

**BIHAR ANIMAL SCIENCES UNIVERSITY**  
**Bihar Veterinary College Campus, Patna-800 014**

L. No. 1280/CPC/BASU, Patna

Date: 22/01/2020

To,

The Registered Supplier / Firms / Company / Enterprises (As per list enclosed)

Subject: Regarding participation in Limited Tender Enquiry for supply and installation of **BENCHTOP FREEZE DRYER SYSTEM (n=01)** to Bihar Veterinary College, Bihar Animal Sciences University, Patna.

Sir,

You are requested to participate in Limited Tender Enquiry (**Tender Notice No. 21/CPC/BASU/2019-20, dated: 22/01/2020**) for supply and installation of one number of **BENCHTOP FREEZE DRYER SYSTEM** to Bihar Veterinary College, Bihar Animal Sciences University, Patna. Sealed envelope containing full information along with supporting documents must reach in the office of the undersigned on or before **11/02/2020 up to 2.00 P.M.** and the same will be opened on **11/02/2020 at 2:30 P.M.** The tender document is enclosed herewith for needful. The details may be viewed on [www.basu.org.in](http://www.basu.org.in).

  
22/01/2020

**Procurement Officer**  
**Bihar Animal Sciences University, Patna**

**List of Vendors:**

Sl. No.	Name & Address of Vendors
1.	M/s- Biogentek BG (I) Pvt. Ltd., 106, Shah Puri Tirath Singh Towers, C-58, C-Block, Community Centre, Janakpuri, New Delhi- 110058. E-mail: <a href="mailto:office@biogentek.com">office@biogentek.com</a> , Contact No.: 011-25573125
2.	M/s- Arrow Weighing Systems Pvt. Ltd., CB-187, Ring Road, Naraina, New Delhi- 110028. E-mail: <a href="mailto:designinnova@gmail.com">designinnova@gmail.com</a> , Contact No.: 011-45588233
3.	M/s- Rose Medicare Pvt. Ltd., 203, Prafulla Place, Govind Mitra Road, Patna-04, Bihar E-mail: <a href="mailto:jain@rosemedicare.com">jain@rosemedicare.com</a> , Contact No.: 0612-2303103
4.	M/s- The Nucleon Bioscience, Ambika Sadan, 96, Anandpuri, West Boring Canal Road, Patna-800001, Bihar E-mail: <a href="mailto:nucleonebioscience@gmail.com">nucleonebioscience@gmail.com</a> , Contact No.: 9801199004
5.	M/s- Ranjan Scientific Traders, A-7, Kamla Place, G.M. Road, Patna-800004, Bihar. E-mail: <a href="mailto:rst.patna@gmail.com">rst.patna@gmail.com</a> , Contact No.: 9835245891/9334308261
6.	M/s- AIB Life Science Pvt. Ltd., A-18, 1st floor, Ashokpuri, Khajpura, Bailey Road, Patna-800014, Bihar. E-mail: <a href="mailto:office@aiblifescience.com">office@aiblifescience.com</a> / <a href="mailto:binod@aiblifescience.com">binod@aiblifescience.com</a> , Contact No.: 9608058321
7.	M/s- Global Medicart, Road No.: 7, Mahavir Colony, Anishabad, Patna-800002, Bihar. E-mail: <a href="mailto:globalmedicart@gmail.com">globalmedicart@gmail.com</a> / <a href="mailto:salesglobalmedicart@gmail.com">salesglobalmedicart@gmail.com</a> , Contact No.: 9608838975 / 7488984062.
8.	M/s- BR Biochem Life Sciences Pvt. Ltd., 1/10, FF- Tilak Nagar, New Delhi-110018. E-mail: <a href="mailto:info@brbls.com">info@brbls.com</a> , Contact No.: 011-43033662/64
9.	M/s- First Source Laboratory Solutions LLP, Plot N.-02, Block-D, Street No.-03, Kakatiya Nagar, Habsiguda, Hyderabad-500007. E-mail: <a href="mailto:sales@firstsource.com">sales@firstsource.com</a> , Contact No.: 040-27175558
10.	M/s- Excel Enterprises, H/o Late P.R. Srivastava, Front of PMCH (Eye Dent.), Ashok Raj Path, Patna - 800004, Bihar E-mail: <a href="mailto:excelenterprises_patna@yahoo.com">excelenterprises_patna@yahoo.com</a> , Contact No.: 7991139088
11.	M/s- Angel Scientific Store, Tulsi Apartment, Govind Mitra Road, Patna- 800 004, Bihar. E-mail ID: <a href="mailto:angelscistores_1@yahoo.co.in">angelscistores_1@yahoo.co.in</a> , Contact No.: 0612-2308327/2301531

# **BIHAR ANIMAL SCIENCES UNIVERSITY**

**Bihar Veterinary College Campus, Patna - 800 014, Bihar**

## **Limited Tender Enquiry**

**Tender Notice No.: 21/CPC/BASU/2019-20**

**Dated: 22/01/2020**

Sealed bids are invited through registered / speed post / courier services only from Reputed & Registered Supplier / Firms / Company / Enterprises for the supply and installation of **“BENCHTOP FREEZE DRYER SYSTEM”**. Sealed envelope containing full information along with supporting documents must reach in the office of the undersigned on or before **11/02/2020 up to 2.00 P.M.** and the same will be opened on **11/02/2020 at 2:30 P.M.** Bidders are requested to be present at the time of opening of tender. No further notice will be given to attain the tender opening meeting. Details are available on Websites: [www.basu.org.in](http://www.basu.org.in) .

**Procurement Officer  
Bihar Animal Sciences University, Patna**

# BIHAR ANIMAL SCIENCES UNIVERSITY

Bihar Veterinary College Campus, Patna - 800 014, Bihar

[www.basu.org.in](http://www.basu.org.in)

## NOTICE INVITING TENDER (NIT)

### (Limited Tender Enquiry)

Tender Notice No.: 21/CPC/BASU/2019-20

Dated: 22/01/2020

1. Bihar Animal Sciences University, Patna invites sealed tenders in Two Bid System (Technical Bid and Financial Bid) from Reputed & Registered Supplier / Firms / Company / Enterprises of following equipment.

S. No.	Description of Equipment	Place of supply & Installation	Quantity	Amount of Bid Security/ EMD in INR
1.	<b>BENCHTOP FREEZE DRYER SYSTEM</b>	<b>Bihar Veterinary College, Patna</b>	<b>01</b>	<b>INR 30,000.00</b>
<b>Total</b>			<b>01</b>	

2. Schedule of Requirement: -

Time, Date & Place of submitting the tender	<b>2.00 PM; 11/02/2020</b> Address to: Procurement Officer, Administrative Building, Bihar Animal Sciences University, Bihar Veterinary College Campus, Patna- 800 014, Bihar, India.
Time, Date & Place of opening of tender	<b>2.30 PM; 11/02/2020</b> Liaison Office, Bihar Animal Sciences University, BVCC, Patna- 800 014, Bihar, India.
Time, Date & Place of opening of Financial bid	It will be intimated later on

3. Tender enquiry documents containing detailed specifications along with terms and condition can be downloaded from the Bihar Animal Sciences University website (<http://www.basu.org.in>).
4. EMD must be enclosed in the Technical Bid of the Tender in the form of **Demand Draft** issued from any Nationalised Bank in favour of “**FINANCE COMPTROLLER, Bihar Animal Sciences University, Patna**”. No interest is payable on Bid Security. Tenders without EMD shall be summarily rejected.
5. In the event of any of the above mentioned dates being declared as a holiday/closed day for BASU, Patna, the tender will be received/opened on the next working day at the prescribed venue and time.
6. Tenderer are requested to be present at the time of opening of tender.
7. This Tender Enquiry Document is not transferable.

## TERMS AND CONDITIONS

1. The technical and financial bids should be quoted separately and put in different sealed envelopes marked “**Technical bid**” or “**Financial bid**” as applicable. Both of these envelopes are to be put in an outer envelope which should also be sealed and marked appropriately as tender for supply of equipment (**Tender Notice No.: 21/CPC/BASU/2019-20, Dated: 22/01/2020**).
2. **The bidder must provide either the Original Equipment Manufacturer (OEM) or their Authorized Distributor Certificate on their letter head in prescribed format (Annexure-I). If the same is not provided with Technical Bid the tender will be summarily rejected.**
3. The vendors must have executed same nature of work in the **last 2 years**. The user list of such institutions, with name of equipment and the cost may also be supplied with the bids. Recent orders in government organization should also be enclosed.
4. **The Financial Bid should include the cost of main equipment/items and its essential accessories at F.O.R delivery including of all taxes, GST, charges of insurance and transportation of the goods, agency commission, installation & commissioning, training charges etc., if any.**
5. The printed literature and catalogue/brochure giving full technical details should be included with the technical bid to verify the specifications quoted in the tender. The bidders should submit copies of suitable documents in support of their reputation, credentials and past performance.
6. The price of equipment should be quoted in figures as well as in words. If there are cuttings, they should be duly signed, failing which the bids are liable to be rejected.
7. **Any bids received after 2.00 P.M. on 11/02/2020 shall not be considered. The institute shall not be responsible for any postal delay. The tender documents should be send through registered post/ speed post/ courier services only.**
8. **Earnest Money Deposit (EMD):** Bidder needs to submit the refundable EMD of **INR 30,000.00** (Rupees Thirty thousand) only in the form of **Demand Draft** issued from any Nationalised Bank in favour of “**FINANCE COMPTROLLER, Bihar Animal Sciences University, Patna**”. Failure to submit the EMD will lead to the rejection of the tender.
9. **While sending rates, the firm shall give an undertaking to the effect that “the terms /conditions mentioned in the Tender Notice against which the rates are being quoted are acceptable to the firm”. In case the firms do not give this undertaking, their rates will not be considered.**
10. All disputes shall be subject to Patna Jurisdiction only.



11. All tenders in which any of the prescribed conditions is not fulfilled or any condition is put forth by the tenderer shall be summarily rejected.
12. **Bihar Animal Sciences University, Patna reserves the right to cancel the tender at any point of time without assigning any reason.**
13. **Bidders must submit duly stamped envelope along with bids (for registered/speed post) with complete postal address for refund of EMD documents.**
14. Price bids of only those bidders will be opened whose technical bids are found suitable by the committee appointed for the purpose. Date and time of opening of price bids will be decided after technical bids have been evaluated by the committee. Information in this regard will be placed on the website only. No separate information shall be send to the firms. In exceptional situation, an authorized committee may negotiate price with the qualified bidder quoting the lowest price before issuing the purchase order.
15. **The bidders shall keep their bid valid for minimum 90 days from the date of opening of the financial bid.**
16. The tenderers should take care that the rate and amount are written in such a way that interpolation is not possible. No blank space should be left, which would otherwise make the tender liable for rejection.
17. **Manual and Documents:** All manuals necessary for operating and servicing the equipment (including details of electronic circuits) will have to be provided along with the instrument.
18. Bidders should go through the tender terms, conditions and specifications carefully before filling the tender and attach compliance statement accurately and unambiguously. They should ensure that all the required documents are furnished along with the bid.
19. **Signing of Tender documents:** A person signing the tender form or any document forming part of the tender on behalf of another person should have an authority to bind such other person and if, on enquiry it appears that the person so signing had no authority to do so, Bihar Animal Sciences University, Patna may without prejudice, cancel the contract and hold the signatory liable for all costs, consequences and damages under the civil and criminal remedies available.
20. The tenderer should sign and affix his firm's stamp at each page of the tender and all its annexure as the acceptance of the offer made by tenderer will be deemed as a contract and no separate formal contract will be drawn. **No page should be removed/ detached from this notice inviting tender.**

## SPECIAL TERMS AND CONDITIONS FOR TENDERERS

The following terms and conditions should be complied with during submitting tender:-

1. Sealed tenders are invited in two bid systems.
2. Sealed tenders should be submitted to the **Procurement Officer, Administrative Building, Bihar Animal Sciences University, P.O. - Bihar Veterinary College Campus, Patna- 800 014, Bihar, India.**
3. GST Registration Certificate self-attested copy should be enclosed.
4. Delivery schedule with definite date of delivery at destination taking into cognizance of transit facility must be indicated. This contractual delivery date/ period should be inclusive of all the lead time.
5. The tenderer submitting his tender would be deemed to be considered and accepted all the terms and conditions. No enquiries, verbal or written shall be entertained in respect of acceptance or rejection of the tender.
6. Bihar Animal Sciences University, Patna reserves the right to cancel/ reject in or any part of the tender, which generally do not fulfil the conditions stipulated in the tender without assigning any reason.
7. Any action on the part of tenderer to influence anybody of the university shall make his/ their tender liable for rejection.
8. In case of placement of purchase order, the vendor (the tenderer whose tender is accepted) may comment on the purchase order within **10 days** from the date of dispatch of purchase order otherwise it seems that offer is acceptable to the vendor. Notwithstanding any other provision, the terms & conditions and any other provision included, in the purchase order will be treated as binding with "Errors & Omissions Expected". However, if the vendor notices of the order, he must bring the same into the notice of tender and seek clarifications within the above stipulated time. Vendor will have to bear the responsibility for failure to take this action.
9. Bihar Animal Sciences University, Patna may in writing make any revision or change in the purchase order, including additions or deletions from the quantities originally ordered or in the specifications or drawing. If any such revisions/ changes affect the price or delivery, the same shall be subject to the adjustment of price/ delivery, wherever required on a reasonable basis by mutual agreement in writing which should be communicated.
10. The institute reserves the right to cancel the purchase order or any part thereof shall be entitled to revise the contract wholly or in a part by written notice to the vendor if:-
  - (a) The vendor fails to comply with the terms and conditions of the purchase order including specifications and other technical requirement.
  - (b) The vendor becomes bankrupt or goes into liquidation.

(c) The vendor fails to deliver the goods in time and or does not replace the rejected goods promptly.

(d) A receiver is appointed for any of the property owned by the vendor.

11. Upon the receipt of the said cancellation notice, the institute shall discontinue all works of the purchase order and matters connected with it.
12. Supply order will be issued as per the requirement of the institute. The supplier will have to supply ordered materials within the delivery time mentioned in the supply order.
13. Unless otherwise specified in the order, the order price shall remain firm and will not be subject to escalation of any description during the dependency of the order, notwithstanding the change in the cost of material and components they may take clearance while the order is under execution even if the execution of the order for any reason whatsoever.
14. In the event of delay delivery and/or unsatisfactory manufacturing progress and supply, the Institute has the right to cancel the purchase order as whole or in part without liability for cancellation charges.
15. Timely delivery as mentioned in purchase order shall be in the essence of the order and no variation shall be permitted except with prior authorization in writing from the Institute.
16. In the event of delay in making delivery on the part of the vendor, it will be at Institute discretion to receive delivery with a reduction in price of the article/or equipment.
17. Forced measure shall mean and be limited to the following: -
  - (a) Any war/hostilities
  - (b) Any riot or civil communication
  - (c) Any earthquake, flood, tempest, lighting or other natural physical disaster.
  - (d) Any strike or lock up (Only those exceeding ten continuous days' duration) affecting the performance of the vendor's obligation.

The seller shall advise the Institute by Registered Letter duly certified by local chamber of commerce of statutory authorities the beginning and end of the above caused of delay within 7 days of occurrence and cessation of such forced measure concern. In the event of delay lasting over one month, if arising due to our cause of force measure, the Institute reserves the right to cancel the order.

18. No payment shall be made for rejected materials nor would the tenderer be entitled to claim for such items.
19. Rejected materials would be removed by the tenderer from the site within two weeks or the date of rejection at their own cost. In case they are not removed they will be auctioned at the risk and responsibility of the suppliers without any further notice.



20. In case of not honouring the supply order, the Institute will have the right to impose penalty as deemed fit and to resort to make purchase at the suppliers cost and risk and his security deposit may be forfeited in favour of the Institute cost and risk.
21. **Taxes & Levies:** Rates of inclusive of all taxes, duties and GST. No extra payment will be made by the BASU, Patna in this regard.
22. Disputes, if any, arising between the Institute and the bidder out of or in connection with the terms and conditions contained herein shall be referred for arbitration to the Patna jurisdiction. Disputes shall be decided keeping in view of the terms and conditions of the tender and Bihar financial rules applicable to the Institute.
23. **At present Bihar Animal Sciences University, Patna does not have DSIR Certificate. So, price should be quoted considering this point.**
24. **Minimum Three years' onsite warranty from the date of installation will be provided.**
25. No advance payment shall be made.
26. For delay in supply, BASU will charge liquidated damage @0.5% per week and maximum 10% after which the order will be cancelled.
27. **Performance guarantee: The vendor shall furnish unconditional Performance Bank Guarantee (PBG) @ 6% of the order value for the entire period of warranty i.e. 38 months and should be submitted at the time of supply the order in the form of Bank Guarantee (Annexure-II)/ Fixed Deposit Receipt (FDR) / Term Deposit Receipt (TDR) in favour of "Finance Comptroller, Bihar Animal Sciences University, Patna" effective from the date of installation & commissioning.**

## **TENDER FORM**

To,

The Procurement Officer,  
Bihar Animal Sciences University, Patna-14

Subject: Tender Notice No.: .....

Sir,

I have gone through the terms and conditions laid down in the tender documents and accept the same.

I am hereby submitting the technical bid and enclosing the documents as per details given below:

### **CHECK LIST**

1. EMD details
2. List of procurement agencies of repute to whom the Tender item have been supplied during last twelve months with proof.
3. Authorization certificate issued by original manufacturer of the equipment as per Annexure- I.
4. Attested copies of GST registration.
5. Attested copies to Permanent Account Number (PAN).
6. Audited balance sheet of the firm of the last three years.
7. Income Tax Return copy of the last three years.
8. Experience certificate of the last three years.
9. Address Proof.
10. Certificate that firm possess its Service Centre in Patna.
11. Enclosure of detail technical specification and other required documents.
12. Tender Documents duly signed on all pages.

Certified that each and every page of the tender documents are serially numbered and signed by me.

Yours faithfully,

Nature and Name of the authorized Signatory with seal

Designation

Name of the company (Tenderer)

**TECHNICAL BID**

1. (a) Name of the Tenderer: .....

(b) Status of the Tenderer: .....

(i) Manufacturer/Importer: .....

(ii) Proprietorship: .....

2. Partnership/Company

Full Postal Address .....

.....

.....

.....

3. Telephone No.: .....

4. Mobile No.: .....

5. Fax No.: .....

6. e-mail Address:.....

7. (a) Names of agencies with whom: .....the tenderer is registered.

(b) Names of procurement agencies to whom: .....

Items have been supplied during last 2 years:.....

8. Bank details of the bidder:.....

Name of Account Holder:.....

Name of Bank:.....

Bank Account No.:.....

IFSC & MICR Code:.....

Address of the Bank:.....

I am enclosing duly signed Technical specification of the items offered in response of this Bid.

Seal & Signature of Bidder

**Technical Compliance of the Bidder with reference to the ‘Specification of Equipment’s’  
(Separate form to be used for each item offered)**

Name of the Bidder/Tenderer:

Tender No.:

Name and Model No. of offered goods/equipment:

Make:

Sl. No.	Technical specification From Bihar Animal Sciences University	Features available in equipment Yes or No	Any deviation from Specification, if any	Corresponding part number/ datasheet/ page no. in broacher in support of specification
1.	System should be a compact Bench Top design.			
2.	Should have an upright stainless steel collector coil condenser with ice holding capacity 2.5 litres.			
3.	It should have 1/3 hp HCFC/CFC- free refrigeration system to cool collector to -50 degree Celsius.			
4.	Provision (sensor) to prevent vacuum pump start up when moisture is detected in the collector chamber.			
5.	Should have vacuum control option to maintain set point vacuum level.			
6.	The system should have a special arrangement for preventing the oil back streaming into the collector chamber during the power outage.			
7.	Should have touch screen display that display system operating parameters, user configured to display vacuum in mBar, Pa or Torr & Temperature in degree Farenheight or degree Celsius.			
8.	The system should have an Audible and visual alarm system for alarm conditions like power failure (inbuilt			

	feature to protect the system from power cuts/failure). Improper line voltage supply, collector temperature rises above (-) 40 degree Celsius.			
9.	The system should be supplied with a stainless steel drying manifold with 10 or more ports to connect flasks of different sizes complete with adaptors/valves etc.			
10.	3 tiers product shelves should be supplied with the system for freeze drying in vial.			
11.	Sealing crimper for vial should be supplied along with the system.			
12.	Rotary Vane Vacuum Pump with minimum displacement capacity of 90 L/min. Ultimate vacuum $2 \times 10^{-3}$ mBar. Quoted vacuum pump should be from same company.			
13.	Suitable stabilizer should be quoted along with the system.			
14.	Should be CE certified.			
15.	Onsight warranty: Minimum Three years.			
16.	Installation, testing, validation, demonstration/technical presentation should be conducted free of cost.			
17.	Original illustrated Catalogue in support of technical specifications should be provided.			
18.	User list for the quoted model along with contact details including telephone no. and e-mail should be provided.			

Seal & Signature of Bidder

**Price Schedule form:** Price Schedule for Goods Being Offered from India/abroad in INR  
(Separate form to be used for each item offered)

Name of the Bidder/Tenderer:

Name & Model No. of offered goods:

Tender No.:

Make:

**FORMAT OF FINANCIAL BIDS**

F.O.R. price inclusive of all taxes and duties.

Total Bid price in Indian Currency, INR:

In words:

Business Address:

Note: (a) The cost of optional items shall be indicated separately.

Seal & Signature of Bidder



**Annexure- I**

**MANUFACTURER'S AUTHORISATION FORM**

To,  
The Vice- Chancellor,  
Bihar Animal Sciences University,  
Patna-800014

Dear Sir,

Ref.: Your Tender Inquiry No....., dated.....

We, .....who are proven and reputable manufacturers of.....( *Name of equipment offered in the tender*) hereby authorise Messrs.....(*name and address of the supplier*) to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred tender inquiry for the above..... (*Name of equipment offered in the tender*) manufactured by us.

We further confirm that no supplier or firm or individual other than Messrs. .... (*name and address of the above agent*) is authorised to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred tender inquiry for the above .....(*Name of equipment offered in the tender*) manufactured by us.

We also hereby confirm that we would be responsible for the satisfactory execution of contract placed on the authorised agent.

We also confirm that the price quoted by our agent shall not exceed than that which we would have quoted directly.

**Note:-**

- (i) This letter of authorisation should be on the letter head of the manufacturing firm and should be signed by a person competent and having the power of attorney to legally bind the manufacturer.
- (ii) Original letter may be sent.

**Annexure-II**

**MODEL BANK GUARANTEE FORMAT FOR PERFORMANCE SECURITY**

To,  
Finance Comptroller,  
Bihar Animal Sciences University,  
Bihar Veterinary College Campus, Patna-14

WHEREAS ..... (name and address of the supplier) (hereinafter called “the supplier”) has undertaken, in pursuance of contract no..... dated ..... to supply (description of goods and services) (herein after called “the contract”).

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;

AND WHEREAS we have agreed to give the supplier such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of **Rs.-----/-** ( -----), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed thereunder or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until the ..... day of ....., 20.....

.....  
(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

## **Specifications of BENCHTOP FREEZE DRYER SYSTEM (n = 01)**

1. System should be a compact Bench Top design.
2. Should have an upright stainless steel collector coil condenser with ice holding capacity 2.5 litres.
3. It should have 1/3 hp HCFC/CFC- free refrigeration system to cool collector to -50 degree Celsius.
4. Provision (sensor) to prevent vacuum pump start up when moisture is detected in the collector chamber.
5. Should have vacuum control option to maintain set point vacuum level.
6. The system should have a special arrangement for preventing the oil back streaming into the collector chamber during the power outage.
7. Should have touch screen display that display system operating parameters, user configured to display vacuum in mBar, Pa or Torr & Temperature in degree Fahrenheit or degree Celsius.
8. The system should have an Audible and visual alarm system for alarm conditions like power failure (inbuilt feature to protect the system from power cuts/failure). Improper line voltage supply, collector temperature rises above (-) 40 degree Celsius.
9. The system should be supplied with a stainless steel drying manifold with 10 or more ports to connect flasks of different sizes complete with adaptors/ valves etc.
10. 3 tiers product shelves should be supplied with the system for freeze drying in vial.
11. Sealing crimper for vial should be supplied along with the system.
12. Rotary Vane Vacuum Pump with minimum displacement capacity of 90 L/min. Ultimate vacuum  $2 \times 10^{-3}$  mBar. Quoted vacuum pump should be from same company.
13. Suitable stabilizer should be quoted along with the system.
14. Should be CE certified.
15. Onsite warranty: Minimum Three years.
16. Installation, testing, validation, demonstration/technical presentation should be conducted free of cost.
17. Original illustrated Catalogue in support of technical specifications should be provided.
18. User list for the quoted model along with contact details including telephone no. and e- mail should be provided.