



Rani Lakshmi Bai Central Agricultural University

Gwalior Road, Near Pahuj Dam, Jhansi (U.P.) – 284003

(Established under the Rani Lakshmi Bai Central Agricultural University Act, 2014)

☎ : 0510-2730555 Web page: <http://www.rlbcau.ac.in>

F. No: RLBCAU/TDR/20-8

Dated: 11.01.2021

NOTICE INVITING OPEN TENDER THROUGH E-PROCUREMENT

OPEN TENDER FOR PURCHASE OF LABORATORY EQUIPMENTS UNDER NAHEP-IG PROJECT AT RANI LAKSHMI BAI CENTRAL AGRICULTURAL UNIVERSITY, NEAR PAHUJ DAM, GWALIOR ROAD, JHANSI - 284 003 (U.P.)

The Rani Lakshmi Bai Central Agricultural University, Jhansi invites online Open tender enquiry in Two Bids Systems through e-tendering from reputed firms with adequate experience for supply of farm implements. The details of the specifications, schedule of requirement, terms & conditions are given below:

DESCRIPTION OF WORK	Purchase of Laboratory Equipments under NAHEP-IG project at Rani Lakshmi Bai Central Agricultural University, Near Pahuj Dam, Gwalior Road, Jhansi.
TYPE OF TENDER	Two bid system (Technical & Financial)
<u>DATE AND TIME FOR PUBLISHING</u>	11.01.2021 at 06.00 PM
<u>DOCUMENT DOWNLOAD START DATE & TIME</u>	11.01.2021 at 06.00 PM
<u>BID SUBMISSION START DATE AND TIME</u>	11.01.2021 at 06.00 PM
<u>SEEK CLARIFICATION START DATE & TIME</u>	11.01.2021 at 06.00 PM
<u>SEEK CLARIFICATION END DATE & TIME</u>	30.01.2021 at 06.00 PM
<u>BID SUBMISSION END DATE AND TIME</u>	01.02.2021 at 06.55 PM
<u>DATE AND TIME OF OPENING OF TENDER (TECHNICAL BID)</u>	03.02.2021 at 10.00 AM
DATE AND TIME OF OPENING OF TENDER (FINANCIAL BID)	Intimation will be sent automatically by CPP Portal after evaluation of Technical BID on registered e-mail / phone no. of the firm with CPP Portal
BID VALIDITY	120 days
EMD	As per the order of Ministry of Finance Department of Expenditure Procurement Policy Division, Government of India No. F.9/4/2020-PPD Dated the 12th November 2020, Bid Security (also known as Earnest Money Deposit) Declaration should be kept in the Bid Documents. (Annexure-VI)
Submission of BID	Online bid (Technical & Financial) uploaded on CPP Portal (www.eprocure.gov.in/eprocure/app). Note: As Institute is in remote locality and many courier services are not given their services daily for delivering the dak from our previous experience, due to which EMD are not reached in time at Rani Lakshmi Bai Central Agricultural University, Jhansi.
Details of tender	Tender Documents and Notice is also available on RLBCAU Website http://www.rlbcau.ac.in and

Important Notes :

1. **Note:** All the Documents have to be provided as per the sequence given in Annexure-III
2. Tender Documents can be downloaded from Rani Lakshmi Bai Central Agricultural University, Jhansi website <http://www.rlbcu.ac.in> OR from Central Public Procurement Portal www.eprocure.gov.in Bidders should enrol / register in the e-procurement module of Central Public Procurement Portal through the website: www.eprocure.gov.in. Bidders should also possess a valid DSC for online submission of bids.
3. Bids received on e-tendering portal only will be considered. Bids in any other form sent through sealed cover/email/post/fax etc. will be rejected.
4. Rani Lakshmi Bai Central Agricultural University, Jhansi reserves the right to accept/reject any/all tenders in part /full at any stage without assigning any reason thereof.
5. Rani Lakshmi Bai Central Agricultural University, Jhansi will not be responsible for any delay in enrolment/registration as bidder or submitting/uploading the offer on e-tender portal. Hence, bidders are advised to register in e-tendering website www.eprocure.gov.in and enrol their Digital Signature Certificate and upload their quotation well in advance.
6. **Service tax / GST or any other tax, if applicable, will be liable to supplier / firm**
7. Any changes/corrigendum/ extension of opening date in respect of this tender shall be issued through websites only and no press notification will be issued in this regard. Bidders are therefore requested to regularly visit our website & <https://eprocure.gov.in/eprocure/app> for updates.
8. This tender document contains Annexure I to VI which is part of the tender document.
9. The proposal should be strictly in accordance with the specification mentioned as under and terms & conditions framed by the office.
10. The Tender should consist of two Bids–The Technical bid (Cover-I) and the financial bid (Cover -II)
11. The Financial bid will be opened only of those firms whose technical bid is found in consonance with tender document along with terms & conditions.
12. Tendering firms fulfilling the requirements stipulated in this tender document are requested to quote their competitive lowest prices as per the specifications, quality criteria & requirements.
13. Intending tenderers should have valid GST Registration.
14. Tender to remain open for acceptance up to 120 days from the date of opening.
15. In case, any Holiday is declared by the Government on the day of opening, the tenders will be opened on the next working day at the same time.

Terms and Conditions of tender document:

1. **Bid Security Declaration:** As per the order of Ministry of Finance Department of Expenditure Procurement Policy Division, Government of India **No. F.9/4/2020-PPD Dated the 12th November 2020, Bid Security** (also known as Earnest Money Deposit) **Declaration** should be kept in the **Bid Documents**. These instructions will be applicable for all kinds of procurements viz. Goods, Consultancy, Works, non-consulting Services etc and are issued under Rule 6(1) of the GFRs 2017.
2. As per Rule 170 of General Financial Rules (GFRs) 2017, Micro and Small Enterprises (MSEs) and the firms registered with concerned Ministries/ Departments are exempted from submission of Bid Security. Further, in lieu of Bid Security, Ministries/ Departments may ask bidders to sign "Bid Security Declaration" accepting that if they withdraw or modify their bids during period of validity etc., they will be suspended for the time specified in the tender documents. Similar provisions also exist in the Manuals for Procurement of Works 2019 and Manual for Procurement of Consultancy & other Services 2017.
3. No interest on Security Deposit and earnest money shall be paid by the Rani Lakshmi Bai Central Agricultural University, Jhansi to the bidder/tenderee/agency.
4. **The consolidated amount to be charged has to be indicated in Indian Rupees in the Financial bid in .XLS format in BOQ of e-tendering. The conditional offer(s) shall, in no case, be accepted. The Institute shall not bear any extra charge on any account whatsoever.**
5. Service tax / GST or any other tax, if applicable, will be liable to supplier / firm
6. **GST@5% as per GST exemption Notification No. 47/2017-** Integrated Tax (Rate) dated 14th November 2017, A certificate will be issued from the Registrar of the University, certifying that the ordered goods are Scientific and technical instruments and required for research purposes only.
7. **GST CONCESSIONAL CERTIFICATE**, Under Notification No. "47/2017 and 45/2017-Integrated Tax (Rate)", dated 14.11.2017, of Ministry of Finance, Govt. of India will be issued from the Registrar of the University, certifying that the ordered goods are Scientific and technical instruments and required for research purposes only.
8. **CENTRAL CUSTOM DUTY EXEMPTION CERTIFICATE**, Under Notification No. 51/96-CUSTOMS dated 23 July, 1996, will be issued from the Registrar of the University, certifying that the ordered goods are Scientific and technical instruments and required for research purposes only.
9. The Institute is not bound to accept the lowest or any other tenders and also reserve the right to accept the tenders in whole or in part.
10. If two or more firms or bidders have quoted the lowest price (L1), then in this case preference will be given to the company that fulfills the following order of merit. 1. MSME Certificate, 2. Experience to supply Agricultural Institutions, 3. Firm / bidder getting minimum orders.
11. The rates submitted by the tenderer shall not be allowed to withdraw. Non-accepting of supply order will be treated as failure on the part of tenderer & the Earnest Money/ Security Deposit/ Performance Security is liable to be forfeited.
12. Intending tenderers should have valid registration required for the above mentioned tender.
13. No advance or part payment will be made. Payment shall be made electronically only within a reasonable period after completion of the supply as per tender terms and conditions and after satisfactory verification of the installation by the indenter / concerned person/officer. Bank Account details for making e-payment must be provided along with the Bill.
14. The financial bid of only technically qualified firms will be opened.
15. The firm is being permitted to give tenders in consideration of the stipulations on the his part that after submitting his tenders, he will not resile from his offer or modify the terms and conditions thereof. If the tenderer fail to observe and comply with the foregoing stipulation the EMD will be forfeited by the RLBCAU. In the event of the offer made by the tenderer not being accepted, the amount of earnest money deposited by the tenderer will be refunded to him, in the manner prescribed by RLBCAU.
16. **Rates are invited on FOR / FOB basis.**
17. In import case(s) prices to be quoted on FOB only.
18. Agency commission must be clearly mentioned in the submission in respect of import consignment(s).
19. The unit conversion value (on date) of the foreign currency quoted should be mentioned.

20. In case of Letter of Credit (irrevocable) in favour of the principals, the supply / delivery period shall be as per the standard norms and for any kind of amendment(s) on the request of the Indian agent in the Established Letter of Credit the additional bank charges shall be deducted from the deposit of the authorized Indian agent / agency concerned.
21. Payment terms in respect of the bank charges (in and outside India) must be mentioned clearly.
22. Willingness of post sales services & post warranty services must be mentioned.
23. AMC during post warranty period must be undertaken at reasonable rate & must be mentioned in the tender separately.
24. Proper insurance of the consignment must be arranged by the supplier and it will be paid in INR after receiving the goods at destination of the consignee.
25. The supplier(s) / agencies must provide standard warranty / guaranty of the stores supplied and will be responsible for timely installation / free training wherever required, failing which this Institute will be free to avail the facilities from other sources at the cost of the supplier / agency concerned.
26. The Vice Chancellor, Rani Lakshmi Bai Central Agricultural University, Jhansi, reserves the right to reject any or all quotations in whole or in part without assigning any reason thereof at any stage. The decision of The Vice Chancellor, Rani Lakshmi Bai Central Agricultural University, Jhansi shall be final and binding on the Contractor/Agency/firm. The Vice Chancellor, Rani Lakshmi Bai Central Agricultural University, Jhansi also reserves the right to reduce or terminate the period of contract or to extend its duration in the interest of the Rani Lakshmi Bai Central Agricultural University, Jhansi for any justifiable reasons, not mandatory to be communicating to the tenderer.
27. Decision of Vice Chancellor, Rani Lakshmi Bai Central Agricultural University, Jhansi shall be final for any aspect of the contract and binding to all parties. That if any dispute and difference arises between the firm / supplier and Rani Lakshmi Bai Central Agricultural University, Jhansi the matter will be referred to the Sole arbitrator who will be amongst the OIC (Store) / other concerned officer of Rani Lakshmi Bai Central Agricultural University, Jhansi, nominated by The Vice Chancellor Rani Lakshmi Bai Central Agricultural University, Jhansi. The decision of the sole Arbitrator so appointed shall be final and binding on the parties. Arbitration proceedings shall be governed by the Arbitration & Constitution Act, 1996.
28. All disputes are subject to Jhansi jurisdiction only.

INSTRUCTION FOR ONLINE BIDS SUBMISSION :

As per the directives of Department of Expenditure, this tender document has been published on the Central Public Procurement Portal (URL: <http://eprocure.gov.in>). The bidders are required to submit soft copies of their bids electronically on the CPP Portal, Using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registration on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal. More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

REGISTRATION :

- 1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link "Click here to Enroll". Enrolment on the CPP Portal is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique user name and assign a password for their accounts.
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP portal.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate Authority recognized by CCA India (e.g. Sify/TCS/nCode/eMudhra etc.), with their profile.
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse.
- 6) Bidder then logs in to the site through the secured log-in by entering their User ID/ password and the password of the DSC/e-Token.

SEARCHING FOR TENDER DOCUMENTS :

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, organization name, location, date etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as organization name, form of contract, location, date, other keywords etc. to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender Schedules. These tenders can be moved to the respective My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS/email in case there is any corrigendum issued to the tender document.
- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification/help from the Helpdesk.

PREPARATION OF BIDS :

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2) **Note:** All the Documents have to be provided as per the sequence given in Annexure-III
- 3) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents including the name and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- 4) Bidders, in advance, should get ready the bid documents to be submitted as indicated in the tender document/ schedule and generally, they can be in PDF / XLS / RAR / DWF forms. Bid documents may be scanned with 100 dpi with black and white option.
- 5) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN Card Copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "MySpace" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again. This will lead to a reduction in the time required for bid submission process.

SUBMISSION OF BIDS :

- 1) Bidder should log into the site well in advance for bid submission so that he/she upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidders has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder has to select the payment option as "offline" to pay the EMD as applicable and enter details of the instrument.
- 4) Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be sent by post/ given in person to the Registrar Rani Lakshmi Bai Central Agricultural University, Jhansi latest by the last date & time of bid submission. Failure to deposit the earnest money in office up to due date and time through offline mode will lead to rejection of bid. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- 5) A standard BOQ format has been provided with the tender document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. Bidders are required to download to BOQ file, open it and complete the white coloured (unprotected) Cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidders should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.
- 6) The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 7) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done.
- 8) The uploaded tender documents become readable only after the tender opening by the authorized bid openers. Page 7 of 10
- 9) Upon the successful and timely submission of bids, the portal will give a successful bid submission message and a bid summary will be displayed with the bid number and the date & time of submission of the bid with all other relevant details.
- 10) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

ASSISTANCE TO BIDDERS:

- 1) Any queries relating to the tender document and terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- 2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is 18030702232.

Purchase of Laboratory Equipments under NAHEP-IG project**Technical Bid Cover-I**

Details of Online Bid Submission: Bids (complete in all respect) must be uploaded online as explained below. **Note: All the Documents have to be provided as per the sequence given below.**

COVER- I Technical bid (Following documents to be provided as PDF file)		
S.N.	Content	File Type
1.	Please clearly indicate the items you wish to supply with all the terms and conditions mentioned in the tender document. (Declaration on Bidders letter Head with signature & seal)	PDF
2.	Name and Address of the firm, Telephone No, E-mail Id, Fax No (All the above mentioned details may be attached in .PDF file in firm letter head with signature & seal)	PDF
3.	Scan copy of constitution of the Firm/ Agency (Attached copy) Indian Companies Act, 1956 Indian Partnership Act, 1932 Please give names of partners) Any other Act, if not, the owners	PDF
4.	Scan copy of Partnership firms whether registered under the Indian Partnership Act, 1932, please state further whether by the partnership agreement to arbitration has been conferred on the partner who has signed the Tender.	PDF
5.	Scan copy of Registration certificate of the firm issue by the Govt. of India/State Govt	PDF
6.	Scan copy of ITR, PAN Card (Individual/ Partnership Firm / Company) for last 2 years.	PDF
7.	Details of experience of the firm in the similar work of Central Govt. Establishment / State Govt. / Corporations / Voluntary Organisations. Provide the details in tabular form.	PDF
8.	Scan copy of GST Registration certificate issued by Govt. etc.	PDF
9.	Scan copy of Name of the Representative to be visiting Rani Lakshmi Bai Central Agricultural University, Jhansi, regarding the contract.	PDF
10.	Scan copy of complete bank details of bidder for e-payment and Balance Sheet of the firm for last year	PDF
11.	Scan copy of tender document duly signed and stamped	PDF
12.	Scan copy of registration of firm under commercial category	PDF
Cover-II Financial Bid (Following document to be provided as .XLS file)		
1.	Price bid (BOQ) to be filled in .XLS format strictly as per proforma given	.XLS

All the documents and price bid (BOQ) has to be digitally signed by the bidder.

Note: All the Documents have to be provided as per the sequence given in Annexure-III

Detail Technical Specifications for the Purchase of laboratory equipments
Under NAHEP-IG Project at RLBCAU Jhansi

Sl. No.	Item Description	Quantity
1	RATE In Figures To be entered by the Bidder (Inclusive All taxes) (Note: Service tax / GST or any other tax, if applicable, will be liable to supplier / firm)	
1.01	Automatic Nitrogen analyzer (Automatic Kjeldahl Unit with Accessories) Specifications required: <ol style="list-style-type: none"> 1. Easy to use automatic dilution, alkali addition, distillation and tube emptying 2. Fully automatic dilution, reagent handling, distillation, titration, calculation and reporting. 3. Variable output steam generator broadens application area to other volatile components. 4. Alkali resistant Polypropylene Plastic Splash head for long life time. 5. Safe distilling of tubes with acid/salt cake contents through steam addition without any manual intervention. 6. Internationally approved (AOAC, EPA, DIN, ISO etc.) Colorimetric titration method inbuilt in the system. 7. Automatic cut-off thermostat for high distillate temperature, which may have been caused due to absence of or reduced condenser water flow. 8. Self adjusting cooling water control which will save water and reduce costs 9. Built-in safety systems for user protection 10. Possibility to pre-program alkali addition and distillation time supports the production of accurate results, independent of operator. 11. The Distillation unit should be equipped with sensors for safety door, tube platform, and distillate temperature as well as level and overpressure sensors for the variable output steam generator. Automatic, interlocked and removable safety door. 12. Accurate dispensing of reagents through positive displacement pump that uses a Bellows device to pump fluid through the piping system 13. Compatible to optional 20/60 place Auto sampler to provide the benefit of unattended automatic analysis 14. Distillation with result Time: 220 second or less at 30 mg N and 400 Seconds or less at 200 mg N 15. Reproducibility: Approx. 1% relative standard deviation after including the Digestion Step. 16. Recovery: > 99.5% at nitrogen levels between 1-200 mg N 17. Reagent pump volumes: 0-150 ml 18. Delay: 0-1800 seconds 19. Steam addition for equilibrium : 0-15 seconds 20. There should be 8 Place digestion system with built-in Electronic Temperature Control 100 440°C & Digital display 21. Temperature setting repeatability: 1 °C 22. Overheat protection Inbuilt in digestion unit. 23. Time setting possibility per step to range from 1 minute to 20 hours 24. Provision for measurement of actual temperature using external thermometer 25. Exhaust system for handling tubes along with water aspirator, tube rack, heat shields & Retainer plate. 26. Power consumption 1100 W or less. 27. Audible ready or cycle over alerts should advise the user when the digestion application is completed. Audible "alarm" alerts advice the user when errors/interruptions occur within the running application program. 28. A compact bench top scrubber Unit for neutralizing acid vapors. 29. The equipment should be provided with all necessary accessories and spare parts to run without hindrance. 30. 3 year comprehensive warranty for the complete instrument installed. 31. To be provided along with suitable branded stabilizer (90-280V). 32. Should operate under tropical Indian room conditions. 33. The system should be suited to Indian system of electrical inputs (230V/ 50Hz). 	1.00

	<p>34. To be supplied with appropriate branded stabilizer (90-280 V) with warranty.</p> <p>35. The bidder should quote for only those equipments for which hardware, software and spare parts support will be available in next minimum 7 years.</p> <p>36. There should be minimum 5 installations of the instrument in Indian Public Sector or CGIAR research institutes. The list should be provided. For the installation of the instrument by the same manufacturer at the nearest location of this institute (including the institute), user's satisfactory certificate for two years performance must be provided for the latest installation.</p> <p>37. It should comply with international safety and quality standards (ISO and CE).</p> <p>38. Warranty: 3 years</p>	
1.02	<p>Handheld leaf area meter Specifications required: Measuring Thickness: 1.4 cm maximum, Measuring Width: 15cm maximum, Measuring Length: 300cm maximum, Resolution: 0.01 cm², Accuracy: ±1% for samples >10 cm², Interface: USB 2.0, Scanner: 670nm, Dimensions: 35.5L x 4.5W x5H cm, Display: Transflective graphic, Scanning Speed: 200mm/second, Battery: 7.2 volt rechargeable NiMH, Battery Capacity: Over 250 scans per charge, Operating Temperature: 0-50°C, Data Storage: 16 GB SD card, wireless capabilities</p>	1.00
1.03	<p>Leaf Area Index (Plant Canopy Analyzer) Specifications required</p> <ol style="list-style-type: none"> 1. Lens: Self-leveling hemispherical lens 2. Image Resolution: up to 8 megapixels 3. Interface: USB and Wi-fi 4. Measuring Time:< 1 second 5. Fish-eye Lens Angle:150° 6. Operating Temperature: 5 to 50° C 7. Camera Sensor:5 cm x 5 cm 8. Total Length:84 cm 9. Imaging Probe and Arm Weight:1.5 kg 10. PAR (Range / Accuracy): 0-2500 µmol m2s / 5 µmol m2s 	1.00
1.04	<p>SPAD meter Specifications required</p> <ol style="list-style-type: none"> 1. Measurement subject: Crop leaves 2. Measurement method: Optical density difference at 2 wavelengths 3. Measurement area: 2 mm × 3 mm 4. Subject thickness: 1.2 mm maximum 5. Subject insertion depth:12 mm (with stopper having position adjustable from 0 to 6 mm) 6. Light source: 2 LED elements 7. Receptor: 1 SPD (silicon photodiode) 8. Display: LCD panel showing 4-digit measurement value (values shown to first decimal place) and 2-digit number of measurements; Trend graph of values in memory can also be shown. 9. Display range: -9.9 to 199.9 SPAD units 10. Memory function: Memory capacity for up to 30 values; Calculation/display of average of data in memory also possible 11. Power source: Li-ion batteries 12. Battery life: More than 20,000 measurements (when using new alkaline batteries under Konica Minolta test conditions) 13. Minimum interval between measurements: Approx. 2 seconds 14. Accuracy: Within ±1.0 SPAD units (for SPAD value between 0.0 and 50.0 under normal temperature/humidity) added to display when measurement exceeds 50.0 SPAD units 15. Repeatability: Within ±0.3 16. SPAD units: For SPAD value between 0.0 and 50.0 (with no change in sample position) 17. Reproducibility: Within ±0.5 SPAD units 18. Temperature drift: Within ±0.04 SPAD units/°C 19. Operating temperature/humidity range: -0 to 50°C; Relative humidity of 85% or less (at 35°C) with no condensation 20. Storage temperature/humidity range: -20 to 55°C; Relative humidity of 85% or less (at 35°C) with no condensation 	1.00

	<p>21. Repeatability: Within ± 0.3</p> <p>22. SPAD units: For SPAD value between 0.0 and 50.0 (with no change in sample position)</p> <p>23. Other: Warning buzzer; User compensation factor</p> <p>Standard accessories: Depth stop; Strap; 2 AA-size alkaline batteries; Soft case; Reading checker</p>													
1.05	<p>Automatic Soxhlet extractor Specifications required</p> <p>1. GENERAL FEATURES</p> <p>a) Construction material: Epoxy painted stainless steel structure</p> <p>b) Number of samples: 6 positions</p> <p>c) 2 Displays: working temperature / settable parameters</p> <p>d) Dimensions (WxHxD): 700x620x390 mm (27.6x24.4x15.4 in)</p> <p>e) Power: 950 W</p> <p>2. PERFORMANCE</p> <p>a) Reproducibility (RSD): $\leq 1\%$</p> <p>b) Solvent recovery: from 50 to 75%</p> <p>c) Max volume extraction cup: 150 ml</p> <p>d) Number of programs: 29</p> <p>e) Working temperature: from 100 to 260 °C</p> <p>3. CONSUMPTION</p> <p>a) Cooling water: 2 l/min</p> <p>b) Sample quantity: from 0,5 to 15 g (generally 2-3 g)</p> <p>c) Solvent volume: from 30 to 100 ml</p> <p>4. SETTABLE PROGRAMS AND VALUES</p> <p>a) Immersion time: from 0 to 999 minutes</p> <p>b) Washing time: from 0 to 999 minutes</p> <p>c) Recovery time: from 0 to 999 minutes</p>	1.00												
1.06	<p>Seed counter Specifications required</p> <p>a) To be able to determine precise count for the thousand grain weight (TGW) of small seeds</p> <p>b) Should be able to count Mustard/Rapeseed, wheat, rice, maize, board beans, peas etc with precision of 0.3% or better</p> <p>c) Counting range: 1 to 99,999 grains</p> <p>d) To have high-resolution laser light barriers,</p> <p>e) To have Illuminated graphic dot matrix display</p> <p>f) Should have RS 232 interface for complete external control, through PC</p> <p>g) Should have one feed container for small seeds with minimum capacity of 30000 for small seeds like Mustard/Rape</p> <p>h) Should have continuous compressed air for cleaning the light barriers</p> <p>i) Should be Windows 8 compatible Feed container recognition for up to seven different container types with stored parameters</p> <p>j) To be able to read preset counting quantity</p> <p>k) To be able to set grain size</p> <p>l) Should have option to connect to filling station for seed bags</p>	1.00												
1.07	<p>Micro-irrigation system A. Drip Irrigation System</p> <p>Area: 2000 sq. m., Lateral x Inline Dripper spacing = 10 x 0.4 m, Plot size may be taken tentatively as 60 m x 35 m (however, in field dimension of plots may vary) and distance of initial point of the plot from the source of water can be taken as 75 m. All the items must be as per BIS Standard.</p> <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Item</th> <th>Specification</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Main pipe</td> <td>PVC pipes 63 mm, class II, 4 kg/cm², installation in the field 50 cm deep</td> </tr> <tr> <td>2.</td> <td>Sub main pipes</td> <td>PVC pipes 50 mm, class II, 4 kg/cm², installation in the field 50 cm deep</td> </tr> <tr> <td>3.</td> <td>Lateral</td> <td>16 mm, class II, 2.5 kg/cm² with inline emitter 2 l ph</td> </tr> </tbody> </table>	Sl. No.	Item	Specification	1.	Main pipe	PVC pipes 63 mm, class II, 4 kg/cm ² , installation in the field 50 cm deep	2.	Sub main pipes	PVC pipes 50 mm, class II, 4 kg/cm ² , installation in the field 50 cm deep	3.	Lateral	16 mm, class II, 2.5 kg/cm ² with inline emitter 2 l ph	1.00
Sl. No.	Item	Specification												
1.	Main pipe	PVC pipes 63 mm, class II, 4 kg/cm ² , installation in the field 50 cm deep												
2.	Sub main pipes	PVC pipes 50 mm, class II, 4 kg/cm ² , installation in the field 50 cm deep												
3.	Lateral	16 mm, class II, 2.5 kg/cm ² with inline emitter 2 l ph												

4.	Screen Filter	10 m ³ /hr
5.	Sand filter	With back flush valve 10 m ³ /hr
6.	Venturi and manifold	3/4 inch
7.	Pressure gauge	Can measure up to 3 kg/cm ²
8.	Fittings & accessories	Control valve, Flush valve, Air release valve, Non return valve, By pass assembly, Socket, reducer, elbow, MTA/FTA, End stop and all other essential/standard accessories as per requirement
9.	Installation in the field	Proper installation of the drip irrigation system in the field

B. Mini sprinkler irrigation system

Area: 2000 sq. m., Lateral x Nozzle of mini sprinkler = 10 x 10 m, Plot size may be taken tentatively as 60m x 35m (however, in field dimension of plots may vary). Distance of initial point of the plot from the source of water can be taken as 75m. All the items must be as per BIS Standard.

S. No.	Item	Specification
1.	Main pipe	PVC pipes 63 mm, class II, 4 kg/cm ² , installation in the field 50 cm deep
2.	Sub main pipes	PVC pipes 50 mm, class II, 4 kg/cm ² , installation in the field 50 cm deep
3.	Lateral	LLDPE, 25 mm, class II, 2.5 kg/cm ² , mini sprinkler nozzle, stake height 1.2 m, Stake diameter 8 mm
4.	Screen Filter	30 m ³ /hr,
5.	Venturi and manifold	2 inch
6.	Pressure gauge	Can measure up to 4 kg/cm ²
7.	Fittings & accessories	Control valve, Flush valve, Air release valve, Non return valve, By pass assembly, Socket, reducer, elbow, MTA/FTA, End stop and all other essential/standard accessories as per requirement
8.	Installation in the field	Proper installation of the mini sprinkler irrigation system in the field

C. Micro sprinkler irrigation system

Area: 1200 sq. m. (size 60x20m), Radius of through of micro sprinkler = 0.75 m, Lateral x Nozzle of micro sprinkler = 1.5x1.5m, Distance of initial point of the plot from the source of water can be taken as 25m. All the items must be as per BIS Standard.

S. No.	Item	Specification
1.	Main pipe	PVC pipes 63 mm, class II, 4 kg/cm ² , installation in the field 50 cm deep
2.	Sub main pipes	PVC pipes 50 mm, class II, 4 kg/cm ² , installation in the field 50 cm deep
3.	Lateral	LLDPE, 16 mm, class II, 4 kg/cm ² , micro sprinkler nozzle, stake height 0.4-0.6,
4.	Screen Filter	10 m ³ /hr,
5.	Venturi and manifold	3/4 inch
6.	Pressure gauge	Can measure up to 3 kg/cm ²
7.	Fittings & accessories	Control valve, Flush valve, Air release valve, Non return valve, By pass assembly, Socket, reducer, elbow, MTA/FTA, End stop and all other essential/standard accessories as per requirement

8.	Installation in the field	Proper installation of the micro sprinkler irrigation system in the field
<p>D. Pop up system in lawn Area of grass lawn: 2000 sq. m., Distance of initial point of the lawn from the source of water can be taken as 25m. All the items must be as per BIS Standard.</p>		
S. No.	Item	Specification
1.	Main pipe	PVC pipes 75 mm, class II, 6 kg/cm ² , installation in the field 50 cm deep
2.	Sub main pipes	PVC pipes 63 mm, class II, 6 kg/cm ² , installation in the field 50 cm deep
	Sub main pipes	PVC pipes 50 mm, class II, 6 kg/cm ² , installation in the field 50 cm deep
3.	Pop up sprinkler head	Full circle gear driven pop up sprinkler of discharge 0.23 to 3.41m ³ /hr at 2-4 kg/cm ² pressure having radius of through 8 to 15m with service saddle of required size with flexible joint assembly
4.	Pop up sprinkler	Part circle gear driven pop up sprinkler of discharge 1 to 2 m ³ /hr at 2-4 kg/cm ² pressure having radius of through 10 to 14 m with service saddle of required size with flexible joint assembly
5.	Screen Filter assembly	25 m ³ /hr with GI header assembly
6.	Pressure gauge	Can measure up to 5 kg/cm ²
7.	Fittings & accessories	Control valve, Flush valve, Air release valve, Non return valve, By pass assembly, Socket, reducer, elbow, MTA/FTA, End stop and all other essential/standard accessories as per requirement
8.	Installation in the field	Proper installation of the pop up sprinkler irrigation system in the field

Note:

1. Rates are invited on FOR / FOB basis.
2. Prices should be as per the Technical Specifications provided.
3. Earnest Money Deposit (EMD amounting to, in the form of Demand Draft / Fixed Deposit Receipt / Banker's Cheque or Bank Guarantee from any of the commercial banks in an acceptable form in favour of "RLBCAU, Jhansi" payable at SBI, Karari Branch, Jhansi (OR Online payment in University SBI Account No. 35125027262, IFSC Code: SBIN0007477, MICR Code: 284002013) must reach to the Registrar, RLBCAU, Jhansi before the bid submission end date and time
4. The successful bidder have to execute an agreement on the Non-Judicial Stamp-Paper of Rs. 100/- only and deposit the Performance Security of 10% of the total estimated cost in the form of Demand Draft / Fixed Deposit Receipt / Banker's Cheque or Bank Guarantee from any of the commercial banks in an acceptable form in favour of "RLBCAU, Jhansi" payable at SBI, Karari Branch, Jhansi (OR Online payment in University SBI Account No. 35125027262, IFSC Code: SBIN0007477, MICR Code: 284002013) which is refundable after satisfactory execution of the contract. No interest shall be paid on EMD / Performance Security deposit.
5. Late delayed EMD should not be considered. This Institute will not be responsible for any kind of postal delay.
6. In case the fixed date happen to be a closed day / holiday, the next working day will be considered as the last date for the purpose.
7. All Taxes including GST if any, applicable should be mentioned clearly.
8. The firm should install equipment onsite with demonstration after supplying.
9. This Institute's jurisdiction is Jhansi (UP).

10. The Vice Chancellor, the Competent Authority of this Institute reserves all right to accept or reject any or all the submissions, at any stage, without assigning any reasons, thereof.

TENDER ACCEPTANCE LETTER (To be given on Company Letter Head)

Date:

To
The Vice Chancellor RLBCAU, Jhansi

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference dated

Name of Tender: - Supply of farm implements at RLBCAU, Jhansi -regarding.

Dear Sir,

1. I/ We have downloaded/obtained the tender document(s) for the above mentioned 'Tender' from the web site(s) namely: _____ as per your advertisement, given in the above mentioned website(s).

2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents from Page No. 1 toincluding all documents like annexure(s), schedule(s), etc.), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.

3. The corrigendum(s) issued from time to time by your department/ organisations too have also been taken into consideration, while submitting this acceptance letter.

4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.

5. I / We do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking.

6. I / We certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organisation shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Signature of the Bidder, with Official Seal)

BID SECURITY DECLARATION FROM BIDDERS IN LIEU OF EMD

(On Bidders letter Head affixing with Rs. 1 Revenue stamp)

I /We, the authorized signatory of M/s , participating in the subject Tender No., for the job of, do hereby declare:

- (i) that I/ we have availed the benefit of waiver of EMD while submitting our offer against the subject Tender and No EMD being deposited for the said Tender.

- (ii) that in the event we withdraw / modify our bid during the period of validity OR I/we fail to execute formal contract agreement within the given timeline OR I/we fail to submit a performance security within the given timeline OR I/ We commit any other breach of Tender Conditions / Contract which attracts penal action of forfeiture of EMD and I / we will be suspended from being eligible for bidding / award of all future contract (s) of The Rani Lakshmi Bai Central Agricultural University, Jhansi for a period of two year from the date of committing such breach.

Signature and seal of authorized signatory of bidder

Name of authorized signatory: