



ACHARYA N G RANGA AGRICULTURAL UNIVERISTY
REGIONAL AGRICULTURAL RESEARCH STATION: NANDYAL- 518 503
TENDER NOTICE

(Lr. No. A1/NABARD/RARS/NDL/2018-19, dt. 01.10.2018)

ANGRAU invites sealed tenders for the supply of **“23 items inclusive of certain scientific equipment, UPS, Desktop computers, Refrigerators etc.”**. Full details of the equipment etc., will be available in the tender form. The EMD @ 2.5% of cost of each equipment as per the bidding amount has to be sent through DD in favour of **“Administrative Officer, RARS, Nandyal”** along with completed tender form. Tender form can be downloaded from the website of www.angrau.ac.in and it should be submitted to the undersigned separately for each equipment along with DD of Rs.500/- per each tender form drawn in favour of **“Administrative Officer, RARS, Nandyal”** towards cost of the tender form.

Tender form will be available in university website from **05.10.2018**.

Last date for receipt of completed tender form is **01.11.2018 by 4.00 PM**.

Sealed tenders will be opened on **02.11.2018 at 11.00AM by the tender committee at the meeting hall of RARS, Nandyal in the presence of tenderers present**. If the process of opening of tenders is not completed on 02.11.2018, the same will be continued on 03.11.2018 also.

Successful bidder has to pay 2.5% of total cost of the item as security deposit at the time of delivery of the equipment. Both EMD and security deposit of the successful bidder will be retained till the expiry of the warranty period.

- Terms and conditions mentioned in Annexure II are applicable to all items.


**Associate Director of Research
RARS, Nandyal**

Annexure – I

Specification for items for which Tenders are called for

S.no	Name of the item	Specifications required
1	Vertical electrophoresis	<ul style="list-style-type: none"> • The system should be capable of accommodating & simultaneously running 1 to 4 mini gels in less than an hour. • The system should be easy to assemble, include a casting stand and glass plates with permanently bonded gel spacers for leak proof casting of gels and avoid messy agarose sealing & tape casting of gels. • The system should be capable of accommodating interchangeable modules for tank transfer, 2-D electrophoresis & electro-elution. • The system should come with molded, one-piece buffer dam when running (only) one or three gels. • The system should come with color coded electrodes to prevent accidental reversal of polarity. • The system should be capable of accommodating 5 well, 9 well, 10 well, 15 well & Prep/2D combs for sample volumes ranging from 20-150 µl. • The system should be capable of accommodating both hand cast & precast gels of the below said dimensions : • Gel size (W x L) : Precast 8.6 x 6.8 cm , handcast 8.3 x 7.3 cm <p>Specifications for Power Supply:</p> <ul style="list-style-type: none"> • Output range: 5-250V, fully adjustable in 1 V steps • 0.01 to 3.0 A, fully adjustable in 1mA steps • 300W maximum • Type of output: constant voltage, constant current with automatic cross over • Output terminals: 4 pair recessed banana jacks floating in parallel • Timer: 1-999 min, fully adjustable • Should have option of Pause/resume run function
2	Low speed shaker	<ul style="list-style-type: none"> • Speed : 10-50RPM • Timer : 99hrs 99mins • Platform dimension : 30LX30B • Overall Dimension : 30WX30DX20H (cm)

		<ul style="list-style-type: none"> • Maximum load : 10Kgs • Power : AC 230V, 50Hz • Along with spare dimple mat
3	Rotary mixture	<ul style="list-style-type: none"> • Provides serial rotation of tubes for extraction and diffusion • Mixing action can be set from 5-50RPM • Timer can be set from 0-99hrs/1-59min. • Rotating bar for tube dia from 10-30mm • Plastic coated spring clips • Along with bar for 20x15ml tube and 50x1.5ml tube
4	Horizontal electrophoresis gel combs	<ul style="list-style-type: none"> • 13 wells comb : 1No. • 26 wells comb : 1No. • 9 wells comb : 1 No. • 30 wells comb : 1No.
5	Desktop computers 3 No's	<u>Dell Inspiron One 20 3064:</u> 19.5" screen size, 1 TB HDD capacity, 4 GB RAM, Intel core 13 7 th Gen processor brand, 5400 RPM, with Bluetooth 4.0.
		<u>HP 20-C020IL:</u> 19.5" screen size, 1 TB HDD capacity, 4 GB RAM, Intel core 13 7 th Gen processor brand, 7200 RPM, with Bluetooth 4.0.
6	Temperature control system	<u>Daikin: 1 Ton 5 Star Split (FTF35QRV16):</u> Swing, 3350 W cooling capacity, R-32 refrigerant, remote control, 8 kg indoor unit weight, 33 kg outdoor weight, 4 units of coefficient of performance, with anti-bacteria filter, 930 W power consumption, 220-240 V power requirement, 4.3 A operating current.
		<u>Voltas 2 Ton 5 Star Split (245DY):</u> Swing, 1774 W cooling capacity, R-22 refrigerant, remote control, 17 kg indoor unit weight, 45 kg outdoor weight, 4 units of coefficient of performance, with anti-bacteria and active carbon filter, 1774 W power consumption, 220-240 V power requirement, 7.9 A operating current.
7	Containers for live samples	5 litres, 10 litres, 15 litres
8	Refrigerator 3 No's	345L capacity, 3 star rating, frost free double door refrigerator (RT37M5518S8/HL), Elegant Inox, Convertible, Inverter compressor, auto defrost to stop ice-build up, 1 year warranty on product, 10 years warranty on compressor.

9	Data Processor 2 No's	Dell Vostro 3578: 15.6" screen size, 1920x1080 pixels screen resolution, with web camera, processor of intel core i5 (8 th Gen), 8250U processor model, 1.6 GHz processor clock speed, 8GB RAM, 1 TB storage capacity.
10	Provisions for chairs, tables and furniture for seminar hall	Executive Chairs, Dias table of 10 feet length x70 cm width x 2.5 feet height. With standard thickness of GLASS TOP(2 NOS)
11	Writing padded chairs for training hall	Writing padded chairs for training hall with Cushion seat along with bottom carriage
12	Electronic podium	5 core Podium-01 Portable Lectern Microphone Stand with 3 Inbuilt Speakers, USB, 2 Wireless Microphones:
13	Electronic podium	5 core Podium-01 Portable Lectern Microphone Stand with 3 Inbuilt Speakers, USB, 2 Wireless Microphones: In Built Lap top facility for presentation(Standard company viz DELL, SAMSUNG, APPLLE
14	LCD Projector	LCD Projector with provision to project the objects including, white screen, Lap top accessories with all facilities for presentation in seminar hall and in open village meeting with standard public address system
15	Soil compaction meter (soil penetrometer)	Consists of a study handle under which is sensitive proving ring an extension piece is fixed to the bottom of the proving ring and carries a detachable penetration cone at its tip. proving ring capacity 100 kg (1 KN) and 0.0002 mm dial gauge provided indicates the penetration load applied. an optical viewer is provided to facilitate reading the dial gauge by the operator. simplified for single person operation. a calibration chart is provided for proving ring. Instrument is complete in a wooden carrying case.
16	3.5 KV UPS 1 no	3.5 KV UPS consist of 850W invertors, 150 ohms battery with capacity to supply power to operate 4 fans and 4 tube lights with 7 hours backup
17	2.5 KV UPS 2 no.	2.5 KV UPS consist of 850W invertors, 150 ohms battery with capacity to supply power to operate 4 fans and 4 tube lights with 7 hours backup
18	Profile probe with accessories	Technical Specifications for PR2/4 and PR2/6 1. Measurement Volumetric soil moisture content, \square V (m ³ .m ⁻³ or % vol.). 2. Range : Accuracy specified from 0 to 0.4 m ³ .m ⁻³ , Full range is from 0.0 to 1.0 m ³ .m ⁻³ 3. Accuracy \square 0.04 m ³ .m ⁻³ , 0 to 40°C after soil specific calibration \square 0.06 m ³ .m ⁻³ , 0 to 40°C with generalised soil calibration in 'normal' 4. soils Salinity errors Included in above figures (50 to 400 mS.m ⁻¹) 5. Soil sampling volume Vertically: ~95% sensitivity within \pm 50mm of upper ring of each pair. Horizontally: ~95% sensitivity within a cylinder of radius 100mm. 6. Environment 0 to 40°C for full accuracy specification, -20 to 60°C full operating range. IP67 rated

		<p>7. Stabilisation Full accuracy achieved within 1s from power-up.</p> <p>8. Power requirement Minimum: 5.5V DC with 2m cable, 7.0V with 100m.* Maximum: 15V DC PR2/4 consumption: < 80 mA PR2/6 consumption: < 120 mA</p> <p>9. Outputs 4 (PR2/4) or 6 (PR2/6) analogue voltage outputs: ~0 to 1.0V DC corresponding to 0 - 0.6 m3m-3 (mineral calibration)</p> <p>10. Connector M12 8-way male.</p> <p>11. Cabling Up to 100m of cabling may be attached</p> <p>12. Construction material 25.4mm polycarbonate tube with pairs of stainless steel rings</p> <p>13. Size / weight PR2/4 length: 750mm Weight: 0.6kg PR2/6 length: 1350mm Weight: 0.95k</p>																														
19	SPAD chlorophyll meter	<table border="0"> <tr> <td>Measurement Subject</td> <td>Crop leaves</td> </tr> <tr> <td>Measurement method</td> <td>Optical density difference at 2 wave lengths</td> </tr> <tr> <td>Measuring mode</td> <td>2 wavelengths optical density difference</td> </tr> <tr> <td>Measuring area</td> <td>2 mm x 3mm</td> </tr> <tr> <td>Subject thickness</td> <td>1.2 mm Max</td> </tr> <tr> <td>Light source</td> <td>2 LED elements</td> </tr> <tr> <td>Receptor</td> <td>1 SPD (Silicon photodiode)</td> </tr> <tr> <td>Display range</td> <td>-9.9 to 199.9 SPAD units</td> </tr> <tr> <td>Memory function</td> <td>Memory capacity up to 30 values</td> </tr> <tr> <td>Sensor</td> <td>Silicon Semiconductor photodiode</td> </tr> <tr> <td>Accuracy</td> <td>Within± 1.0 SPAD units</td> </tr> <tr> <td>Repeatability</td> <td>Within ± 0.3 SPAD units</td> </tr> <tr> <td>Reproducibility</td> <td>Within ± 0.5 SPAD units</td> </tr> <tr> <td>Working environment</td> <td>0.50°C</td> </tr> <tr> <td>Standard Accessories</td> <td>2AA-size alkaline batteries, soft case, Reading checker.</td> </tr> </table>	Measurement Subject	Crop leaves	Measurement method	Optical density difference at 2 wave lengths	Measuring mode	2 wavelengths optical density difference	Measuring area	2 mm x 3mm	Subject thickness	1.2 mm Max	Light source	2 LED elements	Receptor	1 SPD (Silicon photodiode)	Display range	-9.9 to 199.9 SPAD units	Memory function	Memory capacity up to 30 values	Sensor	Silicon Semiconductor photodiode	Accuracy	Within± 1.0 SPAD units	Repeatability	Within ± 0.3 SPAD units	Reproducibility	Within ± 0.5 SPAD units	Working environment	0.50°C	Standard Accessories	2AA-size alkaline batteries, soft case, Reading checker.
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20	Automated DNA extractor	<p>Applications Automated nucleic acid purification. DNA, RNA and protein purification</p> <p>Time 30 to 120 minutes</p> <p>Number of Samples 1 to 12 samples per run</p> <p>Interface Touch screen</p> <p>Dimensions(WxDxH) 650 x 620 x 570 mm</p> <p>Power 100 to 120 V AC, 50 to 60 Hz 220 to 240 V AC, 50 to 60 Hz</p>
21	Lab furniture	<p>Island table : 3000LX1500WX900H mm 20 gauge electro galvanized sheet with Epoxy polyester powder coating. It should consist alternative modular with Top drawer and Bottom cupboard. Bottom cupboard should have one no. Inner horizontal partition. All the drawers must have locking arrangements. 2 No's of reagent Rack should be provided. 4 No's of 15/5 amps 3pin socket cum Switch should be provided. 1 No's of P.P/porcelain Sink (560x355) mm With 3 way water tap should be provided .IVORY/ BLUE colour. Must be provided three years comprehensive warranty</p> <p>Wall table: 3000LX1500WX900H mm 20 gauge electro galvanized sheet with Epoxy polyester powder coating. It should consist Alternative modular with Top drawer and Bottom cupboard. Bottom cupboard should have one no. Inner horizontal partition. All the drawers should have locking arrangements. 2 No's of reagent Rack should be provided. 4 No's of 15/5 amps 3pin socket cum Switch should be provided. 1 No's of P.P/porcelain Sink (560x355) mm With 3 way water tap should be provided .IVORY/ BLUE colour. Must be provided three years comprehensive warranty</p> <p>Wall storage cupboard : 900LX300WX600H mm 20 gauge electro galvanized sheet with Epoxy polyester powder coating. It should have front open type cupboard and horizontal partition will be provides. The unit should be fixed on the wall through the eye-let holes. Must be provided three years comprehensive warranty</p> <p>Corner box: 1050LX1050WX900H mm 20 gauge electro galvanized sheet with Epoxy polyester powder coating .It must consist modular with Bottom cupboard. Bottom cupboard should have one no. Inner horizontal partition. (18mm ±1mm) thick well-polished. Black granite should be provided. IVORY/ BLUE colour. Must be provided three years comprehensive warranty</p> <p>Cushion top laboratory stools: Galvanized iron height adjustment stools with cushion top. Must be provided three years comprehensive warranty.</p>

22	Photosynthetic system	LI-6400 portable photosynthesis system (LI-COR). It consists of <ol style="list-style-type: none"> 1. Console: a data logging computer with key board and LCD Screen 2. Sensor head/IRGA: Leaf chamber, spring loaded latching handle, 2peltier thermoelectric coolers, sample and reference IRGAS, Light sensor. 3. .Chemical tubes: a tube containing soda lime and a tube containing drierite, a dessicant 4. CO2 Source: Catridge+ injector or tubing from a buffer volume
23	Leaf Area Meter	<ol style="list-style-type: none"> 1. Resolution : 1mm² or 0.1mm² (interchangeable) 2. Scanning Area: 1mm² Resolution: 1mm x 1mm 0.1mm²Resolution : 0.300mm W x 0.333mm 3. Display Capacity: 1mm² Resolution : 999,999.99 cm² 0.1mm²Resolution : 99,999.999 cm² 4. Display: Full 8-Digit LED 5. Sample Dimensions: Width : 1mm² Resolution : 25.4 cm maximum, 1.5 to 3.0mm minimum 0.1mm²Resolution : 7.5 cm maximum, 0.5 to 1.5mm minimum Thickness :Upto 2 cm , expandable to 2.5 cm by the user Length : Unlimited 6. Conveyer Belt Speed : 8.0cm s⁻¹ at 60Hz, 6.7 cm⁻¹ at 50Hz. 7. Light Source: 15 watt Fluorescent tube 8. Transparent Belts: Rugged clear Vinyl 9. Power Requirement: 108-126/216-252VAC, 48 to 66 Hz, 100 W max 10. Operating temperature: + 15 to 55⁰ C 11. Serial Cable, Windows Interface Software, Dust Cover.



**Associate Director of Research
RARS, Nandyal**

ANNEXURE II

Instructions to Tenderers and general conditions governing the submission of Tenders:

- 1 The company/ tenderer should have been in the market for the last 4-5 years
- 2 The rate quoted should include the cost of all the accessories, in the complete unit and spares needed include 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 the 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 include all the insurance charges up to the project site. The tenderers shall, therefore, be responsible for the safe delivery of the equipment at project sites.
- 6 Taxes (GST, Service tax, excise duty etc..) if any should be clearly indicated in the tender form.
- 7 The rate quoted should be valid for 12 months from the date of acceptance of the tender.
- 8 Supply should be made within three months on receipt of supply order.
- 9 The service contract of the unit may also be specified in the tender.
- 10 Your tender should be sent in a sealed cover superscribed as “Tender for the supply of _ _ _ _ _ (Name of the Equipment) addressed to the **“The Associate Director of Research”, Regional Agricultural Research Station, Noonepalli, Nandyal, Kurnool district – 518 503, Andhra Pradesh.**
- 11 The University has every right to accept or reject any or all tenders without assigning any reasons thereof.
- 12 Warranty: The contractor shall warrant that 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 the established and generally accept standards for the materials of the type ordered and in full conformity with the contract specifications and drawings.
- 13 The tender fee of Rs.500/- (Rupees Five hundred only) to be drawn in favour of **Administrative Officer, RARS, Nandyal** is non-refundable.

- 14 The successful tender has to leave EMD amount of 2.5% of total cost (drawn in favour of Administrative Officer, RARS, Nandyal) along with application and also has to pay 2.5% of the total cost of the equipment as security deposit till the expiry of warranty period.
- 15 The EMD/Security deposit shall carry no interest.
- 16 If any equipment has to be imported, the relevant expenditure should be borne by the tenderer. Hence, the price quoted in the tender form should include all such relevant expenditure along with the cost of equipment.
- 17 The EMD will be returned to the unsuccessful Bidders on their request.

Note: Cheques, Government security (stock certificates, bearer bonds, promissory notes, cash certificates etc.) will not be accepted.



**Associate Director of Research
RARS, Nandyal**

(To be used by the tenderers)

To
The Associate Director of Research
Regional Agricultural Research Station
Nandyal- 518 503

From:

Sir,

Sub: Tender for the supply, installation and commissioning of _____, as specified in the tender.

Ref: 1. Your tender notice No: _____ Dt. _____
2. EMD – DD No. _____ Dt. _____ for Rs. _____

I/We _____ have read the description and specifications for the _____ (Annexure I) and the instructions and general conditions (Annexure II) and hereby agree to abide the said conditions.

- I. I/We hereby offer to supply the articles prescribed in the schedule (or such portion thereof as you may specify on the acceptance of tender) at the price given below.
- II. I/ We agree to hold this offer open for a period of twelve months from the date of acceptance of tender and shall be bound by communication of acceptance despatched with in a period of 15 days from the date of opening of tenders.
- III. I/We have also examined the requisite specifications of the material to be supplied and my/our offer is to supply the required material in accordance with the requisite specifications.
- IV. The full value of the earnest money shall stand forfeited without prejudice to any other rights of remedies if I/We withdraw the offer before a final decision on the tender is taken.
- V. The tender fee of Rs. 500/- (Rupees Five hundred only) in favour of Administrative Officer, RARS, Nandyal, which is non refundable has been enclosed with tender form, vide DD.No. _____ dt. _____.
- VI. I/ We carefully considered all terms and conditions in annexure I and II and particulars regarding settlement of disputes and we have signed the same in token of consciously accepting the same and do hereby state we accept them without any reservations and accordingly I/We quote the rates inclusive of all taxes, duties, insurance, transportation to Regional Agricultural Research Station, Nandyal.

<u>Name of the Item</u>	<u>Unit</u>	<u>Unit price in</u>
	<u>Rupee</u>	

The articles will be ready for delivery within the ----- days/months from the date of receipt of firm orders.

Encl: Tender

Address of tenderer :
With mobile no. and email address

Signature & Seal of Tenderer(s)

Signature of witness

- 1.
- 2.

TENDER APPLICATION FORM

- 1 Item quoted for (please indicate correct S.No. of :
item in Advertisement)
- 2 Name and address of organization (phone, cell :
No. fax and email)
- 3 Name and designation of head of the :
organization
- 4 Year of incorporation :
- 5 Number of qualified service personnel :
- 6 Response generation (immediate/ 1 day/ 2 days) :
- 7 No. of orders taken up so far (enclose users list) :
- 8 In case of urgent repairs, please indicate the :
correct contact Persons name and phone
number, cell No. & email for attending the
repairs of the equipment
- 9 Photostat copies of all the documents prescribed :
in terms and conditions are enclosed

Information required for payment through CFMS

- 10 Aadhar no. with Xerox copy :
- 11 PAN No with Xerox copy :
- 12 GST No with Registration copy :
- 13 Bank A/c no. with bank Pass book first page for :
arranging payment
- 14 Bank Name :
- 15 Branch Name :
- 16 IFSC code No. :

Signature of the applicant

Note: Tender application forms without Photostat copies of all documents prescribed in terms and conditions will not be considered.

Check list

1. EMD @ 2.5 % in the form of Bank draft No. _____Dt.
2. Two references regarding performance
3. Signature and seal of tenderer with duly filled in application.



**Associate Director of Research
RARS, Nandyal**