



# Guru Gobind Singh Indraprastha University

Sector 16C, Dwarka, New Delhi -110078

Website: <http://ipu.ac.in>

Phone No.-011-25302304, 303

Date: 04 Feb, 2017

## TENDER NO. 02/GGSIPU/USBT/NR/DBT/2016-17

### E-TENDER (NIQ)

Registrar, Guru Gobind Singh Indraprastha University invites e-tenders from reputed and eligible bidders for the **Supply and Installation of Lab Equipment** for University School of Biotechnology, Sector 16C, Dwarka, New Delhi-110078. Tender document can be downloaded from Delhi Govt. e-procurement website i.e. [www.govtprocurement.delhi.gov.in](http://www.govtprocurement.delhi.gov.in). The tender document can also be viewed on the University website i.e. [www.ipu.ac.in](http://www.ipu.ac.in).

1.	Name of work	<b>Supply and Installation of Lab Equipment for UNIVERSITY SCHOOL OF BIO TECHNOLOGY</b> at Guru Gobind Singh Indraprastha University, Sector 16 C, Dwarka, New Delhi – 110078
2.	Last date, time and venue for submission of EMD and Technical bids documents	28.02.2017 Up to 12:00 NOON. in the office of USBT, Second Floor, Block- A, Room No- AFR- 206, GGSIPU, Sector 16 C, Dwarka, New Delhi – 110078
3.	EMD	Item-wise EMD for the amount specified in the Technical Bid (Annexure G), issued in favor of the Registrar, GGSIP University payable at Delhi in the form of FDR
4.	Date and time for opening of Technical bid	01.03.2017 at 11:00 a.m.
5.	Date and time for opening of Financial Bid	After evaluation of technical bid, date and time will be notified on e-tender website <a href="http://www.govtprocurement.delhi.gov.in">www.govtprocurement.delhi.gov.in</a>
6.	Estimated cost of the Supply and Installation of Lab Equipment	Approx. 58 lakhs
7.	The bids shall be submitted in two stages viz. (i) Technical bid (ii) Financial bid. Detailed specifications of the item(s) to be supplied are mentioned at <b>Section-V Annexure-G</b> of the tender document. <b>The Technical &amp; Financial bid should be uploaded on e-procurement website i.e. <a href="http://www.govtprocurement.delhi.gov.in">www.govtprocurement.delhi.gov.in</a></b>	

(REGISTRAR)



# TENDER DOCUMENT

FOR

**Supply & Installation of Lab Equipment for  
University School of Biotechnology**

AT

Guru Gobind Singh Indraprastha University  
*[A state University under Govt. of NCT of Delhi]*  
Sector 16 C, Dwarka, New Delhi 110 078

**Registrar**

Guru Gobind Singh Indraprastha University  
Sector 16C, Dwarka, New Delhi 110078  
Contact No(s) (USBT).011-25302304, 3  
Email (USBT): [raghuramlab@jpu.ac.in](mailto:raghuramlab@jpu.ac.in)

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**Section I**  
**Introduction & Notice Inviting Tender**  
**TENDER NO. 02/GGSIPU/USBT/NR/DBT/2016-17**

Registrar, Guru Gobind Singh Indraprastha University (GGSIPU) invites tenders (in two bid system – Part I- Technical & Part II-Financial) from eligible and qualified bidders on supply & installation basis:-

1. **Particulars of Items:** Details of the items with specification are mentioned at Section – V, Annexure-G
2. **Quantity:** Quantity is mentioned at Annexure-G
3. **Earnest Money Deposit (EMD) in the form of FDR:** The details of the item wise EMD are mentioned at annexure-G, to be paid as detailed in clause 19. The required EMD along with a covering letter on the letterhead of the bidder and hard copies of technical bids identical to those submitted online in separate envelopes with all other supporting documents, shall be deposited physically in the tender box kept for this purpose on or before the day of the opening of the tender at the office of USBT, GGSIPU, Sector-16C, Dwarka, New Delhi. Only EMD in the form of DD or FDR with a covering letter and all other bidding documents deposited in the Tender Box sealed and marked as specified under clause 14 and 16 shall be accepted. Bids without EMD will be rejected.
4. **E-Tendering Participation Requirements:** The prospective bidders shall need registration with E-procurement system of NIC by paying necessary registration charges. The details can be obtained from Help Desk of the E-procurement site/ office, (<https://govtprocurement.delhi.gov.in>)
5. **Completion period:** Supply within 60days from the date of issue of Sight Draft or Letter of Credit as per the discretion of the university, and installation within 30 days after the receipt of the item at the University.
6. **Availability of Tender Document:** Tender Documents with detail terms & conditions can be downloaded from Delhi govt. e-procurement website.
7. **Qualification of the bidder:** Bidders should have experience of supplying at least 3 such equipment, similar to the item(s) as mentioned in Annexure – G of this tender document, to any Government /private/Educational or Research Institutes in India during the last two years. The decision of the University regarding the claim of similarity of the items supplied earlier shall be final.
8. **Validity Period of Offer:** The rates offered in Part II (Financial bid) should be valid for at least one hundred and eighty (180) days from the date of opening of Part II (Financial bid) of the Tender.
9. **a) Receipt and opening of Tenders:** The committee approved by the competent authority that invited the tenders will open the e-tenders as per the date and time given at the e-procurement site. The tender box containing EMD and hard copies of the TECHNICAL bids shall be opened at the date and time given at the e-procurement site.  
b) Authorized representatives of the bidders may attend the tender box opening, provided they bring with them letters of authority from the corresponding bidders.  
c) The Technical Bids shall be opened in the first instance. These shall be scrutinized and evaluated by the competent committee with reference to the parameters prescribed and specifications asked in the tender. In the second stage, the online Financial Bids of only the technically qualified bids shall be opened for further evaluation. This shall be done at the e-procurement site, on the date and time notified at that site.
10. GGSIPU reserves the right to accept or reject any or all the tenders wholly or partially, without assigning any reason. Further, it shall be the absolute discretion of the University to purchase or not to purchase any or all of the items mentioned in the tender document or alter their quantity, or place a repeat order(s) later.

## **Section II**

### **Instructions to Bidders**

#### **11.0 Scope**

The work consists of the following:

- 11.1 Supply and Installation of Lab Equipment for UNIVERSITY SCHOOL OF BIO TECHNOLOGY in GGSIP University Campus at Sector-16C, Dwarka, New Delhi as per the specifications in Section-V, Annexure-G.
- 11.2 Comprehensive unconditional on-site warranty on the entire equipment for the period specified in Annexure G for each item (or higher as given by the manufacturer), from the date of completion of installation and inspection of the items supplied, as certified by the University. In case of UPS, IT peripherals and consumables, the warranty shall be one year from the date of completion of installation and inspection, unless otherwise specified by the manufacturer for items with short life.

#### **12.0 Definitions:**

- 12.1 **GGSIPIU** means Guru Gobind Singh Indraprastha University, New Delhi
- 12.2 **University** means Guru Gobind Singh Indraprastha University, New Delhi
- 12.3 **TIA** means the Tender Inviting Authority i.e. Registrar, Guru Gobind Singh Indraprastha University, New Delhi.
- 12.4 **Bidder/Supplier/Vendor/Contractor/firm** means manufacturing firm or its authorized distributor, primary dealer, proprietary firm, partnership firm, private or public limited company or corporation.

#### **13.0 Who can apply:**

- 13.1 If the bidder is a proprietary firm, the application shall be signed by the proprietor with his full typewritten name and the full name of his firm with its current address, contract details etc.
- 13.2 If the bidder is a firm in partnership, the application shall be signed by all partners of the firm with their full typewritten names and current addresses, or alternatively, by a partner holding power of attorney for the firm. In the latter case a certified copy of the power of attorney should accompany the application. In both cases, a certified copy of partnership deed and current address of all the partners of the firm should accompany the application.
- 13.3 If the bidder is a limited company or a corporation, the application shall be signed by a duly authorised person holding power of attorney for signing the application accompanied by a certified copy of the power of attorney. The bidder should also furnish a certified copy of the Memorandum and Articles of Association duly attested by a Public Notary.
- 13.3 Joint Venture/ Consortiums are not accepted.

#### **14.0 Sealing and Marking of Bids**

- 14.1 Both Technical and Financial bids shall be submitted online, but hard copies of the Technical Bid and supporting documents (identical to those submitted online) shall be submitted for each item along with EMD as described below.

- 14.2 The bidder shall place two separate envelopes (called inner envelopes) marked “**Technical Bid**” with all supporting documents listed at clause 16 (Section II) AND “**Earnest Money Deposit**” in one outer envelope. The inner envelopes will have marking as follows:-  
a) Technical Bid  
b) Earnest Money Deposit (EMD)
- 14.3 The sealed outer and inner envelopes containing the Technical bid and EMD shall be addressed to the Registrar (Attn: Dean, USBT), Guru Gobind Singh Indraprastha University, Sector 16C, Dwarka, New Delhi –110078.
- 14.4 The sealed tender shall bear the name and identification number of the Tender on the cover of the Envelope(s).
- 14.5 In addition to the identification required as above, each of the envelopes shall indicate the name and address of the bidder to enable the bid to be returned unopened in case it is declared late or is declared nonresponsive and rejected.
- 15.0 **Bid Submission:**
- 15.1 The bidder has to submit its technical and financial bids online at the e-procurement site (<https://govtprocurement.delhi.gov.in>) and physically deposit the identical hard copies of the Technical bid and the mandatory EMD in separate envelopes as mentioned in clause 14 above and detailed in clause 19. The technical bid shall include a covering letter on the letterhead of the bidder, and all supporting documents as listed in clause 16. Their hard copies, identical to those submitted online, should be dropped in the tender box kept for this purpose on or before the specified closing date and time, at the office of USBT, GGSIPU, Sector-16C, Dwarka, New Delhi. Only EMD in the form of FDR, to be paid as detailed in clause 19, along the covering letter, technical bid and all other supporting documents deposited in the Tender Box sealed and marked as specified under clauses 14 and 16 shall be accepted. Bids without EMD will be rejected without any communication thereof.
- 15.2 The envelope named “Technical Bid” shall comprise of all documents as per Clause-16 (Separate bid for each item). All the documents as per the Clause-16 must also be uploaded on the e-procurement site on or before the specified closing date and time of the tender.
- 15.3 Each page of the Technical Bid, supporting document and Tender Document along with all corrigenda, addendum issued, if any, must be sealed and signed by the authorized signatory of the bidder, sealed and submitted as a part of the technical bid. It is the responsibility of the bidder to ensure that all hard copy documents are identical to those submitted online, failing which the bid may be rejected.
- 15.5 The bidders must ensure that they submit their tenders not later than the closing date and time specified for submissions of tenders. In the event of the specified date for physical submission of tender falls on or is declared a holiday or closed day for the office of TIA, the EMD in physical form will be received up to the same time on the next working day; but the date and time of submission of bid at e-procurement site shall remain unchanged.
- 15.6 Conditions other than those laid down in the Tender document will not be entertained.

## 16.0 Eligibility Criteria for Technical Bid

All eligibility documents from clause 16.1 to 16.12 must be uploaded at the e-procurement site and also submitted in hard copy along with the technical bids in the tender box on or before the specified closing date and time. EMD in the form of FDR shall also be deposited in the Tender Box as mentioned at clause 3 above (Section I). The detailed formats for the following documents, to be submitted along with the Technical bids, are made available as Annexures at **Section IV (Annexure – A, A1, A2, and A3 to Annexure E)**:

16.1	Letter of Transmittal	<b>Annexure – A</b>
	Declaration by Bidder	<b>Annexure – A1</b>
	Compliance to Bid Requirement	<b>Annexure – A2</b>
	A declaration by the manufacturer that the item quoted will be new/unused with probable date of manufacture and normal life of the item for which financial bid has been made.	<b>Annexure – A 3on non-judicial stamp paper</b>
16.2	Organizational Structure: - Legal status of the company/ organization with legal proof along with certified copies.	<b>Annexure - B</b>
16.3	Income Tax Return of the last financial year (before tender) with a copy of PAN.	certified copies
	DVAT Registration/TIN Number	
16.4	Annual financial turnover of the bidder quoting each item <b>as per annexure G</b> during the immediate last three consecutive financial years, duly audited, signed & stamped by a Chartered Accountant.	<b>Annexure C</b>
	The bidder should not have incurred losses in more than two years in the last 3 consecutive financial years, duly certified by Chartered Accountant, along with copies of audited profit and loss account of last three years	
16.5	Bidder's experience of supplying at least 3 such items similar to those mentioned in Annexure – G of this tender document, to any Government /private/ Educational or Research Institutes in India during the last 2 years before tender. This should be certified by an authorized officer of the client organization on its letter-head.	<b>Annexure D</b>
16.6	Declaration of fair business practice by the Bidder, including that the bidder has not been blacklisted/debarred by any government/ public sector agency in India in the last 3 years, and is NOT under such status on the bid closing date.	<b>Annexure – E on non-judicial stamp paper</b>
16.7	The bidder must submit compliance report for each of the specifications for the items listed at Annexure-G.	
16.8	The Manufacturer must have an authorized service in India, preferably in Delhi, to honour guarantee/warranty obligations	copy of proof
16.9	Printed and properly circulated catalog with detailed brochure for the quoted items must be submitted along with the tender document	copy of proof
16.10	Comprehensive on-site warranty on the entire equipment for a period mentioned against the item in Annexure G or higher as given by the manufacturer, from the last date of completion/ installation for all the items supplied as certified by the University. The warranty shall be one year in case of UPS, IT peripherals and consumables, unless otherwise specified by the manufacturer for items with short life.	copy of proof
16.11	Documents which are required to be submitted as per clause 13	copy of proof
16.12	Instrument-wise user list& proof of at least 3 installations of the tendered item	copy of proof

## **17.0 Opening of Technical Bids & Evaluation:-**

- 17.1 The details submitted by the bidders will be evaluated in the following manner:
- 17.2 The “initial eligibility criteria” prescribed at 16.1 to 16.12 above, in respect of experience in supplying similar equipment, financial turnover, profitability and valid registration will be first scrutinized.
- 17.3 Examination of the specification of all the items will be done by Technical Committee.
- 17.4 Even a bidder who satisfies the above requirements shall be liable to disqualification if he/she has:-
- 17.5 Made misleading or false representation or deliberately suppressed the material information in the forms, statements and enclosures required in the eligibility criteria document.
- 17.6 Record of poor performance such as abandoning work, not properly completing the contract, or financial failures/weaknesses etc.

## **18 Opening of Financial bid and evaluation:**

After the Technical evaluation of the bids, the University will open the ‘Financial Bids’ of all the bidders who have qualified in the technical evaluation of the specification criteria as per Clause 17.3 and eligibility criteria as per Clause 16, at notified time, date and place, if any. The supply order shall ordinarily be awarded to the lowest responsive bidder who is eligible and best qualified to meet the terms and conditions mentioned in the tender document to the satisfaction of the TIA.

## **19.0 Earnest Money Deposit:**

- 19.1 The Earnest Money Deposit (EMD) must be attached with the technical bid. The Earnest money shall be accepted only as Fixed deposit receipt (FDR) issued in favour of “Registrar, GGSIPU”, payable at Delhi.
- 19.2 Tender(s) without EMD will be summarily rejected. In the case of successful bidder who wins the financial bids, the EMD will be returned after obtaining the required 10% Performance Security in the form of FDR in favour of the “Registrar, GGSIPU”, payable at Delhi. The FDR should be valid for at least 6 months beyond the entire warranty period as specified for each item in Annexure G (or higher), from the date of installation). The successful bidders will provide the Comprehensive Irrevocable on-site Warranty as specified in Annexure G (or higher) from the date of final installation of the product, as detailed in clauses 30 and 34 of this document.
- 19.3 In case of unsuccessful bidders, the EMD will be refunded without any interest.

## **20.0 Financial Bid:**

- 20.1 The bidder shall quote unit item rates in INR/USD/British Pound/Euro etc., as the case may be, both in words and figures in the Financial Bid only. The forex “Reference Rate” of RBI on the date of issuing the tender notice online may be used to calculate the exchange value in INR for goods quoted in foreign currency (for comparison only). No alterations by the bidder shall be permitted in the form of tender, in the schedule of quantities or additions (Financial Bid) etc. In case of difference between the rates of items written in figures and in words, the rates of items written in words shall be taken as correct. No changes in unit rates shall be allowed. The rates quoted in schedule of quantity (Financial Bid) are for finished and completed items and no extra amount for cartage or transporting material, labor etc. shall be paid. The rates should be inclusive of all loads and lifts for all materials for the completed items and also include all taxes, duties, insurance, royalties, packing, handling, assembling, forwarding, freight, installation, commissioning up to the location specified by the buyer. However, a reasonable breakup of the equipment cost, packing/shipping and taxes/duties should be provided, including the total cost upto CIP-Delhi Airport in case of items to be imported. As the university is eligible for customs duty exemption and excise exemption (DSIR certificate etc will be provided by the university as required) the duties/taxes in the financial bid should be calculated by the bidder accordingly. The rates of the items supplied by the bidder through the local market in India must be quoted in INR only. The bidder is entirely responsible for supervision of the handling of the equipment during transit till installation and the university will not accept any liability for any damage, loss, etc. for any reason.



### **Section III**

## **Conditions of Contract**

#### **21.0 General:**

- 21.1 All information called for in the enclosed forms should be furnished against the relevant places in the forms. If for any reason, information is furnished on a separate sheet, this fact should be mentioned against at the relevant place. Even if no information is to be provided in a column, a “Nil” or “No Such Case” entry should be made in that column. If any particular/query is not applicable in case of the bidder, it should be stated as “not applicable”. The bidders are cautioned that incomplete information called for in the tender document or deliberate suppression of any information may result in the bid being summarily disqualified. Bids received after the expiry of the stipulated date and time mentioned in the tender document will not be entertained.
- 21.2 The bid document should be legibly written and serially numbered with proper tagging and binding. The bidder should sign each page of the bid.
- 21.3 Overwriting should be avoided. Correction, if any, should be made by neatly crossing out, initialing with date and rewriting. Pages of the eligibility criteria document are to be numbered. Additional sheets, if any added by the bidder, should also be numbered. Bid should be submitted as a package with signed letter of transmittal.
- 21.4 References, information and certificates from the respective clients certifying suitability, technical knowledge or capability of the bidder should be signed by officer of the client organization with name & designation.
- 21.5 The bidder may furnish any additional information which he thinks is necessary to establish his capabilities to successfully complete the envisaged work. He is, however, advised not to furnish false or superfluous information. No information shall be entertained after submission of tender document unless it is called for by the University.
- 21.6 Any information furnished by the bidder found to be incorrect either immediately or at a later date, would render him liable to be debarred from tendering/taking up of any work in GGSIPU, which may also result in forfeiture of EMD/performance security as the case may be and the cancellation of the purchase/work order as the case may be.
- 21.7 The successful bidder shall have to work in co-ordination and co-operation with any other agencies appointed by the University to work simultaneously in the same or adjoining area. The decision of the University in case of any dispute between the different agencies appointed by the University shall be final and a binding.
- 21.8 Income tax, Works Contract Tax and any other tax at the rates in force during the progress of contract/ award of work that will be in force from time to time shall be recovered / deducted from the released payment amount.
- 21.9 Sales Tax, Works contract tax, purchase Tax, turnover tax or any other tax on material applicable on the date of submission of bid in respect of this contract shall be payable by the supplier and University will not entertain any claim whatsoever in respect of the same. The supplier should be registered with Delhi VAT Department and carry a valid Tax Identification number issued by it. The goods, including for works contract shall be supplied by bidder or its authorized distributor in Delhi and against a sale invoice issued from Delhi. D-VAT shall be deducted at source from the bill amount of other qualifying bidders.
- 21.10 The bidder shall have to make his own arrangement at no extra cost to the University for water Supply & Installation, sanitation and electric Supply & Installation etc. at the site of work.

- 21.11 On acceptance of the tender, the name of the accredited representative(s) of the bidder who would be responsible for taking instructions from the University shall be communicated in writing to the Registrar.
- 21.12 The bidder shall furnish a list of University employees related to him, if any in the “Technical Bid”.
- 21.13 If the bidder shall obtain a contract with GGSIPU as a result of wrong tendering or other non-bonafide methods of competitive tendering, the University reserves the right to terminate the contract without any liability to the supplier, which may also result to forfeiture of EMD/performance security.
- 21.14 Without prejudice to any of the rights or remedies under this contract if the supplier dies, the University shall have the option of terminating the contract without compensation to the legal heir of the contractor.
- 21.15 Escalation: Increase in rates of material / labour shall not be payable on any account. Price quoted shall be firm and no escalation will be allowed on any account.

## **22.0 Scope of Works**

The Scope of work shall consist, Supply & Installation, erection and placing in position at site, complete in all respects, and its maintenance during warranty period for items mentioned at Annexure-G as per specification given under Section V

### **22.1 Specification for Work and Quality**

The procurement of various materials shall be either from the manufacturers or their main authorized dealers to ensure that no duplicate/spurious makes are used in the works. The entire work shall be governed by comprehensive unconditional on-site warranty for a period specified for each item in Annexure G (or higher) against defective material/performance with a liability of repair/replacement to the satisfaction of the University.

### **22.2 Safety and Security**

Safety and Security of workers/staff, material, equipments, etc. will be the responsibility of the supplier. The TIA will not be held responsible on this account

22.3 The TIA reserves the right, without being liable for any damages or obligation to inform the bidder, to:

- (a) Amend the scope and value of contract to the bidder.
- (b) Reject any or all the applications without assigning any reason.

22.4 Any effort on the part of the bidder or his agent to exercise influence or to pressurize the University would result in rejection of his bid. Canvassing to any kind is prohibited.

## **23.0 Final decision making authority**

The TIA reserves the right to accept or reject any bid and to annul the process and reject all bids at any time, without assigning any reason or incurring any liability to the bidders. No claim whatsoever will be entertained / paid by the university to the bidder (s).

## **24.0 Summary Rejection of tender:**

24.1 The tenders not accompanied with Earnest Money Deposit shall be summarily rejected. Similarly, if the bidder proposes any alternation in or additions to the prescribed form of tender or decline to carry out any work of the tender document; or any conditions mentioned, etc., his tender is liable to be rejected.

## **25.0 Particular provisions**

25.1 The University reserves the right to execute the work or reject the tender without assigning any reason or incurring any liability to the bidder.

25.2 The University has the power to make alteration in, omission from, addition of or substitution for the original specifications, drawings, designs.

**27.0 Amendment of tender document:**

27.1 Before the deadline for submission of tender, the University may modify the tender document by issuing addenda.

27.2 Any addendum thus issued shall be a part of the tender document and shall be uploaded on the e-procurement website ([www.govtprocurement.delhi.gov.in](http://www.govtprocurement.delhi.gov.in)). Prospective bidders must visit the website before filling and submission of Tender Document for such information.

**28.0 Validity of Tender:**

**One hundred and Eighty days** from the date of opening of **Financial Bid** of the tender. During this period no bidder shall be allowed to modify/withdraw his tender. In case of withdrawal, the EMD submitted by the bidder shall be forfeited and no claim shall be entertained in this regard.

**29.0 Performance Guarantee:**

29.1 The successful bidder shall be required to furnish a Performance Guarantee of 6% of the total tendered value after successful installation of the product at site. The Performance Guarantee shall only be accepted in the form of a Fixed deposit receipt (FDR) of a nationalized bank in favor of “Registrar, GGSIPU”, payable at Delhi. It should be valid for at least 6 months beyond the entire period of comprehensive on-site warranty as specified in Annexure G (or higher as quoted), unless specified otherwise in Annexure G.

29.2 Performance Guarantee will be refunded after completion of the warranty period as per clause 30.

29.3 In case of non-submission of Performance Guarantee within specified time, the earnest money will be forfeited and the University may consider to black list/de-bar the bidder.

29.4 In case a fixed deposit receipt/ Bank Guarantee of any bank is furnished by the bidder to the University as part of the Performance Guarantee and the Bank is unable to make payment against the said instrument, the loss caused thereby shall fall on the bidder and the bidder shall forthwith on demand furnish additional security to the University to make good the deficit.

**30.0 Warranty**

Comprehensive on-site warranty on the entire equipment for a period specified in Annexure G or higher as given by the manufacturer, whichever is longer, from the last date of completion/ installation for all the items supplied as certified by the University. The comprehensive warranty shall be one year in case of UPS, IT peripherals and consumables, unless otherwise specified by the manufacturer for items with short life. The comprehensive warranty shall cover all the parts of the entire equipment and the bidder/supplier shall replace any defective part of the product supplied or its accessories, without any exception and recourse, free of cost. The bidder is responsible for all packing, unpacking, assembly, installation of the equipment as well as for its testing, calibration, service, repair and maintenance, as well as for the provision of loan replacement with another working instrument during the repair of the purchased instrument for successful and continuous operation of the products supplied during the warranty period, totally free of cost.

**31.0 Duration**

The ordered items covered under this tender are required to be delivered and installed in the University Campus at Sector 16C, Dwarka, and New Delhi **within 60 days**, as specified in delivery schedule submitted by bidder.

### **32.0 Payment Terms**

- 32.1 In case of foreign suppliers, the payment shall be made through Sight Draft or 100% irrevocable & confirmed Letter of Credit (L.C.) to be opened in the bank at the discretion of the university. In either case, the performance guarantee should be deposited within 15 days of the issue of the purchase order. LC will be opened on 100% value of equipment on FOB value and 90% shall be released on presentation of complete and clear shipping documents. Rest 10% will be released only after satisfactory installation and commissioning of the equipment. However, in case of bidder supplying indigenous goods or already imported goods, the payment will be released only after complete installation, training and receipt of performance guarantee of the product. The bidder should have Delhi VAT certificate at the time of supply and invoices must be issued with D-VAT for payment. For companies not registered under D-VAT, the amount of D-VAT will be deducted at source (TDS) as per the Delhi Government order no-F.3(654)/Policy/VAT/2016/1800-1802 dated 28/3/2016 under the provisions of section 36A of DVAT Act, 2004) and only the rest of the payment will be made.
- 32.2 Each invoice should be submitted in duplicate, clearly specifying contact no, goods description, quantity, unit price, total amount along with warranty certificate, etc.
- 32.3 No advance payment will be made under any circumstances.

### **33.0 Penalty for any delay OR non-supply**

- 33.1 If the bidder fails to Install the Equipment within the period specified in the Purchase Order, University shall without prejudice to its other remedies under the Purchase Order, deduct from the contract price, as liquidated damages, a sum equivalent to 1% (one percent) of the contract price of the delayed goods weekly or part thereof of delay until actual delivery. The penalties will be maximum of 10% of the contract amount / awarded value. In case of non-supply, EMD will be forfeited.
- 33.2 In case of extraordinary delay or beyond 30 days of stipulated delivery period, University reserves the right to terminate the contract, without any liability to cancellation charges, forfeit/en-cash the submitted EMD/Performance Guarantee and blacklist/debarred the defaulting firm.

### **34.0 Services during warranty period**

- 34.1 The maximum response time for maintenance complaint during warranty period (i.e. time required for bidder's maintenance engineer to report at the installation site after a service call/email/ letter shall not exceed 05 working days.
- 34.2 The maximum period for repair and complete restoration during the warranty period shall be 30 calendar days from the date of service call/email.
- 34.3 If the repair of an equipment takes beyond 15 calendar days, the supplier will be required to arrange for an immediate loan replacement with a working equipment at his own cost. The total downtime of the equipment shall not exceed 30 calendar days under any circumstances.
- 34.4 In case the rectification of defects and complete restoration or replacement is not carried out within 30 calendar days, a penalty of sum equivalent to 3% per week of the delivered price of that defective item(s) shall be levied till the performance guarantee is exhausted.

### **35.0 Packing and Marking**

- 35.1 All packing should be strong enough to withstand rough handling during loading/ unloading and transporting. Fragile articles should be packed with special note of precaution and should bear the marking like fragile, handle with care, this side up etc.

### **36 Substitution and Wrong Supplies**

Unauthorized substitution or materials delivered in error of wrong description or quality or supplied in excess quantity or rejected goods shall be returned to the contractor at contractor's cost and risk. Any supply of wrong or non-conforming material shall be treated as no supply and period until which proper supply is done, shall be treated as a period of delay for the purpose of penalty under clause 33.

- 36.1 Vender shall be liable for any loss caused to the University due to delayed, wrong or non-conforming supplies in addition to the penalty imposed under clause 33.

**37.0 Insurance, Freight and Deliveries**

- 37.1 The supplier shall make his own arrangements towards safe and complete delivery including insurance, freight, state level permits etc. as applicable at the designated locations indicated by University in the Purchase Order. However additional actual cost toward applicable custom duty against exemption certificate, local freight, and transportation from Airport to GGSIP University shall be borne by the University but the handling the product under the guidance/supervision by the manufacturer supplier.

- 37.2 The supplier will keep University informed about changes, if any, in various stages of deliveries, installation.

**38.0 Arbitration and Settlement of Disputes:**

- 38.1 Any dispute or differences whatsoever arising between the parties out of or relating to the manufacturing, meaning, scope, operation or effect of this contract or the validity or the breach thereof shall be settled by arbitration in accordance with the provisions of the Arbitration & Conciliation Act, 1996 and the award given by sole arbitrator shall be final and binding upon the parties. The sole arbitrator shall be appointed by the Vice Chancellor, GGS Indraprastha University and it shall be no ground to contest the award on the ground that the arbitrator is an employee of University.

- 38.2 The performance under this contract shall not stop for any reason whatsoever during the said dispute/proceedings, unless the contractor is specifically directed by University to desist from working in this behalf.

- 38.3 The venue of arbitration shall be Delhi/ New Delhi. The language of proceedings shall be English. The Law governing the substantive issues between the parties shall be the Laws of India. All disputes are subject to the jurisdiction of the Delhi Courts only

- 38.4 Any fees are payable to the arbitrator, these shall be shared equally by both the parties. It is also a term of the contract that the arbitrator shall be deemed to have entered into the reference on the date he issues notice to both the parties calling them to submit their statement of claims and counter statement of claims as the case may be.

- 39.0 **Force Majeure** For purpose of this Clause, Force Majeure shall mean fires, floods, natural disasters or other acts, that are unanticipated or unforeseeable, and not brought about at the instance of the party claiming to be affected by such event, or which, if anticipated or foreseeable, could not be avoided or provided for, and which has caused the non-performance or delay in performance, such as war, turmoil, strikes, sabotage, explosions, quarantine restriction beyond the control of either party. A party claiming Force Majeure shall exercise reasonable diligence to seek to overcome the Force Majeure event and to mitigate the effects thereof on the performance of its obligations under this Supply Order.

If a Force Majeure situation arises, the supplier shall promptly notify the University in writing of such conditions and the cause thereof. Unless otherwise directed by the University in writing, the Supplier shall continue to perform its obligations under the Purchase Order as far as it is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

**Section IV**  
**Information regarding Technical Eligibility**  
**(Annexure A, A1, A2, A3 to E)**

**(Separate information for each item of tender may be given)**

**LETTER OF TRANSMITTAL**

From:

\_\_\_\_\_  
\_\_\_\_\_

To

**The Registrar**

GGSIU

Sector 16C, Dwarka,

Delhi

Sub: Submission of Tender Document for the work of “**Supply and Installation of Lab Equipment for UNIVERSITY SCHOOL OF BIO TECHNOLOGY**” at GGSIPU Campus, Sector 16C, Dwarka, New Delhi”.

Sir,

Having examined the details given in Tender document for the above work, I/we hereby submit the relevant information:-

1. I/we hereby certify that all the statement made and information supplied in the enclosed annexure / forms accompanying statement are true and correct.
2. I/we have furnished all information and details necessary for eligibility and have no further pertinent information to Supply & Installation.

Name & Signature(s) of Bidder(s) with seal

**DECLARATION BY THE BIDDER**

We \_\_\_\_\_ (Name of the Bidder) hereby represent that we have gone through and understood the Bidding Document (which in two parts) in Part-I (Commercial Section & Technical Section) and Part-II (Schedule of Quantities) and that our Bid has been prepared accordingly in compliance with the requirement stipulated in the said documents.

We are submitting a copy of Bidding Document marked “Original” as part of our Bid duly signed and stamped on each page in token of our acceptance. We undertake that Part-I and Part-II of the Bidding Document shall be deemed to form part of our bid and in the event of award of work to us, the same shall be considered for constitution of Contract Agreement. Further, we shall sign and stamp each page of this Part-I and Part-II as a token of Acceptance and as a part of the Contract in the event of award of Contract to us.

We further confirm that we have indicated prices in Schedule of Quantities and submitted in Price Bid in separately sealed envelope. We confirm that rate quoted by us includes price for all works/activities/supply etc. as mentioned in item description of the items in Schedule of Quantities.

**SIGNATURE OF BIDDER** : \_\_\_\_\_

**NAME OF BIDDER** : \_\_\_\_\_

**COMPANY SEAL** : \_\_\_\_\_

**Note** :This declaration should be signed by the Bidder’s representative who is signing the Bid.



**COMPLIANCE TO BID REQUIREMENT**

We hereby agree to fully comply with, abide by and accept without variation, deviation or reservation all technical, commercial and other conditions whatsoever of the Bidding Documents and Addendum to the Bidding Documents, if any, for subject work issued by GGSIPU.

We hereby further confirm that any terms and conditions if mentioned in our bid (Un-priced as well as Priced Part) shall not be recognized and shall be treated as null and void.

**SIGNATURE OF BIDDER** : \_\_\_\_\_

**NAME OF BIDDER** : \_\_\_\_\_

**COMPANY SEAL** : \_\_\_\_\_

**DECLARATION BY THE BIDDER**

**(on non-judicial stamp paper)**

We \_\_\_\_\_ (Name of the Bidder) hereby declare that the lab item for which we have quoted our price in the Financial Bid would not be an item used so far for demo/any other purposes and will be unused (brand new).

The item was/will be manufactured on/in (date/month/year).

The normal usable life of the item quoted is \_\_\_\_\_ years.

We undertake to provide spares and service support for at least five years from the date from which the item is declared obsolete, should it ever happen during the life of the equipment.

**SIGNATURE OF BIDDER** : \_\_\_\_\_

**NAME OF BIDDER** : \_\_\_\_\_

**COMPANY SEAL** : \_\_\_\_\_

**Note:** This declaration should be signed by the Bidder's representative who is signing the Bid.

**ORGANISATION STRUCTURE**

1. Name & Address of the Bidder :
  
2. Telephone No. /Fax No. / e-mail :
  
3. Legal status of the Bidder (attach copies of original document defining the legal status)
  - a) An Individual
  - b) A proprietary firm
  - c) A firm in partnership
  - d) A limited company or Corporation
  - e) A Public Sector Undertaking
  
4. Particulars of registration with various Government Bodies Organization /Place of registration  

Registration No
5. A. PAN No. -----  
B. DVAT No. -----  
C. Service T No. -----
  
6. Names and Titles of Directors & Officers with designation to be concerned with this work. :
  
7. Name & Designation of individuals authorized to act for the organization: (Pl attach power of attorney in favor of authorized representative duly signed by authorized signatory)
  
8. Has the Bidder ever required to suspend work for a period of more than six months continuously after you commenced the business? If so, give the name of the project and reasons of suspension of work. :
  
9. Has the Bidder, or any constituent partner in case of Partnership firm, ever abandoned the awarded work before its completion? If so, give name of the project and reasons for abandonment. :
  
10. Has the Bidder, or any constituent partner in case of Partnership firm, ever been debarred/ black listed for tendering in any organization at any time? If so, give details. :
  
11. Has the Bidder, or any constituent partner in case of Partnership firm, ever been convicted by a court of law? If so, give details. :
  
13. Any other information considered necessary but not included above. :

**SIGNATURE OF BIDDER** : \_\_\_\_\_

**NAME OF BIDDER** : \_\_\_\_\_

**COMPANY SEAL** : \_\_\_\_\_

**DETAILS OF ANNUAL TURNOVER**

**A. FINANCIAL DETAILS**

<b>Financial Years</b>	<b>Gross Annual Turnover (In Lakhs)</b>	<b>Profit/Loss (In Lakhs)</b>
2015-2016		
2014-2015		
2013-2014		

**B. Audited balance sheet and profit & loss account for above three years to be submitted. Must be attested by the Chartered Accountant.**

**Signature & stamp by Chartered Accountant**

**SIGNATURE OF BIDDER** : \_\_\_\_\_

**NAME OF BIDDER** : \_\_\_\_\_

**COMPANY SEAL** : \_\_\_\_\_

**DETAILS OF SUPPLY OF LAB ITEMS  
(similar to the item mentioned in Annexure G)  
IN THE LAST THREE YEARS**

S.N o.	POSTAL ADDRESS OF CLIENT WITH CONTACT NUMBERS	ORDER DATE	SCHEDULED INSTALLATION DATE	ACTUAL INSTALLATION DATE	REASONS FOR DELAY, IF, ANY

**SIGNATURE OF BIDDER** : \_\_\_\_\_

**NAME OF BIDDER** : \_\_\_\_\_

**COMPANY SEAL** : \_\_\_\_\_

**DECLARATION FOR FAIR BUSINESS BY THE BIDDER**

This is to certify that We, M/s \_\_\_\_\_ in submission of this offer confirm that:-

- i) We have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements;
- ii) We do not have records of poor performance such as abandoning the work, not properly completing the contract, inordinate delays in completion, litigation history or financial failures etc.
- iii) Business has not been banned with us by any Central / State Government Department/ Public Sector Undertaking or Enterprise of Central / State Government.
- iv) We have submitted all the supporting documents and furnished the relevant details as per prescribed format.
- v) The information and documents submitted with the tender by us are correct and we are fully responsible for the correctness of the information and documents submitted by us.
- vi) We understood that in case of any statement/information/document furnished by us or to be furnished by us in connection with this offer is found to be incorrect or false, our EMD in full will be forfeited and business dealings will be banned.
- vii) We have not been punished / penalized by way of imprisonment in last three years.
- viii) We have not been blacklisted/debarred by any Government/Public Sector Agency in last three years and are NOT under such status on the bid closing date.

**SIGNATURE OF BIDDER** : \_\_\_\_\_

**NAME OF BIDDER** : \_\_\_\_\_

**COMPANY SEAL** : \_\_\_\_\_

## **CHECK LIST FOR SUBMISSION OF BID**

Bidder is requested to fill this check list and ensure that all details/documents have been furnished as called for in the Bidding Document along with duly filled in, signed & stamped checklist **with each copy of the "Un-priced bid (Part – I)"**.

**Please tick the box and ensure compliance:**

- 1        EMD
- 2        Bid Forwarding Letter
- 3        Power of Attorney in favor of the person  
          who has signed the bid on stamp paper of  
          appropriate value.
- 4        Partnership Deed in case of partnership firm and  
          Article of Association in case of limited company.
- 5        Compliance to Bid Requirement
- 6        Declaration by the bidder
- 7        All pages of the bid have been page numbered in sequential manner.
- 8        Annexure(s) – A, A1, A2, A3 to E
- 9        Valid, PAN, DVAT, Service Tax, Excise Registration

**SIGNATURE OF BIDDER**        : \_\_\_\_\_

**NAME OF BIDDER**                : \_\_\_\_\_

**COMPANY SEAL**                    : \_\_\_\_\_

**Form of Performance Guarantee  
Bank Guarantee Bond**

1. In consideration of the GGSIPU (hereinafter called “The University”) having offered to accept the terms and conditions of the proposed agreement between ----- and ----- (hereinafter called “the said Contractor(s)”) for the work ----- (hereinafter called “the said agreement”) having agreed to production of a irrevocable Bank Guarantee for Rs.----- -- (Rupees ----- only) as a security/guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and condition in the said agreement. We, ----- (indicate the name of the Bank) ----- (hereinafter referred as “the Bank”) hereby undertake to pay to the University an amount not exceeding Rs.----- (Rupees ----- only) on demand by the University.
2. We, -----(indicate the name of the Bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demure, merely on a demand from the University stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.----- (Rupees ----- only).
3. We, the said bank further undertake to pay the University any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the Contractor(s) shall have no claim against us for making such payment.
4. We, -----(indicate the name of the Bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the University under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Project-in-Charge on behalf of the University certified that the terms and conditions of the said agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.
5. We, -----(indicate the name of the Bank) further agree with the University that the University shall have the fullest liberty without our consent and without affecting in any manner our obligation hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the University against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act of omission on the part of the University or any indulgence by the University to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).
7. We, -----(indicate the name of the Bank) lastly undertake not to revoke this guarantee except with the previous consent of the University in writing.
8. This guarantee shall be valid upto ----- unless extended on demand by the University. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs.----- -- (Rupees ----- only) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged.

Dated the ----- day of ----- for ----- (indicate the name of the Bank)



**SECTION V**

**Annexure-G**

**TECHNICAL SPECIFICATIONS**

S.No.	Specification/ Description	Qty.	EMD Amount In Rs.
1	<p><b>Water Purification system:</b></p> <p><b>Type I</b></p> <ol style="list-style-type: none"><li>1. Type I ultrapure water system backed by a RO unit (220V, 50 Hz) that also delivers storable type II water output with a recovery rate of 30-40 %</li><li>2. Supply and installation of complete system with softener/ prefilters suitable for tap water feed up to 1400-1600 TDS</li><li>3. Ultrapure water output rate of &gt;1 litre/min</li><li>4. Conductivity &lt;0.06 µS/cm</li><li>5. Resistivity of &gt;18.2 megaohm-cm</li><li>6. TOC levels &lt;5 ppb</li><li>7. Bacteria &lt;1 CFU</li><li>8. Endotoxins &lt;0.001 EU/ml</li><li>9. DNase/RNase free and particulates (above 0.22µ) &lt;1/ml</li></ol> <p><b>Type II</b></p> <ol style="list-style-type: none"><li>10. Type II water system based on EDI/RO technology having output rate of &gt;20 litre/hr</li><li>11. Storage tank (made up of bleaching proof material) capacity 80-100 litre</li><li>12. Conductivity &lt;2 µS/cm</li><li>13. Resistivity &gt;5 megaohm-cm</li><li>14. Sodium &lt;5ppb</li><li>15. Chloride &lt;5ppb</li><li>16. Silicates &lt;5 ppb</li></ol> <p>NOTE:</p> <ul style="list-style-type: none"><li>➤ Compact system with demineralizer/softener, prefilter, UV, ultrafiltration, dispenser, control unit and display of working status, water purity parameters, temperature, diagnostics, cartridge life etc.</li><li>➤ Unconditional comprehensive on-site Warranty of at least 3 yrs</li><li>➤ Spare price list and AMC and CMC rates for post warrant period</li><li>➤ Should supply TDS and Conductivity meter to monitor water quality</li><li>➤ Company should have annual financial turnover of at least 9 lakhs during last three years.</li><li>➤ User list and certificate from at least 5 users</li></ul>	1	7500
2	<p><b>Nano/Micro volume UV-Vis Spectrophotometer</b></p> <ol style="list-style-type: none"><li>1. Sample capacity to cover the range of 1 µL to 1 ml (DNA, RNA, protein)</li><li>2. Provision for cuvette measurement</li><li>3. Powerful light source for complete UV/Vis range (200-700 nm)</li><li>3. Wavelength accuracy ± 1 nm</li><li>3. Spectral resolution under 2 nm or lower</li><li>4. Optical path length of 0.030 to 1.0 mm</li><li>6. Absorbance range of at least 0-30A for pedestal and 0-1.5A for cuvette</li><li>7. Absorbance accuracy ± 3% max in UV range</li></ol>		10,000

	8. Reproducibility 0.002 A 7. Detection range at least 2-15000 ng/μl for ds DNA; 100 μg/ml for BSA 8. Microprocessor controlled, with internal storage memory in GB range 9. USB/data interface for data transfer, 10. Accessories, calibration standards and startup kit for estimation of DNA/RNA/protein. 11. Should supply standards to calibrate the instrument during warranty 12. At least 3 yr of unconditional, comprehensive warranty on-site 13. Spare price list and AMC and CMC rates for post warrant period 14. Company should have annual financial turnover of at least 12 lakhs during last three years. 15. User list and certificate from at least 5 users		
<b>3</b>	<b>Refrigerated Incubator Shaker</b> <ol style="list-style-type: none"> <li>1. External dimension: W 650-850 x D 550-1200 x H 650-1300mm</li> <li>2. Internal dimension: W 600-800 x D 500-800 x H 500-800mm</li> <li>3. Volume: &gt;150L</li> <li>4. Construction material: Rust/corrosion free steel body with SS cabin</li> <li>5. Temperature range and accuracy: 5-60± 0.5°C</li> <li>6. Temperature uniformity: ± 1°C</li> <li>7. Temperature controller: Microprocessor PID</li> <li>8. Temperature sensor: PT-100 sensor</li> <li>9. Shaking: Universal spring rack platform with at least 50 to 250 rpm</li> <li>10. Door open sensor: Sensor to stop shaking when door is open.</li> <li>11. Platform flask holding capacity: Conical flasks of 50ml, 125ml, 250ml, 500ml, 1-5 litres &amp; test tubes.</li> <li>12. Additional rack/shelf : Removable sliding shelf/rack for plates</li> <li>13. Additional power socket: 220 V source in the cabin for external device</li> <li>14. Display: Digital display of Temp, RPM,</li> <li>15. Light with timer: PAR of at least 600 μmoles/m<sup>2</sup>/s</li> <li>16. Safety Devices and Alarm: Short circuit breaker, over heat protector, compressor/weight over load protector, compressor delay start and defrost timer, sensor abnormality, self-anomaly detection</li> <li>17. Auto-Restart : Auto resume in case of Power failure</li> <li>18. Noise: Under 70 db</li> <li>19. Warranty : 4 yrs</li> <li>20. Spare price list and AMC and CMC rates for post warrant period</li> <li>21. Suitable Voltage stabilizer: Servo</li> <li>22. Service: Within three days from the date of complaint</li> <li>23. ISO certified Manufacturer: Yes</li> <li>24. Performance certificate : User list and certificate from at least 5 users</li> <li>25. Company should have annual financial turnover of at least 9 lakhs during last three years.</li> <li>26. User list and certificate from at least 5 users</li> </ol>		7500
<b>4</b>	<b>Green House:</b> <ol style="list-style-type: none"> <li>1. Size: At least 300 sq feet area (L20ftxW15 ft) with 60% working area and suitable minimal height not below 8 ft</li> <li>2. Structure: Made of prefabricated ISI marked GI square pipes: 50 x 50 mm</li> <li>3. Cladding: with UV stabilized anti-fog, poly carbonate sheet of at least 6 and 10 mm thickness</li> <li>4. Cladding fixing material: All ends/ joints of plastic films need to be fixed with two way Aluminum profiles with suitable locking arrangement.</li> <li>5. Control Panel for sensing, display and regulation of temperature, humidity, timer and photoperiodic lighting system with manual and</li> </ol>		22,500

	<p>automatic power off on reaching limits and malfunction alarm.</p> <ol style="list-style-type: none"> <li>6. Electric Fitting: Complete electrical wiring of green house with copper wire, MCB, light/ power points as per requirement</li> <li>7. Lighting: Warm white LED (PAR) Lighting system close to natural condition (at least 700 micromoles) with photoperiodic programming</li> <li>8. Cooling/ Heating system to maintain temperature at 20 C in Delhi during peak summer and 30 C in Delhi during peak winter ( <b>cooling- evaporation system</b>)</li> <li>9. Work Bench/ Platforms of height 2.5 ft, made of GI sq. pipe 25x 25mm with GI 15x15 mm sq. pipe @ distance of 1 inch to cover the entire work area</li> <li>10. Ultrasonic humidifier and dehumidifier to maintain the humidity 65-70% throughout year.</li> <li>11. Measurement range for temperature, light and humidity: 15 – 50 ± 1, PAR and 50- 85%.</li> <li>12. Doors: 2, 6ft x 3ft-3” Lockable Door made up of anodized Al.</li> <li>13. Pre Entry Room: Of size 5’ x 4’ x 8’ with separate door and downward airflow facility</li> <li>14. Floors: Anti slippery user cleanable tiles</li> <li>15. Walls: Bricks wall: With FPS bricks in 1:4 CM, all side of the Green House 1.5 feet above GL and 1.50 feet below earth surface, 9 inches thick with Plaster: 12mm thick in 1:4 CM (1 cement, 4 fine sand)</li> <li>16. Service: Within 3 days from the date of complaint.</li> <li>17. Water system: Good quality water (RO) facility for humidifier with minimum 50 liter capacity, Proper Inlet and outlet system and automatic adjustment with proper drainage system</li> <li>18. A wash basin with water tap must be present.</li> <li>19. Rollable green setting net must be provided at the roof and side walls to prevent from excessive light and temperature.</li> <li>20. At least two no. of window must be provided for cross ventilation of air in case of failure of electricity, window must be protected with 40x40 SS mash.</li> <li>21. Warranty : 3 yrs</li> <li>22. Spare price list and AMC and CMC rates for post warrant period</li> <li>23. Company should have annual financial turnover of at least 27 lakhs during last three years.</li> <li>24. User list and certificate from at least 5 users</li> </ol>		
5	<p><b><u>Photosynthesis System with Chlorophyll Fluorescence</u></b></p> <ol style="list-style-type: none"> <li>1. System should have highly accurate 4 channel Infra-Red Gas Analyzer</li> <li>2. System should have built-in display with well readable in direct sunlight.</li> <li>3. H<sub>2</sub>O measurement range : 0 to 75 mb OR mmol with better precision/ resolution/ accuracy</li> <li>4. CO<sub>2</sub> measurement range : 0 to 2000 µmol with better precision/ resolution/ accuracy</li> <li>5. CO<sub>2</sub> Injector : Range 0 to 2000 µmol with better life time</li> <li>6. H<sub>2</sub>O Control : Range 0 to Dew point OR 100%</li> <li>7. Air pressure : Range 60 to 110 kPa</li> <li>8. System Memory :64 MB or more</li> <li>9. Temperature control facility : To set for Leaf Chamber/ leaf temperature</li> <li>10. With range of ± 6 °C from ambient or better</li> <li>11. Light Control : Red and Blue LEDs with range 0 to 2000 µmol m<sup>-2</sup> 2<sup>-1</sup> PAR max</li> <li>12. Temperature Sensor :For Ambient Air, Leaf &amp; Cuvette Chamber with range 0 to +50°C with high accuracy</li> </ol>		60,000

	<ol style="list-style-type: none"> <li>13. PAR Internal and External Chamber Sensors : Range 0 to 2000 <math>\mu\text{mol m}^{-2} \text{ s}^{-1}</math> with high accuracy</li> <li>14. Air flow : 0 to 700 <math>\mu\text{mol s}^{-1}</math> OR better</li> <li>15. Leaf area for measurement : Broad leaf Area as standard supply, with facility of easily changeable small Leaf Area Chamber/adaptor</li> <li>16. Measuring light &amp; detection : Red/Blue measuring light with PIN-photodiode detector</li> <li>17. Leaf area for fluorescence measurements : should be of same leaf Area(measured for photosynthesis)</li> <li>18. Should supply standards to calibrate the instrument during warranty</li> <li>19. Warranty : 3 yrs</li> <li>20. Spare price list and AMC and CMC rates for post warrant period</li> <li>21. Company should have annual financial turnover of at least 70 lakhs during last three years.</li> <li>22. User list and certificate from at least 5 users</li> </ol> <p><b>Note:</b> All necessary accessories should be included so that the equipment is ready to use.</p>		
6	<p><b><u>Plant Growth Chamber</u></b></p> <ol style="list-style-type: none"> <li>1. External dimension: (W×D×H) mm: 1300-1400 × 1400-1500 × 1300-1700</li> <li>2. Internal dimension: (W×D×H) mm: 1200-1300 × 900-1000 × 1200-1600</li> <li>3. Maximum growth height: Not less than 115 cm</li> <li>4. Working area: At least 12 Sq.ft.</li> <li>5. Volume (Liters): 1300-2000 litres</li> <li>6. Temperature (Lights On): 10°C to 40°C ± 1°C.</li> <li>7. Temperature (Lights Off): 5°C to 40°C ± 0.5°C.</li> <li>8. Humidity range with lights on- ambient to 90% ±3%.</li> <li>9. Humidifier should be automated and supported by water tank, cut off device for low water level, audio visual alarm.</li> <li>10. Adjustable top-mounted PAR lighting with peak intensity over 600 (<math>\mu\text{moles/m}^2/\text{s}</math>) with mixture of white, warm white infrared LED lights.</li> <li>11. Microprocessor based programmable timer to control intensity of tubes through eight or more programs to mimic variation in natural sun light.</li> <li>12. Tiers/shelves: Three adjustable sliding tiers/shelves with separate lights as above. Each tray should bear total pot weight of 60-75 kg.</li> <li>13. Construction: Body made of rust-free and corrosion-free material.</li> <li>14. The supplier should provide suitable steel mounts and fittings to place the instrument in a cavity in the wall at the end of the corridor.</li> <li>15. Control system: Microprocessor based programmable colored LCD touch screen panel (HMI) with Temp. control Humidity control, RTC, Timer &amp; data logging facility in both table &amp; graph format. Data print out in both table &amp; graph format through PC. With high &amp; low alarm facility. Complete with software and at least 35 programmes.</li> <li>16. PUFF Insulation.</li> <li>17. Auto resume/restart function in case of power failure.</li> <li>18. Should have temperature and humidity sensors.</li> <li>19. Warranty: At least 5 years comprehensive on-site, free software forever.</li> <li>20. Spare price list and AMC and CMC rates for post warrant period</li> <li>21. Data logger and provision for software upgrades.</li> <li>22. Should have delay-start protection for compressor.</li> <li>23. Suitable servo stabilizer (mention price separately) and water tank.</li> <li>24. Service: Within three days from the date of complaint.</li> <li>25. Safety and Convenience: Over temperature and current protection, user safety, adjustable sliding rack, water level sensor should be standard.</li> </ol>		20,000

	<ul style="list-style-type: none"> <li>26. Automatic malfunction check and warning/alarm.</li> <li>27. Technical specs, service manual, wiring/circuit diagram, spares price list.</li> <li>28. Gradual change in light intensity during lamp on/off to avoid plant stress</li> <li>29. Performance: should maintain uniform temperature and humidity throughout with silent performance.</li> <li>30. Should have air diffusion system</li> <li>31. Buyback offer for growth chamber of KHERA INSTRUMENTS PVT. LTD.</li> <li>32. User list with phone number and performance certificate with at least three installations in Delhi.</li> <li>33. CE Certified.</li> <li>34. Company should be ISO, WHO-GMP Certified.</li> <li>35. Company should be MSME &amp; NSIC Registered (in case of Indian Manufacturer)</li> <li>36. Company should have annual financial turnover of at least 27 lakhs during last three years.</li> <li>37. User list and certificate from at least 5 users</li> </ul>		

**SECTION VI**

**Annexure-H**

**FINANCIAL BID**

**SUPPLY AND INSTALLATION OF LAB EQUIPMENT FOR USBT**

S. No.	Description	Qty.	Equipment Unit cost as per tender specifications (specify currency <sup>a</sup> )	Packing/ Forwarding/ Freight, Insurance, any other Charges (Specify)	Buyback offer for exchange of Old Khera Plant Growth Chamber	Turnkey cost for 1 unit (4+5-6 in forex <sup>a</sup> & INR with exchange value <sup>b</sup> )	Duties /Taxes if any (in INR for 1 unit)	Total amount in INR (7+8)
1	2	3	4	5	6	7	8	9
1	Specifications as per Annexure-G	01						
	Spares*		Current price list attached					
	Annual CMC with part numbers and loan replacement during downtime		Current rates attached					

**Note:-**

- a. The rates of indigenous goods or already imported goods must be quoted in INR only.
- b. The forex "Reference Rate" of RBI on the date of issuing the tender notice online may be used to calculate the exchange value in INR for goods quoted in foreign currency (for comparison only).
- c. Comprehensive on-site warranty for a period as per annexure G or higher as given by the manufacturer, from the last date of completion/ installation for all the items supplied as certified by the University. The warranty shall be one year in case of UPS, IT peripherals and consumables, unless otherwise specified by the manufacturer for items with short life. The maximum response time for maintenance complaint during warranty period (i.e. time required for bidder's maintenance engineer to report at the installation after a service call/email/ letter shall not exceed 05 working days. The maximum period for repair and complete restoration during the warranty period shall be 30 calendar days from the date of service call/email. If the repair of an equipment takes beyond 15 calendar days, the supplier will be required to arrange for an immediate replacement with a working equipment at his own cost. The total downtime of the equipment shall not exceed 30 calendar days under any circumstances. In case the rectification of defects and complete restoration or replacement is not carried out within 30 calendar days, a penalty of sum equivalent to 3% per week of the delivered price of that defective item(s) shall be levied till the performance guarantee is exhausted

**(SEAL, SIGNATURE & NAME OF THE BIDDER)**