



**JAMIA MILLIA ISLAMIA**  
**Jamia Nagar, New Delhi-110 025**  
**Ph: 011-26982759**  
**Notice Tender Enquiry**

NIT-45/Equipment/BIOSC/PICO/RO/JMI/2017

Date:- 02.01.2018

Online bids are invited from reputed Companies/Authorized Distributors/Dealers for supply of Equipments under the Project titled **"Cyanobacteria as Bioreactor for Synthesis of Nanoparticles"** sanctioned by DRDO for Department of Biosciences, Jamia Millia Islamia. **Manual bids shall not be accepted.** Bid Document with other Terms & Conditions can be downloaded from JMI Website: [www.jmi.ac.in](http://www.jmi.ac.in) (for reference only) and CPP website: <https://eprocure.gov.in/eprocure/app> as per the schedule as given in CRITICAL DATE SHEET as under and be submitted with notified EMD as per following:

**CRITICAL DATE SHEET:**

Publish Date	02.01.2018 at 05.30 p.m.
Bid Document Download/Sale Start Date	02.01.2018 at 06.00 p.m.
Bid Submission Start Date	03.01.2018 at 09.30 a.m.
Bid Submission End Date	18.01.2018 at 01.00 p.m.
Bid Opening Date	19.01.2018 at 03.00 p.m.

EMD (Refundable)	Last date for Submission of Bids/Time	Venue and Time of opening of Bids
INR 92,780/- (For All the Items) INR 13,400/- (For 1 <sup>st</sup> Item) INR 13,960/- (For 2 <sup>nd</sup> Item) INR 2,600/- (For 3 <sup>rd</sup> Item) INR 12,820/- (For 4 <sup>th</sup> Item) INR 50,000/- (For 5 <sup>th</sup> Item)	As per critical date-sheet	Purchase & Inventory Control Office As per Critical date-sheet

**Eligibility Criteria:**

1. The Bidder should be a reputed and an authorized firm/supplier having after sales service agreement with the OEM (Proof for the same to be enclosed along with address, phone nos. & E-mail etc. of the Service Centre).
2. If ISO certified Company, enclose documentary proof.
3. The bidder should have experience of more than five years in execution and maintenance of equipments quoted (A certificate of establishment to be provided).
4. The Original Copy of EMD, Registration Certificate, GST No. complete in all respect should reach the Purchase & Inventory Control Office, Jamia Millia Islamia, Jamia Nagar, New Delhi-110025 as per critical date-sheet. No bids after the last date shall be entertained.

**Sequence of documents to be provided/enclosed in each copy of the bid documents:**

1. Balance sheet with auditor's report for the last three years.
2. Latest Income Tax Clearance Certificates.
3. GST no.
4. Proof of the authorized agent/distributors/supplier.
5. Sole Proprietary/sole manufacturer certificate for proprietary item.
6. List of Similar equipments supplied by the firm with addresses and phone numbers of customers with satisfactory completion certificate/satisfactory working certificates.
7. Name and address of registered office, Head Office and Regional office of the company with name and phone numbers of key persons.
8. Format of Schedule of Requirements at Annexure-I
9. Self-declaration at Annexure-II
10. Format for Supplier/Distributor information at Annexure-III
11. Contract Form at Annexure-IV
12. Technical Bid at Annexure-V
13. Financial Bid at Annexure VI
14. Acceptance of all clauses of bids specification duly signed page-wise.
15. Tender Acceptance Letter duly filled by the bidder at Annexure-VII.

## Conditions of Contract

### Terms & Conditions:

1. The bidder shall be required to deposit Rs. 92,780/- **Earnest Money** (For all the items) of estimated value of goods to be procured through Bank Draft/Fixed Deposit Receipt/Bank Guarantee drawn in favour of '**The Registrar, Jamia Millia Islamia.**' No bid shall be accepted without the Earnest Money.
2. The successful supplier will submit a Bank Guarantee equivalent to 10% of the total value of purchase order at the time of installation which would remain valid for a period of 60 days beyond the date of completion of all obligations of the supplier including warranty obligation. EMD will be released to successful bidder after submission of Bank Guarantee. JMI shall forfeit Bank Guarantee in the event of a breach of contract by the successful supplier.
3. Bids would be rejected for award if it determines that the bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the contract in question.
4. The JMI may, at its discretion, extend the deadline for submission of bids by amending the bid documents in accordance with clause relating to Amendment of Bidding documents in which case all rights and obligations of the JMI and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.
5. The original and all copies of the bid shall be typed or written in indelible ink and shall be signed by the bidder or a person or persons duly authorized to bind the bidder to the Contract. All pages of the bid, except for un-amended printed literature, shall be authorize by the person or persons signing the bid. Further, over-writings on documents, if any should be supported by signatures.
6. The bidders may submit their bid online not later than the time and date specified therein.
7. Issuance of bid documents should not automatically be construed that the bidder is considered qualified. The JMI Authority has the right to reject any bids on technical grounds without assigning any reason.
8. Jamia Millia Islamia shall not be responsible for any delay, loss or non-receipt of original mentioned documents.
9. Prices shall be quoted in Indian Rupees for offers received for supply within India and in US dollars as per the Financial Bid format in case of offers received for supply from foreign countries. The prices quoted should be CIF or FOR, JMI destination.
10. The JMI may decide to open a letter of Credit or Wire Transfer in cases where it so decides. Any variation in price from the importer and manufacturer be indicated well in advance.
11. The imported equipments should be quoted by the authorized supplier/dealer. In this case, commitment of after sales service with the period applicable should be clearly mentioned.
12. Payment shall be made after delivery, successful installation, commissioning & submission of Bank Guarantee.
13. Payment shall be processed after completion of supply/installation of equipments as per Purchase Order. Part payment of equipments shall not be allowed.
14. All taxes, if applicable, should be quoted separately, otherwise it would be presumed that the quoted prices are inclusive of taxes (please see Financial Bid format).
15. Prices quoted should be CIF/FOR, JMI, New Delhi inclusive of all charges required to make the equipment functional to the satisfaction of JMI, otherwise it would be presumed that the quoted prices are inclusive of all charges, if applicable.
16. Price will be quoted in both words and figures. In case of any difference, rates quoted in words shall prevail.
17. In case price for imported goods are quoted in FOR, the JMI will provided customs duty exemption certificate, if the import is made in the name of JMI and the supplier should submit original Bill of Entry in the name of the Registrar, JMI.
18. Delivery should be within specified days mentioned in Purchase Order. If the equipment/instruments are not delivered within the stipulated time, the supplier shall be liable to pay a penalty of 1% of the total order value for each delay of 10 days or part thereof subject to maximum of 10% of Purchase Order value and the amount will be deducted from the payment on account of purchase.
19. The suppliers will undertake warranty of equipment/instruments from the date of successful installation/commissioning equipments and shall have to mention clearly the period of warranty in financial bid.
20. The quotations must be valid for 180 days (six months) from the date of opening of the technical bids. No change in prices and change in terms and conditions will be permitted.
21. All quoted items may carry brochure/catalogue/Pamphlets/Technical Literature and related documents.
22. The supplier further warrants that the goods shall be free from defects arising from any act or omission of the supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in India.
23. Installation, testing, commissioning of the equipments should have to be carried out by Technical experts of the company/supplier up to the satisfaction of user department of JMI.
24. Free training shall be imparted to faculty/technical staff for operation, maintenance and troubleshooting at the user department of JMI.
25. The bidder may submit the proprietary certificate for the item(s), if applicable.
26. In a bid, either the Indian agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same bid.

27. If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same bid for the same product.
28. Jamia Millia Islamia reserves the right to purchase varying quantity of material, less or more.
29. In the process of evaluation, comparison of bids, Jamia Millia Islamia reserves the right to reject any or all bids.
30. In case replacement of a part becomes necessary during warranty period, the parts of the same make and same or better configurations as were originally there in the equipments shall be used. The supplier/vendor shall maintain details of the replacements and repairs carried out, if any, in any equipment/instrument in a separate document and produce the details as and when required by the user department of JMI. The cost of the parts will be borne by the supplier.
31. In case of complaint regarding repairing/replacement of equipment/instrument within the warranty period, the supplier will provide repair/replacement immediately. In case of non-compliance or delayed compliance, supplier will be penalized with an amount mutually agreed upon and it would be deducted from the Bank Guarantee.
32. The technical specification wherever given in the items' specification format is basic. The equipments/instruments may also be evaluated as per additional provisions and facilities.
33. All corrigenda will only be notified on the JMI website and CPPP website.
34. The Vice-Chancellor, JMI shall be the final Authority for settlement of any dispute and his interpretation of any Clause/term/condition(s) of this document shall be final and binding and the jurisdiction for Court of Law shall be Delhi/New Delhi.

Authorize Signature of the firm:

Name:

Designation:

#### **Bid Submission:**

1. Bidders are advised to visit this website regularly to keep themselves updated as any change/ modification in the tender will be intimated through this website only.
2. Bids shall be submitted online only at CPPP website: <https://eprocure.gov.in/eprocure/app>.
3. Tenderer/Contractor are advised to follow the instructions "Instructions To Bidder for Online Bid Submission" provided for online submission of bids -
4. Tenderer who has Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
5. downloaded the tender from the JMI website and Central Public Procurement Portal (CPPP) website <https://eprocure.gov.in/eprocure/app>, <https://eprocure.gov.in/epublish/app> **shall not tamper/modify the tender form including downloaded price bid template in any manner**. In case if the same is found to be tempered/modified in any manner, tender will be completely rejected and EMD would be forfeited and tenderer is liable to be banned from doing business with JMI.
6. Intending tenderers are **advised to visit again** JMI Website: [www.jmi.ac.in](http://www.jmi.ac.in) (Reference only) and **CPPP website** <https://eprocure.gov.in/eprocure/app> **regularly till closing date of submission** of tender for any corrigendum/addendum/ amendment.
7. Applicant contractor must provide demand draft as EMD for Rs. 92,780/- (Rupees Ninety Two Thousand Seven Hundred Eighty Only) in favour of The Registrar, JMI and payable at New Delhi. From any Nationalized/ scheduled Bank valid for three months with their application/downloaded tenders. The all applicable bank charges shall be born by the applicant and he shall not have any claim what so ever on this account on Government. In case of re-tendering, the firms which have submitted the DD in earlier calls will require to submit DD along with their tender/application in subsequent calls also.
8. Bids will be opened as per date/time as mentioned in the **Tender Critical Date Sheet**. After online opening of Technical-Bid the results of their qualification as well Price-Bid opening will be intimated latter.

#### **Submission of Tender**

**The tender shall be submitted online in Two part, viz., technical bid and price bid.**

All the pages of bid being submitted must be signed and sequentially numbered by the bidder irrespective of nature of content of the documents before uploading.

The offers submitted by Telegram/Fax/email shall not be considered. No correspondence will be entertained in this matter.

### **Technical Bid**

The following documents are to be furnished by the Contractor along with **Technical Bid** as per the tender document:

1. Signed and Scanned copy of **Earnest Money Deposit**
2. Signed and Scanned copy Certificates like Registration certificate, PAN No, TIN No, Service Tax registration, Sales Tax, Trade Tax Regn, GST No.
3. Signed and Scanned copy of Proof of Balance Sheet with Auditor's Report for the last three.
4. Signed and Scanned Copy of **Tender Acceptance Letter & Letter of authorization to submit bid.**
5. An undertaking (self-certificate) that the **agency hasn't been blacklisted** by a Central / State/UT Government institution and there has been no litigation with any government department on account of IT services.
6. Signed and Scanned Copy of **Technical data sheet** as per Annexure V.
7. Signed & scanned copy of the authorized agent/distributors/supplier
8. Signed & scanned copy of Sole Proprietary/sole manufacturer certificate for proprietary item.
9. Signed & scanned copy of List of Similar equipments supplied by the firm with addresses and phone numbers of customers with satisfactory completion certificate/satisfactory working certificates.
10. Signed & scanned copy of Name and address of registered office, Head Office and Regional office of the company with name and phone numbers of key persons.
11. Signed & Scanned copy of Annexure, I, II, III, IV, V & VII.

### **PRICE BID**

Schedule of price bid at Annexure VI dully filled by the bidder in figure as well as in words.

### **Instructions for Online Bid Submission:**

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal. More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

#### **REGISTRATION**

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

#### **SEARCHING FOR TENDER DOCUMENTS**

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the required documents/tender schedules. These tenders can be moved to the respective ‘My Tenders’ folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

#### **PREPARATION OF BIDS**

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

**Note:** My Documents space is only a repository given to the Bidders to ease the uploading process. If Bidder has uploaded his Documents in My Documents space, this does not automatically ensure these Documents being part of Technical Bid.

## SUBMISSION OF BIDS

- 1) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder has to select the payment option as “offline” to pay the tender fee / EMD as applicable and enter details of the instrument.
- 4) Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- 5) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.
- 6) The server time (which is displayed on the bidders’ dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 7) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 7) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 8) Upon the successful and timely submission of bids (ie after Clicking “Freeze Bid Submission” in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 9) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

## ASSISTANCE TO BIDDERS

- 1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- 2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.  
Number: 0120-4200462, 0120-4001002,  
Mobile Number: 91 8826246593, `  
In Office Hour only: **8804377070**  
E-Mail: support-eproc[at]nic[dot]in
- 3) For Tender related Query may please contact:  
Tel: 26982759(Dir), 26981717#1240, 1242

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**FORMAT OF SCHEDULE OF REQUIREMENTS**  
**(All Columns to be filled by the supplier)**

Sl. No.	Name Equipment/Instrument	Unit	Qty.	Delivery Schedule	EMD in Rupees
				Delivery in _____ weeks at the user department, JMI	

Authorised Signatory:

Name:

Designation:

Name of the firm:

Seal:

**Self-Declaration to be given by the bidder**

Bid's Reference No. & Date:

Bidder's Name & Address

Person to be contacted:

Designation:

Telephone No.:

Fax No.:

Email:

The Registrar,  
Jamia Millia Islamia,  
Jamia Nagar, New Delhi-110025.

We, the undersigned Bidder, having carefully read and examined in detail the Terms and Conditions, specifications and all bidding document in regard to the supply of equipments/instruments at Jamia Millia Islamia and accept the same.

**We also do hereby declare**

1. that we have not been blacklisted/debarred by any Government/Undertaking.
2. that the rates quoted are not higher than the rates quoted for same item to any Government/Undertaking.
3. that the original mentioned documents submitted by us and prepared so as to prevent any subsequent alteration and replacement.

For and on behalf of the firm  
(Firms Name & Address)

(Signature of Authorized Signatory)

Name:

Designation

Phone No.:

Seal:

Date: .....

Place:.....



**FORMAT FOR OTHER INFORMATION**  
**(To be filled in by the bidder)**

1. Name of the firm: .....
2. Address: - .....
3. Telephone/Mobile No. ....
4. Fax Number: - .....
5. Email: - .....
6. GST No.: .....
7. Firm Registration No.: .....  
(If any)
8. PAN: .....  
(Attach photocopy)
9. **Earnest Money (Bids Security)**.....  
@ Rs. 92,780/-

a) Bank Draft/Pay Order No.

b) Date.

c) For Rs.

d) Drawn On.

(Signature of the authorized person)

Name of contact person

Name of Firm

Contact No.

Seal

Place .....

Date.....

**CONTRACT FORM**  
**(to be filled by the successful bidder)**

**THIS AGREEMENT** made the ..... day of....., 20..... between the Registrar, Jamia Millia Islamia, New Delhi (hereinafter called "the Purchaser") of the one part and ..... (Name of Supplier) of ..... (City and Country of Supplier) (Hereinafter called "the Supplier") of the other part:

**WHEREAS** the Purchaser is desirous that certain equipment/instrument and after sales services viz., ..... (Brief Description of equipment/instrument and after sales services) and has accepted a bid by the Supplier for the supply of those equipment/instrument and after sales services for the sum of ..... (Contract Price in Words and Figures) (Hereinafter called "the Contract Price").

**NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:**

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. In consideration of the payments to be made by the JMI to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the JMI to provide the equipment/ instrument and after sales services and to remedy defects therein in conformity with the provisions of the Contract in all respects.
3. The JMI hereby covenants to pay the Supplier in consideration of the supply of the equipment/instrument and after sales services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

Brief particulars of the equipment/instrument and after sales services which shall be supplied/provided by the Supplier are as under:

SL. NO.	BRIEF DESCRIPTION OF EQUIPMENT/INSTRUMENT AND AFTER SALES SERVICES	QUANTITY TO BE SUPPLIED	UNIT PRICE	TOTAL PRICE	DELIVERY TERMS

TOTAL VALUE:

DELIVERY SCHEDULE:

SIGNATURE OF  
AUTHORISED SIGNATORY

Name:

Designation:

Name of the firm:

Seal:

REGISTAR, JMI

NAME

PLACE

SEAL

**Technical Specifications**

S. No.	Technical Specifications		Compliance (Yes/No)
1.	Incubator Shaker with Light and Temperature Regulation		
	System	Forced Air Circulation	
	Shaking System	Orbital	
	Temp. Range	0 <sup>0</sup> C ~ 70 <sup>0</sup> C	
	Temp. Constansy	±0.1 <sup>0</sup> C	
	Temp. uniformity	±0.1 <sup>0</sup> C at 37 <sup>0</sup> C	
	Temp. control / display	PID / LID	
	Temp. sensor	PT-100	
	Inside material	SUS -304	
	Rate of shaking	2~ 250rpm	
	Shaking width	50 mm	
	Shaking plate(mm)	W600xD480mm	
	Refrigerator	¼ HP	
	Heater : Incubator	1200W	
	Safety devices	Short circuit breaker, Over heat protector, Refrigerator over load protector, Sensor abnormality, Over low protector	
	Inside dimensions	W680xD560xH540 mm	
	Outside dimensions	W1010xD640xH870mm	
	Volume (Litres)	205	
	Power supply	220V, 50Hz (8.5A)	
	Weight	200Kg	
	Flask holders : 111-1-110250 (250ml)	30	
	Flask holders : 111-1-110500 (500ml)	20	
	Flask holders : 111-1-111000 (1000ml)	12	
	Flask holders : 111-1-1112000 (2000ml)	6	
	Illumination with Day/night Timer	1	
	Universal Test tube rack	2	
	Microplate rack	1	
Power point inside unit	1		
2.	Spectrophotometer		
	1. UV-Vis wavelength range	190-1100 nm	
	Spectral Bandwidth	0.5, 1.0,2.0 and 5.0 .0 nm (4steps)	
	Resolution	0.1 nm	
	Stray light	≤0.12% T (220 nm NAL,340 nm NaNO <sub>2</sub> )	
	Wavelength Accuracy	±0.3nm (with automatic wavelength correction)	
	Wavelength display	0.1nm resolution	
	Wavelength Reproducibility	± 0.2 nm	
	2. Photometric System	Double Beam Optical System	
	Photometric Range	-0.3~ 3.0 Abs, ± 0.002Abs (0.5~ 1.0A)	
	Photometric Accuracy	± 0.004Abs (0.5 ~ 1.0A), ± 0.3%T (0 ~ 100%T) ± 0.001Abs (0 ~ 0.5A)	
	Photometric Reproducibility	± 0.2 nmAbs (0.5 ~1.0A) , ± 0.15%T(0 ~ 100%T)	
	Photometric Display	-9999---9999	
	Photometric Noise	± 0.001Abs / 120 seconds (at 500,1 nm Spectral Vand width 0Abs)	
	Scanning Speed	1400 nm/min	
	Baseline Flatness	± 0.0015Abs (200-1100nm)	
	Resolution	0.5nm	
	Baseline Stability	0.008Abs/h (1/2 hour warming up ,1nm Bandwidth,500nm)	
	Slew Rate of Wavelength	3600 nm/min	
	3. Result Printout	Printing of measured data by using any Printer with parallel port connections	
	4. Mainframe	Compact and standalone spectrophotometer mainframe	
	Light Source	Socket Deruterium Lamp and Socket Tungsten Halogen Lamp	
	Detector	Double Beam	
	Sample Chamber	Automatic eight –cell sample holder	
	Display	Liquid Crystal Display (LCD 320 x 420 dot matrix)	

	<p>Keypad PC Interface Working Voltage</p> <p>PC 8 Auto and 1 Fixed Cell , Built in automatic 9 position Cell holder, Backlit LCD screen displays both photometric values and spectral curves, Labomed's powerful UV-Win PC software compatible with Window- XP, Window-7, Window-8, PC with printer &amp; Key board, Software RS-232 and USB interface cable to link Spectro to Computer and printer. Spectral Scanning of transmittance or absorbance on the selected wavelength range together with peak-pick module, Regression of standard curves and direct determination of concentration of samples, Monochromator, Holographic grating 1200 line mirror, 8 square cells(10mm path length, optical glass), 2 square cells (10mm path length, quartz), Dust cover, Service manual</p>	<p>Touch Soft Keys PC Interface : RS-232, USB 230 Volts 50Hz</p>	
3.	<p><b><u>Laminar Flow</u></b></p> <p>Body Window Work space depth (Minimum) Work space height (Minimum) Air Flow Type/ Speed over work space Electrical Connections Filters Motor &amp; Blower</p> <p>4x2x2 feet (Stainless steel 304 Grade) Tempered Transparent Glass/ fibre 28 inches 28 inches Vertical / 0.45m/s 230 V, 50Hz Single Phase 4x2x2 feet HEPA, 99.9% efficient @0.2 micron Balanced and ISI marked, 1/5 H.P. rating of assembly , external rotor motor</p> <p>Illumination at work space Vibration &amp; Noise level</p> <p>≈ 800 lux (2x20 W Fluorescent tubes), 2x30 W U.V. tube Below 55db, Permanently lubricated</p>		
4.	<p><b><u>Refrigerated Centrifuge</u></b></p> <p>Maximum RPM Minimum RPM Minimum RCF Maximum volume Braking system Temperature setting / display Chamber Weight Noise level Total power consumption Angle Rotar -1 Angle Rotar -2 Angle Rotar -3 Motor Digital Display Counter Balance Running Time Voltage stabiliser Dimension</p> <p>20,000 100 3,2198 xG 700 ml Dynamic, electric braking -9-40 ° C, Digital for 230 V / 50Hz Stainless steel &lt; 75Kg &lt; 60 db (A) 800 Watts 1.5 ml x 24 15ml x 24 50 ml x 4 German , Brushless (i.e.100% trouble free) 4 line LCD display for current Solid Counter balance 99:59:59 &amp; run hold 5KVA 705(L) x 575(D) x 410 (H) mm</p>		
5.	<p><b><u>Photobioreactor</u></b></p> <p><b>Cultivation Vessel</b></p> <ul style="list-style-type: none"> <li>Flat Panel configuration.</li> <li>Vessel volume scalable upto <b>3Litre</b> and autoclavable.</li> <li>Air pump with bubble interruption valve for air aided mixing.</li> <li>pH and temperature measurement with temperature control.</li> <li>Programmable light, temperature, gas &amp; medium regime. Time spent from millisecond to hours.</li> <li>Both static and chargeable temperature in the range of 15- 55° C.</li> </ul> <p><b>Lighting</b></p> <ul style="list-style-type: none"> <li>White-Red, Blue-Red, white standard panel with maximum intensity of 1500 μ mol (photon)/m<sup>2</sup>.s.</li> <li>Illumination software controlled and enabling both static and fluctuation light regime.</li> </ul> <p>Timing enabling day/ night cycles.</p> <p><b>Monitoring</b></p> <ul style="list-style-type: none"> <li>pH and temperature measurement with probe/ module with continuous temperature control.</li> <li>Integrated Double Modulation Fluorometer with online measurement and recording basic fluorescence parameters- Ft, Fm, QY</li> <li>Integrated online optical density measurement – measured at 560, 680 and 750 nm</li> <li>Chemostat module.</li> <li>CO2 electrode (probe included with electronic module, sensor, probe and cable)</li> </ul> <p><b>Control Unit Software</b> for data correction and photobioreactor control</p> <p><b>Gas mixing system</b> to mix gasses inside the vessel (channel 1 for Air/ N<sub>2</sub>; channel 2 for CO<sub>2</sub>).</p> <p><b>CO<sub>2</sub> cylinder</b> with two stage regulator should be supplied with the system.</p> <p><b>Spare Parts for kit for one year:</b></p> <ul style="list-style-type: none"> <li>Optional accessories:</li> <li>Controlled flow and composition of the bubbling air</li> <li>Magnetic stirrer.</li> <li>O2 electrode to measure concentration of dissolved O2 (probe included with the electronic module, sensor probe and cable)</li> <li>Light upgrade panel upto 3000 μ mol (photon) /m<sup>2</sup>.s.</li> </ul> <p><b>Autoclave</b> compatible to the Flat Panel Photo-bioreactor</p>		

## Financial Bid

S.No.	Name of Equipments	Qty.	Price INR/USD
1.	Incubator Shaker with Light and Temperature Regulation	01	
2.	Spectrophotometer	01	
3.	Laminar Flow	01	
4.	Refrigerated Centrifuge	01	
5.	Photobioreactor	01	
<b><u>Applicable Taxes/Duties and other charges</u></b>			
1.	GST, if any		
2.	Excise duty, if any		
3.	Customs duty, if any		
4.	Packaging & forwarding charges, if any		
5.	For Octroi, if applicable, necessary certificate will be issued		
6.	Training cost, if any		
7.	Installation and commissioning cost, if any		
8.	Any other charges, if any		
9.	Grand Total (in figures & words)		

**Note:** The validity of tender shall be 180 days after opening of financial bid.

(Signature of the authorized person)

Name of Contact Person

Name of Firm

Contact No.

Seal

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

Date:

To,

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Sub: Acceptance of Terms &amp; Conditions of Tender.

Tender Reference No: \_\_\_\_\_

Name of Tender / Work: -

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Dear Sir,

1. I / We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s) namely: \_\_\_\_\_

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as per your advertisement, given in the above mentioned website(s).

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

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

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

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

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

Yours Faithfully,

(Signature of the Bidder, with Official Seal)