



## **Guwahati Biotech Park**

**Technology Complex, IIT Guwahati**

**Guwahati- 781 039**

**Phone: + 91-361-2690228/227, Fax: 0361- 2690227**

### **TENDER DOCUMENT FOR**

### **SUPPLY, INSTALLATION & COMMISSIONING OF LABORATORY EQUIPMENTS AT GUWAHATI BIOTECH PARK INCUBATION CENTER**

**NIT No.GBPIC/8.2.4.1/2017-18/3942 Dated 8<sup>th</sup> FEBRUARY 2018**

<b>System of bid</b>	<b>Two Bid system Part-I: Technical Bid Part-II: Price Bid</b>
<b>Last date &amp; Time of submission of bids</b>	<b>28.02.2018 upto 1400 hrs.</b>
<b>Date &amp; Time of Opening of bids</b>	<b>28.02.2018 at 1500 hrs.</b>
<b>Tender Fee</b>	<b>Rs.1000/- (One Thousand Only) in D.D./Banker's Cheque drawn in favor of Guwahati Biotech Park Incubation Center payable at Guwahati</b>

**GUWAHATI BIOTECH PARK  
TECHNOLOGY COMPLEX  
IIT GUWAHATI, GUWAHATI-781039**

**TENDER FORM**

1	<b>NAME &amp; ADDRESS of the Bidder</b>	
2	<b>Telephone/Fax/Email</b>	
3	<b>NIT No. &amp; Date</b>	
4	<b>Name of the item quoted</b>	
5	<b>Offer/Quotation No. &amp; date</b>	
6	<b>Name of the authorized signatory</b>	
7	<b>Status of the tenderer: Proprietary concern/Partnership firm/Ltd. Company/Other</b>	
8	<b>Tender fee details</b>	<b>DD No..... DTD.....</b>
9	<b>EMD details</b>	<b>DD/BG No..... DATE:.....</b>
10	<b>CST/TIN/GST No.</b>	
11	<b>PAN No.</b>	
12	<b>Enclosures along with the bid</b>	
13	<b>Remarks if any</b>	

**Date**

**Signature & seal of Tenderer**

**Note:** This tender form duly filled & signed should accompany with the Technical Bid as the top most page.

**INDEX**  
**CHAPTER-1: INSTRUCTION TO BIDDERS**

<b>SI No.</b>	<b>Clause</b>	<b>Page No.</b>
1.1	Two bid & mode of transmission	4
1.2	Technical Bid	5
1.3	Price Bid	5
1.4	Cost of Preparation of Bid	5
1.5	Eligibility of bidder	5
1.6	Experience & capability of bidder	6
1.7	Tender fee	6
1.8	EMD	6
1.9	Amendment to bidding document	7
1.10	Preparation of Bids	7
1.11	Price schedule	7
1.12	Concession permissible under Statutes	7
1.13	Period of Validity	7
1.14	Deadline for Submission & Opening	8
1.15	Conformity to specifications	8
1.16	Notification of award (NOA)	8
1.17	Performance Bank Guarantee	8
<b>CHAPTER-2: GENERAL CONDITIONS OF CONTRACT</b>		
2.1	Rate & price break up	9
2.2	Rate quoted for Imported Goods	9
2.3	Evaluation of Bid	9-10
2.4	Delivery & Installation	10-11
2.5	Safe delivery of goods	11
2.6	Shipment/delivery document	11
2.7	Liquidated Damage	11-12
2.8	Pre-installation requisites	12
2.9	Transit Insurance	12
2.10	Warranty & Guarantee	12
2.11	Inspection /Testing and acceptance of material	12-13
2.12	Change order	13
2.13	Quantity in order	13
2.14	Payment schedule	13
2.15	Catalogue /Manual	14
2.16	Short Shipment/Transshipment	14
2.17	Genuine pricing	14
2.18	Conditional Tenders	14
2.19	Enquiry during evaluation	14
2.20	Termination of default	14
2.21	Applicable law & Arbitration	14
2.22	Liability in case of Joint venture, Consortium, Amalgamation Patent right etc.	14-15
2.23	Force majeure	15
2.24	Consideration of tender	15
<b>ANNEXURES</b>		
	Annexure-I: PBG Format	16
	Annexure-II: Price schedule for imported goods	17-18
	Annexure-III: Price schedule for Indigenous goods	19-20
	Annexure-IV: Bidder information form	21
	Annexure-V: Manufacturer's authorization letter	22
	Annexure-VI: Bid security form	23
	Annexure-VII: Bidder's past services proforma	24
	Annexure-VIII: Deviation Statement Form	25
	Annexure-IX: Service support details	26
	Annexure-X: Bid form	27
	Annexure-XI: Checklist (BOQ)	28
	Annexure-XII: Technical Specifications	29-58

**BIDDING DOCUMENT**

**INVITATION FOR BIDS**

To, \_\_\_\_\_  
M/s. \_\_\_\_\_  
\_\_\_\_\_

Dear Sir,

The Chief Executive Officer, Guwahati Biotech Park, invites sealed quotations for supply, installation & commissioning of Equipments as per details at “**Instruction to Bidders’, General conditions of Contract” and Annexures I to XII** in **double** bid and so as to reach the office of the Guwahati Biotech Park on or before 28.02.2018 by 1400 hrs.

The Tender will be governed by the “Notice Inviting Tender (NIT), “Instruction to Bidders”, “General Conditions of contract” and Annexures from I to XII of tender document. Deviation/Exceptions to the clauses, if any should be explicitly recorded.

This Bid Document contains pages numbered 1 to 58 consecutively. Please check to see that no page is missing nor any in duplicate. The bid documents are not transferable and the firm’s seal and signature of the authorized official must appear on all the papers and envelopes submitted. Tenders must be submitted separately for each item along with EMDs. Combined tenders submitted for more than one item together will be summarily rejected. However tender fee is one time submission only.

**Chapter-1**

**INSTRUCTION TO BIDDERS**

- 1.1 **TWO BID MODE OF TRANSMISSION:** Offers will have to be submitted in two Parts i.e. a) Technical Bid (Part-I) and (b) Price Bid (Part-II). The first inner sealed cover will contain Technical bid having all details but with price column blanked out. This cover will clearly be super scribed with "Technical bid" along with tender number and item description. The second sealed inner cover will contain only the price schedule duly filled in and signed and will be clearly super scribed with "Price Bid" along with tender number. These two covers shall be put into outer cover and sealed super scribing the following lines:

<p><b>“QUOTATION FOR SUPPLY, INSTALLATION &amp; COMMISSIONING OF LABORATORY EQUIPMENTS AT <u>GUWAHATI BIOTECH PARK</u> , TECHNOLOGY COMPLEX, IIT GUWAHATI, GUWAHATI-781039”</b></p> <p><b>NIT No. GBPIC/8.2.4.1/2017-18/3942 DATED 8<sup>th</sup> February 2018</b></p> <p><b>To</b> <b>The Chief Executive Officer,</b> <b>Guwahati Biotech Park</b> <b>Technology Complex: IIT Guwahati</b> <b>Guwahati -781039, Assam, India</b></p> <p style="text-align: right;"><b>From: M/s.....</b> <b>Contact No.:.....</b> <b>Email ID:.....</b></p>
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**1.2 TECHNICAL BID (Part-I): In the Technical Bid the vendor must provide the followings:**

- 1.2.1 Details of technical features of the offered equipments vis-à-vis NIT specifications;
- 1.2.2 Standard technical literature on each of the item offered;
- 1.2.3 Latest original catalogue in support of the item offered.
- 1.2.4 Dealership certificate on the offered products in case of dealers/authorized distributors;
- 1.2.5 List of reputed organizations/institutions where similar orders have been executed (copies work order to be enclosed)
- 1.2.6 Up-to-date Sales tax clearance/GST certificate and GST registration Number.
- 1.2.7 Details of nature and maximum period of warranty offered by the vendor. The firm should give at least 3yrs warranty of the item from the date of installation or 39 months from the date of shipment whichever is earlier.
- 1.2.8 After sales service: the name and address of the nearest available authorized service centre should be stated in the quotation.
- 1.2.9 Tender fee in DD/Bankers Cheque & Earnest Money deposit (EMD) in the form of DD or BG must be enclosed with the technical bid.
- 1.2.10 The tenderer has to state in detail requirements including the electrical/power requirements, floor space, head room, foundation needed, AIR conditioned environment etc. for complete installation & commissioning of the equipments.

**1.3 PRICE BID (Part-II): In the Price Bid part, the vendor must provide the followings;**

- 1.3.1 Quantity, basic price against item-wise details of specifications of each of the offered items;
- 1.3.2 Price of optional accessories as required by NIT specifications and also may be relevant for the offered equipments will have to be specifically mentioned in the quotation;
- 1.3.3 Packing & Forwarding Charges if any (as percentage of basic price or as lump sum)
- 1.3.4 GST ( as percentage of **basic+ packing & forwarding charge** if any)
- 1.3.5 Freight and Insurance charge if any (as percentage or as lump sum)
- 1.3.6 Annual maintenance Contract (AMC) rate after expiry of standard warranty period is to be clearly indicated preferably in both comprehensive and non-comprehensive terms failure to which the offer may not be considered even if it turns out to be at the lowest price. **Quoted prices should be inclusive of 3 years warranty at free of cost.**
- 1.3.7 Installation and commissioning charge (including service tax) to be shown item-wise extra, if any.
- 1.3.8 In case the quoted price is FOR/FOB basis, the estimated insurance coverage charges may please be indicated.
- 1.3.9 CIP/CIF, (named place of delivery in India) value for Airways and Ocean freight respectively.
- 1.3.10 Custom Duty & Clearance Charges if any.
- 1.3.11 Inland freight/transportation & Insurance Charges if any.
- 1.3.12 Any other levies/Charges.

**1.4 COST OF PREPARATION OF BID:**

All costs associated with the participation in this bid such as preparation & submission of bid, post tender opening communications, personal representations during the tender opening etc. will be borne by the bidder.

**1.5 ELIGIBILITY OF BIDDER:**

- 1.5.1 The bidder shall either be the Original Equipment Manufacturer (OEM) or their authorized Original Equipment Supplier (OES), Authorized Distributor or Supplier. OES/Authorized Distributor/Supplier should enclose letter of authorization from O.E.M. authorizing the bidder to quote for the quoted item and shall be valid at the time of bidding.
- 1.5.2 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 or product. Furthermore 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 tender for the same product/item.

1.6 **EXPERIENCE & CAPABILITY OF THE BIDDER:**

The bidder must possess, prior to the deadline for submission of bid, minimum experience of executing such supply in laboratories or reputed institutes for last three years and successfully accomplishing each of the activities supply, Installation, testing and commissioning. The claim shall be supported by necessary detailed documentary evidence (copy of Supply order/Contract, installation report etc.) in respect of the equipments supplied. Experience shall be cited in the proforma at **Annexure-VII.**

1.7 **TENDER FEE:**

1.7.1 **Bidder has to submit a non-refundable one time Tender Fee** of Rs.1000/- (Rupees One Thousand only) in the form of demand draft in favour of **Guwahati Biotech Park Incubation Center**, Payable at Guwahati and should be sent in a separate envelope. The offer will not be considered without tender fee.

1.7.2 The Government Departments, National Small Industries Corporations (NSIC) or Small Scale Industries (SSI) is exempted from payment of tender fee.

1.8 **EARNEST MONEY DEPOSIT**

1.8.1 Refundable earnest money deposit, amounting to minimum 3% of the total quoted value, in case quoted value is Rs.5 lakh or more, (rounded off to the nearest hundred rupees) must be deposited as an earnest money along with the "Technical Bid" by demand draft or Bank Guarantee in favour of **'Chief Executive Officer, Guwahati Biotech Park'** and payable at Guwahati.

1.8.2 **Vendor has to submit separate offers along with EMDs for each equipment.** Firms registered with DGS & D or with SSI/NSIC are not required to submit EMD. On the back side of the DD/BG the bidder should mention their name and the item against which the DD/BG is submitted. In case of foreign bidders, the BG is to be submitted by the Principal or their Indian Agent.

1.8.3 The EMD is required to protect the GBP against the risk of Bidder's conduct which would warrant the security's forfeiture in the following events:

- a. If the Bid is withdrawn during the validity period or any extension thereof duly agreed by the Bidder.
- b. If Bid is varied or modified in a manner not acceptable to GBP during the validity period or any extension of the validity duly agreed by the Bidder.
- c. If a Bidder, having been notified of the acceptance of its bid, fails to furnish Security Deposit/Performance Bank Guarantee within 21 days of notification of such acceptance.

1.8.4 GBP shall not be liable to pay any bank charges, commission or interest on the amount of EMD. The EMDs of unsuccessful Bidders will be returned on finalization of the bid. The EMD of successful bidder will be returned on receipt of Performance Bank Guarantee (PBG) against award of contract.

1.8.5 The EMD/BG shall be submitted in a separate envelope superscribing the followings:

<p><b>NIT No. GBPIC/8.4.2.1/2017-18/3942 DATED 8<sup>TH</sup> FEB 2018</b></p> <p><b>"EMD SUBMITTED FOR..... (Name of the item)</b> <b>DD/BG No. ....Date.....</b></p> <p><b>To</b> <b>The Chief Executive Officer,</b> <b>Guwahati Biotech Park</b> <b>Technology Complex: IIT Guwahati</b> <b>Guwahati -781039, Assam, India</b></p> <p style="text-align: right;"><b>From: M/s.....</b> <b>Contact No.:.....</b> <b>Email ID:.....</b></p>
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Please do not disclose the value of the EMD anywhere in the Technical Bid.

## 1.9 **AMENDMENT TO BIDDING DOCUMENT**

1.9.1 At any time prior to the deadline for submission of bids, the purchaser may, for any reason, whether at its own initiative or in response to clarification(s) requested by prospective bidder(s), modify the bidding documents by amendment(s). The changes/modifications would be hosted in the official website of GBP and therefore the prospective bidders are requested to surf the purchasers official website before submitting their bids to take cognizance of the amendments.

1.9.2 In order to allow prospective Bidders reasonable time in which to take the amendments into account in preparing their bids, Guwahati Biotech Park may, at its discretion, extend the deadline for the submission of bids.

## 1.10 **PREPARATION OF BIDS**

1.10.1 The governing language for the **Bids** submitted shall be in English in the prescribed bid proforma & Annexures. The prescribed proforma and Annexures duly filled in and signed should be returned intact whether quoting for any item or not.

1.10.2 In the event of the space on the bid proforma being insufficient for the required purpose, additional pages may be added. Each such additional page must be numbered consecutively, showing the tender number and should be duly signed.

1.10.3 The Bidder shall sign its bid with the exact name of the firm to whom the contract is to be issued. The bid shall be duly signed and sealed by competent officer of the Bidder's organization. Each bid shall be signed by a duly authorized officer and in the case of GBP the same shall be sealed and signed or otherwise appropriately executed under seal.

1.10.4 The Bidder, in each tender, will have to give a certificate in its offer, that the terms and conditions as laid down in this bidding document are acceptable to it in toto.

## 1.11 **PRICE SCHEDULE**

**Bid Prices:** The bidders shall indicate on the appropriate price schedule, the net unit prices (wherever applicable). Prices quoted by the bidder shall be firm during the bidder's performance of the contract and not subject to variation on any account. Discount, if any, should be merged with the quoted prices.

## 1.12. **CONCESSIONS PERMISSIBLE UNDER STATUTES**

1.12.1 Bidder, while quoting against this tender, must take cognizance of all concessions permissible under the statutes including the benefit under Central Sale Tax Act, 1956, failing which it will have to bear extra cost where Bidder does not avail concessional rates of levies like customs duty, excise duty, etc. GBP will not take responsibility towards this.

1.12.2 **INCOME TAX LIABILITY:** Bidder will have to bear all Income Tax liability both corporate and personal tax. Bidders should also bear the GST liability.

1.12.3 **Custom Duty Certificate:** Custom duty exemption certificate as applicable will be issued against receipt P.O. Acknowledgement.

1.12.4 GBP is NOT registered under the Central Sale Tax Act and is NOT entitled to avail concessional rate of Central Sales tax against form 'C' in respect of inter-state purchases.

## 1.13 **PERIOD OF VALIDITY OF BID**

1.13.1 Bid shall be valid for acceptance for a period of 120 days from the date of opening as indicated in the "Invitation for Bid" and shall not be withdrawn on or after the opening of bids till the expiration of the validity period or any extension agreed thereof.

1.13.2 In exceptional circumstances, prior to expiry of the original bid validity period, the GBP may request the bidder for a specified extension in the period of validity. The requests and the responses shall be made in writing. The Bidder will undertake not to vary/modify the bid during the validity period or any extension agreed thereof. Bidder agreeing to the request for extension of validity of offer shall be required to extend the validity of Bid Security correspondingly.

1.13.3 No bid may be modified (or) withdrawn after the dead line for submission of bids.

1.13.4 Telex/Telegraphic/Telefax/Xerox/Photocopy bids will not be considered.

1.14 **DEADLINE FOR SUBMISSION AND OPENING OF BIDS**

1.14.1 Last date & Time for receipt of bid 28<sup>th</sup> **February, 2018 upto 2 p.m.**

All out-station tenders, if sent by post, should be sent under registered cover. Any bid received after dead line for submission of bid, will be rejected and returned unopened. GBP will not be responsible for the loss of tender or for the delay in postal transit.

1.14.2 Date & Time of opening bid 28<sup>th</sup> **February, 2018 at 3 p.m.**

The Bidder or his authorized representative may be present at the time of opening of bid on the specified date. In case of unscheduled holiday on the closing/opening day of bid, the next working day will be treated as scheduled prescribed day of closing/opening of bid, the time notified remaining the same.

1.14.3 Price bids of unsuccessful bidder, which remain unopened with GBP, will be returned to the concerned bidders within 5 (five) working days of receipt of Performance Guarantee Bond from the successful bidder.

1.15 **CONFORMITY TO SPECIFICATIONS (both foreign & indigenous):**

1.15.1 Specifications are basic essence of the product. The Bidder must note that their Bids will be rejected in case the tender stipulations are not complied with strictly or the services offered do not conform to the required specifications indicated therein. At the same time it must also be kept in mind that merely copying our specifications in their quotation shall not make the firms eligible for consideration. The lowest Bid will be determined from among those Bids which are in full conformity with the required specifications. Compliance to technical specifications of the system envisaged in the bid-document is essential.

1.15.2 A quotation has to be supported with the printed OEM's technical literature / leaflets and the specifications mentioned in the quotation must be reflected/ supported by such printed technical leaflets/literature and model quoted/tendered specifications should invariably be highlighted in the leaflets for easy reference.

1.15.3 Bids will be evaluated on the basis of printed technical literature / brochures / details / certifications / catalogue provided in the bid. Bidders are therefore required to submit these documents as applicable in respect of the offered items as evidence that offered items meet the tender specifications. **Deviation in the configuration shall be clearly INTIMATED in the format as per Annexure-VIII (Deviation certificate).**

1.16 **NOTIFICATION OF AWARD:**

1.16.1 **AWARD OF ORDER/CONTRACT:** GBP will award the order/contract to the successful bidder whose bid has been determined to be in full conformity to the bid documents and has been determined as the lowest evaluated bid (L1).

1.16.2 Prior to the expiration of the period of bid validity, the GBP will notify the successful bidder in writing (within a maximum period of 7 days once the evaluation process is finalized) that its bid has been accepted. The notification of award will constitute the formation of the contract. Thereupon the detailed order will be transmitted through Post/courier/Fax and email as well.

1.16.3 In the event, the bid validity is found expired at the time of releasing the order, GBP will ask the successful bidder (L1) to extend the validity of their bid price till the confirmation of order.

1.17 **PERFORMANCE BANK GUARANTEE**(Applicable only to Orders costing Rs. 5 lakh or more)

1.17.1 The successful bidder shall furnish an unconditional performance bank guarantee in the Performance Security Form provided at **Annexure-I** valid till 60 days after the warranty period from a scheduled bank for 10% of the Purchase order value within 21 days from the placement of order failing to which the contract shall be deemed as terminated. Failure of the successful Bidder to comply with this requirement shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security, in which event the GBP may make the award to the next lowest evaluated bidder or call for new bids.

1.17.2 The Performance Guarantee will be returned within 60 days of completion of contract in all respect/delivery period as per contract / supply order.

1.17.3 The Bank Guarantee by Indian Bidders will be given on non- judicial stamp paper as per stamp duty applicable at the place where the tender has emanated. The non-judicial stamp paper should be in name of the issuing Bank.

1.17.4 The expiry date as mentioned should be arrived at by adding 30 days to the date of expiry of the bid validity unless otherwise specified in the bidding documents.

1.17.5 The Bank Guarantee will be given from Nationalised/Scheduled Banks only.

## CHAPTER-2

### GENERAL CONDITIONS OF CONTRACT

(Please note that the term “both foreign & indigenous’ wherever mentioned means the term is applicable to both foreign & indigenous purchase)

#### 2.1 RATES & PRICE BREAK UPS;

##### 2.1.1 **Rates quoted for indigenous items should be on FOR Guwahati Biotech Park i.e. on door delivery basis, with break-ups as per details below:**

Break-up of cost:

- a) Basic price
- b) (+) Central Excise Duty, if any
- c) (+) GST (On-Sub Total Price, Including excise duty, if any)
- d) (+) Freight & Insurance Charges upto place of delivery, if any
- e) (+) Installation, Commissioning & Training Charges, if any
- f) Grand Total F.O.R. Guwahati Biotech Park, Price

##### 2.1.2 The equipment has to be delivered at Guwahati Biotech Park premises. Unloading the item from the transport is under the risk of supplier.

##### 2.1.3 Vague terms like “packing, forwarding, transportation extra” without mentioning the specific amount will not be accepted. Such offers shall be treated as incomplete and rejected. Bidders shall indicate their rates in clear/ visible figures as well as in words and shall not alter/overwrite/make cutting in the quotation. In case of a mismatch, the rates written in words will prevail.

#### 2.2 **Rates quoted for imported items should be on DDP, (Guwahati Biotech Park) basis or FOB/FCA (named port of shipment) / CIF/CIP, (named port of shipment) along with all incidental charges to be borne out for door delivery upto GBP as per price schedule form at Annexure-II with the following details:**

- (a) Ex-works value
- (b) Documentation & handling Charge, if any
- (c) Estimated Overseas Freight.
- (d) Estimated Overseas Insurance charge (in case the firm holds open insurance policy, the insurance certificate relating to the consignment will have to be provided).
- (e) Custom duty if applicable and custom clearance charges if any.
- (g) Inland Freight/Transportation & and insurance charges upto Guwahati Biotech Park,
- (h) Loading and unloading at both terminals and other charges if any.
- (i) Installation, Commissioning & Training Charges, if any
- (j) The agency Commission if any.
- (k) **Grand Total: Door delivery Price (DDP, Guwahati Biotech Park)**

##### 2.2.1 The INCOTERMS used in this bid document shall be governed by the rules prescribed by International Chambers of commerce (ICC, Paris).

##### 2.2.2 **Road Permit:** Road Permits (Waybills) shall be issued as applicable for delivery of materials against receipt of Order Acknowledgement and Proforma Invoice.

##### 2.2.3 **Custom Duty Certificate:** Custom duty exemption certificate as applicable will be issued against receipt P.O. Acknowledgement.

##### 2.2.4 **GST:**

- (a) Up-to-date Sales Tax clearance certificate, GST Registration Certificate indicating also the GSTIN number of the firm must be clearly mentioned in the quotation, Certificates must be enclosed.
- (b) GST Deduction at source as per Order/notification of the Govt. of India will be applicable.
- (c) **GST No of Guwahati Biotech Park Incubation Center is :18AACAG4271G1ZS**
- (d) HSN/SAC No of the items must be clearly mentioned in the quotation along with GST No.

#### 2.3 **EVALUATION OF BIDS:**

##### 2.3.1 The bids will be evaluated in two stages viz. Technical Bid Evaluation & Price bid Evaluation. The Technical bids will be evaluated soon after opening of bids and during such evaluations any clarification or query maybe raised by GBP in email or letter/fax. etc. The bidder should co-ordinate and reply in writing against such queries at the earliest possible time facilitating the evaluation process. Such written queries & replies will be annexed with the bid and shall be treated as the part of the bid.

- 2.3.2 The technical bids will be evaluated to examine the following parameters:
- whether the bidder meets the eligibility criteria
  - whether the bidder has submitted EMD and Tender fee wherever applicable
  - whether the bidder has submitted all necessary documents required as per the tender
  - whether the bid document and all prescribed Formats(except the price schedule formats) are filled and signed & stamped
  - whether the quoted specifications are compatible to tender specifications etc.

Combined tender for more than one item in the same envelope & Bids received late will be summarily rejected.

- 2.3.3 The price bids of technically qualified bidders will be opened in a specified date which will be intimated to the qualified bidders. Also the price bid opening date will be notified in the official website. The bidder or their authorized representative may attend the price bid opening session.

- 2.3.4 Bidders attempt to negotiate price or any change in price already quoted will not be entertained during price bid evaluations. Also no information regarding the status of the bidder will be disclosed until the award of the contract.

- 2.3.5 The bids will be evaluated on F.O.R. destination basis. For the purpose of evaluation, all bid currencies will be converted into Indian rupees. The selling exchange rate on the date of opening of the Price bids will be considered for conversion of foreign currencies.

- 2.3.6 In case of Indigenous supplier, the total bid value will be **F.O.R., Guwahati Biotech Park price** which is inclusive of 3years warranty at free of cost, the cost of all essential accessories/spares & consumables for complete installation and demonstration of the equipment and charges for installation, demonstration and training if any. GBP will provide only floor space/bench and electrical arrangement only.

- 2.3.7 In case of goods being directly offered from abroad, the total bid value will be DDP, Guwahati Biotech Park price in foreign currencies as per Price Schedule format at annexure-II. The bidder in such cases should include the Custom Duty & Custom clearance charges, Freight & Insurance Charges and all other incidental charges to be incurred for door delivery, installation, demonstration & Training of the equipment.

- 2.3.8 In case of goods being offered from abroad through Indian agent the total bid value will be:

a. FOB/FCA, (Named port of destination) price + Sea/Air Freight & Insurance Charges + Custom Duty & Custom Clearance charges+ GST if Any + Agency commission if any + Door delivery & Insurance charges upto GBP + Installation, commissioning & Training charges if any + Cost of complete accessories/spares & consumables for complete installation & demonstration of the equipment.

Or

b. CIP/CIF, (Named port of destination) price + Custom Duty & Custom Clearance charges+ GST if any + Agency commission if any + Door delivery & Insurance charges upto GBP + Installation, commissioning & Training charges if any + Cost of complete accessories/spares & consumables for complete installation & demonstration of the equipment. In such cases all incidental charges incurred in India shall be paid to suppliers Indian Agent in Rupees

- 2.3.9 In case bidder agrees to deliver the item on CIF/CIP (named port of shipment) with no extra cost or incidental charges towards door delivery & installation of the equipment, the order will be placed on CIP/CIF term.

- 2.3.10 Otherwise GBP may at its discretion may place the order on CIF/CIP term in foreign currencies and pay the other incidental charges to be incurred in India to the suppliers Indian Agent after complete installation & demonstration of the equipment.

## 2.4 **DELIVERY & INSTALLATION**

- 2.4.1 For indigenous Supplier the entire job comprising delivery & installation has to be done at Guwahati Biotech Park within 30 days from the date of the order. In case of any damage or late delivery, the Administration of GBP reserves the right not to accept the consignment.

- 2.4.2 **In case of imported item, the shipment has to be delivered at Guwahati Biotech Park, Technology complex, IIT Guwahati within 45 days from the date of establishment of LC or FDD.**
- 2.4.3 For purchase order placed on CIP/CIF, basis, the vendor must take necessary steps for custom clearance at Air/Sea Port and arrange to make door delivery of the equipment at Guwahati Biotech Park at their own cost. Guwahati Biotech Park will arrange to provide necessary custom clearing documents and road permit as and when necessary. No other delivery term shall be accepted. The Price evaluation will be carried out only on the basis of the Lump sum door delivery cost.
- 2.4.4 For arrangement of custom clearing document and Road permit one set of original dispatch document has to be sent to Guwahati Biotech Park office soon after material is shipped.
- 2.4.5 While transshipment will be allowed, part shipment will not be allowed.

**2.5 SAFE DELIVERY OF GOODS::**

All aspects of safe delivery shall be the exclusive responsibility of the supplier. The supplier shall ensure that packing shall be sufficient to withstand rough handling during transit and exposure to different weather conditions. Also adequate markings & instructions shall be provided outside the boxes for proper handling during transit. At the destination site the packing will be opened in presence of Guwahati Biotech Park user/representative. The proper commissioning will be the basis for receipt in good condition. In case of any damage, GBP reserves the right not to accept the consignment.

**2.6 SHIPMENT/DELIVERY DOCUMENTS:**

- 2.6.1 For goods being supplied from within India the supplier has to furnish the following documents:
  - a. Three copies of Invoice in original indicating inter-alia description of goods, specifications, quantity, unit price, GST wherever applicable and total amount etc.
  - b. Packing list
  - c. Certificate of country of origin
  - d. Insurance certificate wherever applicable
  - e. Railway receipt/Consignment Note
  - f. Manufacturer's Warranty certificate & In-house inspection certificate &
  - g. Any other document as per the terms of contract.

Within 24hrs of dispatch, the supplier has to intimate the dispatch details to the purchaser through email/fax/courier etc.

- 2.6.2 For goods being supplied from abroad: Within 24hrs of dispatch, the supplier shall notify the purchaser the complete details of dispatch through email/fax and supply the following documents by courier/registered post etc.
  - a. Three copies of Invoice in original giving full details of goods supplied as per order
  - b. Packing list
  - c. Certificate of country of origin
  - d. Insurance certificate wherever applicable
  - e. Manufacturer's Warranty certificate & In-house inspection certificate
  - f. Airway Bill/Bill of lading indicating date of shipment, port of loading & Port of discharge
  - g. Name of the Vessel/Carrier
  - h. Approximate date of arrival and any other document as per terms of the order.

Also the supplier has to provide the details of their clearing & forwarding agent (CHA) to furnish the custom clearing documents in a manner to avoid demurrage or warehouse charges at Airport.

**2.7 LIQUIDATED DAMAGES(for both foreign & indigenous supplier)**

Time and date of supply & completion of Installation shall be the essence of the CONTRACT. In the event of delayed delivery, installation & commissioning i.e. after the expiry of the period as agreed by both parties, the vendor shall be liable for a penalty deduction at a percentage of the value of the undelivered equipment subject to a maximum of 10% as detailed below:

@ 1% to one week

- @ 2.5% upto two weeks
- @ 5% upto three weeks
- @ 10% for four weeks and above

For the purpose of this clause, part of the week is considered as a full week.

**2.8 PRE-INSTALLATION REQUISITES**(both foreign & indigenous)

Offers shall include all the necessary relevant accessories/spares & consumables for installation of the equipment in a manner such that the installation shall not degrade the characteristics of operation of the equipment under ambient conditions. Pre-installation requisites (electrical/floor/space/air-conditioning etc.) if any should be invariably mentioned clearly.

**2.9 TRANSIT INSURANCE:**

Both foreign & indigenous supplier has to insure the consignment against all risk such as theft, loss or damage during transit. In the event of a claim on Insurance companies, the supplier has to co-ordinate with the purchaser giving full details of dispatch to lodge a complaint. The consignment will be opened in presence of supplier's representative to ascertain any loss or damage.

**2.10 WARRANTY & GUARANTEE:**

- 2.10.1 The warranty shall remain valid for 36 months from the date of installation or 39 months from the date of shipment whichever is earlier. The warranty shall cover all items (i.e. the equipment and its spares, UPS, Computer, Printer etc.) except consumables/accessories required for installation of the equipment.
- 2.10.2 The warranty on the associated software should cover providing the upgraded versions at free of cost during the warranty period.
- 2.10.3 Materials & workmanship: Supplier shall fully warrant that all the stores supplied under the CONTRACT shall be new and of first quality according to the specifications and shall be free from defects (even concealed faults, materials & workmanship). The supplier shall provide a Guarantee certificate of the equipment and its accessories against poor workmanship, bad quality of material used, faulty design and performance figures.
- 2.10.4 Should any defects be noticed in work, within warranty period GBP shall inform SUPPLIER and SUPPLIER shall immediately on receipt of such intimation, depute their personnel within 3 days to investigate the causes of defects and arrange rectification/replacement/modification of the defective material at site without any cost to GBP within a reasonable period. GBP shall be free to take such corrective action as may be deemed necessary at suppliers' risk and cost after giving notice to the supplier.
- 2.10.5 Damage to the work due to incomplete and erroneous instructions issued by the supplier will be the responsibility of the supplier and will be treated according to the provisions of warranty clause. Normal wear and tear shall not come under purview of this clause.
- 2.10.6 In case defects are of such nature that material shall have to be taken to suppliers' works for rectification etc., supplier shall take the MATERIAL at his costs after giving necessary undertaking. GBP shall, if so required by the supplier, dispatch the material by quickest mode at their risk. Material thereof replaced shall have further warranty for a period of as specified earlier from the date of acceptance.
- 2.10.7 For goods being supplied from abroad the principal should have local logistic support & service personnel to provide spares and to undertake AMC beyond warranty period. The name of such Indian agent and contact details should be provided in the offer.
- 2.10.8 Supplier shall be liable if it is found failed to honor his obligation to repair or replace defective goods within a reasonable period of time or if supplier refuse to carry out work under the guarantee clause and implied guarantee conditions.

**2.11 INSPECTION/TESTING & ACCEPTANCE OF MATERIAL**

Inspection of material will be carried out by the competent personnel appointed by GBP. The material will be accepted only after the same has been found satisfactory after inspection and duly signed and sealed by the inspecting authority on completion of Installation & commissioning. The supplier shall ensure that the material to be supplied against this CONTRACT shall be individually inspected, tested

and analyzed in terms of the specifications attached to the tender and the relevant codes and practices specified therein by expression or implication. Supplier should provide Inspection report/ or Quality Assurance certificate from Manufacturer at the time of inspection.

**2.12 CHANGE ORDER (REVISION OR AMENDMENT)**

A change order will be initiated only in case (i) GBP directs the supplier in writing (amendment/revision), to include any addition to the Scope of Work covered under this CONTRACT or delete any part of the scope of the work under the CONTRACT (ii) supplier requests to delete any part of the order which will not adversely affect the operational capabilities of the facilities and if the deletions proposed are agreed to by GBP and for which cost and time benefits shall be passed on to GBP.

**2.13 QUANTITY IN ORDER;**

Normally quantity in orders shall be as per Checklist/BOQ mentioned in the Annexure-XI. However GBP reserves the right to vary the quantity at the time of placing the orders without changing the unit rates & other terms.

**2.14 PAYMENT SCHEDULE:**

**2.14.1** The Invoice raised by the Supplier shall be addressed to **Chief Executive Officer**, Guwahati Biotech Park, Technology complex, IIT Guwahati, Guwahati-781039 in quadruplicate.

**2.14.2** **In case of indigenous supplier** bills shall be submitted by the vendor on completion of INSTALLATION. Payment against clear undisputed invoice/bills submitted by the vendor will be made by GBP within 30 working days from the date of submission of bill/invoices, complete in all respects, generally through A/c payee cheque. In case payment is required by DD, the draft commission will be deducted from bill amount. All applicable taxes and penalties will also be deducted from the bill at source.

**2.14.3** GST Deduction at source as per Order/notification of the Govt. of India will be applicable.

**2.14.4** **Please note as per Organization's norm advance payment is not allowed for indigenous purchase.**

**2.14.5** **In case of Imported Goods, payment above \$ 10,000.00 shall be made by** an irrevocable letter of credit through any overseas branch of state bank of India with unrestricted provision or through FDD as per terms and conditions below;

**2.14.6** In case of payment by LC, 90% of the price will be paid against receipt of proof of dispatch such as AWB, Invoice, packing List, Insurance certificate etc. The remaining 10% shall be released only after receipt of satisfactory installation & commissioning report of the equipment.

**2.14.7** In case of payment by FDD, 100% payment by FDD will be made on the request made by the supplier. In this case on receipt of acknowledgement an FDD will be established for total ordered value, thereupon a scanned copy of FDD will be sent to enable the supplier to send the materials. The original FDD will be sent only after receipt of satisfactory installation & commissioning report of the equipment.

**2.14.8** **Please note that FDD/LC will not be opened unless and until Letter of acknowledgement in original is received at Guwahati Biotech Park, directly from the Principal (even in case of firms having subsidiary office in India). The Indian agents are therefore advised to submit quotations after consultation with their respective principals.**

**2.14.9** **Country of Origin:** While the country of origin will not be insisted, the same however will have to be stated in the original Invoice for payment through LC.

**2.14.10** **LC Amendment:** LC/FDD amendment charges due to mistake on the part of the supplier, if any, will have to be borne by the supplier.

**2.14.11** **Below \$10,000.00 Wire transfer as given below:**

90% of the price will be paid in advance against proof of dispatch such as AWB, Invoice, Packing list, Insurance certificate etc. from a scheduled bank provided by the supplier/Indian agent. The remaining 10% shall be released only after receipt of Inspection Report or satisfactory installation & commissioning report of the equipment.

**2.14.12** **In all cases, the bidders should invariably provide the following information:**

- a. Name & complete address of the supplier as per bank records
- b. Name & Address of the bank with Branch details
- c. Bank Account No. and indicate the core Bank Account no. if any.
- d. IFSC/NEFT/MICR code etc.
- e. PAN/TIN & GST Registration no. in case of Indigenous suppliers.

- 2.15 **CATALOGUES/MANUAL:**  
Tenderer shall submit manufacturers' technical specifications and catalogues, operation manual, literature, diagrams, photographs etc. of goods offered thereby facilitating technical evaluations.
- 2.16 **SHORT SHIPMENT:**  
If any short-shipment is noticed, the same will be arranged immediately with all charges to this effect to be borne by supplier/Indian agent.
- 2.17 **GENUINE PRICING** (both foreign & indigenous supplier):  
Vendor is to ensure that quoted price is not more than the price offered to any other customer in India to whom this particular item has been sold. Copy of the latest price list for the quoted item, applicable in India, must be enclosed with your offer.
- 2.18 **CONDITIONAL TENDERS** (both foreign & indigenous):  
Conditional tenders shall not be accepted on any ground and shall be rejected straightway. In other word, printed conditions mentioned in the tender bids submitted by vendors will not be binding on Guwahati Biotech Park. All the terms and conditions for supply, payment terms, penalty etc. will be as those mentioned herein and no change in the terms and conditions by the vendors will be acceptable.
- 2.19 **ENQUIRY DURING EVALUATION:**  
No enquiry shall be made by the bidders during the course of evaluation of the tender till the final decisions conveyed to the successful bidder(s). However, the committee/its authorized representative can make any enquiry/seek clarifications from the bidders. In such situation, the agency shall extend full co-operation.
- 2.20 **TERMINATION OF DEFAULT:**
- 2.20.1 Default is said to have occurred
- If the supplier fails to deliver any or all of the services within the time period(s) specified in the purchase order or any extension thereof granted by GBP.
  - If the supplier fails to perform any other obligation(s) under the contract.
- 2.20.2 If the vendor, in either of the above circumstances, does not take remedial steps within a period of 30 days after receipt of default notice from **CEO, Guwahati Biotech Park** (or takes longer period in spite of what GBP may authorize in writing), GBP may terminate the contract/purchase order in whole or in part and forfeit the EMD/PBG as applicable. In addition to above, GBP may at its discretion also take the following actions: GBP may procure, upon such terms and in such manner, as it deems appropriate, goods similar to the undelivered items/products and the defaulting supplier shall be liable to compensate GBP for any extra expenditure involved towards goods and services obtained.
- 2.21 **APPLICABLE LAW & ARBITRATION**(both foreign & indigenous):
- 2.21.1 The contract shall be governed by the laws and procedures established by Govt. of India and subject to exclusive jurisdiction of competent Court & forum in Guwahati, India only.
- 2.21.2 In case of dispute or difference arising between Purchaser and a Supplier, such disputes shall be settled in accordance with rules and provision under the **Indian Arbitration & Conciliation Act., 1996.**
- 2.21.3 Any dispute arising out of this purchase shall be referred to the CEO, Guwahati Biotech Park, and if either of the parties hereto is dissatisfied with the decision, the dispute shall be referred to the decision of an arbitrator, who should be acceptable to both the parties, to be appointed by the CEO, GBP. The decision of such arbitrator shall be final and binding on both the parties.
- 2.21.4 In case any dispute arising in between purchaser and a foreign bidder cannot be settled under the provision mentioned above, such disputes shall be settled in accordance with the provision of UNCITRAL (United Nations Commission on International Trade law).
- 2.22 **LIABILITY IN CASE OF JOINT VENTURE, CONSORTIUM OR ASSOCIATION/AMALGAMATION/ ACQUISITION & PATENT RIGHT:**
- 2.22.1 If the supplier is a Joint venture, consortium or association, all of the parties concerned shall be jointly and severally liable to GBP for fulfillment of the obligations under the contract. The composition of the Joint venture, consortium or association shall not be altered without prior consent of the purchaser.
- 2.22.2 Amalgamation/Acquisition: In the event of Manufacturer/Supplier proposes for amalgamation, acquisition or sale of its business to any firm during the performance of the contract, the buyer/successor of the Principal company are liable for fulfillment of obligations under the contract.
- 2.22.3 Patent Indemnity: The supplier shall also indemnify and hold harmless the purchaser and its employees and officers from and against any or all suits, actions or administrative proceedings,

claims, demands, losses, damages, costs and expenses of any nature including attorneys fees and expenses, which the purchaser may suffer as a result of any infringement or alleged infringement of any patent, utility model, design, trademark, copyright or other intellectual property right registered or otherwise existing at the date of the contract by reason of:

- a. the installation of the Goods by the Supplier or the use of the Goods in India; and
- b. the sale in any country of the products produced by the goods.

## 2.23 **FORCE MAJEURE**

2.23.1 The supplier shall not be liable for failure to perform its obligations under the contract in the event of Force Majeure. The term "Force Majeure" as employed herein shall mean acts of God, War, Civil Riots, Fire directly affecting the performance of the supplier, Flood and Acts and Regulations of respective government of the two parties, namely GBP and the supplier.

2.23.2 Upon the occurrence of such cause and upon its termination, the party alleging that it has been rendered unable as aforesaid thereby, shall notify the other party in writing, the beginning of the cause amounting to Force Majeure as also the ending of the said clause by giving notice to the other party within 72 hours of the ending of the cause respectively. If deliveries are suspended by Force Majeure conditions lasting for more than 2 (two) months, GBP shall have the option of canceling this CONTRACT in whole or part at his discretion without any liability at his part.

## 2.24 **CONSIDERATION OF TENDER**

2.24.1 **The acceptance of the offers will rest solely with the CEO**, Guwahati Biotech Park, who in the interest of the organization reserves the right to himself to reject or partially accept any or all the quotations received without assigning any reason.

2.24.2 Guwahati Biotech Park decision shall be final and binding and no claims/representations in this regard shall be entertained. Guwahati Biotech Park reserves the right to accept or reject any or all the bids and to withdraw or cancel entire bidding process without assigning any reasons whatsoever. Mere submission of bid by the bidder does not vest any right in them for being selected.

**Sd-/  
Chief Executive Officer  
Guwahati Biotech Park**

## ANNEXURE-I.

### Proforma of Bank Guarantee

Ref. No.....

Bank Guarantee No.....

Dated .....

To  
Chief Executive Officer  
Guwahati Biotech Park  
Technology complex, IIT Guwahati  
Guwahati781039

Dear Sir,

Whereas **Guwahati Biotech Park** having its office at Technology Complex, IIT Guwahati, Guwahati-781039 (hereinafter called 'PURCHASER' which expression shall unless repugnant to the context or meaning thereof include all its successors, administrators, executors and assignees) has floated a Tender No. \_\_\_\_\_ and M/s \_\_\_\_\_ having Head/Registered office at \_\_\_\_\_ (hereinafter called the 'Bidder' which expression shall unless repugnant to the context or meaning thereof mean and include all its successors, administrators, executors and permitted assignees) have submitted a bid Reference No..... and Bidder having agreed to furnish an unconditional and irrevocable Bank Guarantee of Indian Rupees (in figures)\_\_\_\_\_ (Indian Rupees(in words)\_\_\_\_\_ only) as a security for compliance with the Supplier's performance obligation in accordance with the Purchase order no.....dated..... which amount is liable to be forfeited on the happening of any contingencies mentioned in said documents.

We (name of the bank)\_\_\_\_\_ registered under the laws of \_\_\_\_\_ having head/registered office at \_\_\_\_\_ (hereinafter referred to as "the Bank" which expression shall, unless repugnant to the context or meaning thereof, include all its successors, administrators, executors and permitted assignees) guarantee and undertake to pay immediately on first demand by Guwahati Biotech Park, the amount of Indian Rs....(in figures) \_\_\_\_\_ (Indian Rupees(in words) \_\_\_\_\_ only) in aggregate at any time without any demur and recourse, and without Guwahati Biotech Park having to substantiate the demand. Any such demand made by Guwahati Biotech Park shall be conclusive and binding on the Bank irrespective of any dispute or difference raised by the Bidder.

The Bank confirms that this guarantee has been issued with observance of appropriate laws of the country of issue. The Bank also agree that this guarantee shall be irrevocable and governed and construed in accordance with Indian Laws and subject to exclusive jurisdiction of Indian Courts of the place from where tenders have been invited.

This guarantee shall be irrevocable and shall remain in force upto \_\_\_\_\_ which includes thirty days after the period of bid validity and any demand in respect thereof should reach the Bank not later than the aforesaid date.

Notwithstanding anything contained hereinabove, our liability under this Guarantee is limited to Indian Rs...(in figures)\_\_\_\_\_ and our guarantee shall remain in force until (indicate the date of expiry of bank guarantee) \_\_\_\_\_.

Any claim under this Guarantee must be received by us before the expiry of this Bank Guarantee. If no such claim has been received by us by the said date, the rights of Guwahati Biotech Park under this Guarantee will cease. However, if such a claim has been received by us by the said date, all the rights of Guwahati Biotech Park under this Guarantee shall be valid and shall not cease until we have satisfied that claim. In witness whereof, the Bank, through its authorised officer, has set its hand and stamp on this ..... day of ..... at .....

WITNESS

-----  
(Signature)  
Full name and official  
address (in legible letters)

-----  
(Signature)  
Full name, designation and  
official address (in legible  
letters) with Bank stamp.

Dated .....

**Annexure-II**

**Price Schedule For Goods Being Offered From Abroad**

**Name of the Bidder:**

**NIT No. & Date:**

**Offer/Quotation No. & Date:**

**Name of the Item:**

**Make/Model No.:**

**Country of origin:**

**Currency:**

SL No.	Description of Items			Qty.	Unit.	Rate	Amount
	Part No./Catalogue No.	Item Name	Specifications				
	Required Spares/ Consumables (if any)						
	Accessories (if any)						
	Additional Items						
	Total Ex-works price						
	Less: Discount if any						
	Net Ex-work Price						
	Packing & forwarding charges if any						
	FOB/FCA .....(named port) price						
	Overseas Freight & Insurance						
	Total CIP/CIF, .....(named port in India) (if not CIP/CIF Guwahati)						
	Custom Duty, if any (as applicable)						
	Custom Clearance charges if any						
	GST (as applicable)						
	Charges for inland transportation, insurance up to Guwahati Biotech Park (if not CIP/CIF Guwahati)						
	Installation & commissioning charge, if any						
	Any other charge/s, if any						
	Grand total on door delivery at Guwahati Biotech Park						

Signature & seal of Bidder

**Note: Bidder may use additional rows/sheets if necessary keeping the format same.**

**ADDITIONAL INFORMATON:**

<b>Term</b>	<b>Condition</b>	<b>Remark if any</b>
<b>Validity of Price bid Upto:</b>		
<b>Delivery term(INCOTERM):</b>		
<b>Delivery Schedule:</b>		
<b>Mode of Shipment; (Sea/Air/Road/Rail)</b>		
<b>Port of Destination/Discharge</b>		
<b>Final destination/Place of delivery</b>	<b>Guwahati Biotech Park (GBP), Technology Complex, IIT Guwahati</b>	
<b>Warranty Period:</b>		
<b>Payment Term:</b>		
<b>Payment option: (LC/FDD etc.)</b>		
<b>Annual Maintenance Charges:</b>	<b>Comprehensive</b>	
	<b>Non-Comprehensive</b>	
<b>Indian agents name &amp; address</b>		

**Note:**

- a. Quoted price should be inclusive of 3yrs Warranty at free of Cost.
- b. Custom Duty Certificate: Custom duty exemption certificate as applicable will be issued against receipt P.O. Acknowledgement.
- c. In case of bidder quote in CIP/CIF, (named port) term, the other charges such as agency commission if any, Custom duty & clearance charges, Inland freight & insurance charges upto GBP, Installation & Commissioning charges if any will be paid in Indian Currencies.
- d. The Indian agent's commission shall be paid in Indian Rupees only based on the Exchange Rate prevailing on the date of negotiation of documents.
- e. The cost of optional items shall be indicated separately.
- f. The L1 bid will be evaluated by comparing the landing cost of all bids in the same currency i.e.in Rupees. The landing cost will comprise of Cost of the equipment along with complete accessories for installation of the same+ all charges, taxes & duties etc.
- g. (g) The selling exchange rate on the date opening of price bid will be considered for conversion of foreign currencies.

Signature & seal of Bidder

**Annexure-III**

**Price Schedule For Goods Being Offered From India.**

**Name of the Bidder:**

**NIT No. & Date:**

**Offer/Quotation No. & Date:**

**Name of the Item:**

**Make/Model No.:**

**Country of origin:**

SL No.	Description of Items			Qty.	Unit.	Rate	Amount	GST & other taxes applicable if any	Total
	Part No./ Catalogue No.	Item Name	Specifications						
	Required Spares/Consumables (if any)								
	Accessories (if any)								
	Additional Items								
	Net Ex-work Price								
	GST (as applicable)								
	Packing & forwarding up to Guwahati Biotech Park, if any								
	Charges for inland transportation, insurance up to Guwahati Biotech Park								
	Installation Commissioning and training Charges, if any								
	Total F.O.R., Guwahati Biotech Park Price								
	Total Bid price (F.O.R., GBP) in words.....								

Signature & seal of Bidder

**Note: Bidder may use additional rows/sheets if necessary keeping the format same.**

**ADDITIONAL INFORMATION:**

<b>Term</b>	<b>Condition</b>	<b>Remark if any</b>
<b>Validity of Price bid Upto:</b>		
<b>Delivery term:</b>		
<b>Delivery Schedule:</b>		
<b>Mode of Shipment; (Rail/Road/Air)</b>		
<b>Port of Destination/Discharge</b>		
<b>Final destination/Place of delivery</b>	<b>Guwahati Biotech Park (GBP), Technology Complex, IIT Guwahati</b>	
<b>Warranty Period:</b>		
<b>Payment Term:</b>		
<b>Annual Maintenance Charges:</b>	<b>Comprehensive</b>	
	<b>Non-Comprehensive</b>	

**Note:**

- a. Quoted price should be inclusive of 3yrs Warranty at free of Cost.
- b. Custom Duty Certificate: Custom duty exemption certificate as applicable will be issued against receipt P.O. Acknowledgement.
- c. Road Permit: Road Permits (Waybills) shall be issued as applicable for delivery of materials against receipt of Order Acknowledgement and Proforma Invoice.

Signature & seal of Bidder

**Annexure-IV**

**Bidder Information Form**

- a) The Bidder shall fill in this form in accordance with the instructions indicated below. No alternations to its format shall be permitted and no substitutions shall be accepted. This should be done of the letter head of the firm

Date: (of Bid Submission)

Tender No.: (insert number from invitation for bids)

Page 1 of \_\_\_\_\_ pages

1. Bidder's Legal Name:
2. In case of JV, legal name of each party:
3. Bidder's actual or intended Country of Registration:
4. Bidder's Year of Registration:
5. Bidder's Legal Address in Country of Registration:
6. Bidder's Authorized Representative Information Name: (Authorized Representative's name) Address: (Authorized Representative's Address) Telephone/Fax numbers: (Authorized Representative's Telephone/Fax numbers) Email Address: (Authorized Representative's Email Address)
7. Attached are copies of original documents of: (check the boxes of the attached original documents) Articles of Incorporation or Registration of firm named in 1, above , in accordance with ITB Clauses ... and ...

Signature of Bidder \_\_\_\_\_

Name \_\_\_\_\_

Business Address

**Annexure-V**

**Manufacturer's Authorization Form**

The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer.

Date: (date of Bid submission)

Tender No.: (insert number from invitation for bids)

To: (Complete name and address of Purchaser)

Whereas

We (complete name of the manufacturer), who are official manufacturers of (type of goods manufactured), having factories at (full address of manufacturer's factories), do hereby authorize (complete name Bidder) to submit a bid the purpose of which is to be provide the following Goods, manufactured by us (name and or brief description of the goods), and to subsequently negotiate and sign the contract.

We hereby extend our full guarantee and warranty in accordance with Clause ..... of the General Conditions of Contract, with respect to the Goods offered by the above firm.

Signed: (signature(s) of authorized representative(s) of the Manufacturer)

Named: (complete name(s) of authorized representative(s) of the Manufacturer)

Title:

Duly authorized to sign this Authorization on behalf of: (complete name of Bidder)

Dated on \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ (insert date of signing)

**Annexure-VI**  
**BID SECURITY FORM**

Whereas \_\_\_\_\_  
(Hereinafter called the tenderer)

Has submitted their offer dated \_\_\_\_\_

For the supply of \_\_\_\_\_  
(Hereinafter called the tender)

Against the purchaser's tender enquiry no. \_\_\_\_\_

KNOW ALL MEN by these presents that WE \_\_\_\_\_ of  
\_\_\_\_\_ having our registered office at  
\_\_\_\_\_ are bound unto \_\_\_\_\_ (hereinafter called the  
"Purchaser")

In the sum of \_\_\_\_\_

For which payment will and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

The Conditions of this Obligation are:

- (1) If the tenderer withdraws or amends, impairs or derogates from the Tender in any respect within the period of validity of this tender.
- (2) If the tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity:
- (3) If the tenderer fails to furnish the Performance Security for the due Performance of the contract.
- (4) Fails or refuses to accept/execute the contract.

We undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to owing to the occurrence of one or both the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including 45 days after the period of tender validity and any demand in respect thereof should reach the Bank not later than the above date.

\_\_\_\_\_  
(Signature of the authorized officer of the Bank)  
Name and designation of the officer

Seal, name & address of the Bank and address of the Branch

**Annexure-VII  
 BIDDER'S PAST SERVICES (SIMILAR) PROFORMA**

**Performance Statement Form**

**(For a period of last 3 years)**

**Name of the Firm.....**

Order Placed by (full address of Purchaser)	Order No. and Date	Description and quantity of ordered equipment	Value of order	Date of completion of delivery as per contract	Date of actual completion of delivery	Remarks indicating reasons for late delivery, if any	Has the equipment been installed satisfactory? (attach a certificate from the Purchaser/Consignee	Contact person along with Telephone No., FAX No. and email-address

Signature and Seal of the manufacturer/ Bidder.....

Place:

Date:

**Annexure-VIII**

**Deviation Statement Form**

1) The following are the particulars of deviations from the requirements of the tender specifications:

Clause	Deviation	Remarks (Including Justification)

Place:

Date:

Signature and Seal of the  
Manufacturer/Bidder

NOTE:

- 1) Where there is no deviation, the statement should be returned duly signed with an endorsement indicating "No Deviation".

**Annexure-IX**

**Service Support Detail Form**

Sl No.	Nature of training imparted	List of similar type equipments serviced in the past 3 years	Address, Telephone Nos., FAX Nos. and email address

Signature and Seal of the Manufacture/Bidder .....

Place:

Date:

**Annexure-X**  
**Bid Form**

(The Bidder shall fill in this form in accordance with the instructions indicated no. alternations to its format shall be permitted and no substitutions shall be accepted)

Date: (date of Bid Submission)  
Tender no.: (NIT No.)  
To: (complete name of Purchaser)

We, the undersigned, declare that:

- (a) We have examined and have no reservation to the Bidding Documents, including Addenda No.: (insert the no. and issuing date of each Addenda).
- (b) We offer to supply in conformity with the Bidding Documents and in accordance with the Delivery Schedule specified in the schedule of requirements the following Goods and related Services (a brief description of the Goods and Related Services).
- (c) The total price of our bid, excluding any discounts offered in item (d) below is: (the total bid price in words and figures, indicating the various amounts and the respective currencies).
- (d) The discounts offered and the methodology for their application are:  
**Discounts.** If our bid is accepted, the following discounts shall apply. (specify in details each discount offered and the specific item of the Schedule of Requirements to which it applies).
- (e) Our bid shall be valid for the period of **120 days** and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
- (f) If our bid is accepted, we commit to obtain a performance security in accordance with ITB Clause no.... and GCC Clause ... for the due performance of the Contract.
- (g) The following commissions, gratuities, or fees have been paid or are to be paid with respect to the bidding process or execution of the Contract: (insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity).

Name of Recipient	Address	Reason	Amount

(If none has been paid or is to be paid, indicate "none")

- (h) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed.
- (i) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

Signed: (insert signature of person whose name and capacity are shown)  
In the capacity of (insert legal capacity of person signing the bid submission form)

Name: (insert complete name of person signing the bid submission form)

Duly authorized to sign the bid for and on behalf of: (insert complete name of bidder)

Dated on \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ (insert date of signing)

## Annexure-XI

CHECKLIST (BOQ)

ITEM NO.	NAME OF THE ITEM	QUANTITY	PAGE No.
<b>BIOPROSPECTING FACILITY</b>			
1.	DIAPHRAGM PUMP	1	29
2.	SOXHLET UNIT	1	30
3.	AUTOPROGRAMABLE CRYOCAN	1	31
4.	MECHANICAL STIRRER WITH SPEED CONTROL	1	32
5.	REACTOR AUTOCLAVE	1	33
6.	HYDROGENATION APPARATUS	1	34
7.	MICROWAVE OVEN	1	35
8.	DIGITAL BATH PLATE	1	36
9.	KINETIC BATH PLATE	1	37
10.	NUTCHE FILTER 30 Ltrs. SS WITH STAND	1	38
11.	HIGH VACUUM PUMP	1	39
<b>HERBAL EXTRACTION FACILITY</b>			
12.	VACUUM DRYER 48 TRAYS	1	40
13.	HAMMER MILL WITH DUST EXTRACTION SYSTEM OF 300 KG/HR	1	41
14.	SS-316 OPEN TOP AND BOTTOM DISHED END VESSEL WITH DISTILLATION COLUMN AND RECEIVER ASSEMBLY ( VESSEL = 500 LT.	1	42
15.	SS-304 CYLINDRICAL TANKS FOR STORAGE OF 1000 LTS	1	42
16.	PROCESS PUMP SETS	1	42
17.	SS-304 FILTER PRESS WITH 18" DIAMETER WITH TRANSFER PUMPS	1	43
18.	PORTABLE MECHANICAL SIFTER OF 20" DIAMETER	1	44
19.	DIESEL FIRED BOILER WITH 600 KG/HE CAPACITY	1	45
20.	TRAY DRYER – 96 TRAYS	1	46
21.	STIRRERS TABLE TOP	1	47
22.	SPRAY DRYERS (50LT/HR)	1	48-49
23.	FALLING FILM EVAPORATOR	1	50
24.	DISTILLATION EQUIPMENT	1	51
<b>FERMENTATION FACILITY</b>			
25.	PERISTALTIC PUMP	1	52
<b>UTILITIES</b>			
26.	DRY HEAT STERILIZER	1	53
27.	NITROGEN GENERATOR	1	54
28.	(I) BOILER FOR R&D, PP WORK & ACCESSORIES (II) BOILER	1	55
<b>MISCELLANEOUS (EQUIPMENTS REQUIRED IN MORE THAN ONE FACILITY)</b>			
29.	LAMINAR FLOW HOOD	Multiple numbers	56-57
30.	DEHUMIDIFIER	Multiple numbers	58

## Annexure-XII

### TECHNICAL SPECIFICATIONS

#### 1. SPECIFICATION FOR 'DIAPHRAGM PUMP'

**Diaphragm Pump with following feature and specification:**

1. Efficient, chemically resistant diaphragm pump for laboratory use for applications like vacuum distillation, vacuum filtration, gel drying or the transfer of corrosive/toxic gases etc
2. Wetted parts should be made of high quality durable material
3. Ultimate vacuum: around 700 mbar
4. Flow rate: 10-15 lit/min
5. 100% contamination free (oil free) transfer
6. Vibration free
7. Noise free
8. High class safety and protection
9. Operating voltage: 230 V; 50/60Hz

**Essential Accessories & Spares:**

- Vacuum gauge
- Moisture Trap/ Solvent Trap
- Rubber/silicon Tubing
- Sealing/Gasket

***Note: The equipment should be provided with all necessary accessories and spare***

**Kindly quote break up cost for each item**

**Spares and accessories should be quoted separately**

**A warranty of minimum of 3 years should be provided for the above specifications.**

## **2. SPECIFICATION FOR SOXHLET**

- Two position fully automatic soxhlet extraction unit.
- Systems should work as per the principles of Soxhlet Extraction and not a modified Hot Extraction.
- System should have an Optical tank level sensor to monitor solvent level.
- Built-in solvent library to select the required solvent and parameters for extraction.
- There should have provisions for using lesser positions than the total places provided.
- Easy cleaning and routine maintenance.
- The resident software should have an easy to use with self explanatory guides and step by step choices offered throughout the menus.
- There should be flexible system to ensure absolute tightness even under extreme conditions.
- There should be provisions to store customized methods.
- Chiller connectivity for better recovery rate and better efficiency of the system.
- All parts coming in contact with reagents should be inert.
- Capacity 700/1200W
- Interface RS 232
- Suitable Chiller to be quoted with the system

***Note: The equipment should be provided with all necessary accessories and spare***

**Kindly quote break up cost for each item**

**Spares and accessories should be quoted separately**

**A warranty of minimum of 3 years should be provided for the above specifications.**

### **General**

- The system quotation should include all needed specific site needs along with their description of such requirements for the quoted system except power distribution point availability that would be provided by the institute. Critical piping needed for standard installation and operation should also be quoted with price as included.
- The bidders must agree to undertake that the system would be transported and re installed again at permanent campus of Guwahati Biotech Park free of cost if so required during next five years.
- The system should be suited to Indian system of electrical inputs (220V/ 50Hz).

**ANNUAL MAINTENANCE CHARGES:** The party must mention in the rate/amount of annual maintenance charges, if we opt for maintenance contract after expiry of the warranty period. This is mandatory to mention (AMC charges should be mentioned only in the commercial bid).

### **3. SPECIFICATION FOR AUTOPROGRAMMABLE CRYOCAN**

**Autoprogrammable cryocan is required for long term storage of samples cryovials in cryobox racks and Canisters in liquid nitrogen**

#### **General Specifications:**

- Should be made of high-strength aluminium alloy
- Capacity- 30-35 ltrs
- Static evaporation loss mass: 0.1-0.4 l/d for all the tanks
- Static holding time: 100 days or better
- No. of Canisters: 6-9 ea
- Straw Holding capacity (Single level) (0.5 ml): 720 or better
- (0.25 ml): 1600 or better
- Straw Holding capacity (Double level) (0.5 ml): 1284 or better
- (0.25 ml): 2832 or better
- It should be fitted with an automated self-pressurized withdrawal device to easily dispense LN<sub>2</sub> without pouring.
- High vacuum with super insulation capacity for all the tanks
- Storage tanks should have the provision for storage in Canisters
- Portable or the transfer tanks should also have the provision for storage
- Cryocans should equipped with liquid nitrogen level monitor, temperature monitoring device and low liquid nitrogen level alarm system

#### **Optional Accessories:**

1. Refilling device, SS Funnel, Tilting trolley, Transfer device, other liquid nitrogen withdrawal device etc.
2. Canisters (single or double level), container protector, cryowares (gloves, musk etc), cryovial /SS racks for storage etc should be quoted separately.

#### **Note:**

- **The equipment should be provided with all necessary accessories and spare**
- **Kindly quote break up cost for each item**
- **Spares and optional accessories should be quoted separately**
- **A warranty of minimum of 3 years should be provided for the above specifications.**

#### **4. SPECIFICATION FOR 'MECHANICAL STIRRER WITH SPEED CONTROL'**

- High reliability, long continuous service, outstanding performance
- Digital speed display, with a speed range from 50 to 2200rpm.
- The control accuracy of  $\pm 3$  rpm or better
- Brushless DC motor drive, maintenance free and explosion-proof
- LCD display for precise monitoring set and actual speeds
- Torque trend display for real-time information on viscosity changes
- Protection - Safety circuits installed to ensure automatic cut-off in an anti-stall or overload conditions
- Gradual excelleration to prevent spills and splashing media
- Provides a constant speed even with changes in viscosities of the sample
- RS232 interface- PC can control and document all operation
- Max. stirring quantity(H<sub>2</sub>O)[L]: 40 L
- Overload protection LED lights, motor automatic stops
- Viscosity max. [mPas]:50000

**Note:**

- **The equipment should be provided with all necessary accessories and spare**
- **Kindly quote break up cost for each item**
- **Spares and optional accessories should be quoted separately**
- **A warranty of minimum of 3 years should be provided for the above specifications.**

ANNUAL MAINTENANCE CHARGES: The party must mention in the rate/amount of annual maintenance charges, if we opt for maintenance contract after expiry of the warranty period. This is mandatory to mention (AMC charges should be mentioned only in the commercial bid).

## **5. SPECIFICATION FOR 'REACTOR AUTOCLAVE'**

### **High Pressure stirred autoclave reactor with high safety system**

#### **Specifications:**

##### **Vessel Capacity/Pressure/Temperature:**

- Capacity: around 500 ml & 2 Ltr
- Min./max. Pressure: 0-120bar
- Min./max. temperature: 0-250°C

##### **Agitator/Stirrer:**

- Speed: variable speed up to around 1500-RPM or better
- **Heating System:** Electronic Ceramic Band Heater with effective insulation through good insulating material like ceramic wool etc
- **Control Panel:** Compact, easy to use digital control panel with clear visibility, microprocessor based programmable PID temperature controller cum indicator
- **Design, Construction & Safety:** Trolley mounting autoclave system; Movable head mounting, removable head and vessel design with quick opening system, all wetted parts are made of stainless steel (SS-316 or better), Gasket made of material like PTFE etc;
- **Maximum Head Openings:** 4 or more
- **Nozzles, Valves & Fittings:** Pressure gauge, vent needle valve, safety rupture disc, Internal cooling, thermo well (with temp. sensor), gas inlet & liquid sampling needle, Split ring closure with cap or screws and can be accommodated 4 or more openings; valve with common dip tube (Spurger)
- **Cover plate:** Cover plate with accessories

##### **Note:**

- **The equipment should be provided with all necessary accessories and spare**
- **Kindly quote break up cost for each item**
- **Spares and optional accessories should be quoted separately**
- **A warranty of minimum of 3 years should be provided for the above specifications.**

ANNUAL MAINTENANCE CHARGES: The party must mention in the rate/amount of annual maintenance charges, if we opt for maintenance contract after expiry of the warranty period. This is mandatory to mention (AMC charges should be mentioned only in the commercial bid).

## **6. SPECIFICATION FOR HYDROGENATION APPARATUS**

### **Hydrogenation Apparatus with high safety system**

#### **Specifications:**

- Hydrogenation Apparatus made of chemically resistant material
- Capacity: Max. 500mL (should accommodate reaction bottle of preferably 100ml, 250 ml & 500ml)
- Maximum Pressure: around 60 psi or better
- Maximum Temperature: around 80°C or better
- Tank pressure gauge/indicator and bottle pressure gauge/indicator
- Explosion proof motor with overall high safety
- High quality gas supply Hose/tubing
- Pressure gauge/Valves made of high quality material like SS
- Tight sealing provision with high quality material for leakage free operation
- Sturdy shaking mechanism for continuous and uniform shaking
- Minimum vibration & noise free
- The instrument should be CE certified

#### **Accessories:**

- Reaction Bottle (100ml, 250ml & 500 ml) made of high quality material (Borosilicate or better) and pressure tested
- Tube with fittings (for 100ml, 250ml & 500 ml)
- Suitable Heating mantle/Temperature controller/Water Cooling Jacket etc as per requirement of the system

#### **Note:**

- ***The equipment should be provided with all necessary accessories and spare***
- **Kindly quote break up cost for each item**
- **Spares and accessories should be quoted separately**
- **A warranty of minimum of 3 years should be provided for the above specifications.**

## **7. SPECIFICATION FOR 'MICROWAVE OVEN'**

**Laboratory grade Microwave Oven suitable for applications like Microwave tissue processing, Microwave-assisted fixation, Dehydration, Staining, histology, Infiltration, Decalcification, Antigen Retrieval, etc and other related applications**

### **Specification/ features:**

- Compact Laboratory Grade Microwave Oven with cavity volume of approx. 22-28 L
- Stainless steel interior & exterior
- Easy to clean oven chamber with thermal insulating non microwave absorbing and chemical resistant, stain-resistant floor , Illuminated interiors
- High Performance ventilation system to remove fumes etc./provision to connect to fume hood or other laboratory air handling system etc
- Multiple safety interlocks with shutdown and visual & alarms on errors and malfunctions
- Fully programmable; Multiple running modes,
- Different modes of operation (Dual Mode, Extended Timer, Count up and countdown Timing)
- Pre-warming facilities.
- Frequency: 2.45 GHz. – an ISM frequency
- Output: Around 1000 Watt maximum output power
- 4-5 different power levels/pulsing/cycling (ranging from low to high) with easy dial in feature
- Temperature uniformity & control: around  $\pm 0.5^{\circ}\text{C}$
- Adjustable air bubble agitation system
- Input power: 220-230 V/ 50-60Hz

### **Accessories:**

- 1) (i) Ventilation Hose/duct  
(ii) Processor Tray  
(iii) Microwave Transparent Containers  
(iv) Bowls for Histoprocessing and related processes
- 2) (i) Vacuum option  
(ii) Bowl for Vacuum Processor  
(iii) Cover of Vacuum Processor

### **Note:**

- ***The equipment should be provided with all necessary accessories and spare***
- **Kindly quote break up cost for each item**
- **Spares and accessories should be quoted separately**
- **A warranty of minimum of 3 years should be provided for the above specifications.**

## **8. SPECIFICATION FOR 'HIGH VACUUM PUMP'**

**High Vacuum Diaphragm Pump with following feature and specification:**

- Efficient, chemically resistant two stage diaphragm pump (combination pump) for laboratory use
- Ultimate vacuum: 2-5 mbar or better
- Flow rate: around 30 lit/min or better
- Pressure/vacuum indicator should be there
- 100% contamination free (oil free) transfer
- Gas blast valve should be manually operated
- Wetted parts should be made of high quality durable material
- Vibration free
- Noise free
- Thermistor controlled start up capacitor for start
- Imbedded thermostat system to be provided to cut out pump if motor overheats
- High class safety and protection
- Operating voltage: 230 V; 50Hz/60Hz

***Note:***

- ***The equipment should be provided with all necessary accessories and spare***
- ***Kindly quote break up cost for each item***
- ***Spares and accessories should be quoted separately***
- ***A warranty of minimum of 3 years should be provided for the above specifications.***

## **9. SPECIFICATION FOR 'DIGITAL BATH PLATE'**

### **Specifications**

- Heating plate should be made of one-piece superior quality chemically resistant material
- Block Capacity: 1
- Controller: PID Digital
- Temperature range: Ambient +5° to 130°C or better
- Temperature Uniformity:  $\leq \pm 1^{\circ}\text{C}$
- Temperature Accuracy:  $\leq \pm 0.5^{\circ}\text{C}$
- Timer Range: 0 to 99:59 min or continuous
- Digital controls and display of time and temperature
- Advanced internal temperature sensing probe for outstanding temperature accuracy and control
- Precise temperature control with PID circuit
- Temperature calibration to enable to offset the temperature to desired value
- Timer to allow the user to accurately monitor the heating time
- Wide range of interchangeable aluminium alloy heat blocks provide versatility and allow for easy cleaning and disinfecting
- Built-in over-temperature protection facility for sample and user safety
- Temperature deviation adjustment facility

### **Note:**

- ***The equipment should be provided with all necessary accessories and spare***
- ***Kindly quote break up cost for each item***
- ***Spares and accessories should be quoted separately***
- ***A warranty of minimum of 3 years should be provided for the above specifications.***

## **10. SPECIFICATION FOR 'KINETIC BATH PLATE'**

### **Specifications**

- Kinetic Bath Plate with heating and shaking
- Heating plate should be made of one-piece superior quality chemically resistant material
- Temperature range: 50 – 150°C or more.
- Shaking speed: Around 200rpm
- Control accuracy without sensor:  $\pm 5^{\circ}\text{C}$
- Efficient heat control and speed control for uniform heating & shaking
- High class protection with inbuilt safety system; heater should shut automatically switch off if temperature rises above the preset temperature and above upper limit of temperature
- Should operate at 230V, 50/60Hz

### **Note:**

- ***The equipment should be provided with all necessary accessories and spare***
- **Kindly quote break up cost for each item**
- **Spares and accessories should be quoted separately**
- **A warranty of minimum of 3 years should be provided for the above specifications.**

## **11. SPECIFICATION FOR 'NUTCHE FILTER 30 Ltrs. SS WITH STAND'**

### **Nutsches Filter (30L capacity) for testing, piloting and small scale processing with faster filtering capability**

- Vertical position type **Nutsche** Filter pre-fitted with useful components including valves, sightglasses, pressure relief, spray assembly and pressure/vacuum gauge
- Construction: All parts should be made of superior quality/durable/anti-corrosive material
  - Wetted Parts/ Nozzle/Body Flanges etc: SS 316 lined with PTFE/PP/PVDF
  - Perforated Plate: HDPE
  - Filter Medium: PP Woven Textile; 400 Mesh, 20 Micron, Quality :T-255; Wt/sq m-GSM 540; WARP Spun PP
  - Non-metallic parts (Gasket, O-ring) should be of superior quality material like PTFE
  - Stand: Heavy & reliable material
- Working Volume: 15-20L
- Cake volume: around 5-10 L
- Operating Pressure: around 710mm Hg
- Operating Temperature: 70-80°C
- Design Pressure: Full Vacuum
- vessel vacuum and heating capability for efficient drying of filter cake, built-in spray heads for filter cake washing, complete material containment for increased safety and purity plus gas blanketing capability
- ASME certified design

**Accessories:** (i) jacketing or electric heating (ii) motorized mixer or else up/down cake agitator in manual or motorized versions.

#### **Note:**

- ***The equipment should be provided with all necessary accessories and spare***
- ***Kindly quote break up cost for each item***
- ***Spares and accessories should be quoted separately***
- ***A warranty of minimum of 3 years should be provided for the above specifications.***

## **12. SPECIFICATION FOR 'VACUUM DRYER 48 TRAYS'**

- Should be double walled, mounted on sturdy frame.
- Inner made of thick G.I./PCRC Sheet duly painted with high temperature aluminum paint, outer made of heavy duty PCRC duly primer coated and enamel painted.
- Should have Insulation between inner and outer wall to prevent any heat loss.
- Should be provided with double walled door with a system to prevent its opening.
- Should be provided with brackets to support the heavily laden trays at different heights.
- Temp. range should be from ambient to 130°C or higher
- Accuracy should be  $\pm 3^{\circ}\text{C}$ .
- Should be controlled by digital temperature indicator cum controller.
- Should have PT-100 sensor.
- Should work on 220V 50HZ single phase.
- Should have 48 Trays.
- Load should have 12kw.
- Air circulating fan
- Timer – 0-24 hours
- Automatic fan - on /off functioning
- Glass view provided on door, body and receiver
- Explosion vent
- Silicon transparent gasket for door.
- Construction and finish as per cGMP standard
- Pressure release valve in Steam line.
- Drain valve for Vacuum chamber and Receiver
- Suitable noise free vacuum pump for the system

**TESTING:** The vacuum dryer shelves should be hydro-tested under standard condition. The vacuum chamber to be tested for leaks under vacuum.

***Note: The equipment should be provided with all necessary accessories and spare***

**Kindly quote break up cost for each item**

**Spares and accessories should be quoted separately**

**A warranty of minimum of 3 years should be provided for the above specifications.**

General

1. The system quotation should include all needed specific site needs along with their description of such requirements for the quoted system except power distribution point availability that would be provided by the institute. Critical piping needed for standard installation and operation should also be quoted with price as included.
2. The bidders must agree to undertake that the system would be transported and re installed again at permanent campus of Guwahati Biotech Park free of cost if so required during next five years.
3. The system should be suited to Indian system of electrical inputs (220V/ 50Hz).

**ANNUAL MAINTENANCE CHARGES:** The party must mention in the rate/amount of annual maintenance charges, if we opt for maintenance contract after expiry of the warranty period. This is mandatory to mention (AMC charges should be mentioned only in the commercial bid).

### **13. SPECIFICATION FOR 'HAMMER MILL WITH DUST EXTRACTION SYSTEM OF 300 KG/HR'**

Hammer Mill with Dust Extraction System of 300 Kg/hr Capacity is required for Herbal extraction facility.

- Thermal Overload Relay 200 - 240 VAC, 7 A 100 - 110 VAC, 14 A
- Motor rotation speed 2800 rpm (50Hz) 3400 rpm (60Hz)
- Hammer speed 16800 rpm
- Safety brake Yes
- Noise level < 80 dB
- Transient over voltage 2
- Temperature indoor use, 5-40° C
- Relative humidity maximum relative humidity 80% for temperatures up to 31° C decreasing linearly to 50% relative humidity at 40° C
- Pollution degree 2

The system should meet requirements of AACCI/ICC/ISO methods.

**Note:**

- ***The equipment should be provided with all necessary accessories and spare***
- **Kindly quote break up cost for each item**
- **Spares and accessories should be quoted separately**
- **A warranty of minimum of 3 years should be provided for the above specifications.**

General

1. The system quotation should include all needed specific site needs along with their description of such requirements for the quoted system except power distribution point availability that would be provided by the institute. Critical piping needed for standard installation and operation should also be quoted with price as included.
2. The bidders must agree to undertake that the system would be transported and re installed again at permanent campus of Guwahati Biotech Park free of cost if so required during next five years.
3. The system should be suited to Indian system of electrical inputs (220V/ 50Hz).

ANNUAL MAINTENANCE CHARGES: The party must mention in the rate/amount of annual maintenance charges, if we opt for maintenance contract after expiry of the warranty period. This is mandatory to mention (AMC charges should be mentioned only in the commercial bid).

**14. SUPPLY/INSTALLATION OF 'SS-316 OPEN TOP AND BOTTOM DISHED END VESSEL WITH DISTILLATION COLUMN AND RECEIVER ASSEMBLY ( VESSEL - 500 LT.)'**

***Note:***

- *The equipment should be provided with all necessary accessories and spare*
- *Kindly quote break up cost for each item*
- *Spares and accessories should be quoted separately*
- *A warranty of minimum of 3 years should be provided for the above specifications.*

**15. SUPPLY/INSTALLATION OF 'SS-304 CYLINDRICAL TANKS FOR STORAGE OF 1000 LTS'**

***Note:***

- *The equipment should be provided with all necessary accessories and spare*
- *Kindly quote break up cost for each item*
- *Spares and accessories should be quoted separately*
- *A warranty of minimum of 3 years should be provided for the above specifications.*

**16. SUPPLY/INSTALLATION OF 'PROCESS PUMP SETS'**

***Note:***

- *The equipment should be provided with all necessary accessories and spare*
- *Kindly quote break up cost for each item*
- *Spares and accessories should be quoted separately*
- *A warranty of minimum of 3 years should be provided for the above specifications.*

## **17.SPECIFICATION FOR 'SS-304 FILTER PRESS WITH 18" DIAMETER WITH TRANSFER PUMPS'**

- Sparkler type Filter Press should be used for crystal clear filtration of Liquor , Pharmaceuticals , Chemicals, Beverages, Oil, Ink and other products.
- Filter press should be available in 18" diameter dia & provided with different types of pumps depending on the viscosity of liquid and output i.e. Centrifugal Pump, Gear pump, Lobe Pump etc.
- Should be consisting of Stainless Steel Strong Tank & Top cover using bolts to give pressure tight enclosure.
- The filter cartridge assembly should be inside the tank and consists of one set of horizontally arranged disc type filter plates with perforated supporting screens & interlocking cups.
- The Stainless Steel Top cover should be fit on the gasket.
- The tightening wing nuts should be providing leek proof seal.
- A pressure gauge , safety valve and an air vent should be provided on the Top cover.
- Centrifugal or Monoblock pump coupled with STD / FLP Motor & Push Button Station and piping connection.
- SS Ball Valve should be control the flow of liquids , is mounted on a suitable Stainless Steel Trolley mounted on fibre caster wheels .
- Should have 15 plates.
- Filtering area should have 2.30 m<sup>2</sup> or better.
- Cake holding capacity should be around 44.0 ltr.
- Should have 5000-7000 flow rates per hour.
- FLP Motor should be 3 HP.

### **Note:**

- ***The equipment should be provided with all necessary accessories and spare***
- **Kindly quote break up cost for each item**
- **Spares and accessories should be quoted separately**
- **A warranty of minimum of 3 years should be provided for the above specifications.**

## **18. SPECIFICATION FOR 'PORTABLE MECHANICAL SIFTER OF 20" DIAMETER'**

Premium quality Portable Mechanical Shifters(GMP Model) for sifting of free-flowing powders and granules and should come with flanged type motor, fly wheel mechanism giving gyratory vibrations, one S.S-304 screen/sieve of given mesh. Discharge chute, screen loading channels with powder holding arrangement, with side rimes and bolting clamps fabricated using 304-quality stainless steel to ensure superior quality.

### **SALIENT FEATURES**

- Contact parts made of SS 316/304.
- Interchangeable Screens.
- Portable, compact and easy to handle and dismantle for cleaning.
- Flame-proof motor supplied as an option.
- Drive unit located in the center to get the same screening efficiency over entire surface.

### **Note:**

- ***The equipment should be provided with all necessary accessories and spare***
- **Kindly quote break up cost for each item**
- **Spares and accessories should be quoted separately**
- **A warranty of minimum of 3 years should be provided for the above specifications.**

ANNUAL MAINTENANCE CHARGES: The party must mention in the rate/amount of annual maintenance charges, if we opt for maintenance contract after expiry of the warranty period. This is mandatory to mention (AMC charges should be mentioned only in the commercial bid).

## **19. SPECIFICATION FOR 'DIESEL FIRED BOILER WITH 600 KG/HR CAPACITY'**

**Capacity:** 600 kg/ hr

**Fuel:** Diesel

**Steam pressure:** 10.54 kg/cm<sup>2</sup>

**Dryness factor:** 88 %

**Radiography:** 100 %

**Safety monitoring:** No water cut off

Low water emergency start & stop

High water level controller

Combustion control and emergency cut off

Flue gas temp. Auto cut off

Pressure auto cut off

**Conversion:** Provision for oil/gas conversion if required

**Accessories required**

**Chimney:** self supported

**All bends and valves**

**Dust collector:** Multicyclonic type

**M.S. Ducting:** Boiler to blower

Blower to MDC

One bend of 45 degree

MDC to chimney

**Water softener:** 1000 L/H

**Soft water storage tank:** M.S. tank 4 mm thick of 1000 L with all normal opening and water level view glass arrangement duly painted

**Condensate storage tank:** 1000 L M.S. 4 mm thick Mineral wool insulation of 50 mm thick and density of 48KG/M<sup>3</sup> with all normal openings

**Pressure reducing station:** Suitable for the system.

Any other statutory requirement and safety norms which will be in force on the day of execution of the order.

### **Note:**

- ***The equipment should be provided with all necessary accessories and spare***
- **Kindly quote break up cost for each item**
- **Spares and accessories should be quoted separately**
- **A warranty of minimum of 3 years should be provided for the above specifications.**

### **General**

- The system quotation should include all needed specific site needs along with their description of such requirements for the quoted system except power distribution point availability that would be provided by the institute. Critical piping needed for standard installation and operation should also be quoted with price as included.
- The bidders must agree to undertake that the system would be transported and re installed again at permanent campus of Guwahati Biotech Park free of cost if so required during next five years.

## **20. SPECIFICATION FOR 'TRAY DRYER – 96 TRAYS'**

- Should have a double walled unit mounted on a sturdy frame, inner and outer made up of heavy M.S Sheet, with outer duly hammer tone painted and inner with high temperature Aluminium paint.
- The gap between two walls should be filled high grade glass wool to minimize thermal loss.
- Should have Brackets to support the heavily laden drying trays at adjustable height are provided on the sides of inner walls.
- The dryer should have a fresh air inlet and an adjustable air outlet flap. The door should be explosion proof. Door lips are having Neoprene rubber Gasket to prevent leakages.
- Should have Temperature range from 50°C to 200°C is controlled by digital temp controller – cum-indicator with an accuracy of  $\pm 5^\circ\text{C}$  the inner chamber temperature.
- Ventilation is provided with adjustable opening at the top to exhaust the fumes of vapors produced during processing.
- Should be supplied with 3 or more shelves.
- Should have a heavy duty 'V' belt driven motor/Fan of suitable capacity which provides forced air circulation so as to ensure uniform heating throughout the inner chamber.
- Should have a separate control panel fitted to chamber with individual control for on/off, air circulating fan and thermostat.
- No. of tray: 96
- Trays will be manufactured from SS 304/316 sheets.
- Racks should be provided with wheels to slide them in and out of the Dryer. An additional S.S, trolley for Racks for outside movement should be provided optionally.

**FINISHING:** The design and manufacture of the dryer should be of standard of GMP model and have an aesthetic look.

### **Note:**

- ***The equipment should be provided with all necessary accessories and spare***
- **Kindly quote break up cost for each item**
- **Spares and accessories should be quoted separately**
- **A warranty of minimum of 3 years should be provided for the above specifications.**

### **General**

- The system quotation should include all needed specific site needs along with their description of such requirements for the quoted system except power distribution point availability that would be provided by the institute. Critical piping needed for standard installation and operation should also be quoted with price as included.
- The bidders must agree to undertake that the system would be transported and re installed again at permanent campus of Guwahati Biotech Park free of cost if so required during next five years.
- The system should be suited to Indian system of electrical inputs (220V/ 50Hz).

**ANNUAL MAINTENANCE CHARGES:** The party must mention in the rate/amount of annual maintenance charges, if we opt for maintenance contract after expiry of the warranty period. This is mandatory to mention (AMC charges should be mentioned only in the commercial bid).

## **21. SPECIFICATION FOR 'STIRRERS TABLE TOP'**

- The stirrer should have speed of 1000 RPM or better.
- The Motor should have 1HP capacity or better
- Unit should be clamped to a chrome plated rod fitted on a heavy cast iron base.
- The height and angle of the stirrer should be adjustable according to the requirement.
- Variable speed Motor with speed regulator fitted with SS Stirrer rod to give smooth and noiseless operation.
- The system should have digital Timer and Digital RPM Display.

### **Note:**

- **The equipment should be provided with all necessary accessories and spare**
- **Kindly quote break up cost for each item**
- **Spares and optional accessories should be quoted separately**
- **A warranty of minimum of 3 years should be provided for the above specifications.**

ANNUAL MAINTENANCE CHARGES: The party must mention in the rate/amount of annual maintenance charges, if we opt for maintenance contract after expiry of the warranty period. This is mandatory to mention (AMC charges should be mentioned only in the commercial bid).

## **22. SPECIFICATION FOR 'SPRAY DRYERS (50LT/HR)'**

Designed for spray drying of herbal extracts into herbal powder. Specially suitable for drying of heat sensitive material. The dried product should have even granule, good flow ability and solubility, high purity and good quality. The diameter and height of the tower may be modified to ensure that powder cannot reach the wall of the tower before drying, and ensure that powder will have dwelling time in hot air to complete low temperature drying. The wall of the tower should have sandwich cooling device to ensure liquid cone body which has large taper and can pulsate the tube by compressed air to shake down powder which is stuck on the tube. All contact place inside the dryer should be plain or round surface, and is ground and polished to avoid sand hole and dead angle etc. The contact surface made of stainless steel to ensure materials free of pollution. The driving parts should have good sealing to prevent water and oil. Materials discharge should be done through valve to avoid air leaking.

Three stage air filters for air pretreatment system and air can be purified up to 100 thousand levels.

### **TECHNICAL SPECIFICATION**

MOC	: Material contact part will be SS 304
Product	: Herbal Extract
Feed Rate	: 62 Kg/hr
Evaporation Rate	: 50 Kg/hr
Product output rate	: 12 Kg/hr
Initial Solid Content	: 20 %
Residual Moisture in the Final Product	: 1 – 5 %
Feed Temperature	: 30 Deg C
Temperature of inlet air	: 140-180 <sup>0</sup> C automatically controlled
Temperature of outlet air	: 90 <sup>0</sup> C
Heating system	: Indirect Oil fired Air Heater

### **ESSENTIAL ACCESSORIES**

#### **FEEDING SYSTEM**

Feed Tank: 75 L capacity, water funnel of 10 L capacity. MOC will be SS 304, 2 mm.

Feed Line: For systems complete with Feed pump, AC drive, Centrifugal Atomizer and all fittings, MOC will be SS 304.

#### **DRYING AIR SYSTEM**

Indirect Oil Fired Hot Air Generator: Indirect HAG and hot air duct with insulation to be supplied. MOC will be SS 304 & MS. Supply air blower with SS 304 to be provided.

Drying Chamber: Complete with Air distributor of SS 304, washing door, powder duct etc to be supplied. MOC will be SS 304, 2 mm. Chamber covered with insulation.

Electromagnetic hammers: 2 nos. for dislodging the powder from the chamber wall in case of deposition on the chamber cone to be provided.

Air lock discharge Valve: Providing at the bottom of Cyclone separator. MOC SS 304.

Necessary Duct lines: SS 304 duct line between Chamber and Cyclone, Cyclone and Scrubber, Scrubber and Exhaust blower to be provided.

#### **AIR HANDLING SYSTEM**

Exhaust Blower: 1 no Exhaust blower with MS construction (SS 304) to be supplied. This will be included exhaust duct, cloth bellow and exhaust chimney of suitable height.

Cyclone Separator: High efficiency cyclone separator to be provided in the systems. MOC will be SS 304, 2 mm.

Scrubber: SS 304 Scrubber with 100 L Tank and water pump with Pipeline.

Instruments: The control and instrument panel board having DC variable drive, TIC with PT-100 sensor for inlet & outlet temperature, Hour meter, Draft gauge, Volt meter, Ammeter, necessary push buttons and complete process colored Mimic diagram.

Cables & Starters: PVC insulated PVC cables to interconnecting various motors & control panel and all cables & wires to be provided with numbered Ferrules. DOL Starters according to the motor power with bimetallic overload relay, timer, and MCB.

**Note:**

- **The equipment should be provided with all necessary accessories and spare**
- **Kindly quote break up cost for each item**
- **Spares and optional accessories should be quoted separately**
- **A warranty of minimum of 3 years should be provided for the above specifications.**

**General**

The system quotation should include all needed specific site needs along with their description of such requirements for the quoted system except power distribution point availability that would be provided by the institute. Critical piping needed for standard installation and operation should also be quoted with price as included.

The bidders must agree to undertake that the system would be transported and re installed again at permanent campus of Guwahati Biotech Park free of cost if so required during next five years.

The system should be suited to Indian system of electrical inputs (220V/ 50Hz).

**ANNUAL MAINTENANCE CHARGES:** The party must mention in the rate/amount of annual maintenance charges, if we opt for maintenance contract after expiry of the warranty period. This is mandatory to mention (AMC charges should be mentioned only in the commercial bid).

## **23. SPECIFICATION FOR 'FALLING FILM EVAPORATOR'**

Triple effect Falling Film Evaporator  
MOC : SS 304  
Capacity: 300-500 liter per hour

A complete evaporator stage with evaporator, a separator to separate the vapors from the residual liquid, a suitable condenser and a Vacuum pump to be supplied.

### **Note:**

- **The equipment should be provided with all necessary accessories and spare**
- **Kindly quote break up cost for each item**
- **Spares and optional accessories should be quoted separately**
- **A warranty of minimum of 3 years should be provided for the above specifications.**

### **General**

- The system quotation should include all needed specific site needs along with their description of such requirements for the quoted system except power distribution point availability that would be provided by the institute. Critical piping needed for standard installation and operation should also be quoted with price as included.
- The bidders must agree to undertake that the system would be transported and re installed again at permanent campus of Guwahati Biotech Park free of cost if so required during next five years.
- The system should be suited to Indian system of electrical inputs (220V/ 50Hz).

**ANNUAL MAINTENANCE CHARGES:** The party must mention in the rate/amount of annual maintenance charges, if we opt for maintenance contract after expiry of the warranty period. This is mandatory to mention (AMC charges should be mentioned only in the commercial bid).

## **24. SPECIFICATION FOR 'DISTILLATION EQUIPMENT'**

Capacity: 50 L/hr

MOC: Stainless Steel (316/304)

- Distillation tank with steam coil
- Condenser (multi-tube tubular)
- Oil separator or receiver
- Boiler

**Essential Accessory:** All compatible accessories and consumable must be quoted.

**Note:**

- **The equipment should be provided with all necessary accessories and spare**
- **Kindly quote break up cost for each item**
- **Spares and optional accessories should be quoted separately**
- **A warranty of minimum of 3 years should be provided for the above specifications.**

**ANNUAL MAINTENANCE CHARGES:** The party must mention in the rate/amount of annual maintenance charges, if we opt for maintenance contract after expiry of the warranty period. This is mandatory to mention (AMC charges should be mentioned only in the commercial bid).

## **25. SPECIFICATION FOR 'PERISTALTIC PUMP'**

- Peristaltic Pump should be ideal for a variety of applications, which include filtration, circulation, sampling, chemical spraying, dispensing, transferring, feeding and filling
- Controller: Digital microprocessor controller
- The pump head design should accommodate several different silicon tubing sizes
- Should have great flexibility for a wide range of flow rates to be utilized when connecting with different sizes of tubing.
- The pump should be digitally controlled.
- Motor: Brushless motor
- Pump speed increment:20 - 300rpm / 1rpm
- Max. pump speed:300rpm
- Flow range-1.2 – 400 ml/min or better
- Number of rollers:3 or better
- Operating temperature: Ambient to 40 °C or better
- Program:2-step Program (running & ceasing); Max. of timer: 99 (hr) : 59 (min) : 59 (sec)
- The system should be CE and ETV certified

### **Note:**

- **The equipment should be provided with all necessary accessories and spare**
- **Kindly quote break up cost for each item**
- **Spares and optional accessories should be quoted separately**
- **A warranty of minimum of 3 years should be provided for the above specifications.**

### **General**

- The system quotation should include all needed specific site needs along with their description of such requirements for the quoted system except power distribution point availability that would be provided by the institute. Critical piping needed for standard installation and operation should also be quoted with price as included.
- The bidders must agree to undertake that the system would be transported and re installed again at permanent campus of Guwahati Biotech Park free of cost if so required during next five years.
- The system should be suited to Indian system of electrical inputs (220V/ 50Hz).

**ANNUAL MAINTENANCE CHARGES:** The party must mention in the rate/amount of annual maintenance charges, if we opt for maintenance contract after expiry of the warranty period. This is mandatory to mention (AMC charges should be mentioned only in the commercial bid).

## **26. SPECIFICATION FOR DRY HEAT STERILIZER**

Dry heat sterilizer is for treatment of empty bottles, flasks, lab. Equipment and also for sterilization of liquids with low moisture content or powder particles.

- Set temperature range in °C min. 5°C above ambient up to +250°C
  - Temperature 1 Pt100 sensor DIN class A in 4-wire-circuit
  - External/Internal Material: SS Steel 316 or better
  - Function: Sterilization, drying and heating purpose
  - Silicon or better door gasket to ensure zero leakage during the operation
  - Sterilizer Inner and outer wall made from SS 316 quality sheet or better quality
  - Motor and blowers to circulate air for uniform atmosphere, provision for forced air convection at 180 °C Wh/h
  - Microprocessor control system and digital displays, control panel option
  - 24 hour timer for preheating or timed shutdown, with temperature sensor
  - Alarm for sterilizing and fault state, buzzer alarms when a cycle of sterilization is completed
  - Provision for door safety locking system
  - Digital sample temperature display
  - Calibration: Three freely selectable temperature values adjustable parameters
  - Ventilation : Fan: forced air circulation by quiet air turbine
  - Vent:vent connection with restrictor flap
  - Temperature control : adjustable electronic overtemperature monitor and mechanical temperature limiter TB, protection class 1 according to DIN 12880 to switch off the heating approx. 20°C above nominal temperature
  - Internals:2 stainless steel grid(s), electropolished
  - Works calibration certificate: Calibration at +160°C
  - Door:fully insulated stainless steel door with 2-point locking (compression door lock)
  - Stainless steel interior: Interior :easy-to-clean interior,made of stainless steel, reinforced by deep drawn ribbing with integrated and protected large-area heating on four sides
  - Volume:100-120L
- 

### **Optional Accessories:**

1. All important spare parts, shelves, accessories etc with their part number and costing

### **Note:**

- ***The equipment should be provided with all necessary accessories and spare***
- **Kindly quote break up cost for each item**
- **Spares and accessories should be quoted separately**
- **A warranty preferably of 3 years should be provided for the above specifications.**

## **27. SPECIFICATION FOR 'NITROGEN GENERATOR'**

### **Efficient Nitrogen Generator for common utility facility**

Efficient, noise free, low space occupying Nitrogen Generator to produce nitrogen for laboratory & scaling up facility

(Nitrogen generators with different capacity may be quoted separately)

- Minimum Operating Ambient Temperature 5°C/ 41°F
- Maximum Operating Ambient Temperature 30°C/ 86°F
- Maximum relative Humidity 70% or better
- Particles < 0.05 µm or better
- Phthalates: None
- Suspended Liquids: None
- Noise Level: 54 dBA @ 1m
- Electrical Requirements: 230V ,50/60 Hz, 7A
- Nitrogen should be 32 L/min
- Max Altitude should be 1800 meters or better.
- Quiet in operation should be insulated compressor compartment for minimum disruption.
- Compressor should be no external compressor required. Should be having inbuilt air compressor.
- Mobility of the equipment should be flexible to position generator where required, even under standard lab bench the generator should be supplied with caster wheels for easy mobility inside laboratory.
- Should be convenient in use; should have no health hazards

#### **Note:**

- ***The equipment should be provided with all necessary accessories and spare***
- **Kindly quote break up cost for each item**
- **Spares and accessories should be quoted separately**
- **A warranty preferably of 3 years should be provided for the above specifications.**

## **28. SPECIFICATION FOR (I) 'BOILER FOR R&D, PP WORK AND (II) 'BOILER ACCESSORIES'**

High performance Boiler for R&D and PP work & Boiler Accessories for biotechnology related processes like Fermentation and other Units of different capacity and different design may be quoted separately as 'complete boiler unit'. Each unit should comprised of basic requirements of boiler and other requirements high performance and safety

### **Boiler:**

1. Main Vessel/tank
  2. Mountings: With all the preliminary and safety mountings viz;
    - i) Two safety Valve
    - ii) Two Water level Indicators
    - iii) Pressure Gauge
    - iv) Fusible Plug
    - v) Steam Stop Valve
    - vi) Feed Check Valve
    - vii) Blow off check
    - viii) Man & mud hole
  3. With high Safety and alarm system
- Boiler Accessories:**
- i) Air pre-heater
  - ii) Economiser
  - iii) Super heater
  - iv) Feed pump
  - v) Injector
4. Constructed in accordance with ASME code

### **Note:**

- **The facility should be provided with all necessary accessories and spare**
- **Kindly quote break up cost for each item**
- **Spares and optional accessories should be quoted separately**
- **A warranty of minimum of 3 years should be provided for the above specifications.**

### **General**

- The system quotation should include all needed specific site needs along with their description of such requirements for the quoted system except power distribution point availability that would be provided by the institute. Critical piping needed for standard installation and operation should also be quoted with price as included.
- The bidders must agree to undertake that the system would be transported and re installed again at permanent campus of Guwahati Biotech Park free of cost if so required during next five years.
- The system should be suited to Indian system of electrical inputs (220V/ 50Hz).

**ANNUAL MAINTENANCE CHARGES:** The party must mention in the rate/amount of annual maintenance charges, if we opt for maintenance contract after expiry of the warranty period. This is mandatory to mention (AMC charges should be mentioned only in the commercial bid).

## 29. SPECIFICATION FOR 'LAMINAR FLOW HOOD'

### (A)

The instrument is to meet the requirement of U.S. Federal Standard 209B (BS-5295) providing particulate particle free to air to meet class 100 (class conditions).

- Work Zone : Completely in Stainless Steel (304)
- Filter Type : HEPA filter
- Efficiency : 99.99%
- Particle Retention : 0.3 Micron
- Pre Filter : Disposable, Non washable polyester fiber
- Cleanliness : Class 100
- Ultra violet tube light : 3 feet, 30 Watt
- Illumination of work surface: Fluorescent tube light.
- Blower-motor assembly : Dynamically balanced
- Noise level : <65 decibel
- Digital LED/LCD graphical display showing the controlling of the different parameters.
- Front Sash : Shattered proof Glass door (Preferably Motorised)
- Power: Works on 220-230 V AC, 50Hz.
- IQ, OQ, PQ documents with Material Test should be provided
- Certificates And Calibration reports
- Working Size W 1200 x D 600 x H 600 mm (4'x2'x2')
- Pressure ( $\Delta P$ ) Inclined Manometer 0 –25 mm range
- The unit should be fitted with pre –filter and should be made to pass throuht highly effective HEPA.
- Other accessories 5 /15 Amp power point, Gas inlet, Castor Wheels & Power chord

To be supplied complete set with S.S. Table top, Hepa Filter, Pre Filter, Fluorescent Illumination, Transparent Front door, U.V. Tube, Cock for Gas, Air flow Vacuum Line etc.

### Note:

- **The equipment should be provided with all necessary accessories and spare**
- **Kindly quote break up cost for each item**
- **Spares and optional accessories should be quoted separately**
- **A warranty of minimum of 3 years should be provided for the above specifications.**

ANNUAL MAINTENANCE CHARGES: The party must mention in the rate/amount of annual maintenance charges, if we opt for maintenance contract after expiry of the warranty period. This is mandatory to mention (AMC charges should be mentioned only in the commercial bid).

## (B) Laminar Flow Hood

- Class II Biosafety Cabinet Type A2 animal Handling design.
- Size 4 feet width and the front window must have 8/ 10ll sash opening
- It should be supplied with set of arm rest, an electrical outlet and a support stand provided with leveling bases.
- Motor should be DUAL DC & must automatically adjust the airflow speed (balancing inflow and down flow) without the use of a damper to ensure continuous safe working conditions.
- The microprocessor based Cabinet should use differential pressure sensor to display the inflow and down flow air velocities in real-time on an LED/LCD display.
- Should have port for vacuum tubing and cables on the sides.
- HEPA/ULPA Filter should be 99.995% MPPS(Most Penetrating Particle Size)
- UV light must be programmable to allow for specific exposure times from 0 to 24 hours. Lightening power should >1100 Lux (100fc);cabinet noise level must be less than 65 dB(A)
- Cabinet should be NSF (National Sanitation Foundation) certified and certificate of the quoted model should be attached.
- Power Consumption in Normal mode :200W  $\pm$ 10%
- CE certified with Warranty of 3 year

To be supplied complete set with S.S. Table top, Hepa Filter, Pre Filter, Fluorescent Illumination, Transparent Front door, U.V. Tube, Cock for Gas, Air flow Vacuum Line , Noise free pump etc.

### **Note:**

- **The equipment should be provided with all necessary accessories and spare**
- **Kindly quote break up cost for each item**
- **Spares and optional accessories should be quoted separately**
- **A warranty of minimum of 3 years should be provided for the above specifications.**

**ANNUAL MAINTENANCE CHARGES:** The party must mention in the rate/amount of annual maintenance charges, if we opt for maintenance contract after expiry of the warranty period. This is mandatory to mention (AMC charges should be mentioned only in the commercial bid).

### **30. SPECIFICATION FOR 'DEHUMIDIFIER'**

- The machine should have in built automatic hygostat to maintain RH of 40-60% or better
- The machine should have the extraction capacity of up to 20-30 lit/day or more at RH 40-60% at 2-35<sup>0</sup>C with auto humidity sensor and thermostat.
- Recommended coverage area is 250-300 sq ft
- It should work at 220-240 V/50 Hz.
- Excellent build quality with wheels / castors
- The coolant of the machine should be CFC free refrigerant.
- Noise level of the machine should be less than 60 db along
- Digital Humidity Controller
- Humidity is brought down up to 40%, Accuracy  $\pm 3\%$  RH
- Humidity is controlled by Special Honeywell humidistst
- With Voltage Stabilizer

**Note:**

- ***The equipment should be provided with all necessary accessories and spare parts***
- **Kindly quote break up cost for each item**
- **Spares and accessories should be quoted separately**
- **A warranty preferably of 3 years should be provided for the above specifications.**