



Postgraduate Department of Botany
University of Kashmir, Hazratbal, Srinagar- 190 006
(NAAC Accredited Grade A+)

NOTICE INVITING E-TENDERS

For and on behalf of Competent Authority of the University of Kashmir, e-tenders in two bid system are invited from reputed manufacturers/authorized dealers for supply, installation and testing of Lab equipment mentioned in the tender notice as per the terms and conditions of the said notice. The bid/tender document consisting of qualifying information, eligibility criteria, specifications, bill of quantities (B.O.Q), terms & conditions and other details can be seen/downloaded from the website www.jktenders.gov.in as per the schedule given below:

S. No	Activity	Date
1.	Date of issuance of tender notice	03/12/2019
2.	Date of downloading the bid documents	04/12/2019 (10.30AM)
3.	Bid Submission (Start Date)	06/12/2019 (10.30AM)
4.	Seek Clarification (Last Date)	09/12/2019(upto 4PM)
5.	Bid Submission (Last Date)	30/12/2019(11:00AM)
6.	Last date for submission of hard copies	02/01/2020 (4:00PM)
7.	Date and Time of Opening of Technical Bid	03/01/2020 (2:00PM)
8.	Date and Time of opening Financial Bids	To be intimated later on

Sd/
Head, Department of Botany
University of Kashmir

Sd/-
Coordinator, FIST
Department of Botany

No: F-TENDER(UOK/FIST-Botany/2019-II)
Dated: 02/12/2019

**e-TENDERS FOR THE SUPPLY OF EQUIPMENT AT THE DEPARTMENT OF
BOTANY, UNIVERSITY OF KASHMIR**

E-TENDER ENQUIRY NO: No: F-TENDER(UOK/FIST-Botany/2019-II)

Dated: 02 December 2019

1. This tender aims for purchase of various scientific equipments for the Department of Botany sanctioned under DST-FIST (L1) Scheme. Therefore, for and on behalf of The University of Kashmir, Srinagar, Head, Department of Botany invites e-tenders through **www.jktenders.gov.in** from eligible bidders for **“supply of the mentioned instrument”**. Bidders are requested to quote their best possible prices with special discount, as the set-up is a non-commercial public service educational initiative supported by Department of Science and Technology (R&D), Government of India.
2. The address and contact numbers for sending bids or seeking clarifications regarding e-TENDERS are given below:
 - a) Bids/queries to be addressed to: **Head, Department of Botany/Coordinator FIST, Department of Botany University of Kashmir, Hazratbal, Srinagar-190006**
 - b) Name/designation of the contact personnel: **Head of the Department/Coordinator FIST**
 - c) Telephone numbers of the contact personnel: 9906520772 ; 9906536254; 9906535867
 - d) E-mail ID's of contact personnel: ahamidwani@yahoo.com; inayatullahtahir@gmail.com; zakallu@yahoo.com

3. SCHEDULE OF VARIOUS ACTIVITIES:

S. No	Activity	Date
1.	Date of issuance of tender notice	03/12/2019
2.	Date of downloading the bid documents	04/12/2019 (10.30AM)
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8.	Date and Time of opening Financial Bids	To be intimated later on

4. This TENDER is divided into five parts as follows:

Part I. Contains general information and instructions for the Bidders about the e- TENDER.

Part II. Contains essential details of the items/services required, such as the schedule of requirements (SOR), Technical specifications, delivery period, mode of delivery and consignee details.

Part III. Contains terms and conditions of the contract with the supplier.

Part IV. Contains special conditions applicable to this TENDER and which will also form part of the contract with the successful Bidder.

Part V. Contains evaluation criteria and format for technical and Price bids.

5. This TENDER is being issued with no financial commitment and the buyer reserves the right to change or vary any part thereof at any stage. Buyer also reserves the right to withdraw the TENDER, should it become necessary at any stage.
6. Prospective bidder may download the TENDER document from the website (www.jktenders.gov.in) and submit the bid in the Department of Botany in due time & date as mentioned in the tender document.

Part I: General Information

- 1. Last Date and Time for Depositing the Bids: As Given in the Front Page of the Tender.** The bids (both technical and commercial) should be deposited/submitted by the due date and time. The responsibility to ensure this lies with the bidder.
- 2. Manner of Depositing the Bids:** The Technical Bid of the Tender should be submitted in a sealed cover super scribing the wordings **Technical Bid (FIST)**. Department of Botany, University of Kashmir, Srinagar reserves the right to amend the Bid document, tentative schedule and critical dates. The bid document is available at Department's office & can be downloaded from e www.jktenders.gov.in Technical Bid in sealed cover should be superscripted with the words **"Technical Bid for supply of(particular instrument/s)" against e-NIT No.: F-TENDER(UoK/FIST-Botany/2019-II) dated 02/12/2019"**. Commercial bid should be filled as per the BOQ and current rate of the TENDER available on www.jktenders.gov.in. The prices should be quoted exclusive of taxes and all applicable taxes must be mentioned separately. In case, taxes are not mentioned in commercial bid, prices shall be considered inclusive of taxes. Prices are to remain valid for **120 days** from the date of opening of Commercial Bid. **No hard copy of commercial bids need to be submitted.**
- 3. Time and Date for opening of Bids: As given in the front page of the tender.** If bids are not opened on the due date due to declared holiday or any other exigency, the due date for opening of the Bids is declared a closed holiday, the Bids will be opened on the next working day at the same time or on any other day/time, as intimated by the Buyer through e-mail).
- 4. Place of opening of the bids: Department of Botany, University of Kashmir, Srinagar.** The bidders may depute their representatives, duly authorized in writing, to attend the opening of Bids on the due date and time. Rates and important commercial/technical clauses quoted by all Bidders will be read out on online system or in the presence of the representatives of all the Bidders after the commercial bid is opened. This event will not be postponed due to non-presence of your representative.
- 5. Two-Bid System:** Technical Bid would be opened and the list of qualified tenders would be published online. Tenders found eligible will go for opening of Commercial Bid and the date for the opening will be notified separately on the same day or the day as decided by the competent authority and commercial bids of ineligible tenders will not be opened.
- 6. Clarification Regarding Contents of the TENDER:** A prospective bidder who requires clarification regarding the contents of the bidding documents shall notify to the buyer in writing about the clarifications sought as per the date given in the front page of the tender. Clarification if any, shall be notified on the website in the form of corrigendum and no separate paper publication shall be made.
- 7. Rejection of Bids:** Canvassing by the Bidder in any form, unsolicited letter and post- tender correction may invoke summary rejection with forfeiture of EMD. Conditional tenders will be rejected.
- 8. Validity of Bids:** The Bids shall remain valid till **120 days** from the date of opening of the commercial bid.
- 9. Earnest Money Deposit:** Bidders are required to submit Earnest Money Deposit (EMD) (a fixed amount of **INR 25,000/- for each item**) in favor of **Head, Department of Botany, University of Kashmir**. The EMD may be submitted in the form of an Account Payee Demand Draft, valid for a period of **90 days**. EMD of the unsuccessful bidders will be returned to them at the earliest. The Bid Security of the successful bidder would be returned, without any interest whatsoever, after the receipt of Performance Security from them as called for in the contract. The EMD will be forfeited if the bidder withdraws or amends or impairs or derogates from the tender in any respect within the validity period of their tender.

For MSME and NSIC vendors, EMD is exempted as per the GFR 153 guidelines

10. Eligibility Criteria: Firm/bidders blacklisted at any stage or by any State/Central Universities, NITs/IITs/IITs, and Central/State Government body/PSUs etc. need not apply.

a) The bidder should be an Indian registered company engaged in respective area of works. The bidder should have sufficient Infrastructure, technical expertise and financial strength to undertake the contract.

b) **Minimum Average Annual Turnover of Rs. 10 lakhs** in the last 3 financial years. (Balance sheet/CA certificate to be enclosed, duly supported by the income tax return for financial years 2016-17, 2017-18, 2018-19).

c) The bidder should have experience of similar work with reputed organization. The nature of completed work should be supply & satisfactory completion of project in various Government Institutes/Reputed Firms/PSUs. [**NOTE:** The documentary proof of **Purchase orders** in respect of works mentioned in bid **must** be submitted along with the bid.]

d) Tenderer should submit documents in support of minimum eligibility criteria along with the tender/bid. **No** document in support of minimum eligibility criteria will be accepted / entertained after opening of tender.

e) The Bidder/Tenderer should provide the following mandatory information:

- i) Bidder/Tenderer must provide the information on the similar works completed successfully. Bidder/Tenderer must submit satisfactory documentary proof from end-users.
- ii) List of Organizations/Customers dealt by them.
- iii) Last three year's copies of Income Tax Return Form and PAN number.
- iv) Copy of Registration of Firm.
- v) Authorized dealership certificate from the manufacturer.
- vi) Quoted equipment should be European CE certified or US equivalent with a supporting document.
- vii) Newness certificate of the equipment.
- viii) Country of origin/ manufacture of the equipment.

f) Tenders/bids not meeting any of the above Eligibility Criteria shall be rejected.

11. Performance Guarantee: Successful Bidders have to submit the performance security @ 5% of the purchase order value or Contract value in the form of Fixed Deposit, Bank guarantee from a schedule commercial bank and will be retained up to the warranty Period.

Part II: Essential Details of Items/Services required

1. Schedule of Requirements: List of items / services required is as mentioned in Annexure- B.

2. Technical Details/Scope of work: Technical Specification of required items is as mentioned in Annexure-B.

Note: All equipment/ tools/ accessories/ safety gears in concern will be provided by the firm.

3. Delivery Period: Delivery period for supply and completion of works would be **30 DAYS** from the effective date of placing Work/Purchase Order. Please note that Purchase order can be cancelled unilaterally by the Buyer in case items are not received within the contracted delivery period. Extension of contracted delivery period will be the sole discretion of the Buyer.

4. Annual Maintenance Contract: The successful bidder has to provide free of cost maintenance of the equipment(s), for a period of minimum one year, from the date of installation.

5. Terms for Delivery and Transportation: The definition of delivery period for the TENDER will be **on receipt of Purchase Order**.

6. Consignee Details. Head, Department of Botany, University of Kashmir, Hazratbal, Srinagar – 190006, J&K, India.

PART III – Standard Conditions of Tender Enquiry

1. The Firm is required to give confirmation of their acceptance of the Standard Conditions of the contracts which will automatically be considered as part of the contract concluded with the successful Firm (i.e. Seller in the Contract) as selected by the client. Failure to do so may result in rejection of the submitted Bid. The standard conditions of the contract may be perused in the office of tenderer prior to submission of quotation.
2. **Law.** The Contract shall be considered and made in accordance with the laws of the Republic of India. The Contract shall be governed by and interpreted in accordance with the laws of the Republic of India.
3. **Arbitration.** All disputes or differences arising out of or in connection with the tender shall be settled by bilateral discussions. Any dispute, disagreement or question arising out of or related to the Supply/Installation/performance/service, which cannot be settled amicably, may be resolved through arbitration. In case of arbitration with the firm and this unit on any issue the final decision would be of The Head, Department of Botany, University of Kashmir. The arbitration will be governed by following:-
 - All disputes or differences arising out of or in connection with the present contract including the one connected with the validity of the present contract or any part thereof should be settled by bilateral discussions.
 - Any dispute, disagreement or question arising out of or related to this contract or related to construction or performance (except as to any matter the decision or determination whereof is provided for by these conditions), which cannot be settled amicably, shall within sixty (60) days or such longer period as may be mutually agreed upon, from the date on which either party informs the other in writing by a notice that such dispute, disagreement or question exists, will be referred to a sole Arbitrator.
 - Within sixty (60) days of the receipt of the said notice, an arbitrator shall be nominated in writing by the authority agreed upon by the parties.
 - The sole Arbitrator shall have its seat in Srinagar or such other place in India as may be mutually agreed to between the parties.
 - The arbitration proceedings shall be conducted under the Indian Arbitration and Conciliation Act, 1996 and the award of such Arbitration Tribunal shall be enforceable in Indian Courts only.
 - Each party shall have to bear its own cost of preparing and presenting its case. The cost of arbitration including the fees and expenses shall be shared equally by the parties, unless otherwise awarded by the sole arbitrator.
 - The parties shall continue to perform their respective obligations under this contract during the pendency of the arbitration proceedings except in so far as such obligations are the subject matter of the said arbitration proceedings.
 - **(Note:** In the event of the parties deciding to refer the dispute/s for adjudication to an Arbitral Tribunal then one arbitrator each will be appointed by each party and the case will be referred to the Indian Council of Arbitration (ICADR) for nomination of the third arbitrator. The fees of the arbitrator appointed by the parties shall be borne by each party and the fees of the third arbitrator, if appointed, shall be equally shared by the buyer and seller).
 - The delivery of material is delayed due to causes of Force Majeure by more than (02 months) provided Force Majeure clause is included in contract.
 - The customer has noticed that the FIRM has utilized the services of any Indian/Foreign agent in getting this contract and paid any commission to such individual/company, etc.
 - As per decision of the Arbitration Tribunal.

4. Penalty for use of undue influence. The Firm undertakes by bidding for the Tender Enquiry, that he has not given, offered or promised to give, directly or indirectly, any gift, consideration, reward, commission, fees, brokerage or inducement to any person in service of the BUYER or otherwise in procuring the Contracts or forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of the present Contract or any other Contract with the Government of India for showing or forbearing to show favour or disfavor to any person in relation to the present Contract or any other Contract with the Government of India. Any breach of the aforesaid undertaking by the Firm or any one employed by him or acting on his behalf (whether with or without the knowledge of the Firm) or the commission of any offers by the Firm or anyone employed by him or acting on his behalf, as defined in Chapter IX of the Indian Penal Code, 1860 or the Prevention of Corruption Act, 1986 or any other Act enacted for the prevention of corruption shall entitle the Client to cancel the contract and all or any other contracts with the Firm and recover from the Firm the amount of any loss arising from such cancellation. A decision of the Client or his nominee to the effect that a breach of the undertaking had been committed shall be final and binding on the Firm. Giving or offering of any gift, bribe or inducement or any attempt at any such act on behalf of the Firm towards any officer/employee of the Client or to any other person in a position to influence any officer/employee of the Client for showing any favour in relation to this or any other contract, shall render the Firm to such liability/ penalty as the Client may deem proper, including but not OPEN to termination of the contract, imposition of penal damages, forfeiture of the Bank Guarantee and refund of the amounts paid by the Client.

5. Access to Books of Accounts In case it is found to the satisfaction of the Department of Botany, University of Kashmir that the seller has engaged an agent or paid commission or influenced any person to obtain the contract as described in clauses relating to agents/agency commission and penalty for use of undue influence, the seller, on a specific request of the Department of Botany, University of Kashmir, shall provide necessary information/ inspection of the relevant financial documents/information.

6. Liquidated Damages. In the event of the Firm's failure to provide services and maintain the agreed uptime etc. as specified in this contract, the Client may, at his discretion, withhold any payment until the completion of the contract. The Client may also deduct from the Firm as agreed, liquidated damages to the sum of 0.5% of the contract price of the delayed/undelivered stores/services mentioned above for every week of delay or part of a week, subject to the maximum value of the Liquidated Damages being not higher than 10% of the value of payable amount as per the scheduled terms of payment.

7. Non-disclosure of Contract Documents. Except with the written consent of one party, the other party shall not disclose the contract or any provision, specification, plan, design, pattern, sample or information thereof to any third party.

8. Notices. Any notice required or permitted by the contract shall be written in the English language and may be delivered personally or may be sent by FAX or email or registered pre-paid mail/airmail, addressed to the last known address of the party to whom it is sent.

9. Premature Termination of Contract. A contract may be terminated in the following circumstances:

- When the FIRM fails to honor any part of the contract including failure to deliver the contracted stores/render services in time.
- When the FIRM is found to have made any false or fraudulent declaration or statement to get the contract or he is found to be indulging in unethical or unfair trade practices.
- When both parties mutually agree to terminate the contract.
- When the item offered by the FIRM repeatedly fails in the inspection and/or the supplier is not in a position to either rectify the defects or offer items conforming to the contracted quality standards.
- Any special circumstances, which must be recorded to justify the cancellation or termination of contract.

- The delivery of the material is delayed for causes not attributable to Force Majeure for more than (01 month) after the scheduled date of delivery.
- The Firm is declared bankrupt or becomes insolvent.

10. Transfer and Sub-letting. The seller has no right to give, bargain, sell, assign or sublet or otherwise dispose-off the contract or any part thereof, as well as to give or to let a third party take benefit or advantage of the present contract or any part thereof without prior consent in written from Department of Botany, University of Kashmir.

- The FIRM may subcontract any part of Scope of Work on mutual agreement with the CUSTOMER. The FIRM can under no circumstance sub- contract the complete Scope of Work to a Third Party.
- The FIRM would be entirely responsible for quality / standard and timely execution of the sub-contracted work. The FIRM is to draw up a suitable Quality Assurance (QA) Plan with the Sub- FIRM and a copy of the same along with Record of Inspection in accordance with such QA Plan shall be submitted to the CUSTOMER.
- The supervision of work for the sub-contracted jobs is to be done by the FIRM. The FIRM is not permitted to seek any extension of Completion Date citing delay on the part of Sub-FIRMS or rework arising out of Sub-Contracted work.

11. Patents and other Industrial Property Rights. The prices stated in the present Contract shall be deemed to include all amounts payable for the use of patents, copyrights, registered charges, trademarks and payments for any other industrial property rights. The Seller shall indemnify the Department of Botany, University of Kashmir against all claims from a third party at any time on account of the infringement of any or all the rights mentioned in the previous paragraphs, whether such claims arise in respect of manufacture or use. The Seller shall be responsible for the completion of the supplies including spares, tools, technical literature and training aggregates irrespective of the fact of infringement of the supplies, irrespective of the fact of infringement of any or all the rights mentioned above.

12. Amendments. No provision of present Contract shall be changed or modified in any way (including this provision) either in whole or in part except by an instrument in writing made after the date of this Contract and signed on behalf of both the parties and which expressly states to amend the present Contract.

13. Taxes and Duties. All the rates quoted should be inclusive of all taxes including the GST.

14. Transportation and Material Handling. The FIRM (supplier) will arrange necessary transport and labour at own cost for loading and unloading the items.

PART IV – Special Conditions

- 1. Option Clause.** This contract has an Option Clause, wherein the Client can exercise an option to procure an additional quantity of items in accordance with the same terms & conditions of the present contract. This will be applicable within the currency of contract. It will be entirely the discretion of the Client to exercise this option or not.
- 2. Repeat Order Clause.** This contract has a Repeat Order Clause, where in the Client can order desired quantity of the items/services under the present contract within six months from the date of successful completion of this contract, cost, terms & conditions remaining the same. It will be entirely the discretion of Client to place the Repeat order or not.
- 3. Tolerance Clause.** To take care of any change in the requirement during the period starting from issue of Tender Enquiry till placement of the supply/work order, Client reserves the right to increase or decrease the quantity of the required goods/services without any change in the terms & conditions and prices quoted by the Firm. While awarding the contract, the quantity/services ordered has been increased or decreased by the Client within this tolerance limit.
- 4. Payment Terms.** It will be mandatory for the Bidders to indicate their bank account numbers and other relevant e-payment details so that payments could be made through ECS/NEFT/RTGS mechanism instead of Payment through cheques. No advance payment will be made. 100% payment will be made after the supply and successful installation and demonstration of the instruments. In case of L/C, out of the total cost of equipments 80% payment will be made against inspection certificate (where applicable) and shipping documents to the purchaser through L/C. Balance 20% will be released within 30 days after due certification by the purchaser for successful commissioning of the equipment in the Department.
- 5. Paying Authority.** The payment of bills will be made by the Department of Botany, University of Kashmir within 60 days of submission of the following documents by the Seller to the Paying Authority:
 - (a) 02 ink-signed copies of Commercial invoice/SELLER's bill.
 - (b) A work completion certificate post Supply/Installation/User Satisfaction certificate from Department of Botany, University of Kashmir.
 - (c) Photocopy of Performance Bank guarantee.
 - (d) Details for electronic payment viz. Account holder's name, Bank name, Branch name and address, Account type, Account number, IFSC code, MICR code (if these details are not incorporated in contract).
- 6. Risk & Expense Clause.** Should the services or any installment thereof not be delivered with the time or time specified in the contract documents, or if unsatisfactory delivery are made in respect of the services or any installment thereof, the BUYER shall after granting the SELLER 60 days to cure the breach, be at liberty, without prejudice to the right to recover liquidated damages as a remedy for breach of contract, to declare the contract as cancelled either wholly or to the extent of such default.
- 7. Force Majeure Clause.** Neither party shall bear responsibility for the complete or partial nonperformance of any of its obligations (except failure to pay any sum which has become due on account of receipt of goods under the provisions of the present contract), if the non-performance results from such Force Majeure circumstances as flood, fire, earth quake and other natural calamities as well as other circumstances beyond the parties control that have arisen after the conclusion of the present Contract.
 - a) In such circumstances, the time stipulated for the performance of an obligation under the present contract is extended correspondingly for the period of time action of these circumstances and their consequences.
 - b) The party for which it becomes impossible to meet obligations under this contract due to

Force Majeure conditions, is to notify in written form to the other party of the beginning and cessation of the above circumstances immediately, but in any case, not later than 10 (ten) days from the moment of their beginning.

c) Certificate of a Chamber of Commerce (Commerce and Industry) or other competent authority or organization of the respective country shall be a sufficient proof of commencement and cessation of the above circumstances.

d) If the impossibility of complete or partial performance of an obligation lasts for more than 06 (six) months, either party hereto reserves the right to terminate the contract totally or partially upon giving prior written notice of 30 (thirty) days to the other party of the intention to terminate without any liability other than reimbursement on the terms provided in the agreement for the goods received.

8. Quality Assurance. Assurance of quality is the responsibility of the firm and firms are to indicate exclusively and submit proofs of quality assurance norms being followed.

9. Inspection. The inspection of delivered items would be carried out by the representative/s of the Department of Botany, University of Kashmir.

10. Period of Contract. The contract shall be valid for a period of **12 months**, from the date of issue of Purchase Order.

11. Extension Clause. The contract agreement may be extended further for a period mutually agreed between the buyer & seller, without any changes in rates quoted, and, on same terms and conditions mentioned in the extant tender document. However, charges in taxes/Government levies incorporated from time to time would be catered in concluding extension in contract. Any such extension would be processed only after submission of a certificate by the seller mentioning —No Downward trend in price and with the approval of the competent financial authority.

12. For each item mentioned in the TENDER separate price bids should be submitted/uploaded. Single price bid for more than one item will be rejected.

13. Depending on the budgetary provision for each item, the technical committee reserves the right to accept / reject the bid for any item.

14. The successful bidder must ensure the installation of the selected item through the company expert and provide hands on training to the faculty at the time of installation.

Part V – Other/Miscellaneous Information

1. The Broad Guidelines for Evaluation of Bids.

- Only those Bids will be evaluated which are found to be fulfilling all the eligibility and qualifying requirements of the Tender enquiry.
- If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price will prevail and the total price will be corrected. If there is a discrepancy between words and figures, the amount in words will prevail for calculation of price.
- Prices quoted by the FIRM should be precise and unambiguous. Rate per unit is to be quoted individually as per format for submission of “Q” bid at **Annexure “D”**. Clarifications, if any, may be obtained from this office prior to submission of tender.
- FIRM can quote for some or all categories mentioned in the “Q” bid submission format.
- Evaluation of the bid shall be carried out based on the cost of the financial bid.

2. Price/Commercial Bid Format: The rates for Items/services & spares are to be quoted as per Enclosure to **“Q” bid Format**. Bidders are required to forward 'Q' bid (**Annexure D**) electronically.

3. Technical Bid Format: The Technical Bid is to be submitted as per format attached with this tender document appended at **Annexure-E**

4. CHECKLIST (ON THE LETTER HEAD OF THE BIDDER)

The Bid must include a check list in the following format. No document in support of minimum eligibility criteria will be accepted / entertained after opening of tender.

S.No	Documents	YES/ No	Proof of Document Attached
1.	Cover letter by bidder (On the Letter Head of the Bidder)		As per the format given in Annexure A
2.	Check List		As given in the tender document
3.	Earnest Money Deposit (EMD), if required		As given in tender document
4.	Registration Certificate of the Bidder		Copy of Registration Certificate
5.	Documents in proof of Minimum Average Annual Turnover as per tender Documents		(Balance Sheet/CA Certificate)
6.	Documents in proof of Similar work experience		(Copy of Purchase Order, etc.)
7.	Affidavit to the effect that the bidder is not Black Listed by any State/Central Universities NIT/IIT/IIT		Furnish details as per Annexure-C
8.	Documents in proof of Availability of Technical and Financial strength to undertake the work		Dealership/Distributor/OEM Certificate, Any valid document in proof of financial strength
9.	Latest Income Tax Return (Last Three Years)		Copies of Income Tax Returns filed for last three years
10.	List of Organization/Customer Dealt.		Furnish details as per Annexure-F
11.	Compliance Sheet		Furnish details as per Annexure-G
12.	Other Documents		As given in the tender

5. Cover letter by bidder (See Annexure “A”)

ANNEXURE “A”

To
THE HEAD,
Department of Botany
UNIVERSITY OF
KASHMIR, Srinagar.

BID PROPOSAL SHEET (ON THE LETTER HEAD OF THE BIDDER)

Subject: Supply of equipment/s to the Department of Botany, UNIVERSITY OF KASHMIR, Srinagar.

Dear Sir,

We, the undersigned Tenderers, having read and examined in detail the specifications as specified in this document in respect of **Supply of _____equipment/s to the Department of Botany, UNIVERSITY OF KASHMIR, Srinagar** do hereby propose to supply the required products and services.

Tender No.				
EMD submitted		YES/NO (Please strike off whatever is not applicable)		
Amount	Mode	Date of Issue	Name of Bank	Valid up to
	Demand Draft			

ADDITIONAL PURCHASE/WORK ORDER: We understand that the Department of Botany, University of Kashmir, Srinagar, in case of the requirements may also place repeat purchase order/work order. In such cases, we shall accept and execute all the purchase/work order placed on us by the Department of Botany, University of Kashmir, Srinagar.

BID PRICING: We further declare that the prices stated in our proposal are in accordance with your Terms & Conditions in the bidding document. We further understand that the quantities as specified in this Tender may increase/decrease at the time of Award of Purchase Order as per the requirements of the Department of Botany, University of Kashmir.

QUALIFYING DATA: We confirm that we satisfy the qualifying criteria and have attached the requisite documents as documentary proofs. In case you require any further information/documentary proof in this regard during evaluation of our bid, we agree to furnish the same in time to your satisfaction.

CONTRACT PERFORMANCE SECURITY:

We hereby declare that in case the contract is awarded to us, we shall submit the performance Guarantee Bond in the form of Bank Guarantee for the amount of 5% of the total order value.

PAYMENT TERMS: We hereby declare that in case the contract is awarded to us, we agree with payment terms specified in the tender documents.

CERTIFICATE AND DECLARATION:

- a) I/We certify that no addition/modification/alteration has been made in the Original Tender Document. If at any stage addition/modification/alteration is noticed in the Original Document, I/We will abide by the terms and conditions contained in the original tender document, failing which Department of Botany, University of Kashmir, Srinagar reserves the right to reject the tender and/or cancel the contract.
- b) It has been certified that all information provided in tender form is true and correct to the best of my knowledge and belief. We hereby declare that our proposal is made in good faith, without collusion or fraud. No forged/tampered document(s) are produced with tender form for gaining unlawful advantage. We understand that the Department of Botany, University of Kashmir, Srinagar is authorized to make enquiry to establish the facts claimed and obtained confidential reports from clients.
- c) In case it is established that any information provided by us is false/misleading or in the circumstances where it is found that we have made any wrong claims, the Department of Botany, University of Kashmir, Srinagar is authorized to blacklist our firm/company/agency and debar us in participating in any tender/bid in future.
- d) I/We assure the Institute that neither I/We, nor any of my/our workers, will do any act which is improper/illegal during the execution, in case the tender is awarded to us.
- e) I/We assure the Institute that I/We will NOT be outsourcing any work specified in the tender document, to any other firm.
- f) Our Firm/Company/Agency has not been blacklisted or banned by any Govt. Department, University, Autonomous Institute or any other Govt. organization.
- g) I/We certify that, I have understood all the terms & conditions, as indicated in the tender document, and hereby accept all the same completely.
- h) I/We, further certify that I/We, possess all the statutory/non-statutory registrations, permissions, approvals, etc., from the Competent Authority for providing the requisite services,
- i) I/We hereby declare that this tender on acceptance communicated by you shall constitute a valid and binding contract.
- j) I/We certify that the submitted quotation is duly paginated from page no. ... to

Date, Signature and Seal of the Manufacturer/Bidder

ANNEXURE “B”
Technical Specifications of Required Items

S.No	Instrument	Description	Qty
1.	BIOLOG System	<p>GEN III MicroStation System with computer</p> <ul style="list-style-type: none"> For Rapid identification of Aerobic and Anaerobic Bacteria, yeast and fungi. The system should have the capacity to read all Biolog Microplate configurations. The Micro Station should allow the users to expand and create customized databases of their isolates. The system should include Gen III MicroLog 3 Software, GEN III Retrospect 2.0 Data Management Software, Electronic user guide, Reader, Pipettor, Turbidimeter, and at least one year warranty. GEN III Consumables Starter Kit. Starter kit should contain 20 Gen III Microplates, 1 box of pipette tips (Ovation make), 1 case of reservoirs, 1 jar of Biolog Universal Growth Agar (500 g jar), 1 box of Inoculators (100 units packed individually), 20 IF-A, 20IF-B Microplates, Database & Consumables for Aerobic Bacteria Identification GEN III Database (for both Gram Negative & Gram Positive Bacteria) GEN III Microplates (for both Gram Negative & Gram Positive aerobic bacteria) GEN III IF-A Inoculating Fluid (for use with GEN III aerobic bacteria)- in increments of 20 tubes per box GEN III IF-B Inoculating Fluid (for use with GEN III aerobic bacteria)- in increments of 20 tubes per box GEN III IF-C Inoculating Fluid (for use with GEN III aerobic bacteria)- in increments of 20 tubes per box Microplates, Database & consumables for identification of Anaerobic bacteria AN Database(for Anaerobic Bacteria) AN Microplate (for Identification of Anaerobic bacteria) AN - IF Inoculating Fluid for Anaerobic Bacteria-sold in increments of 10 tubes per box BUA (Biolog Universal Anaerobe) Agar, 500 g jar Microplates, Database & consumables for identification of Yeast YT Database YT MicroPlate (for Identification of Yeast) YT-IF BUY (Biolog Universal Yeast) Agar, 500 g jar Microplates, Database & consumables for Identification of Filamentous Fungi FF Database FF Microplate (for Identification of Filamentous Fungi) FF - IF Inoculating Fluid for Filamentous Fungi- in increments of 20 tubes per box Microplates for community analysis ECO Microplate-3 sets of the same 31 carbon sources in 	01

		<p>a 96 well Biolog Microplate for characterization/community analysis</p> <ul style="list-style-type: none"> • Other consumables • Reservoirs - sterile, case of 100 each case • Inoculators, Box of 1000(20 bags of 50 GEN III Inoculators) • Biolog streakes - sterile , 6" , pointed wooden • streaking sticks :box of 1000 (10 bags of 100) • Pipette Tips - sterile ,racked , box of 960 (for Ovation pipettors) 	
2.	Chemidoc	<ul style="list-style-type: none"> • System should image and analyse chemiluminescent western blots and stained Protein (Coomassie, silver, sypro, etc), DNA (EtBr, Sybr, etc) gels and have option to upgrade features with Fluorescent imaging across 5 separate channels with Popular RGB (Visible range), and near IR fluorophores (e.g., Alexa Fluor and Alexa Fluor Plus, DyLight dyes) with upto 4 channel multiplexing option • Camera: True 16-bit cooled 9 megapixel or more CCD camera • Motorized and Fully Automatic fixed lens with f-stop of 0.95 or better • The system should have Auto-focus for each level of zoom & Auto-exposure capability. It should automatically take the best focus according to the sample • Dynamic range: System should have equal or more than 4.0 orders of magnitude • Illumination: Systems should utilize a transilluminator based on green LEDs, which effectively excites popular DNA dyes such as ethidium bromide and SYBR • Exposure time: 1 millisecond to 60 minutes or more • System should possess built-in roll out LED transilluminator with sample view stage size of 22cm x 18 cm or more • System should eliminate uneven light illumination • Filter Wheel and filters: Minimum 2 position motorized filter wheel for capturing images and upgradable option to up to 7 position • System should have automatic image acquisition • System should have images in TIFF, JPG, PNG & PDF formats • System should allow series capture for creating series of images over different time period • System should have option to rotate sample blot/gel mechanically upto 10 degree in either sides • System should offer various binning option modes ranging from 1x1 to 8x8 for customized sensitivity/ resolution • Automatic generation of customization report containing channel images, tables reporting band intensity, size, density, background etc with automatic and manual detection of lanes and quantification of bands or regions. System should have option to analyze upto 4 mini gels simultaneously • Image analysis Software should be Cloud enabled and should not have any requirement for license registration allowing multiple users to use the software with full 	01

		functionality <ul style="list-style-type: none"> • Software should produce customizable reports with data organized as desired including Lane & Band identification with molecular weight estimation, relative quantitation, absolute quantitation and normalization using loading controls 	
3.	-80°C Deep Freezer	<ul style="list-style-type: none"> • -86°C Ultra-Low Temperature, with Urethane Foam Insulation, 230V, 50Hz • Capacity: 410 L; 14.5 Cu. Ft. • Temp Range: -Programmable temperature range from -50°C to -86°C in 1°C increments, even at ambient temperature upto 32°C • Control: Micro Processor control of temperature and alarms with non-volatile memory • Circulation: just one fan for reduced power consumption and noise • Cascade Refrigeration: Hermetically-sealed two stage cascade system with capacity to cope in high-ambient conditions • Insulation: Polyurethane foam, 5.1”, 130 mm thick • Chamber: Latch able inner door to minimize cold air loss when external door is opened and reduce power consumption to maintain temperature • Pull down time around 4 Hrs • Shelves: 5 compartment with 4 adjustable height corrosion resistant Stainless Steel Shelves. Each compartment should be well equipped with Insulated Inner Door • System Monitoring & Reporting Technology Software built-In for Fault diagnosis or set point variance • Security: Keyed locks on the outer doors and lids to keep out unauthorized users • Password: 4-digit password preventing unauthorized users from changing the temperature setpoint or alarm setpoint • Power: On-Off switch should be located behind the locked panel, preventing power from being accidentally turned off • Battery Backup: Should activate alarms and display temperature during power outage • Alarms: Audible and Visible alarms for Temperature filter clean, power out, Low Battery, System Fail, and Fault analysis • S. M. A. R. T. Plus diagnostic software, built into the front control panel, for trouble shooting fault condition <p>Contraction:</p> <ul style="list-style-type: none"> • Exterior: 18 gauge Steel, 1.2 mm thick with powder coated paint to resist scratch and rust • Interior: Polished 304 SS easily cleaned, eliminating potential for oxidation • Door seal: Inner door fitted with low temperature safe silicone seal to prevent temperature loss when opening the outer door • Outer door fitted with low temperature - safe silicone triple point seal, providing tight fit • Heated Air vent: Unique heat vent with manual plunger • Filter: Front mounted compressor filter easily visible and 	01

		<p>accessible by ¼ turn screw for quick removal. Reusable filter rinses clean</p> <p>Electric Power:</p> <ul style="list-style-type: none"> • Programmed startup: Random programmed start up times, 1-1.5 minutes apart, preventing power supply overload with multiple freezer restart simultaneously following a power failure • Stability: “Voltage Boost-Buck”, to even out high or low voltage fluctuation to maintain stable power • Freezer should be CFC Free & HCFC free refrigerants with biodegradable oil compressor • Certification: CE and UL certified • Computer networking: Factory Installed, Optional RS-485 communication port with optional software package for remote controlling and monitoring. LED indicates when the operation is controlled via computer • Ambient Condition: Engineered to maintain an internal Temperature of -86°C, even when operated in ambient temperature condition of up to 32°C 	
4.	RT PCR	<ul style="list-style-type: none"> • Capable for performing both real time PCR and end point analysis • Peltier Based system • System should support applications including absolute quantitation, simultaneous analysis data for relative quantitation of multiple plates, multiplex PCR, allelic discrimination (SNP), and dissociation curve analysis as well as pathogen detection or similar technology • 96-well block / 72 well rotor • The instrument must have provision for optimizing the PCR condition and should have True gradient • The system should have flexibility to use plates and 0.2 ml tubes, strips to cut down the cost per reaction • Supported volume range: 10 µl to 25 µl or better • Filters (wide band)-Five excitation filters, five-emission filters • Detection: Photodiode/CCD • Average sample Ramp rate: ≥3.3°C or better with peak sample ramp rate ≥5°C or better • Temperature Range: 0°C-99°C and temperature accuracy of at least ±0.2°C or better and uniformity ±0.4°C or better • Optical System: The system should have LED as excitation source • The instrument must have possibility of being easily integrated with any laboratory information system (LIS)/Email notification enabled platform • Factory calibrated for handling dyes such as SYBR Green, FAM, Cy5, HEX and ROX System should be able to do five colour multiplexing in a single tube. Calibration charges with consumables should be included in warranty period. • Additional Dyes Available: Calibration for new dyes within the wavelength range (470-730nm or better) should be possible by following the custom dye calibration procedure in the User’s Manual without purchase of additional filter sets • System should be standardized for Taqman and SYBR 	01

		<p>Green Chemistry with pre-validated and functionally tested Taqman Gene Expression assays as well as Taqman SNP Genotyping assays or panels and kits for genetic screening and infections. They should be readily available from the same manufacturer as that of main instrument.</p> <ul style="list-style-type: none"> • Standard-Collect data for the all 5 filters for all wells regardless of plate setup, plate setup may be altered after run completes • The software should be inclusive of multi-componenting Algorithm/ Multititre algorithm or similar unique designed to provide precise de-convolution of multiple dye signals in each well to ensure minimal crosstalk • Whenever a new upgraded software to the system is released by the company, it should be supplied, and installed free of cost • System should be compatible with test reagents from different manufacturers • System should be MIQE/ RDML compliant • System should be supplied with Laptop I3' and 2 KVA online UPS with 30 minutes backup • After sale, Service should be available promptly • Calibration of the system must be done whenever required free of cost during warranty period with all required consumables • All accessories (Hardware of /Software) required for complete operation of the system by supplied within the cost of system • Demo & Training on site only on supplier's expenditure before finalization of instrument 	
5.	Cold Centrifuge	<p>Cold Centrifuge, 230V/50-60Hz incl. rotor 15/50ml adapters</p> <ul style="list-style-type: none"> • With swing-bucket rotor incl. rectangular buckets and 15 ml /50 ml Falcon adapters (2 sets of each adapter) • Rotor Capacity: 4x500ml, 48 x 15 mL, 20 x 50 mL • Maximum Rotational Speed of Centrifuge: 14,000 min⁻¹ • Maximum Centrifugal Force of Centrifuge: 20,800 x g • Maximum Rotational Speed of Rotor: 4,000 rpm • Maximum Centrifugal Force of Rotor: 3,220 x g • Temperature Range: -9 °C to +40 °C • Sample temperature: < 4 °C at maximum speed • Speed RCF or radius correction values may be entered. <p>Special Features: It should have following special features:</p> <ul style="list-style-type: none"> • Ergonomically ideal access height for easy exchange of adapters and rotors • Simple programming with 35 programs memory with write protection • Very low noise level • Automatic rotor recognition with speed limitation for maximum safety • Automatic Imbalance detection and cut - off • Adapters for 15 mL and 50 mL conical Falcon tubes • Must fulfill the requirements of IEC 1010-2-020 safety standard • Motorized lid latch • Fast Temp function for fast pre-cooling • Standby cooling should maintain temperature when centrifuge is not in use • ECO shut-off for reduced energy consumption and 	01

		<p>extended compressor life</p> <ul style="list-style-type: none"> • Built in condensate drain to eliminate water accumulation and prevent corrosion • Display should show Speed, RCF, Time and temperature • 10 Acceleration and Braking Ramps for sensitive sample material • Optional RS-232 C Interface for connection capabilities • Power switch on the side at the front of device • Maximum Power Requirement: 1650 W • Dimensions (W x D x H): 70 x 61 x 35 cm <p>Fixed-angle rotor 30 x 1.5/2 ml, incl. aluminium lid</p> <ul style="list-style-type: none"> • Max. Rotational speed: 14,000 1/min • Max. RCF: 20,800 x g • Rotor, lid and adapters should be autoclavable (20 min, 121 °C) • Anodized aluminum for high chemical resistance 	
6	Milli Q Water System	<p>Milli-Q Water Purification System (including all relevant accessories)</p> <p>Key Specifications</p> <ul style="list-style-type: none"> • It should be all-in-one system producing both pure (Type 3) and ultrapure (Type I) water directly from tap for a broad range of applications. • Water Quality: Type 1, Type 3 • Feed Water Nature: Potable Tap Water • Flow Rate (L/h): 5 L/h • Daily Product Water Usage: 160 L/Day • Voltage: 100–230 V / 50–60 Hz • Dimensions: Height 71.3 cm (28.07 in) x Width 41.3 cm (16.25 in) x Depth 58.1 cm (22.87 in) <p>Product Water Specifications: Ultrapure water (Type 1)</p> <ul style="list-style-type: none"> • Resistivity at 25 °C : 18.2 MΩ•cm • TOC (Total Organic Carbon) : ≤ 5 ppb • Particulates (size > 0.22 µm) : <1 particulate/mL • Bacteria : < 0.01 CFU/mL • Pyrogens (endotoxins) : < 0.001 EU/mL • RNases : < 1 pg/mL • DNases : < 5 pg/mL • Flow rate : Up to 2 L/min <p>Product Water Specifications: RO/ Pure water (Type 3)</p> <ul style="list-style-type: none"> • Ionic rejection : 97 to 98% • Organic rejection for MW > 200 Dalton : > 99 % • Particulates rejection : > 99% • Production flow Rate : 5 L/h • Delivery flow rate : From storage tank tap: up to 2.5 L/min • From optional pump : up to 15 L/min at 1 bar <p>Feed Water Specifications</p> <ul style="list-style-type: none"> • Feed Water Conductivity at 25°C : < 2000 µS/cm • Feed Water TOC : < 2000 ppb • Feed Water Pressure : 1 - 6 bar • Feed Water Temperature : 5 - 35°C • Feed Water Chlorine : < 3 ppm • Feed Water Fouling Index : < 12 • Feed water pH : 4 to 10 pH units 	01

7	2D Gel Electrophoretic System	<p>1st Dimension</p> <ul style="list-style-type: none"> • Flexible first-dimension IEF system should run 6 IPG strips up to 24 cm or 12 IPG strips of 7cm with the help of another pair of electrodes • Isoelectric Focusing (IEF) Unit, with built-in power supply of 12,000 Volt / 1.5mA and Peltier thermostat cooling plate for excellent heat transfer and electrode contact • Programmable Instrument with RS 232C/USB interface for PC control inclusive of cable • Platform temperature 18 - 25°C (+/- 1°C). • Focusing tray should be reusable with no extra hardware cost involved • Rehydration trays of two lengths to be used for equilibration also • Strips should be monitored individually during run • Sample cup should be reused and have 240uls capacity • Electrodes lock into place on strips ensuring good contact during run • Entire protocol must be seen on screen, easy to read and edit • Pre-programmed protocols for recommended IEF for guiding new users • Should store multiple protocols each with multiple steps-flexible programming for precise results • Instrument control must be through LAN remote control with data acquisition • Dimensions not more than 38 x 19 x 27 cm (w x h x d) • EN61010-1, UL61010-1, CSA22.2, 1010.1, CE Safety Certification <p>2nd Dimension Mini gel system</p> <ul style="list-style-type: none"> • The unit should run either one or two 8 x 9 cm gels (plate size 10 x 10.5 cm (w x l)) • The unit must have active cooling • The unit should operate with alumina notched plates and a central cooling core for precise temperature control and minimal smiling • The unit must feature T-shaped spacers to make assembling the gel sandwiches easy • The unit should have minimal buffer requirements -- not more than 75 ml for each upper buffer and 250 ml for the common lower buffer chamber • The unit should have safety lid interlocks to prevent accidental operator contact • The unit should include a dual gel caster, combs and spacers • When doing 2-D electrophoresis, the gels must accept 7 cm Immobiline Dry Strips that run in the 1st dimension. • The unit should be protected against defects by a one-year warranty <p>Power Supply</p> <ul style="list-style-type: none"> • capable of delivering up to 300 volts, 400 mA and 90 watts • able to operate in either constant voltage or current modes • automatic crossover feature to switch between constant current and voltage mode • small footprint (33.5x12.5x28cm) and large handle which 	01
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		<p>makes it easy to transport</p> <ul style="list-style-type: none"> • four sets of safety-recessed high voltage output terminals • certified to meet CE, UL and CSA safety standards • easy-to-read LCD display • protected against defects by a one-year warranty 	
8	Automatic Weather Stations	<ul style="list-style-type: none"> • It should be rugged and most durable for outdoor environmental monitoring solution. Users should be able to easily configure the Weather Station to fit application needs. There should be at-least 10 channels to collect environmental data and then upload the same to software for analysis. The rates quoted should include the installation charges and all the supporting accessories required for installation, including labour charges. <p>Weather Station should be able to record below parameters:</p> <ul style="list-style-type: none"> •Temperature/RH •Wind Speed & Wind Direction •Gust Speed •Barometric Pressure •Soil Moisture •Rain Fall •Incoming & Outgoing Radiation • Photosynthetic Light <p>Production Description and Specification</p> <p>A. Data Logger</p> <ul style="list-style-type: none"> • Normal operating range: -20°C to 40°C (-4°F to 104°F) • Sensor Inputs: 10 • Smart Sensor compatibility: Compatible with smart sensors • Data channels: Maximum of 15 • Alarm output relay: configured to be activated, deactivated or pulsed on user-defined sensor alarms. The relay should be configured as normally open or normally closed, and is rated for 30 V and 1 amp max. • Expansion slot: One expansion slot should be available for factory-installed expansion port. • Local communication: Full Speed USB via USB mini-B connector • Outer enclosure: ABS blend with stainless steel hinge pins and bronze inserts • Inner enclosure: Polycarbonate with bronze inserts • Cable entry channel: EPDM rubber • Data storage memory: Nonvolatile flash data storage, 512K bytes local storage • Memory modes: Stop when full, wrap around when full • Operational indicators: Up to six (depending upon options) status lights provide basic diagnostics • Logging interval: 1 second to 18 hours, user-specified interval • Battery type: 4 Volt, 4.5 AHr or 10 AHr, Rechargeable sealed lead-acid • Rechargeable battery service life: Atleast 2-3 years • Time accuracy: 0 to 2 seconds for the first data point and ±5 seconds per week at 25°C (77°F) • Environmental rating: Weatherproof enclosure, tested to NEMA 6. • External power for battery charging: The system should 	02

		<p>accept 5 Watt Solar Panel Power, Alternatively it accepts an AC power adapter as well for battery charging</p> <p>B. Temperature-RH sensor with Radiation shield</p> <ul style="list-style-type: none"> • Measurement Range Temp: -40°C to 75°C (-40°F to 167°F) RH: 0-100% RH at -40° to 75°C • Accuracy Temp: +/- 0.21°C from 0° to 50°C (0.38°F from 32° to 122°F) RH: +/- 2.5% from 10% to 90% RH (typical), to a maximum of +/- 3.5% including hysteresis at 25°C (77°F); below 10% and above 90% ±5% typical • Resolution Temp: 0.02°C at 25°C (0.04°F at 77°F) RH: 0.1% RH • Bits Per Sample Temp: 12°C RH: 10 % • Drift Temp: < 0.1°C (0.18°F) per year RH: < 1% per year typical • Response Time (typical, to 90% of change) Temp: 5 minutes in air moving 1 m/sec RH: 5 minutes in air moving 1 m/sec with protective cap • Operating temperature range: -40°C to 75°C • Environmental rating weatherproof: 0 to 100% RH intermittent condensing environments. For best results, the Temp/RH Smart Sensor should be mounted inside a protective enclosure, such as a solar radiation shield. • This product should meets CE specification <p>C. Wind Speed & Direction Smart Sensor</p> <ul style="list-style-type: none"> • Measurement Range: Wind Speed: 0 to 76 m/sec Wind Direction: 0 to 355 degrees • Accuracy Wind Speed: ±1.1 m/sec (±2 mph) or ±5% of reading, whichever is greater Wind Direction: ±7 degrees • Resolution Wind Speed: 0.5 m/sec (1.1 mph) Wind Direction: 1 degrees (0 to 355 degrees) • Starting Threshold Wind Speed: ≤1 m/sec (2.2 mph) Wind Direction: 1 m/sec (2.2 mph) • Cup revolutions should be accumulated every three seconds for the duration of the logging interval • Operating Temperature Range: -40°C to 65°C • Environmental Rating: Weatherproof • Housing: Polycarbonate wind cups and UV-resistant ABS wind vane and black-anodized aluminum anemometer arm • Bits per Sample: 8 for each channel, 24 total • Measurement Averaging Option: Automatic averaging • This product should meets CE specification <p>D. Soil Moisture Sensor</p> <ul style="list-style-type: none"> • Measurement Range: In soil: 0 to 0.550(m³/m³) • The sensor should be capable of providing readings outside the standard volumetric water content range. 	
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		<ul style="list-style-type: none"> • Accuracy: $\pm 0.031 \text{ m}^3/\text{m}^3$ ($\pm 3.1\%$) typical 0 to 50°C; • Resolution: $0.0007 \text{ m}^3/\text{m}^3$ (0.07%) • Soil probe dimensions: 89 x 15 x 1.5 mm (3.5 x 0.62 x 0.06 in.) • Sensor frequency: 70 MHz • Bits per sample: 12 • This product should meets CE specification <p>E. Smart Barometric Pressure Sensor</p> <ul style="list-style-type: none"> • Measurement range: 660 to 1070 mbar • Accuracy: $\pm 3.0 \text{ mbar}$ (0.088 in. Hg) over full pressure range at 25°C; maximum error of $\pm 5.0 \text{ mbar}$ (0.148 in. Hg) over -40° to 70°C • Resolution: 0.1 mbar (.003 in. Hg) • Drift: 1.0 mbar (0.03 in. Hg) per year • Operating temperature range: -40° to 70°C • Environmental rating: Weatherproof • Bits per sample: 12 • This product should meets CE specification <p>F. Silicon Pyranometer Sensor</p> <ul style="list-style-type: none"> • Measurement range: 0 to $1280 \text{ W}/\text{m}^2$ • Operating temperature range: -40° to 75°C • Accuracy: $\pm 10 \text{ W}/\text{m}^2$ or $\pm 5\%$, whichever is greater in sunlight. • Resolution: $1.25 \text{ W}/\text{m}^2$ • Drift: $<\pm 2\%$ per year • Spectral range: 300 to 1100 nm • Cosine response error: $\pm 5\%$, 0° to 70°; $\pm 10\%$, 70° to 80° from vertical • Azimuth error: $\pm 2\%$ error at 45° from vertical, 360° rotation • Housing: anodized aluminum housing with acrylic diffuser and o-ring seal • Measurement parameters: average over logging interval, user-defined sampling interval from 1 second • Sensor should comply with all relevant directives in the European Union (EU) <p>G. PAR Sensor</p> <ul style="list-style-type: none"> • Measurement parameters: average over logging interval, user-defined sampling interval from 1 second • Measurement range: 0 to $2500 \text{ umol}/\text{m}^2/\text{sec}$, wavelengths of 400 to 700 nm • Operating temperature range: -40° to 75°C • Accuracy: $\pm 5 \text{ umol}/\text{m}^2/\text{sec}$ or $\pm 5\%$, whichever is greater in sunlight • Resolution: $2.5 \text{ umol}/\text{m}^2/\text{sec}$ • Drift: $<\pm 2\%$ per year • Housing: anodized aluminum housing with acrylic diffuser and o-ring seal • Sensor should comply with all relevant directives in the European Union (EU) <p>H. Rain Gauge Smart Sensor</p> <ul style="list-style-type: none"> • Measurement Range: 0 to 10.2 cm (0 to 4 in.) per hour, maximum 4,000 tips per logging interval • Accuracy: $\pm 4.0\%$, ± 1 rainfall count between 0.2 and 50.0 mm (0.01 and 2.0 in.) per hour; $\pm 5.0\%$, ± 1 rainfall count between 50.0 and 100.0 mm (2.0 and 4.0 in.) per hour 	
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		<ul style="list-style-type: none"> Resolution: 0.2 mm Operating Temperature Range: 0° to 50°C, survival -40° to 75°C Environmental Rating: Weatherproof Housing: UV-stabilized ABS plastic Mechanism: Tipping bucket with magnetic reed switch pivots on metal shaft Dimensions: 16.5 cm opening diameter (6.5 in.) x 24 cm (9.5 in.) high; 214 cm² (33.2 in.²) collection area Sensor should comply with all relevant directives in the European Union (EU) 	
9	LICOR Accessories	<p><u>Accessories for Licor (Li-6400) Portable Photosynthesis System</u></p> <p>Part No. Description</p> <ul style="list-style-type: none"> 6400-17L Whole Plant Arabidopsis Chamber 6400-07 Needle Chamber 6400-88 Expanded Temperature Control Kit 6400-19 Custom Chamber Kit 6400-37 Thick Gasket Kit for 2x3 cm Chamber 6400-33 Gasket Kit, 6400-02/02B 6400-30 Six (6) Sq Cm Chamber Seal Kit 	01
10	Nanodrop	<p>Low Volume sample analysis / UV Visible Spectrophotometer</p> <ul style="list-style-type: none"> A spectral scanning unit for UV-visible-NearIR wavelength range, with cuvette port (with no extra attachments) and should be able to read 96 & 384 microwell plate format Should work as a standalone system without computer and also able to run with computer-controlled software. Analysis Software should be supplied with unlimited user license Should be able to read end point, kinetics, spectral scanning and also Kinetic spectral scan Instrument should be able to read atleast 16 low volume samples of 2µl-10µl using low volume analysis plate in case of DNA/RNA purity & concentration check in directly with standalone mode System should be able to run in stand-alone mode using 7 inch or more touch screen for quick usage The instrument should have a memory of 99 inbuilt protocols in stand-alone mode Communication options : USB ports to PC , WiFi dongle and data transfer devices , 1 ethernet port Access data via cloud based capabilities, wired or wireless network connection Instrument should be able to provide the wavelength range from 200nm to 1000nm with 1 nm steps Spectral scanning speed: 10 sec from 200 to 1000 nm with 1 nm steps per sample Performance Specifications: Bandwidth:< 2.5 nm or better and Xenon flash lamp life should be for 10 million 96 well microplates The instrument should have inbuilt incubation and linear shaking options for longer kinetic assays etc. Incubation temperature: from ambient +2°C to +45 °C. Spectral scanning speed 200 to 1000nm should be 10 sec. or less 	01

		<ul style="list-style-type: none"> • Measurement speed should be 6 sec. for 96 well and 10 sec. for 384 well plate • The instrument should have minimum 2 USB ports, one for the easy data transfer and able to connect wi-fi dongle • System should have Power Save function for reduced energy consumption when the instrument is 'on' but not in use • Visualize data in both numerical mode and heat-map/virtual image of plate • Software should have English version <p>Data Analysis Software:</p> <ul style="list-style-type: none"> • Software should allow multiple absorbance /photometry steps in a single program for differentially analysis assays, including plate out option during the program to add required compounds and then continue the program for further analysis. • Allow multiple absorbance reading steps within the same program i.e. in case of two sets of reading before and after adding the compounds • Database based software to run backups of all data, restore back up data (in case of hardware failure of original computer) • Should have area selection option, for different measuring parameters for different area in a same plate. • Spectral scanning of all 96 samples or 384 samples should be able to view in single graph plot. • Data export must be in pdf, excel,xml and note pad format 	
11	Motorized Stereo zoom Microscope	<p>Automated High Resolution Stereo fluorescence microscope with Imaging System</p> <ul style="list-style-type: none"> • Stereo-zoom microscope with a zoom factor should be at least 20.5:1 or better with magnification range between 15x to 320x • Fully apochromatic encoded Zoom with digital display control Panel Information of the system's magnification, resolution, depth of field, and field of view • Binocular tube with inter-pupillary distance adjustment range from 50 –80 mm or better. Observation tube with 35 degree angle for comfort during visualization and trinocular with camera port for 100/0%-0/100% light path. • Two eyepieces of 10 x magnification with 23mm field of view or more with diopetre adjustment for both eyes. • Plan Apo 2x objective with 20 mm or higher working distance. For Stereo observation, the Numerical Aperture of the objective should be at least 0.35 or better and resolution of 1050 lp/mm or better. Separate 1X objective should be quoted along with dual nosepiece. • Automated coarse/fine focus drive with profile column of 420 mm or more. • Transmitted Light Base with LED illumination having life time of more than 25000 hrs and suitable for bright field as well as Rottermann contrast or /equivalent contrast and dark field. • Reflected LED Epi-illumination with dual fibre optics • Microscope should be able to achieve high depth and high resolution simultaneously. • Camera: High definition digital camera attachments with CMOS sensor having minimum 10 MP resolution or bet- 	01

		<p>ter and live image acquisition of minimum 30 fps or better. Should have provision of operation through PC or stand alone with direct projection to HD screen.</p> <ul style="list-style-type: none"> • Software for micron bar, annotation and point to point measurement with data station. Dedicated module for capturing images at various levels and combining them into a single focused image for stereomicroscopy, creation of stereo pair, depth map, anaglyph and color relief images. • Microscope, camera and software to be provided from the same manufacturer for seamless integration and high precision functioning. Quoted Model should be European CE certified and on-site upgradable to LED Fluorescence with dedicated beam path for Fluorescence in the microscope stand. • Computer system with following specifications: intel i5, 1TB HDD, 4GB RAM, 1GB NVIDIA Graphic card, 21 TFT Screen, Keyboard, Mouse, DVD R/w; must be supplied along with stereozoom without any extra cost. 	
12	CNS Analyzer	<p><u>Fully Computer and Microprocessor controlled Elemental Analyser configured for the quantitative determination of CNS using Gas Chromatographic Column Separation and Thermal Conductivity Detection.</u></p> <ul style="list-style-type: none"> • Elemental Analyser based on Combustion Principle. Gas Species produced from the combustion time separated by a GC column and detected by a super sensitive TCD. • The system should analyse Organic, Inorganic and metallorganic component on solid viscous and liquid non volatile samples. The system should have high flexibility in Analytical Mode throughout the use of different configuration Kits as Selectable operating mode: CHNS/O, CHNS, CNS, S, CHN, CN, N. • Highly stable thermo regulated oven should allow for reliable separations by GC Column of the 4 gas species produced in the Combustion Reactor and to detect gas peaks using a Supersensitive TCD granting baseline stability using Helium carrier for analytical and reference arm. • <u>Fully PC controlled unit, so that all the instrument parameters like leak test, autoready, Diagnostics, method should be set from either instrument key pad or PC key board.</u> • <u>Permanent display of temperature, pressure/flow on instrument itself.</u> • The system should have Pressurised oxygen jet injection on the sample directly, for any volume independently from carrier gas velocity for fullest combustion of sample. It has the programmable oxygen dosing time and digestion temperature as standard feature. • The system should have pressure/flow control meter for carrier gas, it includes <u>Autodiagnostics</u>, digital clock, automatic wakeup routine, start up, stand by, shut down facility. The time set for stand by and auto ready should be permanently displayed on monitor as strip in the window monitor. • Max Furnace Temp : 1100°C • Turbo Flash Combustion Temp. 1800°C <p>The system should be capable of quantitative determination of Carbon, Nitrogen and Sulphur simultaneously in a</p>	01

		<p>sample</p> <ul style="list-style-type: none"> • Detector: Supersensitive TCD (1 microgram detector response 1500 counts) • Analytical Measuring Range: From 0.01% (50 ppm) to 100% • Sensitivity: Less than 0.5 microgram for C,N,S • Accuracy: 0.15% absolute & 0.15% relative with organic substance depending upon % element content of samples • Precision: 0.30 to 0.05% RSD (based on 3 Sigma using 100 mg certified Test substance) • Analysis time: CNS less than 5 minutes • Solid & Liquid samples: The system should be able to handle solid and liquid samples. • Chromatographic display to provide indications on conditions of the catalyst, column performance by peak shape and baseline stability • Real Time Chromatogram: The system should eliminate the need of run counter to monitor the activities of reagent and other components, and help in determining the overall operation of the analyzer irrespective of nature of samples • Extensive diagnostic: Should continuously monitor electronic and pneumatic components, assuring unattended operation, high mean time between failure, optimum instrument performance • Gas Leak Test: The pressure probe should complete the automatic push button leak test procedure quickly and accurately • IRMS Interface: The system should be able to be interfaced to Mass Spectrometer namely IRMS (Isotopic Ratio Mass Space to analyse Isotopic composition of elements.) • <u>The system should be able to integrate into a Local Area Network (LAN) via an optional Ethernet card, which is attached directly onto the analyzer.</u> 	
13	Microscope with micro-photography attachment	<ul style="list-style-type: none"> • Binocular upright phase contrast microscope with imaging system • Color Infinity Corrected Microscope frame should be sturdy and Silver (Ag) treated. Low position focus control. 300 microns per fine focus rotation with calibration facility in 3 micron increments. Self Adjusting Focus Mechanism. • LED transmitted light illumination with life time of 50,000 hours (20 years) and 6000K colour temperature for brighter imaging and observation of light coloured samples also without transmitting external heat • Binocular Observation Siedentop tube with 45° inclination, pair of eyepieces with 20mm Field of View and pair of 10X eyepieces and should be focusable and have diop-tre adjustment facility • Interpupillary distance: 52mm- 75mm and pointer on one eyepiece • XY stage with rounded edges. Right hand stage control. Dimension: 185mm x 140mm. The stage should have non-extending rack and have Vernier for X/Y coordinates. One hand slide loading. Stage travel range: 26mm x 76mm. • Quintuple nosepiece to accommodate 5 objectives 	01

		<ul style="list-style-type: none"> Objectives: Plan 4x/0.10, 10X/0.25Phase, 40X/0.65 Phase and 100X/1.25 Phase with oil Pre-centered and Prefocused Abbe Condenser Polarization attachment should be quoted and should be functional. Camera: 5 megapixel color HD CMOS camera. The camera should be integrated with the microscope frame. The camera should be WiFi enabled to be connected to cell phones for remote access of images. The Camera should have the facility to attach to computer as well. Computer system: intel i5, Windows 10, 1TB HDD, 4GB RAM, 1GB Graphic card, 21" TFT Screen, Keyboard, Mouse, suitable UPS. <p>Note:</p> <ul style="list-style-type: none"> Microscope & camera should be from same manufacturer to avoid any compatibility issues. The condenser should be slot for Phase, Dark Field and Compensator or Turret type for better contrast techniques. Single Position LED Fluorescence, Polarization. The microscope should be CE, RoHS certified and the main optical components should be ISO 9022-11 certified. Dedicated certificate for Silver Treated Microscope Frame should be provided. 	
14	Herbarium Mobile Compactors/ Optimizers	<ul style="list-style-type: none"> Supply and installation of herbarium compactors/optimizers with overall dimensions of SD -3 Single Static Drive Cover Unit 3 bay (U/C + Fittings +Cover) should be 2745 mm(Width) x 381mm(Depth) x 1980mm (Height). LD-3 Single Last Drive Unit 3 Bay (U/C + Fittings+ Drive+ Cover) should be 2745 mm(Width) x 762mm(Depth) x1980mm(Height). The construction should be rigid knockdown made of 0.8 mm thick CRCA steel confirming to IS:513. Each body shall have a main unit plus 2 add-on units. Finish should be Epoxy polyester powder coated thickness of 40 microns. Shelf construction should be made from CRCA steel 0.8 mm thick IS:513. Uniformly distributed load capacity of 80 Kg. Undercarriage shall have construction in welded frame made of HR sheet 3.15mm thick confirming to IS:10748. Finish should be Epoxy polyester powder coat of approved colour and shade with a dry film thickness of minimum 40 microns. The movements should be Drive Type configuration: in case of D2 & D3 movement of units achieved mechanically through a PU drive wheel and sprocket-chain-tensioner arrangement mounted rigidly onto body size. For D3, each movable under carriage should be provided with 2 rollers on the shaft for driving, 2 anti-friction ball-bearing for rolling and 4 anti-friction ball-bearing for guiding between the rails. Fittings should be centralized locking arrangement through locking stiffener mounted onto back of single last unit so that it gets locked on channels when all the units are brought together. This arrangement should occupy space of 90 mm. Lockable sliding doors (combination of glass and metal) should be provided for each body. Each Drive Type units shall have locking knob near the drive wheel for manual locking of individual units when a person is using those units. Knob 	40

		<p>should be rotated to unlock position when units are to be moved. End stoppers should be provided to prevent derailment. Door locking should be having hinged doors of recessed die cast handle-cum-lock giving 3 way locking through a lever and shooting bolts. Guide channel shall have “J” section 2 mm thick HR & 25 mm Square bright bar. Fasteners should be galvanized/blackodised/Zn plated. The label holder should be made from 2 mm thick clear transparent acrylic sheet. Also total number of loading levels per understructure should be 15 for SD-3. Fascia (tiling) 3 tile pattern fascia option on drive side panel plus 3 tile pattern fascia on non-drive side panel plus 3 tile pattern fascia option on back panel of single last plus 3 tile pattern fascia option on back panel of single static. The tiles should be held together by stiffeners and fasteners in 2 vertical metal trims. Guide channels shall consist of “J” section 2 mm thick & 25 mm square bright bar - both connected by screws.</p> <p>Note: Before submitting the bids, the potential bidders may preferably visit the Department of Botany, University of Kashmir, Srinagar, J&K, India for on-site assessment of the space available for installation of herbarium compactors and perusal of the drawing. The suppliers should also keep the proof of supply and installation of similar herbarium compactors to other institutions in the country. The bid must be inclusive of the cost of labour and other ancillary charges necessary for the installation of herbarium compactors.</p>	
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**AFFIDAVIT REGARDING BLACKLISTING/ NON-
BLACKLISTING FROM TAKING PART**

**(To be executed on Rs.10/- Stamp paper & attested by Public Notary/Executive
Magistrate by the bidder)**

I/We Proprietor/Partner(s)/Director(s) of M/S.----- hereby declare
that the firm/company namely M/S.-----
----- has not been blacklisted or debarred in the past by Department of Botany, University
of Kashmir, Srinagar or any other Government organization from taking part in Government
tenders.

Or

I/We Proprietor/Partner(s)/Director(s) of M/S. -----hereby declare
that the firm/company namely M/S.-----
-----was blacklisted or debarred by Department of Botany, University of Kashmir, Srinagar,
or any other Government Department from taking part in Government tenders for a period of -
----- years w. e. f.-----.

The period is over on-----and now the firm/company is entitled to take part in
Government tenders. In case the above information is found false I/We
are fully aware that the tender/contract will be rejected/cancelled by Department of Botany,
University of Kashmir, Srinagar, and EMD/SD shall be forfeited. In addition to the above
Department of Botany, University of Kashmir, Srinagar, will not be responsible to pay the bills
for any completed/ partially completed work.

Signature.....

Name.....

Capacity in which assigned:

Name & address of the firm:

Date:

Signature of Bidder with seal.

“Q” BID FORMAT

This Document is available online in as Excel File. The “Q” Bid has to be submitted Electronically in the format given on the Website (BOQ). Technical Quotes should in no case include Rates or hard copies of BOQ. Any bids accompanying BOQ in hard copy format shall be rejected.

Technical BID FORMAT

Sl. No	Documents
1.	Cover letter by bidder (On the Letter Head of the Bidder).
2.	Check List on the letter head of the institute.
3.	Earnest Money Deposit (EMD), if required.
4.	Registration Certificate of the Bidder.
5.	Documents in proof of Minimum Average Annual Turnover as per tender Document (Balance Sheet/CA Certificate, etc.)
6.	Documents in proof of Similar work experience (Copy of Purchase Order, etc.)
7.	Affidavit to the effect that the bidder is not Black Listed by any State/Central Universities NIT/IIT/IIIT
8.	Documents in proof of Availability of Technical and Financial strength to undertake the Work
9.	Latest Income Tax Return (Last Three Years)
10.	List of Organization/Customer Dealt.
11.	Compliance Sheet
12.	Other Documents (As Mentioned in the tender)

List of Organization/Customer Dealt

Provide at least THREE references with compatible network size and complexity to whom you have provided similar implementation and/or integration services. Please use this format for your response.	
ITEM	RESPONSE
REFERENCE 1	
Company/Institution Name Address Scope of Project Dates of Engagement Contact Name and Title E-mail Telephone	
REFERENCE 2	
Company/Institution Name Address Scope of Project Dates of Engagement Contact Name and Title E-mail Telephone	
REFERENCE 3	
Company/Institution Name Address Scope of Project Dates of Engagement Contact Name and Title E-mail Telephone	

Compliance Sheet

S.No	Equipment	Brand/ Make	Is the item to be supplied as per the specifications as mentioned in Annexure B (Y or N)	Remarks if any
1.	BIOLOG System			
2.	Chemidoc			
3.	-80°C Deep Freezer			
4.	RT PCR			
5.	Cold Centrifuge			
6.	Milli Q Water System			
7.	2D Gel Electrophoretic System			
8.	Automatic Weather Stations (2 No.)			
9.	LICOR Accessories			
10.	Nanodrop			
11.	Motorized Stereo zoom Microscope			
12.	CNS Analyzer			
13.	Microscope with micro-photography attachment			
14.	Herbarium Mobile Compactors/Optimizers			

Signature of Bidder with Seal