

Total No. of pages in tender document 24 (Twenty four) pages

TENDER FORM



**Acharya N.G.Ranga Agricultural University
REGIONAL AGRICULTURAL RESEARCH STATION
TIRUPATI- 517502, CHITTOOR DT.**

NOTICE INVITING TENDER (Online version)

<u>Sl.No.</u>	<u>Item</u>	<u>Description</u>
1.	Department Name	Regional Agricultural Research Station, Tirupati
2.	FILE / NIT Number	File No. 1871/Accts.IV/2019
3.	Tender Subject	Purchase of Scientific Equipment and Laboratory Items to RARS, Tirupati.
4.	Cost of Tender Document	Not applicable
5.	Tender Type	Open
6.	Tender Category	Products
7.	EMD Amount for provisions(INR)	2% of the Bid value
8.	EMD payable:	The Associate Director of Research, RARS, Tirupati payable at Tirupati on any nationalized bank only
9.	Bid Document Downloading Start Date	22.09.2021 by 02.00 PM
10	Bid Document Downloading End Date	06.10.2021 by 12.00PM
11.	Last Date & Time for Receipt of Bids online	06.10.2021 by 04.00PM
12.	Submission of all the uploaded documents (Hard Copies) at the Regional Agricultural Research Station, Tirupati on or before	08.10.2021 by 04.00PM
13.	Technical Bid Opening Date and Time(Qualification and Eligibility Stage)	11.10.2021 by 02.00PM
14.	Price Bid Opening Date and Time (Financial Bid Stage)	After finalization of technical bid
15.	Place of Tender Opening	Regional Agricultural Research Station, Tirupati.
16.	Tender Inviting / Opening authority	Associate Director of Research, Regional Agricultural Research Station, Tirupati.
17.	Address/E-mail id	adr.rarstpt@angrau.ac.in , ao.rarstpt@angrau.ac.in
18.	Contact Details/Telephone	08772248739, 9440507956

19	Procedure for Bid Submission	<p>1. Bids shall be submitted online.</p> <p>2. The participating bidders in the tender should register themselves free of cost on e-procurement platform in the website http://www.apecurement.gov.in.</p> <p>Note: After tendering, all Bidders should submit the attested copies of the uploaded certificates along with original EMD to the Associate Director of Research, RARS, Tirupati on or before 08.10.2021 by 04.00 PM, failing which their tender will be summarily rejected.</p> <p>Transaction fee on e-Procurement Platform(Corpus fund): All the participating bidders shall pay a transaction fee (non-refundable) as mentioned in the NIT payable to M/s APTS, Vijayawada and through on line. (0.04% of estimate contract value + GST as applicable). It is mandatory for all the participant bidders from 20.08.2020 to pay a Non-refundable Transaction fee electronically to the M.D., A.P.T.S, Vijayawada by the service provider through "Payment Gateway Service on E-Procurement platform".</p> <p>The Bidder shall authenticate the bid with his digital certificate for submitting the bid electronically on e-Procurement Platform and the bids not authenticated by Digital certificate of the bidder will not be accepted on the e-Procurement platform</p>
	General Terms and Conditions and specifications of the equipment/Items	AS PUBLISHED IN THE TENDER DOCUMENT

Sd/-L.Prasanthi
Associate Director of Research
Regional Agricultural Research Station
TIRUPATI

**ACHARYA N.G.RANGA AGRICULTURAL UNIVERSITY
REGIONAL AGRICULTURAL RESEARCH STATION, TIRUPATI**



E-PROCUREMENT NOTICE

Tender Notice No. 1871/Accts.IV/2019

Date:17.09.2021

E- Procurement tenders are invited from the manufacturers or their authorized dealers or reputed firms for Supply of “Purchase of Scientific Equipment and Laboratory Items to RARS, Tirupati.”

Details are as follows:-

1)	Tender document online opening date	22.09.2021 by 02.00PM
2)	Tender document download online closing date	06.10.2021 by 12.00PM
3)	Last date for Bid- Submission Online	06.10.2021 by 04.00PM
4)	Submission of all the uploaded documents (Hard Copies) at the Regional Agricultural Research Station, Tirupati on or before	08.10.2021 by 04.00 PM

- Bidders shall have GST Registration (for details log on to www.aps.gov.in)
- For details visit www.apecurement.gov.in

For any clarification, please contact:

CONTACT: 0877-2248739

Sd/-L.Prasanthi
Associate Director of Research
Regional Agricultural Research Station
TIRUPATI

GENERAL TERMS AND CONDITIONS

1. Tenders will be accepted through on-line up to **06.10.2021 until 04 PM** by the Associate Director of Research, Regional Agricultural Research Station, Tirupati for the supply of Scientific Equipment and Laboratory Items to RARS, Tirupati in **Annexure-I**.
2. All the interested bidders have to mandatorily log on to e-procurement web site through Secure mode only and submit their bids using digital certificates (signing certificate – single key pair) obtained from Andhra Pradesh Technology Services Ltd. [APTS – Sub CA] in-compliance to Chapter III of IT Act 2000. The details and procedure for obtaining digital certificates is given at <https://tenders.approcurement.gov.in>.
3. The tenders are invited **by Associate Director of Research, ANGRAU,RARS, Tirupati** for the supply of Scientific Equipment for RARS, Tirupati in **Annexure-I**.

ELIGIBILITY TO PARTICIPATE IN TENDERS

1. Manufacturers or their authorized Dealers or reputed firms are eligible to quote in this Tender. Authorized Dealers should attach Letter of Authority from the Principal manufacturer to quote in this Tender.
2. The Dealers/Makers should be registered firms and should have authorization certificate from principals in case of representation of the international firm.
3. The Tenderer shall supply good quality items as per Standards.
4. The Associate Director of Research, Regional Agricultural Research Station, Tirupati reserves the right to reject the tender of blacklisted companies and those of companies whose past performance with the Regional Agricultural Research Station, Tirupati was unsatisfactory due to delayed / erratic supplies, frequent product failures etc.,

SUBMISSION OF THE ON-LINE TENDER FORMS

Tenders have to be submitted in two parts in ONLINE in the prescribed proforma i.e., Technical Bid (Part-I) and Financial Bid (Part-II).

1. Financial Bids of those Tenderers who qualify in Technical Bid will only be considered for finalization of the tender.
2. The Tenderer may please note that all the columns in the Technical Bid are to be filled in meticulously with precision, with documentary evidence wherever necessary.
3. All the required documents / enclosures / literature / technical catalogs etc., have to be uploaded & attached along with Technical Bid (Part-I of the Tender) only. Technical catalogues for quoted item is essential. Tenders submitted without technical literature of the item will be summarily rejected. Eligibility for Financial Bid (Part-II of the Tender) will depend on the outcome of documents uploaded / electronically attached to Technical Bid

THE SCHEDULES FOR OPENING OF TENDERS THROUGH ONLINE ARE:

11.10.2021 at 02.00 PM	Opening of Technical Bids i.e. Part-I
	Financial bid shall be opened after finalization of technical bid

1. The dates scheduled for RECEIPT and OPENING of tenders are fixed and will not be changed under any circumstances. However, the Associate Director of Research, Regional Agricultural Research Station, Tirupati reserves the right of postponement of the date of opening of Tenders or date of opening of financial bids in the event of any unforeseen reasons.

2. If for any unforeseen reasons, the last date for submission of tenders and opening of Tenders happens to be a holiday, the notified dates automatically get postponed to next working day.
3. The Associate Director of Research, Regional Agricultural Research Station, Tirupati is “Not Responsible” for non-receipt of tenders or late uploading of tenders through online for any reason, what so ever.
4. Failure to fill and sign the declaration and check slip shall make tender invalid.

DOCUMENTS TO BE ELECTRONICALLY ATTACHED:

1. All the documents are arranged in the serial order, (*Serial Numbers and Page Numbers should be indicated on the right side top of the corner of each page*) and then uploaded to the e-Procurement web site i.e., <https://tenders.apecurement.gov.in>.

Sl.No	Code No.	Name of the Document
1.	E-I	Declaration Form (Annexure-II)
2.	E- II	Manufacturing License / Authorization letter from the Manufacturing firm
3.	E- III	Earnest Money Deposit
4.	E- IV	VAT/Sales Tax/GST Clearance Certificate or payment particulars for preceding two years along with supporting Documents. (2019-20 & 2020-21)
5.	E- V	Annual Turnover Assessment order for the preceding two years (2019-20 & 2020-21) certified by Commercial Tax Officer / Chartered Account
6.	E- VI	Copies of balance Sheet, Profit and loss Account for last two years i.e. (2019-20 & 2020-21) duly certified by the Auditor
7.	E – VII	Copy of GST Registration Certificate
8.	E-VIII	Users list for the item/ equipment during past 4 years
9.	E- IX	BIS / ISO/ CE issued by the Competent Authority
10.	E-X	APSSIDC/NSIDC/MSME Certificate, if applicable
11.	E- XI	Government Ownership Certificate, If applicable
12.	E- XII	List of service centers with contact details for each of the equipment

2. The Tenderers are requested to submit the following for verification on or before **08.10.2021 until 04.00PM physically or by post**. The Associate Director of Research, Regional Agricultural Research Station, Tirupati is not responsible for any postal delay.
 - a) Check slip of all the documents uploaded
 - b) Copies of all the documents, which were uploaded

Note: This is only for cross verification of the uploaded documents. Any required document failed to upload, the bid shall become invalid, even though documents are produced physically.

3. All the enclosed documents shall be in English or Hindi or Telugu, *If Any Document is Produced in any Language Other than English or Hindi or Telugu, True Translation copies of Such documents in English Shall be enclosed duly attested by a Gazetted Officer*. Failure to submit English translation of such documents shall make tender invalid. All Originals are to be presented at the time of scrutiny for verification.

TRANSACTION FEE

All the participating bidders shall pay a transaction fee (non-refundable) to M/s APTS, Vijayawada and through on line. (0.04% of estimate contract value + GST as applicable). It is mandatory for all the participant bidders from 20.08.2020 to pay a Non-refundable Transaction fee electronically to the M.D., A.P.T.S, Vijayawada by the service provider through "Payment Gateway Service on e-Procurement platform".

EARNEST MONEY DEPOSIT (EMD)

1. Earnest Money Deposit as indicated below in the form of crossed demand draft / pay order drawn on any scheduled bank in favor of The Associate Director of Research, RARS, Tirupati and this E.M.D. The E.M.D. of unsuccessful tenderers will be returned after signing the agreement with the successful tenderers.

Particulars of EMDs :2% of the Bid value.

2. All the bidders shall invariably upload the scanned copies of DD/pay order towards EMD along with the bid, in e-procurement platform and this will be the primary requirement to consider the bid responsive.
3. The DD/pay order should be deposited to this office while producing hard copies for verification.
4. Cheques, Cash deposits, Term Deposits or Fixed Deposits will not be accepted towards Earnest Money Deposit.
5. However the exemption of **Earnest Money Deposit will be given to Small Scale Industrial Units, Registered** with the Government of Andhra Pradesh and the National Small Scale Industries Development Corporation, New Delhi or the firms with specific exemption orders issued by competent authority of Government of Andhra Pradesh or Government of India. The order should be uploaded in the e-procurement platform in place of DD in case of any such claim.
6. The items permitted by S.S.I. Registration Authority will only be considered for manufacturing aspect only. IF ANY FIRM QUOTES ITEMS OTHER THAN THOSE COVERED UNDER S.S.I. REGISTRATION, E.M.D. SHALL ACCOMPANY THE TENDER. Failure to enclose E.M.D. shall make such of those items not covered under S.S.I. Certificate invalid for consideration.
7. Earnest Money Deposit of other tenders deposited with this office during any period of time shall not be considered for this tender.

SECURITY DEPOSIT

1. The successful Tenders(s) shall within 7 days, after the Associate Director of Research, Regional Agricultural Research Station, Tirupati written notice of acceptance of the Tender has been posted to him or them, deposit with the Associate Director of Research, Regional Agricultural Research Station, Tirupati a sum of rupees @ 2% of the cost of items inclusive of all taxes (or the authority may fix the amount according to the value of the tender) as a security for the fulfillment of the contract. Performance bond guarantee can also be considered, as security deposit in addition to the EMD. The Earnest Money Deposit/Security Deposit shall carry no interest. *The Security Deposit to be deposited will be in addition to the Earnest Money deposit.*
2. The Associate Director of Research, Regional Agricultural Research Station, Tirupati reserves the right to forfeit and confiscate Earnest Money Deposit, if the successful Tenderer(s) fail to pay the Security Deposit which is required under the Terms and conditions of this Tender.

FORFEITURE / REFUND OF THE EARNEST MONEY DEPOSIT / SECURITY DEPOSIT

1. In case the selected Tender(s) does not supply the stores at the quoted rates within the period of contract and commits any breach of any one or more of these terms and conditions, the Earnest Money deposited by Tenderer(s) will be forfeited by The Associate Director of Research, Regional Agricultural Research Station, Tirupati.
2. Earnest Money of the unsuccessful Tenderer(s) shall be refunded on signing the agreement with the successful tenderers by the concerned component authority of ANGRAU, Guntur. No interest is payable by The Associate Director of Research, Regional Agricultural Research Station, Tirupati on such deposits.

3. The Earnest Money and Security money deposited by successful Tenderer(s) shall be retained by the Associate Director of Research, Regional Agricultural Research Station, Tirupati till three months after the expiry of the contract period, i.e., 12 months from the date of acceptance of the tender or the date on which the supply which may arise in consequence of repeat orders placed during the 12 months for which the rates quoted are to remain valid.
4. **On due performance and satisfactory completion of the order in all respects during the contract period, the Earnest Money Deposit and the security deposit will be refunded to the Contractor(s) without any interest within a period of 3 months with effect from the date of receipt of a request to this effect from the supplier(s).**

VAT/SALES TAX/GST CLEARANCE CERTIFICATE

Attested Photo Copy of GST / VAT / Sales Tax Clearance Certificate and Sales Tax Payment particulars obtained from the competent sales tax authority of the area concerned for the years (2019-20 & 2020-21) shall be attached. Certificates older than that shall not be considered. Those not liable for GST/VAT/Sales Tax payment under relevant rules should produce a certificate to that effect from the competent authority.

MANUFACTURING LICENSE:

1. Attested Photocopy of the Latest Manufacturing License, which is in vogue shall be enclosed. If the firm has applied for renewal of license, necessary authenticated proof from the concerned Licensing Authority shall be furnished. **Licenses issued for test and Analysis will not be considered.** The product/item quoted by the tenderer shall be underlined with “Red Ink”. The License number and date should also be underlined with ‘Red Ink’. The abstract of the product quoted should be enclosed. **The Manufacturing License should clearly indicate a minimum of two years of manufacturing and marketing experience. Items without the proof of two years of Manufacturing and Market experience will summarily be rejected.**
2. The tenders received without proper license, authenticated list of item covered by license and authorization letters from actual / original manufacturers are liable for rejection without any further notice.
3. Tenderers should enclose documents to show that manufacturing Unit has been recognized with the ISO Certificate etc.
4. Tenderers should enclose documentary evidence of having manufactured and marketed the product for two years.

BIS/ISO/CE etc CERTIFICATES (whichever is applicable):

1. Tenderer should produce BIS / ISO/ CE etc. certificate (wherever applicable) issued by the concerned Licensing Authority.
2. Tenderers should enclose BIS / ISO Certificate for products wherever applicable.
3. The certificates whichever is applicable and claimed should be furnished with supportive documents.

TERMS AND CONDITIONS FOR COMMERCIAL AGREEMENT:

1. The details of the required items are shown in e-procurement **Web Application**. Rates should not vary with the quantum of orders or destination.
2. **The rates quoted shall be in Indian Rupees only and must be expressed both in figures and words as well. The rate of each category of item should be quoted. The rates quoted should be inclusive of all the applicable taxes and “FOR destination” (destinations for the items are mentioned in Annexure-I). However, the applicable taxes and packaging costs if any etc. should be clearly indicated in the price bid.**
3. Tenderers who are supplying the items offered in this tender to other states shall enclose the copies of latest invoices to support of their claim that the rates quoted to ANGRAU are comparable.
4. No Insurance charges will be paid by the Department / Indenter.

5. The rates quoted by the tenderer shall not exceed the controlled rates, if the Government controlled rates are in force on the date of submission of tenders. In the absence of controlled prices, the tenderer shall quote reasonable price applicable to bulk purchases.
6. All rates quoted by the bidder should be valid for a period of One year from the date of acceptance of the lowest Bid.
7. The rates offered in the tender shall not exceed the M.R.P. as well as the lowest price at which the firm sells the product of identical description to any other department or organization or person anywhere in the State / neighboring states of A.P. If such incidences of quoting higher rates to this RARS, Station come to the notice at any time, during the course of Rate Contract for the rest of the Rate Contract period, the Associate Director of Research, Regional Agricultural Research, Station, Tirupati reserves the right to initiate an appropriate disciplinary action against such firms including black listing them.
8. IF ARTIFICIALLY LOW RATES ARE QUOTED, the ASSOCIATE DIRECTOR OF RESEARCH, REGIONAL AGRICULTURAL RESEARCH STATION, TIRUPATI RESERVES THE RIGHT TO CROSS-VERIFY THEM AND IGNORE THEM FROM CONSIDERATION IN ORDER TO PREVENT UNETHICAL TRADE PRACTICES.
9. **Ordinarily, the tendered items will be selected based on the lowest rates quoted by the firms in the Financial Bids. However, the tender committee reserves the right to select the product even with higher rates depending upon the reported performance / market reputation / efficacy of the item basing on the user reports / feedback given by the end users, ignoring the lowest rates.**
10. If tenderer quotes the rates at his will, overlooking the conditions in the previous paragraphs, the tender is liable for cancellation even after approval of tender and firms will face suitable legal action for such action at any time during the Rate Contract period.
11. Rates quoted should be marked clearly with main price and taken separately. Total price after taking all the actuals will be taken as financial quote for comparison.
12. **No representation towards upward revision of rates once accepted will be considered. DSIR and other certificates for custom exemption will be provided by RARS, Tirupati.**
13. The rate quoted and accepted will be binding on the tenderer for the stipulated period and on no account will any increase in the price be entertained till the completion of tender period.
14. No tenderer shall be allowed at any time on any ground what so ever to claim revisions of or modifications in the rates quoted by him. Clerical error, typographical etc., committed by the Tenderers in the tender forms shall not be considered after opening of the tenders. Conditions such as "SUBJECT TO AVAILABILITY" "SUPPLIES WILL BE MADE AS AND WHEN SUPPLIES ARE RECEIVE" etc., will not be considered under any circumstances and the tenders of those who have given such conditions shall be treated incomplete and for that reason shall be summarily rejected.
15. No company / Firm which has been blacklisted either by the Regional Agricultural Research Station, Tirupati, A.P or ANGRAU or by any State Government or Central Government / Organizations shall participate in the Tender during the period of Blacklisting. If any such firm participates and came to know at a later stage, and if any firm is Black listed at a later date either by the Government of Andhra Pradesh or any other State / Central Government will not only be debarred / Black listed permanently and their security deposit /EMD whichever is available with the Department will be forfeited and any business / transactions will be stopped with their firms forthwith.
16. The indented stocks shall be delivered at respective institutes or research stations as indicated in Annexure-I at the cost of the supplier.
17. The rates should be quoted separately for each item.

AGREEMENT

1. Every successful tenderer on intimation by this office shall execute an agreement on Rs.100-00 (Rupees One Hundred only) non-judicial stamp paper in the prescribed form, which will be supplied along with the list of item tentatively approved. Agreement should be typed only on one side of stamp paper with due attestation on each page.
2. **In the event of failure to execute agreement in proper form along with the Security deposit by successful tenderer within (10) days, the EMD of such tenderer will be forfeited and such defaulters will forego the right to participate for future tenders for a minimum period of (3) year.**

DEMONSTRATION OF THE ITEMS:

1. The Tenderer may have to arrange for demonstration of the functioning of the items as per specifications with the Associate Director of Research, Regional Agricultural Research Station, Tirupati, in case of necessity.
2. If the item is declared to be not of standard quality or not meeting the specified requirements, it will be deemed to be rejected. If any item supplied by the tenderer is used after supply and is subsequently found to be not as per specifications, unsound, inferior in quality or description or are otherwise faulty or unfit for use, then the cost of such item will be recovered from the tenderer, if the payment had already been made, in addition to penalty. *The approved firms shall Re-Supply the item.*

OTHER CONTRACTUAL OBLIGATIONS

1. The contract shall not be capable of being varied except by written consent by both the Associate Director of Research (purchaser) and the supplier shall not in the absence of the specific written acceptance be bound by any provisions of the supplier's quotations, offers etc., which purport to impose conditions at variance with this contract.
2. The supplier shall not sublet or delegate this contract or part thereof without the written consent of the Associate Director of Research, Regional Agricultural Research Station, Tirupati. Such consent shall not however be withheld unreasonably. But the Tenderer(s) may without the consent of The Associate Director of Research, Regional Agricultural Research Station, Tirupati purchase material as he/they does not normally manufacture.
3. The supplier shall keep confidential all matters concerning this contract and comply with all reasonable security requirements. All drawing, blocks, specifications, manuscripts, samples etc., supplied by the Associate Director of Research, Regional Agricultural Research Station, Tirupati and all copies thereof shall be returned to the Associate Director of Research when their use is terminated. In no event the supplier(s) shall permit publicity concerning this contract without the prior consent of the Associate Director of Research, Regional Agricultural Research Station.
4. Any undertaking or commitment given by or made by any Officer or the Associate Director of Research verbally or in writing does not have any validity unless it is signed again by the authority competent who concluded an agreement earlier.

INSPECTION AND PACKING

1. At all reasonable time during production and prior to dispatch of material the supplier(s) shall afford and secure for the representative of the Associate Director of Research, Regional Agricultural Research Station, Tirupati every reasonable access and facility at his plant or premises for its inspection and making of usual tests on behalf of the institute. The supplier(s) shall advise the scheme at least 7 days prior to the time when any material is ready for final inspection. The Associate Director of Research, Regional Agricultural Research Station, Tirupati will then make the inspection and subject to the material being in all respects as specified and being of sound quality and workmanship the representative of the Associate Director of Research, Regional Agricultural Research Station shall sign or countersign a certificate of inspection.
2. a) The supplier(s) shall supply to the Associate Director of Research, Regional Agricultural Research Station, Tirupati on request a report from time to time as to the progress of supplies. Any delay or anticipated delay will be reported at once together with the full reasons there for.
b) The responsibility of procurement of transport facilities and dispatch of the stocks in good condition and as per specifications and in time/door delivery lies with the supplier(s) and they must keep up the delivery schedule at any rate.

- c) The insurance should be done at the cost of supplier(s) as the rate quoted is all inclusive for door delivery at respective institutes or research stations as indicated in Annexure-I.
3. Should the progress in supplies be delayed due to any cause beyond the reasonable control of the supplier(s) and whether such delay or impediment occurs before or after the time for dispatch, reasonable extension of time might be granted by agreement between the parties.
 4. The supplier(s) shall insert in each case 3 copies of packing list, fully item wise to show case number, contents and full description of the contents. The concerned in-charge of the stores of the respective institutes or research stations as indicated in Annexure-I at the receiving point will retain one copy with him and return the other two copies, duly signed to the supplier(s) who will append one copy of this packing list with invoices when sent to the concerned for payment.

SUPPLIES AS PER SPECIFICATIONS

1. All supplies shall be to the description and to the specifications laid down and in strict accordance with the approved samples. Deviations, if any should be clearly brought out failing which it will be normally construed that the materials offered are not to our requirements. Any special features may also be clearly brought out.
2. The decision of The Associate Director of Research, Regional Agricultural Research Station, Tirupati however shall be final as to the quality of supplies received and binding upon the supplier(s) in case, the supplier(s) supplies any other article than what is ordered such article supplied, not being approved, shall be liable to be rejected.
3. If the Associate Director of Research, Regional Agricultural Research Station, Tirupati requires any changes in specifications the supplier(s) shall use his best endeavor to comply with The Associate Director of Research, Regional Agricultural Research Station, Tirupati's wishes subject to fair fixation of prices and delivery schedule where appropriate.
4. If at any time during the term of this contract, the plans of the Associate Director of Research, Regional Agricultural Research Station, Tirupati changes for any reasons the Associate Director of Research, Regional Agricultural Research Station shall have the right to terminate or alter this contract by sending fifteen days notice to the supplier(s) by Registered letter. In respect of such of the material as it complete and ready for dispatch within thirty days of such notice, the Associate Director of Research, Regional Agricultural Research Station, Tirupati agrees to accept delivery thereof at the contract price and terms.

CONSEQUENCE OF NON-SUPPLY AND DAMAGES

1. All risks of loss, damage or depreciation to goods shall be upon the supplier(s) until the material is delivered at the addresses specified and in accordance with the provisions of the contract. Till the material received at the respective destination indicated by The Associate Director of Research, Regional Agricultural Research Station, Tirupati the property continues to be at the risk of the supplier(s). The mere fact that the material is delivered to transporter is no defense to the supplier(s) and the supplier(s) will be squarely held responsible for any delayed receipt of the material by the respective research stations or institutes as indicated in the Annexure-I or for loss of damage of any kind to the material in transit.
2. Assuming that the supplier(s) fails to deliver any or all the materials covered by the contract, The Associate Director of Research, Regional Agricultural Research Station, Tirupati reserves the right in addition to other legal remedies, to cancel the contract or any portion thereof and hold the supplier(s) liable for all damages sustained by virtue of the supplier(s) failing to perform the contract and consequent cancellation of the contract.
3. In the event of the supplier(s) failing to complete the supplies in time or according to the approved specifications, The Associate Director of Research, Regional Agricultural Research Station, Tirupati reserves the right to make such arrangements as it may think fit for the completion of the supplies on account of and the sole risk of the supplier(s).
4. In case the goods are not supplied according to specifications, they will be summarily rejected.
5. The time allowed for delivery of goods shall be deemed to be the essence of contract. In case the goods are not delivered to the respective addresses as indicated in the Annexure-I within the stipulated period, the Associate Director of Research, Regional Agricultural Research Station, Tirupati reserves the right to recover the liquidated damages a sum equal to 2% of the contract price of the undelivered material per week subject to a maximum of 5% of the value

of undelivered material. The Associate Director of Research, Regional Agricultural Research Station, Tirupati also reserves the right to cancel the purchase order in case supplies are delayed beyond the scheduled date of delivery and to make such arrangements as he may think fit for the completion of supplies on account and at the risk of the supplier(s). The additional expenses thus incurred together with the consequential losses and also the liquidated damages shall be recovered from the supplier(s) out of his/their security deposit/Earnest Money deposit and any other amount due to him/them. The balance still if any payable by the supplier(s) shall be paid by him/them within 7 days of notice by The Associate Director of Research, Regional Agricultural Research Station, Tirupati.

6. All invoices shall be prepared in four copies and shall be signed by the supplier(s) or his/their authorized agent(s). Every invoice shall bear a certificate to the effect that the material covered by the invoice(s) has been inspected by the supplier(s) before delivery and confirm in every way to the contract specifications and is packed in accordance with the contract requirements and further that the invoice is correct in every particular and no other invoice has been rendered previously in respect of the articles charged in the particular invoice. The invoice in triplicate along with advance stamped receipt shall be raised in the name of heads of the respective research stations or institutes as indicated in Annexure-I.
7. The payment of the bills shall be made by the heads of the respective research stations or institutes as indicated in Annexure-I duly deducting the statutory deductions, if any.

PENALTIES

1. If the successful tenderer fails to execute the agreement and / or deposit the required security deposit within the time specified or withdraws his tender after the intimation of the acceptance of his tender has been sent to him or owing to any other reasons, he is unable to undertake the contract, his contract will be cancelled and the Earnest Money Deposit deposited by him along with his tender shall stand forfeited to the heads of the respective research stations or institutes as indicated in Annexure-I and he will also be liable for all damages sustained by the heads of the respective research stations or institutes as indicated in Annexure-I by reasons of breach, such as failure to supply, including the liability to pay any difference between the prices accepted by him and those ultimately paid for the procurement of the articles concerned. Such damages shall be assessed by the heads of the respective research stations or institutes as indicated in Annexure-I, whose decision is final in the matter.
2. Non-performance of contract provisions will disqualify a firm to participate in the tender for the next three years.
3. In the event of tendered supplies failing quality test, contract with the tenderer will be suspended and purchases made from alternative suppliers. *Such firms may be black listed for three years* beginning from the year following the one in which defective supplies were detected. The tenderer shall also be liable for action under criminal law and the matter shall be notified to the concerned Licensing Authority.
4. In all the above conditions, the decision of the ASSOCIATE DIRECTOR OF RESEARCH, REGIONAL AGRICULTURAL RESEARCH STATION, TIRUPATI shall be final and binding.
5. In the event of any dispute arising out of the tender such dispute would be subject to the Jurisdiction of the Civil courts within the city of Tirupati.

SETTLEMENT OF DISPUTES

1. Any difference or dispute arising out of or in connection with this tender or acceptance thereof or the contract that may be entered in consequence thereof, shall be decided by arbitration. The Associate Director of Research, Regional Agricultural Research Station, Tirupati or his nominee shall be the sole arbitrator and the arbitrator's decision shall be final and binding on the parties. The Tenderer(s) will have no objection to such appointment on any ground whatsoever including that such nominee, in his official capacity dealt with this matter at any stage.
2. The parties hereby agree that in the event of any dispute no cause of action shall arise in their favour to approach any court unless they have resorted to and exhausted the remedy of arbitration as envisaged above.
3. The parties also do hereby agree that the contract envisaged by these terms and conditions shall be deemed to have been entered into at Tirupati alone will have jurisdiction to try and

legal proceedings which may arise out of this contract. Neither party shall file any proceedings in any other court.

Sd/-L.Prasanthi
Associate Director of Research
Regional Agricultural Research Station
Tirupati

**ANNEXURE-I
(Technical Specifications)**

**RKVY-RAFTAAR, 2019-2020
GPBR – Setting up of Oil Seeds Quality Lab at RARS, Tirupati
ANNEXURE-I
(Technical Specifications)**

Item Code	Name of the item	Specifications and parameters	Quantity
GPBR-SQL-01	Seed Scanner	<ul style="list-style-type: none"> • Seed scanning system: Seed Morphology System based Imaging technology to analyze Seed and grains. • Dark room Hood, Hi Resolution (2592 x 1944 Pixel), Auto focus Camera with epi and white light illumination system for capturing shadow free Seed Images. • The Camera should be seamlessly interfaced with the software for image capture and analysis with auto-save function. • Seed Software for automated seed morphometric analysis with reporting measurements of more than 75 parameters of size, shape, shape factors, texture, density measurements etc • Classify seeds on size shape and color measurements. Broken grain classification (3/4, 1/2, 1/4 etc.) • Percent color measurements: for damaged/diseased seed estimation. Grain or seed opacity analysis. • Classification according to any combination of measurement criteria • Batch run to analyze hundreds of images at a time • Data compilation for thousands of sample • Portable Computer System to meet the above application to store more than 300000 Images and reports. • Warranty : 1Year • Enclosure of ISO certificate, NSIC certificate and MSME certificate. 	One No.
GPBR-SQL-02	qPCR/RTPCR	<ul style="list-style-type: none"> • A dedicated multicolor Real Time PCR system (excitation and emission) with latest generation Peltier-based 96-well plate/tube in-built PCR to support the following: <ol style="list-style-type: none"> a. Gene-Expression analysis b. Pathogen Quantitation c. SNP Genotyping d. Plus/Minus Assays that utilize internal positive control e. Dissociation Curve Analysis f. Multiplexing and complete End-Point Assays g. Equipment with HRM support and suitable software should be provided along with the equipment. • Bright White LED for better excitation • Six filters with minimum 6plex multiplexing (Six targets in one tube). • System should be capable of running 2 to 6 individual 	One No.

		<p>programming in the same run with different set of temperature.</p> <ul style="list-style-type: none"> • Max block ramp rate should be 6.5°C/sec or better with temp uniformity of 0.4°C and sample ramp rate of 3.5°C/sec or better. • CMOS/CCD Camera for detection. The data collection and instrument control software should provide multi-componenting algorithm for deconvolution of multiple dyes, enabling addition of future dyes without changing the hardware. • Peltier based 96 well with 0.2 ml block should be provided along with the equipment, able to run total reaction volume of minimum 10 µL to 100 µL • System should be calibrated with ROX dye required as passive reference dye. • System should be able to run in standalone mode with onboard memory of at least 10 GB. • System should run in Fast and standard mode. • Application software like dedicated primer and probe design software as well as relative quantitation analysis software to analyze multiple 96-well-plates of data simultaneously must be included as standard supply in the quoted price. • Computer: A business line computer (suitable to the system) along with a multifunctional colour printer (high quality printer - back to back printable cum scanner -A4 and legal sizes) of any reputed company should be provided with the system. • A training kit on RT PCR should be provided along with system. • Necessary training for staff should be provided at customer convenience. • 3KV online UPS with 2 hr back-up should be supplied • Variable volume pipettes of ranges 2-20, 20-200 and 100-1000 should be supplied along with system. 	
<p>GPBR-SQL-03</p>	<p>Gel documentation system with accessories</p>	<p>Automation Capabilities:</p> <ul style="list-style-type: none"> • Smart Tray Technology - GelDoc Go Imaging Systems automatically recognize your application-specific tray and adjust imaging parameters and software options accordingly • Autofocus- Pre-calibrated focus for any zoom setting or sample height • Auto exposure - 2 user-defined modes (intense or faint bands) • Factory calibrated flat fielding for ensuring uniform data for all applications. System should be calibrated for image area, focus, and flat field correction at the factory and files stored in the integrated PC. <p>Hardware Specifications:</p> <ul style="list-style-type: none"> ✓ Touch-screen functionality: Multitouch capable Display resolution 1,024 x 768 pixels 9.7" (24.64 cm) display ✓ Maximum image area: 21 x 14 cm (W x H) ✓ Detector: 6.3 MP CMOS ✓ Pixel size: 2.4 µm x 2.4 µm ✓ Pixel density (gray levels): 65.535 ✓ Dynamic range: >3.5 orders of magnitude ✓ Excitation source: Trans-UVB (standard), Epi-white (standard), Trans-white (optional), Trans-blue (optional) ✓ Emission filter: 535–645 nm (standard) ✓ Data output: 16-bit or 8-bit: SCN, TIFF, JPEG image 	<p>One No.</p>

		<ul style="list-style-type: none"> files ✓ Instrument weight: ~16 kg (~35 lb) ✓ Instrument size (D x W x H): 44.8 x 36.0 x 35.3 cm ✓ Operating voltage: 100–240 VAC, 50–60 Hz ✓ Operating temperature: 10–28°C ✓ Operating humidity: 20–80% relative humidity (non-condensing) • Computer: A business line computer along with printer support should be provided with the system. • Suitable Operating System along with supporting programmes to be installed. 	
GPBR-SQL-04	Water purification system with accessories	<ul style="list-style-type: none"> • The System should produce 18.2 Mega ohm resistivity with pre-treatment cartridge, Reverse Osmosis and mixed bed ion exchange resins and activated carbon in a single pack, with feed water acceptance of upto 2000 micro Siemens conductivity, Fouling Index (SDI) <12, Total Chlorine is <1 ppm. • Single Stage pretreatment system • Prefilter: 5 micron or 1 micron wrapped type depth filter and Automatic low/high pressure cut off ✓ Pretreatment cartridge with depth filter and activated carbon. Should ✓ Contain RFID tag for easytraceability. ✓ High flux Thin film composite polyamide RO membrane with 94- 99% ✓ rejection ✓ Conductivity cell with cell constant 0.01 after RO would provide the ✓ efficiency of the membrane in rejecting the contaminants as well as the ✓ Permeate water quality. • Resorvior: 50L PE reservoir with Sensor rod float switch, programmed to have high and low level cutoff based on water level in the tank. • Type I water should be produced from mixed bed ion exchange and activated carbon cartridge and final filter. • Type III water : should pass through specific cartridge for removal of trace ionic and organic contaminants. • Cartridge must attach to the water system without treaded fittings, screws, clamps, or locking tabs. • 17watt, low pressure mercury vapor lamp made of ultrapure quartz with dual wavelength (185 and 254nm).The lamp should possess electro polished 316L SS housing and should have 2 years of life. • The ultrapure water system should be able to re-circulate water to maintain high water quality. • Dispensing height should be suitable to any glassware. • Volumetric dispensing from 0.5 L till 10L. • Multi colour monitor displaying: resistivity, level of water in reservoir, volume dispensed and alarms for purification pack replacement or water quality less than set point. • The dispenser with the display can be installed at remote area either on the lab stand, mast or mounted on the wall. • Final Filter: 0.22micron PVDF membranes filter in stack disc configuration, which should take care of bacteria and particulates. • <i>Resistivity meter should be able to display the non- temperature-compensated resistivity.</i> 	One No.

		<ul style="list-style-type: none"> • Built-in Quick Reference Guide and user manual for immediate understanding of the main operations •..... <i>Water purification system should meet internationally-recognized safety norms,</i> •..... Other Optional Filter: <ul style="list-style-type: none"> ✓ Biopak for Pyrogen ✓ Free water LC Pak for LCMS Application ✓ GC Pak for GCMS application • Pure water should possess the following standards: <ul style="list-style-type: none"> ✓ Ionic Rejection: > 95 to 99% ✓ Organics : >99% ✓ Flow Rate (L/hr) : 8 LPH ✓ Bacteria : >99% • UltraPure water should possess the following standards: <ul style="list-style-type: none"> ✓.. Ultrapure Water (Type 1) Flow Rate (L/min) upto 1 (Programmable flow rate) ✓.. Ultrapure Water Resistivity (MΩ·cm at 25°C) : 18.2 ✓.. Microorganisms (cfu/mL) : <0.1 ✓.. Particulates < 0.22 μm (/ mL) : <1 ✓.. Pyrogen Levels (EU/mL) : <0.001 [with UF] ✓.. RNase Level (ng/mL) : <0.01 [with UF] ✓.. DNase Level (pg/μL) : <4 [with UF] ✓.. TOC (ppb) : <5 [with UV] • Accessories: RO Water Plant 	
GPBR-SQL-05	PCR Machine	<ul style="list-style-type: none"> • Universal Block for 96 x 0.2ml PCR Tube, 71 x 0.5 ml PCR Tube, One 8x12 PCR plate • Gradient PCR, should capable of testing 12 different temperatures simultaneously across a gradient range of 1 - 20° C • System should be compatible to attach 2 more Eco machines to run 2 x 96 well 0.2ml tubes (total 192 well) • Steady Slope Gradient Technology should ensure ramp rates identical in both gradient and normal operation • Heating and cooling via peltier technology. Triple Circuit Technology should ensure precise control of temperature • Temperature control range: should be from 4°C to 99°C • Temperature Control Mode should be Fast, Standard and Safe • Lid Temperature range: 37 - 110 °C • Block Temperature Accuracy: ± 0.2°C • Block Homogeneity: 20° C to 72° C: ≤ ±0.3° C, 95° C: ≤ ± 0.4° C • Temperature control speed: approx. 3 °C/s (heating) • Temperature control speed: approx. 2 °C/s (cooling) • Lid descent and closing pressure - Flexlid technology with Thermal sample Protection • Intuitive Graphic programming with larger display • Administrator and user login with or without PIN for enhanced security • Booking schedule should allow the users to reserve the instrument in advance • Preprogrammed template should be available for easy selection from 16 temperature protocols viz. 2 step PCR, 3 Step PCR, Gradient PCR, Long Range PCR, Low volume PCR, RT, RT-PCR, Incubation, Cycle sequencing, Touchdown PCR, Hot Start PCR, Hot Start PCR manual, Large volume PCR, Nested cycles, reduced ramping, simulate PCR • Time or Temperature increment with cycles in PCR program 	Two No.

		<ul style="list-style-type: none"> • Adjustable ramp rate from 0.1°C to 3.0° C to meet critical amplification conditions • Customized programming should allow a maximum of 20 steps and 99 cycles • Auto Restart facility should be available with user defined time interval when power fails and resumes • Instrument status: indication of the step, cycle and remaining runtime during the run • Larger System memory: >100 User folders and >700 programs • Two USB ports: for Protocol transfer, Self-test, USB, printer/mouse • Log book function for error messages and new calibration • E-mail Notification • Power save Standby function • Cooling vents at bottom and rear, weight ~10.5kg • Option to connect up to TWO for ultimate throughput • Optional Self-test dongle to check functionality of all 6 peltier elements • Interface: Ethernet, CAN in, CAN out • Power supply: 230 V, 50-60 Hz • Power consumption: 700 W • Calibration according to NIST (USA), DKD/PTB (Germany) UKAS/NPL (UK), UL/CUL listed • Two year warranty 	
GPBR-SQL-06	Colour Meter	<ul style="list-style-type: none"> • Colour measurement principle :Port up or Port forward dual-beam spectrophotometer • Geometry: Annular 45° illumination and 0° viewing • Spectrophotometer: Sealed optics; 256-element diode array and a high resolution concave holographic grating • Port Diameter/View Diameter: More than 30 mm illuminated/ 24 mm measured • Spectral Range: 400 nm – 700 nm • Spectral Resolution: < 3nm • Effective Bandwidth: < 10 nm equivalent triangular • Reporting Interval: 10 nm • Photometric Range: 0 to150% • Light Source : Pulsed Xenon Lamp • Lamp Life: > 1 million flashes • Standards Conformance: CIE 15:2004, ISO 7724/1, ASTM E-1164, DIN 5033, Teil7 and JIS Z 8722 Condition C • Standards Traceability: Instrument standard assignment in accordance with National Institute of Standards and Technology (NIST) following practices described in CIE Publication 44 and ASTM E259 • Inter-Instrument Agreement: $\Delta E^* < 0.15$ CIE $L^*a^*b^*$ (Avg) on BCRA II Tile Set; $\Delta E^* < 0.25$ CIE $L^*a^*b^*$ (Max) on BCRA II Tile Set • Colorimetric Repeatability (20 Readings) : $\Delta E^* < 0.05$ CIE $L^*a^*b^*$ on WhiteTile • Data Views: Color Data, Color Difference Data, Tristimulus Color Plot, Spectral Data, Spectral Difference Data, Spectral Plot, Spectral Difference Plot • USB Flash Drive Features : Backup of Setups and Data, Setup Transfer to Multiple Units, Data Export toExcel • Other Features: Pass/Fail, Average Multiple Readings, Search for Closest Standard • Illuminants:A, C, D50, D55, D65, D75, F2, F7,F11 • Observers: 2° and10° • Color Scales: CIE $L^*a^*b^*$, Hunter Lab, CIE L^*C^*h, CIE Yxy, CIEXYZ • Color Difference Scales:$\Delta L^*a^*b^*$, ΔLab, ΔL^*C^*H, ΔL^*C^*h, 	One No.

		<p>ΔY_{xy}, ΔXYZ</p> <ul style="list-style-type: none"> • Color Difference Indices: ΔE^*, ΔE, ΔC^*, ΔC and ΔE_{cmc} • Indices and Metrics: E313 Whiteness (C/2° or D65/10°), E313 Tint (C/2° or D65/10°), E313 Yellowness (C/2° or D65/10°), D1925 Yellowness (C/2°), Y Brightness, Z%, 457 nm Brightness, Opacity, Color Strength (Average and Single Wavelength), Gray Change, Gray Stain, Metamerism Index, Shade Number • Storage: As Standard-250 spectral or tristimulus with Pass/Fail tolerances as Working, Physical, Numeric and Hitch As Sample-2000 spectral • Language: English • Weight: 4 to 5 kg • Display: More than 7 cm × 5 cm backlit color LCD • Interface: 3 USB 2.0 ports • Power: 100 to 240 VAC 47 to 63 Hz • Operating Environment: 10° to 40°C (50° to 104° F), 10% to 90% RH, noncondensing • Storage Environment: -20° to 65°C (-5° to 150°F), 10% to 90% RH, non-condensing • Standard Accessories : Calibrated instrument white tile Black glass; Green diagnostic tile; Certificate of traceability; Universal AC adaptor; Computer interface cable; PC utilities disk and Interfacedrivers; User guide 	
GPBR-SQL-07	BOD Incubator	<ul style="list-style-type: none"> • Construction should be double walled construction with backside triple. • Capacity: 400L - 425L • Insulation: 3" Thick PUF Insulation ensures stable temperature & reduced energy consumption • Air Circulation: Motorized Blower at back side of the chamber develops unique air flow system which maximum uniform temperature condition inside the chamber. • Should have unique air flow for quick recovery after door openings. • Blower motor: 1/12 HP, TEFC, F-class insulation, Single phase, 1440 RPM, 230 Volts • Heating System: High quality S.S. Tubular Heaters are used for better heating. • Observation Door: Full view observation acrylic door with gasket to observe sample inside the chamber. • Refrigeration system: By means of CFC Free hermetically sealed Emerson Copland make compressor with R 134 A for better cooling with ECO friendly refrigerant with time delay to safe guard compressor system. • Validation Port: 50 mm validation port hole with Silicon rubber seal to insert sensors for validation. • Lighting: Interior illumination for working area. • In case of Temperature variation, Temperature deviation alarm will active & give audio visual alarm. • Safety Thermostat Cutoff the supply in case temperature goes above 60 deg C & activate safety alarm. • Compressor ON delay timer (2 min.) to safe guard the compressor. • In built over load protector provided for hermetically sealed compressor. • Fiber/PU Wheel with front lockable for easy movement. • MCB for electrical safety • Adjustable tray height arrangements. • Trays Specially designed stainless steel rod trays ensure uniform temperature distribution. • Supply 230V AC, Single Phase, 50Hz • Certification: Should have CE Certification 	One No.

		<ul style="list-style-type: none"> • Inside S.S. 304 mirror finish. Outer Galvanized Iron (GI) sheet with powder coated. • Temperature Range: 50 C to 60 C • Temperature Accuracy: ± 0.5 C • Temperature Uniformity: ± 2 C • Control System: Microprocessor based auto tuned PID controller with CE mark & dual display of set value & process value. • Additional Safety digital temperature controller with accessories 	
GPBR-SQL-08	BioSpectrophotometer	<ul style="list-style-type: none"> • System should have pre-programmed methods for rapid and reliable analysis of Nucleic acids and proteins, OD600, dye methods (parallel measurement of bio molecule and dye label), FOI (frequency of incorporation) calculation. • Should allow measuring and recording of UV/Vis spectral wavelengths from 200 to 830 nm, with smallest increment: of 1 nm • Should be compact & stand-alone system to handle sample volume ranging from 1.5 μL to 4 mL • Low volume measuring surface must be of quartz and must be hydrophobic • Should allow extinction measurement for one or several wavelengths • Recording of wavelength scans should be possible with Integrated data processing • Should have in-built methods with analysis via factor, standard or standard series • Should allow performing Dual-wavelength method with subtraction and division analysis • Should have data evaluation methods for concentration via standard series (Regression: linear, cubical, Quadratic) and (Interpolations: linear and Spline) • Should have freely selectable wavelengths providing maximum flexibility for all current and future applications • Should have SpectraZoom[®] technology to analyze and process curve sections in detail view directly on the instrument display and for peak detection • Should allow direct operation on the device and must not require PC to operate • Should have facility for saving > 1,000 or more measured results in the instrument directly • Should allow user to program and save > 100 or more new methods • Should allow to set temperature between +20°C to 42°C, with smallest increment of 0.1°C • Kinetic method should allow for end point, two-point, linear regression based analysis • Spectral band width should be < 4 nm • Photometric measuring range should be 0 A to 3.0 A at 260 nm • Random error should be ≤ 0.002 if A = 0, ≤ 0.005 (0.5 %) if A = 1 • Systematic error should be $\pm 1\%$ if A = 1 • System should be small, lightweight and should be easy to operate with its integrated 5.7 or more inch color display in combination with the keys of the device • Data transfer of measured data to a PC by connecting the device directly to a PC should be possible without any additional software or should be through USB stick • Light beam height should be 8.5 mm • Cuvette shaft should have dimension of 12.5 mm x 12.5 mm, allow using Quartz/ UV transparent plastic cuvettes 	One No.

		(UV range); Glass / plastic cuvettes (visible range) and micro-volume cuvettes <ul style="list-style-type: none"> • Display should be VGA TFT-5.7 or more" • One-year warranty 																																																	
GPBR-SQL-09	Visi Cooler	Cooler Specifications: <ul style="list-style-type: none"> • Gross Volume (Litres): 1000 (Make: Bluestar/ Celfrost/ Western) • Temperature Range: 2-10°C • Power (w): 470 • Lock: Yes • Defrost: Automatic • No. of Lids / Doors: 2 • No. of shelves: 10 (Flat trays should be provided for storage of plant samples) • Interior Light: Yes / 2LEDs • Wheels / Castors: Yes • No. of Compressors: 1 • Refrigerant: R134a • Servo Voltage stabilizer should be provided along with the Unit. 	Two No.																																																
GPBR-SQL-10	1KVA UPS with SMF Battery	<table border="1"> <tr> <td>Capacity</td> <td>1 KVA</td> </tr> <tr> <td>Technology</td> <td>True Online Double Conversion Technology UPS system with IGBT based Rectifier / Inverter</td> </tr> <tr> <td>Model</td> <td>To be Furnished by the Vendor</td> </tr> <tr> <td colspan="2">Input Parameters:</td> </tr> <tr> <td>Voltage</td> <td>230 VAC, 1 Phase 3 Wire</td> </tr> <tr> <td>Voltage Range</td> <td>160V to 300 VAC also 110V to 300V AC Single Phase based on 60% Load Level</td> </tr> <tr> <td>Frequency</td> <td>50 Hz/ 60Hz +/- 5% Auto Sensing</td> </tr> <tr> <td>Power Factor at rated load</td> <td>>=0.99 at full load</td> </tr> <tr> <td>Current Harmonic Distortion</td> <td>Less than 10%</td> </tr> <tr> <td>OVCD</td> <td>Required (built-in)</td> </tr> <tr> <td>Isolation Transformer</td> <td>Required (built-in)</td> </tr> <tr> <td colspan="2">Output Parameters:</td> </tr> <tr> <td>Voltage</td> <td>220/230/240 VAC +/- 1%, 1 Phase</td> </tr> <tr> <td>Frequency</td> <td>50 Hz +/- 0.25 Hz (in Battery Mode) +/- 6% (in Sync)</td> </tr> <tr> <td>THD v</td> <td>< 2 % for Linear Load ; < 5 % for Non Linear Load</td> </tr> <tr> <td>Overload rating</td> <td>105 % to 110 % for 10 min ; 111 % to 130% for 60 sec ; 150 % for 3 sec</td> </tr> <tr> <td>Output wave form</td> <td>Pure sine wave</td> </tr> <tr> <td>Crest Factor</td> <td>3 : 1</td> </tr> <tr> <td>Load Power Factor</td> <td>0.8 Lag to Unity within KVA/KW</td> </tr> <tr> <td>Overall Efficiency</td> <td>Up To 90%</td> </tr> <tr> <td>Frequency Slew Rate</td> <td>1 Hz / Sec</td> </tr> <tr> <td>Power @0.8 PF</td> <td>800 Watts</td> </tr> <tr> <td colspan="2">Battery Parameters:</td> </tr> <tr> <td>Type</td> <td>Sealed Maintenance Free Batteries (Exide / Amara Raja)</td> </tr> </table>	Capacity	1 KVA	Technology	True Online Double Conversion Technology UPS system with IGBT based Rectifier / Inverter	Model	To be Furnished by the Vendor	Input Parameters:		Voltage	230 VAC, 1 Phase 3 Wire	Voltage Range	160V to 300 VAC also 110V to 300V AC Single Phase based on 60% Load Level	Frequency	50 Hz/ 60Hz +/- 5% Auto Sensing	Power Factor at rated load	>=0.99 at full load	Current Harmonic Distortion	Less than 10%	OVCD	Required (built-in)	Isolation Transformer	Required (built-in)	Output Parameters:		Voltage	220/230/240 VAC +/- 1%, 1 Phase	Frequency	50 Hz +/- 0.25 Hz (in Battery Mode) +/- 6% (in Sync)	THD v	< 2 % for Linear Load ; < 5 % for Non Linear Load	Overload rating	105 % to 110 % for 10 min ; 111 % to 130% for 60 sec ; 150 % for 3 sec	Output wave form	Pure sine wave	Crest Factor	3 : 1	Load Power Factor	0.8 Lag to Unity within KVA/KW	Overall Efficiency	Up To 90%	Frequency Slew Rate	1 Hz / Sec	Power @0.8 PF	800 Watts	Battery Parameters:		Type	Sealed Maintenance Free Batteries (Exide / Amara Raja)	Two No.
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End cell voltage	10.5 V per Battery
DC Voltage	36 VDC
VAH	4320VAH
Backup time	4 Hours (Approx.)
Battery Rack & Connectors	Powder coated battery rack / stand to be provided
Charger	Constant Current & Constant Voltage with Optional Temperature Compensated Battery Charging
Charging Capacity	10 % of the Battery AH Capacity
Other Features:	
LCD Display	Metering : Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Level, Battery Voltage, Battery Level
	Indication : Online, Eco, Battery Mode, Bypass Mode, Over Load, DC Low, Charger Failure, Over Temperature, Short Circuit, Battery Fault
Protection	Input High/Low, Over Load, Short Circuit, Over Temperature, Battery Over Charge, Surge Protection
Audible Alarm	Battery Mode, Low Battery, Fault, Over Load, Bypass Mode
Cold Start	Required
Auto Restart	Required
Intelligent Fan Operation	Required
Generator Compatibility	Required
Connections	Input : Terminal ; Output : 4 Nos 6 A Socket
Communication Port	RS 232, USB - Supports Windows 2000/2003/XP/Vista/2008/7/8, Linux, Unix and MAC
Operating Noise Level	<50dB
Operating Temperature	0 to 40 Deg C
Humidity	upto 95 % RH Non Condensing
Altitude	< 1000 meters
Credential	ISO 9001 2015, ISO 14001 2004, OHSAS 18001
Test Report / Certificate	
Safety and Environment	EN 62040-1, EN 62040-2, IEC 62040-3
Ingress Protection (IP)	IP 20
Certificate 1	BIS : IS 16242 Part 1 : 2014
Certificate 2	CE
Certificate 3	PEP (Product Environmental Profile)
Certificate 4	RoHS
	JIS 8702C for battery

		Manufacturing facility	Manufacture should have manufacturing facility in India and details of manufacturing facility should be provided in detail	
		Service facility	UPS manufactures should have not less than 250 Plus service centers across India.	
		Service Centre	Vendor should have Company Owned Authorized Service Centre in Tirupati	
GPBR-SQL-11	Electrophoresis Units with accessories			1 NO
	<p>Specifications of Required Items:</p> <ul style="list-style-type: none"> • Mini-Plus Submarine Gel Unit(1No), Includes: 10 x 11.5cm Buffer Chamber Assembly, Running Tray, with Silicone Gasket, Safety Lid, 1 mm thick, 16 well combs-2 pcs, High Voltage Leads, Colored Loading Strips • Standard Submarine Gel Unit (1No)15 x 15 cm Includes: Buffer Chamber Assembly, 1 mm thick, 16 well Combs-2 pcs , Safety Lid, Colored Loading Strips, High Voltage Leads, Buffer Recirculation Ports-2 pcs, Running Tray w/Casting Gates • Hoefer Power Supply(1No): 10-300 V, 4-500 mA, 90 W • SUB15-C1-10 Comb, 10 Wells, 1mm thick (2NO) 			
GPBR-SQL-12	<p>Laboratory modification and maintenance requirements</p> <p>Specifications of Required Items:</p> <ul style="list-style-type: none"> • <u>U' SHAPE WALL WORK TABLE (1 No., Model Attached)</u> Dimension: (3000+4154+9478) X 750 X 900mm Granite Top: The table top will be made of 17 (+/- 1) mm finely polished thick black Color Granite with half rounded edges, Bull nose / Chamfer Moulding & groove at the bottom to avoid chemical spillage. Under Bench Modules: Under bench Modules will be made of 20 gauges pre- coated Galvanized Iron Sheet and completely finished with 60 – 70 microns thickness epoxy powder coating. These modules will be provided with top drawer and bottom cupboard with horizontal removable inner partition and with lockable doors and powder coated handles. The under- bench modules will be arranged alternatively. The base of the modules will be provided with skirting panels for aesthetic look. Quantity of Modules: As per drawing. Knee Hole Space: Instrument and sitting area knee space will be provided as per drawing. Hardware Fittings: Drawer Runner:-Godrej / EBCO make, Hinges: - EBCO make Nickel plated concealed clip-on full overlay, Handle:- Modular body color powder coated finish, Lock: - Godrej / EBCO lock with a pair of keys. Colour: Colour combination of IVORY and drawer fronts contrasting ORCHID BLUE / GREEN for aesthetic appeal by powder coating technique. Sink : P.P. Sink(560 × 355) with Three way powder coated Brass tap and waste pipe up to lower portion of the table • <u>WALL WORK TABLES (2 No., Model Attached):</u> Dimension: 1500 × 750 × 900 mm Granite Top: The table top will be made of 17 (+/- 1) mm finely polished thick black Color Granite with half rounded edges, Bull nose / Chamfer Moulding & groove at the bottom to avoid chemical spillage. Under Bench Modules: Under bench Modules will be made of 20 gauges pre- coated Galvanized Iron Sheet and completely finished with 60 – 70 microns thickness epoxy powder coating. These modules will be provided with top drawer and bottom cupboard with horizontal removable inner partition and with lockable doors and powder coated 			

handles. The under- bench modules will be arranged alternatively. The base of the modules will be provided with skirting panels for aesthetic look.

Quantity of Modules: As per drawing

Knee Hole Space: Instrument and sitting area knee space will be provided as per drawing.

Hardware Fittings: Drawer Runner:-Godrej / EBCO make, **Hinges:** - EBCO make Nickel plated concealed clip-on full overlay, **Handle:-** Modular body color powder coated finish, **Lock :-** Godrej / EBCO lock with a pair of keys.

Colour: Colour combination of **IVORY** and drawer fronts contrasting **ORCHID BLUE / GREEN** for aesthetic appeal by powder coating technique.

• **WALL STORAGE CUPBOARDS (8 No., Model Attached):**

Dimension: 900×300×600mm

Material of Construction: Made of 20 Gauge G.I. Electro-Galvanized sheets finished in powder coating.

Storage Chamber will have 1 horizontal partition with 2 Glass shutters with M.S. Frame.

The Glass Shutters will be provided with Modular body color powder coated finish handles with branded locking arrangements.

Colour: Ivory/Blue

• **LAB STOOLS (12 No.)**

Material of Construction: Seat made of high quality PU with additional thick soft cushion. Easy Gas lifts single liver seat adjustment. Five point PU Castor wheels mounted on steel pipe base with electro plating finish. Providing Ring Foot Rest.

• **Executive Chair (1No.):**

Revolving type, High Back, An Ergonomic Companion (APEX Apollo/Godrej)

• **Air Conditioner (1 No.):**

Branded (Hitachi/Haier/Voltas/Blue Star) Air Conditioner of capacity 2 ton, Non inverter model

• **Batteries (12 No.):** Amaron, 65AH SMF Battery

Sd/-L.Prasanthi
Associate Director of Research
Regional Agricultural Research Station
TIRUPATI

ANNEXURE-II

Declaration

1. I/We have not been black listed in any department due to any reasons during last 3 years
2. I/We have not been demoted to lower category in any department for not filing the tenders after buying the tender schedules in a whole year and their registration had not been cancelled for a similar default in two consecutive years.
3. I/We will agree to get disqualified my(our)selves for any wrong declaration in respect of the above and get my/our tender summarily rejected.
4. The soft copies uploaded by them are genuine and not forged. Any incorrectness / deviation noticed can be viewed seriously and apart from cancelling the work duly forfeiting the bid security, criminal action can be initiated including suspension of business and/ or black listing.
5. I/We submitting a demand draft no. _____ dated _____ issued by _____ for Rs. _____ towards the EMD.

Signature of Tenderer
Date
Address

ANNEXURE-III

Check List

Sl.No	Code No.	Name of the Document
1.	E-I	Declaration Form (Annexure-II)
2.	E- II	Manufacturing License / Authorization letter from the Manufacturing firm
3.	E- III	Earnest Money Deposit
4.	E- IV	VAT/Sales Tax/GST Clearance Certificate or payment particulars for preceding two years along with supporting Documents. (2019-20 & 2020-21)
5.	E- V	Annual Turnover Assessment order for the preceding two years 2019-20 & 2020-21 certified by Commercial Tax Officer / Chartered Account
6.	E- VI	Copies of balance Sheet, Profit and loss Account for last two years i.e. 2019-20 & 2020-21 duly certified by the Auditor
7.	E – VII	Copy of GST Registration Certificate
8.	E-VIII	Users list for the item/ equipment during past 4 years
9.	E- IX	BIS / ISO/ CE issued by the Competent Authority
10.	E-X	APSSIDC/NSIDC/MSME Certificate, if applicable
11.	E- XI	Government Ownership Certificate, If applicable
12.	E- XII	List of service centers with contact details for each of the equipment

ANNEXURE – IV

FINANCIAL BID

I/We quote the rates FOR, REGIONAL AGRICULTURAL RESEARCH STATION, TIRUPATI **Inclusive of all taxes, duties, transportation, insurance, installation etc.,** as below.

Sl. No.	Name of the item	No. of Units	Price per Unit (Rs.)	Total amount (Rs.)

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

Yours faithfully,

(Signature and stamp of the Tenderer state legal status whether prop. Partner, Registered firm, Company etc)

Encl: Information brochure enclosed

EMD – DD No. Dt. For Rs. _____

Note: *1. Attach additional sheets giving full particulars such as name and address of the proprietor or list of partners and their addresses or particulars of registered firm or of the company and the specifications of the items furnished.*

1. Rates quoted should be marked clearly with main price and taken separately. Total price after taking all the actuals will be taken as financial quote for comparison.