

ACHARYA N.G. RANGA AGRICULTURAL UNIVERSITY
AGRICULTURAL RESEARCH STATION
AMARAVATHI – 522 020, GUNTUR DIST., A.P

TENDER NOTIFICATION

Ad No. 1 / AINP on BF / NRC / 2011-12

Date: 20-01-2012

Sub: ANGRAU – ARS, Amaravathi – AINP on Biofertilizers – Calling for Quotations towards Purchase of Equipments under NRC – Regarding.

Ref: Proc. No. 39235/Res.III(1)/2011, dt.31.12.2011 of the Director of Research, ANGRAU, Hyderabad.

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Sealed competitive quotations for **each item separately** are invited by the undersigned for the supply of the following equipment / machinery from the eligible suppliers for the ICAR Scheme of “All India Network Project on Soil Biodiversity and Biofertilizers” ARS, Amaravathi – 522 020, Guntur Dt., AP. Last date for submission of quotations is **06-02-2012 by 4:00 P.M.**

LIST OF EQUIPMENT / MACHINERY REQUIRED

| S. No | Equipment Name | Specifications |
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| 1. | Stereo-bionocular(Zoom) microscope with accessories | Zoom Ratio 1:7, objective Zoom Range 0.65 – 4.5x, Paired Wide field Eyepieces SWF 10x/22mm, working distance 100mm, With in-built Light Stand (Incident:6V15W Lamp/Transmitted :5Wfluorescence Lamp) standard set complete |
| 2. | Vertical Autoclave with specified accessories (40 Its) | 300X500 mm inner dimentions (35-40Its), 2.0 kw, Inner and outer chambers stainless steel Grade 304 with water level indicator, Automatic cut off device in case of low water level. |
| 3. | High speed Research Centrifuge(17300 RPM) | Revolutionary high speed centrifuge Maximum speed: 17300 RPM Maximum RCF: 27440g Timer : 0-99 minutes count down Speed meter: 0-19900 rpm Power supply: 230volt+/-10% Width: 400mm, Depth :500mm, Height:460 mm Maximum Tube size:100ml Maximum capacity: 400ml 6 place Angle Rotor Head with Polypropylene tubes of 6 x 50 ml (Max. speed 12100RPM, Max. RCF |

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| | | 14240 g) No swing out Head |
| 4. | Vacuum pump(oil free) with glass filter holder kit | Portable oil free Vacuum pump No lubrication Diaphragms should be made of 2ply Nylon, reinforced neoprene rubber Valves made of ss316 material Pump should be with Flame proof motor ¼ HP Standard voltage 230V, 50hz Maximum flow lpm: 45 Maximum Pressure PSIG: 35 Max. Vac. Inch Hg: 22 Glass filter holder kit: Complete set of glass filter holder 47 mm dia (including Flask, Funnel, spring clamp and stopper) |
| 5. | Glass distilled water Unit Single stage | Specifications : All Quartz With Built in Quartz Heater, vertical panel mounted Type of condenser quartz Type of boiler: Quartz Out put 3.0 lits/Hr |
| 6. | Gel electrophoresis equipment | Basic unit with safety lid 1 set, Platinum electrodes 2 nos, Connecting cord 1 no, 8-well comb 1.50 mm 2 nos, 13-well comb 1.50 mm 1 no, comb stand 1 no, gel Running tray 130x130 mm 1 no, Gel running tray 130x60 mm 2 nos, Levelling table 1 no, Glass plates 100x80 mm 6 nos, Gel punchers 3,4,5 mm o.d. each 1 no, Metal clips 4 nos, Variable radius template 1 no, 5-well template 1 no, 8-well template 1 no, Multiple template with holder and spacer and glass Plate 200x90 mm 1 set, Graber williams template with holder and spacer and glass plates 100x150 mm 1 set, Gel cutter 1 no, Gel remover 1 no, Glass plate and template for electro-focusing 130x260mm 1 set. |
| 7. | Power pac for Gel electrophoresis | Power pac specifications: Advanced Output Volts : 0 – 300 V Output Current : 0 - 100 mA Timer : 0 – 999 minutes Display : Digital Volt & Current Meters Watts : 30 watts, |

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| | | Fuse : 1 Amp Operating voltage : 220 VAC, 50 Hz |
| 8. | Incubator shaker (orbital) with stabilizer | Orbital Shaker Incubator with Digital Indicator/ Controller Air circulation motor Temp. above ambient $\pm 5^{\circ}\text{C}$ to 65°C . Inner S.S. 304 outer M.S. powder coated Inside illumination provided with 20-250 RPM Indicator and variable speed Regulator also PMDC motor Provided. Inside Capacity 250ml X 12 flask lotus clamp platform. Glass wool insulator. Runs on 220 -240V single phase |
| 9. | Desktop computer with accessories | 500 GB hard disk, 2GB Ram, Intel i3 processor with Ethernet card, LCD monitor (20"), DVD writer with mouse, key board and UPS of Standard make With Genuine widows-7. |
| 10. | Laser jet printer | Laser jet printer with multi functions like print, copy, scan and fax |
| 11. | Table and Chair for Desk top computer and printer | Wooden make with size : 4'X 2' computer table with Good quality High Back chair with steel base and handles |
| 12. | LCD projector for desktop computer | LCD Projector Resolution: XGA (1024 x 768)or higher resolution Light output of 1000-2000 lumens Contrast ratios of 400:1 Projector Weight: Light wt. LCD Projector Connectivity: Multiple port |
| 13. | Electronic top loading balance | Precision balance Capacity:200- 210 g. Accuracy: 0.001 g AC/DC power card of standard make |
| 14. | Water Bath with stirrer | Serological with Thermostatic model Internal dimensions of 300x250x175mm Temp Maximum of 100°C Digital PID Controller Drain:Self-adhesive magnetic cap Power of 220-230V |
| 15. | UV Trans illuminator | UV Transilluminator: Wavelength 254 nm WITH 8w UV TUBE 8 NOS, 64 W Filter Size 20×20 cm Et BR filter equipped 312 nm |

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| | | Long Life Filter, High Efficiency reflector, HI-Lo intensity reflector Safety Door Switch Automatically shut down |
| 16. | Microwave oven (30L) | Capacity : 30 lits Microwave 95 mins. digital timer 10 power levels 12 hour digital clock Extra large (314mm) dia tunable child lock feature & pull handle door stainless steel body stainless steel cavity combination of automatic and express 100% convention setting 95 ⁰ C to 230 ⁰ C |
| 17. | Peristaltic Pump with silicon tubing | Pump should deliver flow rates from 0.07 to 1140 mL/min. speed can be adjusted manually or automatically through external control interface Speed: 1 to 300 rpm, reversible Speed resolution: 1 rpm Speed control: Rotary encoded switch Display: 3-digit LED displays current speed Power supply: AC 90 - 260V Applicable for pump heads of <u>YZ1515X</u> , <u>YZ2515X</u> , <u>YZII15</u> and <u>YZII25</u> |
| 18. | Pen pH meter | pH pocket tester: water proof with ATC and Temperature read out pH range -1.00 to 15.00 Accuracy: +/- 0.01 pH |
| 19. | Refrigerator 300 lits including stand and stabilizer. | Standard make double door option Capacity: 300 lits Top cabin with 0 ⁰ C Lower Cabin with 4 ⁰ C Durable Plastic stand Suitable stabilizer |
| 20. | Diesel Oil engine for water lifting | Vertical four stroke cycle, single cylinder compression ignition , Light weight, Easy movable "Water cooled"/"air cooled" cold start diesel engine 4.0 / 5.0 HP, 1500 RPM |
| 21. | Knapsack Power Sprayer 708 | Plunger NO: DIA Stroke: 2x18x8mm Working Pressure: 10-25Bar Suction Volume: 8-10L/min Motor: 26cc Capacity: 20L Type: Power Sprayer |
| 22. | Air conditioner (split) 2.0 ton including stabilizer. | Standard make with remote and stabilizer Capacity : 2.0 ton |

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| 23. | Microcentrifuge | <p>To spin down small samples from 0.4 ml to 1.5 ml. with Blinking pilot lamp for accurate time counting in seconds to facilitate short spin.</p> <p>Specification :</p> <ul style="list-style-type: none"> • 6 x 1.5 ml fixed Angle Head. • Adapter for 0.5 ml & 0.4 ml tubes. • Fix speed - 6000 RPM • Safety Lid interlock to prevent cover opening during centrifugation. • Quick acceleration to full speed. <p>Power Supply: 220-240 Volts 50 Hz Single Phase.</p> |
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General conditions for submitting of Tenders:

1. The rate quoted should be F.O.R. Amaravathi and delivery at Agricultural Research Station, Amaravathi -522 020, Guntur Dt., AP, Andhra Pradesh.
2. The rate quoted should include the cost of the complete working unit inclusive of all the accessories, electric motors, spares and installation charges
3. The equipment must be installed and demonstrated in working condition for at least 8 hours of continuous working. The staff of the station should also be trained in the operation of the equipment by a qualified technical person.
4. Packing, forwarding and other incidental charges if any should be specified clearly in the tender
5. The price quoted shall include all the insurance charges up to the destination. The tenderers shall, therefore, be responsible for the safe delivery of the equipment at Agricultural Research Station, Amaravathi -522 020.
6. Taxes (sales tax, excise duty etc.) if any should be clearly indicated in the Quotation itself.
7. Documents and R.R. through Bank will be negotiated subject to the condition that the equipment is in working order duly certified by his representative.
8. The rates quoted should be valid for 3 months from the date of acceptance of the tender.
9. Supply should be made within one month on receipt of supply order.
10. The service contract of the unit may also be specified in the tender.
11. **Your tender document should be sent separately for each item in a sealed cover superscripted as Tender for the supply of “Name of the equipment” addressed to the Senior Scientist (Microbiology) & Head, Agricultural Research station, Amaravathi–522020, Guntur Dt., AP.**

12. The last date for receipt of tender schedule is 4.00 PM on 6th February, 2012. The sealed tenders, received will be opened by a committee constituted by the Associate Director of Research, Regional Agricultural Research Station, Lam, Guntur at Agril. Research Station, Amaravathi -522 020, Guntur Dt., AP

13. Right of acceptance: The University does not bind itself to accept the lowest or any other tender.

14. WARRANTY: The tenderer shall warrant that everything to be furnished here under shall be free from all defects and faults in materials, workmanships, manufacture and shall be of the highest grade and consistent with the established and generally accepted standards for the materials of the type ordered and in full conformity with the contract specifications.

15. Manufacturer / authorized dealer are alone eligible to submit the tender forms. The manufacturer / authorized dealers should enclose full credentials along with technical pamphlets and major supplies undertaken while submitting the tender schedules.

16. For all legal matters the Jurisdiction is Guntur, A.P. only.

**Senior Scientist (Microbiology) & Head,
Agricultural Research Station,
Amaravathi – 522 020
Guntur Dt., AP**

**Further for any clarification Telephone: 08645-213345
Mobile no: 09490776084**