizing power accommodating 100-240V input. 11. Suitable Digital microphotography for capturing images of specimens.
7	Hot Air Oven	<ol style="list-style-type: none"> 1. Temperature range : up to 250° C 2. Capacity : 175-225 Ltr. 3. No. of Shelves: 3 3. Double walled inner : stainless steel (SS 304 grade), outer ; MS with powder coated surface 4. Providing heating elements in all three sides of equipment 5. Should provide air circulatory fan 6. Should provide microprocessor based digital temperature controller with digital display and should provide inbuilt thermometer for checking inside temperature
8	Air Conditioner (Split)	<p>Capacity : 1.5 tonns</p> <p>Inverter AC with five star rating and eco friendly gas</p> <p>More durability with low maintenance</p>

Quotations should reach the under signed on or before 09.12.2016.

**Associate Director of Research
RARS, Anakapalle**

Annexure I

Instructions to Quotationer and general conditions governing the submission of Quotations:

1. The company should have been in the market for at least last 4-5 years
2. The rate quoted should include the cost of all the accessories, in complete unit and spares needed included detailed list of accessories and spares to be supplied
3. The equipment must be installed and demonstrated in working condition with rated capacity. The staff of the department should also be trained in operation of the equipment.
4. Packing, forwarding and other incidental charges if any should be specified clearly in the quotation.
5. The price quoted shall included all insurance charges up to the project site. The Quotationer shall, therefore, be responsible for safe delivery of the equipment at project sites.
6. Taxes (sales tax, excise duty etc.,) if any should be clearly indicated in the quotation.
7. The rate quoted should be valid for 12 months from date of acceptance of the quotation.
8. Supply should be made within one month on receipt of orders.
9. The service contract of the unit may also be specified in the quotation
10. Your quotation should be sent in sealed cover superscribed as quotation for the supply of name of the equipment addressed to the Associate Director of Research, Regional Agricultural Research Station, Anakapalle-531001
11. Right of acceptance: the University does not bind itself to accept the lowest or any other quotations.
12. Warranty: the contractor shall warrant everything to be furnished here under shall be free from all defects and faults in materials ,workmanship and manufacturers and shall be of the highest grade and consisted with established and generally accept standards for the materials of the materials type ordered and in full conformity with the contract specifications and drawings