

**B.M.COLLEGE OF AGRICULTURE,  
JASWADI ROAD KHANDWA (M.P.)**

**Pin -450001**

**Phone No.- 0733-2222119 Email id – deankhandwa@rediffmail.com**

**TENDER NO : 1**

**E-TENDER DOCUMENT  
FOR SUPPLY AND ESTABLISHMENT OF  
FERMENTER UNIT**

**FOR THE YEAR  
2020-21**

**B.M.COLLEGE OF AGRICULTURE, KHANDWA  
MADHYA PRADESH**



RAJMATA VIJAYARAJE SCINDIA KRISHI VISHWAVIDYALAYA (RVSKVV),  
GWALIOR

**B.M. COLLEGE OF AGRICULTURE, KHANDWA**

Tel. 0-733-222119 Fax- 0733-2230217; Email: deankhandwa@rediffmail.com

No./Dn./Tender/2020/466

Date 31.07.2020

## INVITATION FOR BIDS

The Dean, B.M. College of Agriculture, Jaswadi Road, Khandwa M.P. invites Online bids {(Two bid system)} from Manufacturers or Authorized dealers **FOR SUPPLY AND ESTABLISHMENT OF FERMENTER UNIT at B.M. College of Agriculture, Khandwa** as detailed below:

S. No.	Detail of the Item/Structure	EMD	Bid Document Price
01	<b>SUPPLY AND ESTABLISHMENT OF FERMENTER UNIT AT B.M. College of Agriculture, RVSKVV, Khandwa (M. P.)</b> including Fermenter/ Bioreactor Vessel (200 Ltr Gross volume) – 4, RO Water Plant (1000 ltr/hr) – 1, Steam Generator (50kg/hr) – 1, Chiller with 200Lt tank (3TR) – 1, Oil Free Air Compressor (1000 LPM) – 1, Formulation Tanks (200 Lts gross volume) – 2 and 1 Bottle filling, Sealing, Capping and Labeling machine (200L/ batch)	INR 1,40,000 (Rs. One Lakh Forty Thousand only)	INR 2000/- (Rs. Two Thousand only) + Processing Fees

- Online e-tenders through <https://mptenders.gov.in> are invited as per key dates from Manufacturers or their Authorized Dealers for **SUPPLY AND ESTABLISHMENT OF FERMENTER UNIT** for B.M. College of Agriculture, Jaswadi Road, Khandwa, Madhya Pradesh. Tender document and other details are available on the websites <https://mptenders.gov.in>.
- Cost of Tender document {(Rs. 2000/- + Processing fee) Non refundable} is to be paid online only on <https://mptenders.gov.in>. The document can be purchased only online by 17:00 hrs on 21.08.2020.
- In all respect hard copies of the documents as indicated in the check list and in the manner directed therein, must be received at the office of the undersigned by **Speed Post only** latest by 17.00 hrs on 28.08.2020. The ONLINE BID CAN BE SUBMITTED UPTO 17.00 hrs on 27.08.2020.
- All Corrigendum/ Amendments/ Changes, if any will be issued will be made available only on <https://mptenders.gov.in>.
- Please read and follow these instructions carefully to avoid the rejection of the tender. You may also send your representatives, duly authorized in writing to attend the Technical Evaluation and clarification regarding bids, which is scheduled at 11:00 Hrs on 29.08.2020 at B.M. College of Agriculture, Khandwa

Dean  
B.M. College of Agriculture,  
Khandwa M.P. 450001

## Key Dates and Time

S. No.	Task/ Particulars	Date & Time
1.	ONLINE BID DOCUMENT SALE START DATE	05/08/2020 11.00 HRS
2.	ONLINE BID DOCUMENT PURCHASING END DATE	21/08/2020 17.00 HRS
3.	BID CLOSING DATE FOR SUBMISSION OF ONLINE BIDS	27/08/2020 17.00 HRS
4.	END DATE FOR SUMISSION OF HARD COPIES OF DOCUMENTS AS INDICATED AND THE MANNER AS DIRECTED IN THE CHECK LIST <b>BY SPEED POST ONLY.</b>	28/08/2020 17.00 HRS
5.	ONLINE OPENING OF THE TECHNICAL BIDS	29/08/2020 11.00 HRS
6.	ONLINE OPENING OF THE FINANCIAL BIDS (Price Schedule)	31/09/2020 16.00 HRS

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Jaswadi Road, Khandwa M.P. 450001

## CHECK LIST

1. Scanned Copy of EMD or exemption proof, if exempted (NIS Certificate against exemption from deposition of EMD should be strictly for only indigenous manufactured items not for items of foreign origin/manufactured in foreign countries other than India. Moreover tendered item should strictly be matched with the list of NIS for which any firm has claimed for exemption from EMD. Otherwise claim is not valid and tender will not be accepted).
2. Receipt of Tender Fee.
3. Original equipment manufacturer (OEM) certificate or authorized dealership/ distributorship certificate as applicable.
4. Manufacturing Registration No. (if applicable)
5. Company Printed Price List ( If available)
6. Detailed technical write-up highlighting the model Name/ Number, features of the equipment offered and / or Technical literature/manuals.
7. Certificate for acceptance of terms and conditions of tender enquiry on firm's letter head (Annexure 1).
8. Organization details (Annexure 2).
9. Affidavit (Annexure 3).
10. Copy of GST registration.
11. Copy of PAN Card.
12. Document indicating Turnover during the last three years certified by C.A.
13. Copy of Profit and Loss (Balance Sheet) for the last three years.
14. Proforma for Performance Statement (Annexure 4).
15. Information of similar work undertaken and executed/ Client list/ List of users on manufacturers' letter head duly stamped and signed (Annexure 5).
16. User Certificates with Phone No. and E mail address.
17. Guarantee/ Warranty on manufacturers' letterhead
18. Downloaded Tender documents duly stamped and signed.
19. Compliance Certificate/ No Deviation Statement for Technical specifications (Annexure 7).
20. Guarantee Certificate by Successful Bidder (Annexure 8).
21. Security Deposit Form by Successful Bidder (Annexure 9).
22. Contract Agreement by Successful Bidder (Annexure 10).

Note : Scanned copies of documents mentioned from serial nos. 1 to 18 are to be uploaded online on the e-tender portal (<https://mptenders.gov.in>) and hard copies of all the above documents at Serial Nos.1 to 18 must be sent by speed post only in a sealed envelope super scribed "**For the tender of supply and establishment of Fermenter unit (Tender No./Dn./Tender/2020/466, Dated 31.07.2020)**" to The Dean, B.M. College of Agriculture, Jaswadi Road, Khandwa (M. P.) 450001 by the due date and time (17:00 Hrs on 28.08.2020) as indicated in the key dates schedule. Successful bidder shall submit documents mentioned at Sr. No 19 to 21 before purchase order is issued within a time limit to be specified by the purchaser.

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Khandwa M.P. 450001

**B.M.COLLEGE OF AGRICULTURE,  
JASWADI ROAD KHANDWA (M.P.) PIN: 450001**

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**RULES FOR TENDER**

**Online bids** are invited only from **Manufactures or their Authorized Dealers FOR SUPPLY AND ESTABLISHMENT OF FERMENTER UNIT** [Fermenter/ Bioreactor Vessel (200 Ltr Gross volume) – 4, RO Water Plant (1000 ltr/hr) – 1, Steam Generator (50kg/hr) – 1, Chiller with 200Lt tank (3TR) – 1, Oil Free Air Compressor (1000 LPM) – 1, Formulation Tanks (200 Lts gross volume) – 2 and 1 Bottle filling, Sealing, Capping and Labeling machine (200L/ batch)] for **B.M. College of Agriculture, Khandwa**. Bids will be opened at **Dean B.M. College of Agriculture, Khandwa -450001 Madhya Pradesh**.

A complete set of bidding documents may be purchased by any interested eligible bidder on the submission of online Tender Fee **Rs. 2000/- + Processing Fee (RS. Two Thousand only + Processing Fee)** online from website <https://mptenders.gov.in>. Tender without online fee will be rejected.

1. Manufacturer's certificate / Authorized Dealer certificate issued by the manufacturer should be given. **In absence of Manufacturer Certificate (If bidder is Manufacturer) or Authorized Dealer certificate (If bidder is authorized dealer) the tender will be rejected.**
2. The Online tender should contain scanned copies of documents as indicated in the check list (Page 3). Please note that the fact that the bidder has signed the form given at **Annexure-1**, will mean that the bidder has completely accepted these tender rules and that the bidder agrees to abide by these tender rules. No deviation from tender rules will be accepted under any circumstances even if the Tenderer may mention his own condition in his tender. The tender rules and clause usually printed on tenders or bills will not be binding on this institute. If form "A" is signed by bidder in token of his acceptance, it is expected that he should not mention any other tender conditions.
3. **The contents of the form "A" should not be changed or amended. In other words tenders on stipulated conditions will not be acceptable by this office.**
4. **It should be noted that all mandatory documents should be uploaded on the portal and such documents which have been uploaded in the specified manner will only be considered. Hard copies of uploaded documents in a way as indicated in the Check list should reach the undersigned by Speed Post only within the specified time limit given in**

**the schedule of KEY DATES (Page 2). Hard copies of any other document other than those that have been uploaded will not be considered. If the original hard copies of the desired documents are not submitted in the office of the purchaser within the specified time mentioned in the key dates and time, the tender shall be rejected at the time of opening the technical bid.**

5. No person or firm shall submit more than one Tender for the same item. No offer should have more than one model quoted; in case of more than one alternate offer only the first option will be considered.
6. The bidder must have experience of executing at least five such projects for which the bidder is quoting the prices during the last three years (2017-18 to 2019-20). The information of execution of such work should be shown in **Annexure-5**.
7. Compliance Certificate/ No deviation statement should be submitted in respect of Technical specifications in the prescribed format clearly stating the compliance, supported by technical literature with clear reference. This statement must be signed, with the company seal, by the Tenderer for its authenticity and acceptance that any incorrect or ambiguous information found submitted will result in disqualification of the offer. **No other format will be accepted. In absence of No deviation statement, the tender will be rejected. This information should be submitted as Annexure-7.**
8. **The price/ rates must be quoted online only. The price/ rate must be exclusive any tax.**
9. GST and other taxes, if any, should be shown separately and it should not be included in the rate/ price of the item. The items are being purchased and installed for research purpose, hence the taxes may be applicable as per the govt. taxation rules.
10. Any other charges, such as technical service charges, cost of training, installation charges, TA/DA of Tenderer's staff *etc.* will only be borne by the tender.
11. All losses during transit will have to be made good by the Tenderers at his cost within a period of 15 days.
12. No insurances charges will be borne by the consignees under any circumstances.
13. The Bidder should furnish the information on satisfactory performance in the Proforma given under **Annexure-4**. Performance certificate from purchaser/user also must be attached.

14. The Bidder should furnish data to support that he has the financial capacity to perform the contract. For this the bidder should submit documents for Annual Turnover along with audited balance sheet duly certified by the Chartered Accountant (Please refer Check List Sr.No. 12 & 13 on Page3).
15. Tender should be accompanied the Earnest Money (EMD) of Rs. 1,40,000/- (Rs. One Lakh Forty Thousands Only) deposited online or proof of exemption (**NIS Certificate against exemption from deposition of EMD should be strictly for only indigenous manufactured items not for items of foreign origin/manufactured in foreign countries other than India. Moreover tendered item should strictly be matched with the list of NIS for which any firm has claimed for exemption from EMD. Otherwise claim is not valid and tender will not be accepted**).
16. The bidder must submit the copy of GST registration and PAN card otherwise the tender will be rejected.
17. The offer must mention make, model all the specifications of the item clearly. The company must enclose printed literature/catalogue/manufacturer's web-site showing detailed technical specifications required. A folder showing many instruments without detailed technical specification, or tailor made literature mentioning "yes" or "as per your specifications" for the specifications asked for, will not be considered. Specifications given in the offer must match to the website and/or printed technical literature otherwise the offers shall be rejected. 16. Technical specifications of the equipment / items have been very clearly formulated by the users/experts of the field as per the requirement of the work to be conducted. It will be sole discretion of the bidder whether to quote or not for equipment with particular specifications.
18. Security Deposit of 10% of the total value of the order in the form of Bank Guarantee/ FDR will have to be deposited by the successful bidder before the final orders are placed with him. Security Deposit (Bank Guarantee/ FDR) should be submitted in favor of the RVSKVV A/C KHANDWA. If the demanded security deposit of 10% is not deposited by the specific period the Earnest Money already deposited with the tender is liable to be forfeited. Format for security deposit form is given in **Annexure-9**.
19. Earnest Money/ Security Deposit submitted to this office in previous tenders will not be adjusted towards the present supply/work and no request will be entertained in this regard.

20. Delivery Period will be 180 days from the date of the issue of purchase order.
21. The successful bidder should execute the work **FOR SUPPLY AND ESTABLISHMENT OF FERMENTER UNIT** complete in all respects on a **TURN KEY BASIS** within the prescribed delivery period specified in the order. If the bidder faces difficulty in executing the work within the delivery period and is not extended by the purchaser then the order may be cancelled and the security deposit equivalent to 10% of the value of the order for that particular Institute will be forfeited.
22. Bidder should give all relevant specifications about every item. "Specification as given in catalogue" quoted in tender by the bidder will not be accepted. Full specification must be written in tender positively and should also be supported by illustrative pamphlets and all other relevant literature and catalogues.
23. The purchaser shall have the power to extend the time limit.
24. The undersigned may get the items inspected by the third party/ Govt. officers/ such person or persons he deems fit, before supply at site or after supply at the institute. The purchaser reserves the right to reject such items which do not come up to the specification. The decision of the under signed will be final in such cases. The rejected items will be returned on the bidder's cost.
25. Technical Specifications of the items are shown in **Annexure-06 (containing specifications for materials to be used, description of work)**. Technical specifications of the equipment / items have been very clearly formulated by the users/experts of the field as per the requirement of the work to be conducted. It will be sole discretion of the bidder whether to quote or not for an equipment with particular specifications.
26. The quantities shown are approximate and can be altered by the purchaser.
27. The Tender and rates quoted by the bidder will be valid up to 12 months from the date opening of the tenders. All order placed up to this date on the rates quoted will be binding on bidder.
28. Rates should be quoted F.O.R. destination and installation charges at B.M. College of Agriculture, Khandwa.
29. All consignment must be dispatched freight paid. "To pay" Railway Receipt/ Freight Receipts will not be accepted.



30. The undersigned reserves the rights for any changes/ cancellation/rejection of any part or whole tender, without assigning any reason what so ever.
31. The undersigned reserves the right to accept or reject any or all offers in full or in part without assigning any reason (s) thereof. It also reserves the right to place and order wholly or in part with one or more than one firm as it may be convenient
32. The tenderers must provide guarantee/warranty on manufacturers' letterhead of satisfactory functioning of the equipment/system and free service including free replacement of parts for a period of at least 3 years from the successful and satisfactory installation of the equipment/system. Original to be deposited by the successful bidder at the time of supply.
33. Guarantee Certificate: - The Successful bidder will have to submit the Guarantee certificate of the item as per Annexure-8, with the invoice/ bill of the item.
34. 90% payment will be released after complete execution of the work as per specifications and installation and demonstration. Remaining 10% of Payment will be made after one month. Therefore the invoice should be prepared separately for 90% and 10% of the total cost.
35. Contract agreement form is shown in **Annexure-10, which will be signed by the successful bidder.**
36. Any Tender received by the purchaser after the deadline for submission of bids prescribed by the Purchaser, will be rejected. The tender received online but the hard copies not received in prescribed time or *vis-a- vis* will be rejected.
37. Approval/ decision of College level purchase committee or University level Central Purchase Committee will be final and binding.
38. It must be noted that normally all correspondence and transactions will be made only with the parties whose tenders have been accepted and not with anybody else.
39. Any dispute arising out of this tender or supply or any other matter will fall under the civil jurisdiction of High Court Jabalpur (Bench – Indore) only.
40. The bidder will have to submit hard copies of all documents that have been uploaded while submitting the online bid within the time limit as specified in 'KEY DATES'. Only after receiving all the documents including those not uploaded but required as specified elsewhere and subsequent verification of the same, the purchase order will be issued.

41. If firm wishes, they can send their representatives, duly authorized in writing, to attend the Technical Evaluation and clarification regarding bids which is scheduled at 11:00 Hrs on 29th August 2020.

**42. Most Essential Facilities Required:**

In addition to the above, following facilities are also to be included in the proposed price by the firm:

- Whole unit should be fixed/ installed in a way that it should be functionally and operationally viable.
- Three years AMC along with spare parts, consumables and breakdown visits.
- Training of employee for easy operation of equipments and the complete unit.
- Performance security – one batch run.
- Software for data logging and report generation.
- New technology clearly reflects in products.

**43. Certifications:** weightage will be given to the firms having following certifications:

- ISO 9001-2015 certification
- CE certification
- ISO 3690-2012 certification (welding process)
- WHO-GMP Certification
- ISO 10002-2004 certification
- 14001:2015
- OHS/1546 certification

DEAN  
B.M. College of Agriculture  
Khandwa

*Annexure-1*

**On Tender's/ Firm's Letter head**

Ref. No. \_\_\_\_\_

Date \_\_\_\_\_

To,

The Dean  
B.M. College of Agriculture  
Jaswadi Road, Khandwa(M.P.)  
Pin. No.- 450001

I/we (Name of authorized signatory) \_\_\_\_\_

\_\_\_\_\_ of the firm (Name of the Firm) \_\_\_\_\_

Address \_\_\_\_\_

have read the tender rules for **SUPPLY AND ESTABLISHMENT OF FERMENTER UNIT AT B.M. College of Agriculture, Khandwa**, Madhya Pradesh (Tender Call No./Dn./Tender/2020/466, dated 31.07.2020) and I/we accept the Bidding rules supplied to me/us with the Tender Documents. The brief information about the bid is given below:

<b>S. No.</b>	<b>Information required</b>	<b>Proposed</b>
1.	Make of main item	
2.	Model of main item	
3.	Name of manufacturer of Main Item	
4.	Country of origin of main item	
5.	Name, Make and model of sub item I (if any)	
6.	Name, Make and model of sub-item II (if any)	
7.	Name, Make and model of sub-item III (if any)	
8.	Delivery within (days)	
9.	Rate of Excise duty (%) with surcharge, if applicable (item-wise if different ED is applicable)	
10.	Rate of GST (%) livable. If no, state basis and terms of the exemption.	
11.	Is Service Tax extra? If yes, rate of Service Tax livable (%)	

<b>S. No.</b>	<b>Information required</b>	<b>Proposed</b>
12.	Is Custom Duty Exemption (CDE) required? If yes, Rate of Customs Duty (%) payable.	
13.	Any other Taxes / Duties / Octroi / Entry taxes <i>etc.</i> in %	
14.	Order to be placed on	
15.	Guarantee/Warrantee (3 years)	
16.	Validity (at least 180 days)	
17.	FOR: Cotton Project, B.M. College of Agriculture, Jaswadi Road, Khandwa, PIN 450001, Madhya Pradesh	
18.	List of current users (Attach, if any)	
19.	Certification of satisfactory working of the equipment (Attach, if any)	
20.	Compliance of equipment with current directives of ISI / CE / EEC / US / EU or equivalent standards	
21.	Whether manufacturer / authorized distributor/sole agent? (Attach original certificate)	
22.	Technical literature (Attach, if any)	
23.	Earnest money (EMD) deposited on line and proof has been enclosed	
24.	Situations of Authorized service centers/ service personals <i>etc.</i> (Provide complete address)	
25.	Relevant documents such as ITCC, ST registration shop Act. establishment certificate, factory registration <i>etc.</i> (enlist and attach)	
26.	TIN and PAN allotted (Attach a copy)	
27.	GST number	
28.	Any other relevant information	

### **DECLARATION**

The terms and conditions as mentioned in the tender are acceptable to us.

Authorized signatory  
(Name, Designation, Address, Telephone  
No., E-mail)

**Note: Original documents in hard copy must be submitted by Speed Post with other documents and soft copy must be uploaded on the portal (Refer the check list for instructions).**

*Annexure – 2*

**ORGANIZATIONAL DETAILS**

<b>S. No.</b>	<b>Particulars</b>	<b>Details</b>
1.	Registration with appropriate Govt. Agency to do business for item related to the Tender.	
2.	Name of Organization/ Individual/ Proprietary Firm/ Partnership Firm	
3.	Entity of Organization Individual/ Proprietary Firm/ Partnership Firm(Registered under Partnership Act)/ Limited Company (Registered under the CompaniesAct-1956)/ Corporation/ Joint Venture	
4.	Address for Communication	
5.	Telephone Number with STD Code	
6.	Fax Number with STD Code	
7.	Mobile Number	
8.	E-mail Address for all communications	
9.	<b>Details of Authorized Representative</b>	
10.	Name	
11.	Designation	
12.	Postal Address	
13.	Telephone Number with STD Code	
14.	Fax Number with STD Code	
15.	Mobile Number	
16.	E-mail Address	

**Note: Original documents in hard copy must be submitted by Speed Post with other documents and soft copy must be uploaded on the portal (Refer the check list for instructions).**

### Annexure 3

**|| AFFIDAVIT ||**  
**(On Non Judicial Stamp of Rs. 50/-)**

I/we \_\_\_\_\_ who is/ are  
\_\_\_\_\_ (status in the firm/ company) and competent for submission of the  
affidavit on behalf of M/S \_\_\_\_\_  
\_\_\_\_\_ (Manufacturer/ Dealer) do solemnly affirm an oath and state that:

I/we am/are fully satisfied for the correctness of the certificates/records submitted in support of the following information in bid documents which are being submitted in response to notice inviting e-tender No. \_\_\_\_\_ for \_\_\_\_\_  
\_\_\_\_\_ (name of work) dated \_\_\_\_\_ issued by the  
\_\_\_\_\_  
(name of the department).

I/we am/ are fully responsible for the correctness of information/ documents and certificates:

1. That the information given in the bid document is fully true and authentic.
2. That:
  - a. Term deposit receipt / Bank Guarantee deposited as earnest money and other relevant documents provided by the Bank are authentic.
  - b. Information regarding Balance Sheet and annual turnover is correct.
  - c. Information regarding various technical qualifications is correct.
3. No close relative of the undersigned and our firm/company is working in the department.

**OR**

Following close relatives are working in the department:

Name \_\_\_\_\_ Post \_\_\_\_\_ Present Posting \_\_\_\_\_

**Signature with Seal of the Deponent (bidder)**

I/ We, \_\_\_\_\_ above  
deponent do hereby certify that the facts mentioned in above paras 1 to 3 are correct to the best  
of my knowledge and belief.

Verified today \_\_\_\_\_ (dated) at **KHANDWA** (place).

**Signature with Seal of the Deponent (bidder)**

**Note: Original documents in hard copy must be submitted by Speed Post with other documents and soft copy must be uploaded on the portal (Refer the check list for instructions).**

## Annexure-4

Bid No.-

Dated –

Name of the Firm-

### Proforma for Performance Statement

S. No	Order placed by (Name and full address of purchaser with telephone no, mobile no. and e-mail Id)	Order no. and date (enclose photocopy of order)	Description and quantity of ordered item	Value of order in Lakhs	Attach performance certificate from purchaser/ User
1	2	3	4	5	6
1					
2					
3					
4					
5					

NOTE : AT LEAST FIVE WORKS UNDERTAKEN DURING THE LAST THREE YEARS SHOULD BE GIVEN HERE.

Authorized signatory  
(Name, Designation, Address, Telephone No., E-mail)

**Note: Original documents in hard copy must be submitted by Speed Post with other documents and soft copy must be uploaded on the portal (Refer the check list for instructions).**

*Annexure-5*

**INFORMATION OF SIMILAR WORK UNDERTAKEN AND EXECUTED**

**Please indicate if you are a Manufacturer or an Authorized dealer.**

<b>Sr. No.</b>	<b>Name of the Item/ Work undertaken</b>	<b>Name of the purchasing Institute / Agency</b>	<b>Year</b>
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Note: Please refer to Clause 3 of RULES FOR TENDER.

Date :

Authorized signatory  
(Name, Designation, Address, Telephone  
No., E-mail)

**Note: Original documents in hard copy must be submitted by Speed Post with other documents and soft copy must be uploaded on the portal (Refer the check list for instructions).**



## Annexure -6

### TECHNICAL SPECIFICATIONS FOR FERMENTER/BIOREACTOR UNIT

#### PROPOSED ITEMS IN THE FERMENTER/BIOREACTOR UNIT

S. No.	Fermenter Unit Constituent	CAPACITY	Qty
A	Fermenter/ Bioreactor Vessel	200 LTR (GROSS VOLUME)	4
B	Electrical Steam Generator	50 Kg/hr	1
C	Chiller with 200 Lt tank	3TR	1
D	Oil Free Air Compressor	1000 LPM	1
E	RO Water Plant	1000 LTR/HR	1
F	Formulation Tanks	200 Lts (GROSS VOLUME)	2
G	Bottle filling, Sealing, Capping and Labeling machine	200 L/Batch	1 for each

Note: The quantities shown could be decreased or increased before placing the supply order.

#### DETAILED OF SPECIFICATION OF FERMENTER/BIOREACTOR UNIT

Item/Part & its specification		Remark
<b>A. FERMENTER VESSEL</b>		
<b>a) Vessel Details</b>		
Geometric Volume	<b>200L</b>	
Working Volume	75% (150L)	Functionally & technically
Jacket/Limpet	Jacket	Functionally & technically
Polishing Inner	240 grits (0.4)	Functionally & technically
Outer	Matt Finished	Functionally & technically
MOC(Contact)	SS316L	Functionally & technically
MOC(Non-Contact)	SS304	Functionally & technically
Sheet thickness	4 mm	Functionally & technically
Design Pressure	Shell =-1 to 3 bar Jacket =4 Bar	Functionally & technically
	Safety Valve : SS Adjustable Pressure Safety Valve	Functionally & technically
	Pressure Indicator : SS Dial Type Filled With JEL	Functionally & technically
Design	As per ASME sec VIII div 1	Functionally & technically
Height to Dia Ratio	2.5	Functionally & technically
Baffles	4 no's welded @ 10 %width OF ID of vessel	Functionally & technically

Item/Part & its specification		Remark
Sparger	Ring Sparger @ 70 %of the impeller Dia.	Functionally & technically
Manhole	No	Functionally & technically
Ports (Compatible all ports)	Top <ul style="list-style-type: none"> <li>• Feeding (Acid, base, antifoam and nutrients)</li> <li>• Inoculation-Septum port.</li> <li>• Air exhaust</li> <li>• Instruments (Pressure gauge, pressure transmitter).</li> <li>• light glass-Side</li> <li>• Temperature Sensor.</li> <li>• Bottom</li> <li>• Bottom Flush Valve with Sterilization valves.</li> </ul>	Functionally & technically
<b>b) Agitator Assembly</b>		
Shaft MOC	SS 316	Functionally & technically
Shaft Design	Single	Functionally & technically
Bottom Support for shaft	Not applicable	Functionally & technically
Motor	200-500 RPM	Functionally & technically
Mechanical Seal	Single with cooling system	Functionally & technically
Stuffing Box Sealing	For Zero Contamination and Reduce Air Leakage	Functionally & technically
Impeller	40% Dia. of the vessel, Rushton X 3nos	Functionally & technically
<b>c) Instrumentation Microprocessor based</b>		
Temperature & Sterilization Control System		
Type	Automatic	Functionally & technically
Temp Sensor	Pt.100, 19mm, SS-316 port(Sterilizable)	Functionally & technically
Temp Indicator	0-150° C	Functionally & technically
Heating Assembly	SS316	Functionally & technically
Electronic Control Station	7” Unitronics PLC based control with inbuilt webserver ethernet, USB, 2 RS485, Memory card for storing the recipe controls.	Functionally & technically
<b>Digital Temp. Control</b>		
Type	PID	Functionally & technically
Range	0-60 °C	Functionally & technically
Measurement precision	+ 0.1 °C	Functionally & technically
<b>Control precision</b>		
Type	PID	Functionally & technically
Range	0-150°C	Functionally & technically

Item/Part & its specification		Remark
<b>RPM Control</b>		
Range	20-500 rpm	Functionally & technically
AC drive	Electronic Frequency Control, Fully Automatic	Functionally & technically
<b>pH Probe on line</b>		
Type	Gel Filled	Functionally & technically
Size	120mm	Functionally & technically
Sterilizable	Yes	Functionally & technically
Housing	SS 316L	Functionally & technically
<b>pH Control</b>		
Control Type	PID	Functionally & technically
Range	0-14pH	Functionally & technically
Timer	Acid and pump ON-OFF Timer	Functionally & technically
Peristaltic pumps	2 No's	Functionally & technically
<b>Feed Control</b>		
Peristaltic pumps	1 No's	Functionally & technically
Type	Polarographic	Functionally & technically
Size	25mm	Functionally & technically
Sterilizable	Yes	Functionally & technically
Housing	SS 316L	Functionally & technically
<b>Air Flow Control</b>		
Type	Rotameter	Functionally & technically
Specification	As per capacity requirement	Functionally & technically
MOC	SS316	Functionally & technically
<b>Relief valves</b>		
MOC	SS-304	Functionally & technically
<b>Pressure Gauge</b>		
Type	Diaphragm type, MOC SS316	
Rating	0-4Kg/cm <sup>2</sup>	
Air Filters Details		Functionally & technically
Air Inlet Filter		Functionally & technically
Air Outlet Filter	0.2 Micron PP Filter With 5" SS 316L Filter Housing	Functionally & technically
Air Outlet	Through Shell Tube Type Condenser ( Heat Exchanger)	Functionally & technically
Bottom End	Dish End With 50 Tc Drain Valve For Material Outlet	Functionally & technically
Top End	Flat	Functionally & technically
Sight Glass	For View Process and Level of Liquid of compatible size and thickness	Functionally & technically
Light Glass Assembly	Compatible size and thickness	Functionally & technically

Item/Part & its specification		Remark
<b>Vessel Side Ports Detail</b>		
Temperature Sensor Port	Compatible size	
Ph Sensor Port		
Do ( Dissolve Oxygen) Sensor Port		
Sampling Port		
<b>Jacket Side Ports Detail</b>		
Pressure Gauge and Safety Valve	Compatible size	
Jacket Water/steam Inlet		
Jacket Water/steam Outlet		
SIP System	Inbuilt	Functionally & technically
CIP System	Inbuilt	Functionally & technically
<b>B. ELECTRICAL STEAM GENERATOR</b>		
compact fully automatic Steam generator integrated with the controller system	Ideal for 200 L to 500 L Fermenter	
Type	Electric	Functionally & technically
Material	SS 304	Functionally & technically
Design Pressure	4kg/cm <sup>2</sup>	Functionally & technically
Maximum Operating Pressure	3kg/cm <sup>2</sup>	Functionally & technically
Steam Output	40-50kg/hr	Functionally & technically
Heater	6-40 KW	Functionally & technically
Power supply	440W/50Hz/AC	Functionally & technically
Base structure	MS	Functionally & technically
Insulation	Glass Wool/Equivalent	Functionally & technically
Feed Pump	auto/Manual control	Functionally & technically
Other essential and compatible accessories	Tem Sensor	Functionally & technically
	Adjustable SS safety valve	Functionally & technically
	Pressure Switch	Functionally & technically
	Pressure Indicator	Functionally & technically
	Extra blind TC Connection, drain valve, steam valve pressure gauge, piping and electrical control panel with all safety devices	Functionally & technically
	Micro processor based PID Tem/Pressure control with digital display	Functionally & technically
	Auto water cutoff system	Functionally & technically

Item/Part & its specification		Remark
<b>C. CHILLER WITH 200 Lt TANK</b>		
Chiller	Skid Mounted Water-cooled chiller, fully automatic attach with PLC /PID controller	Functionally & technically
Capacity	70-100 L	Functionally & technically
Temcontroll	- 4° C to 50° C	Functionally & technically
	Having accuracy of 0.5 ° C.	Functionally & technically
Power	3-5KW	Functionally & technically
Refrigerant Gas	R-22	Functionally & technically
Valves	Expansion Valves	Functionally & technically
<b>Gas Piping</b>	Interconnecting refrigerant piping of Copper	Functionally & technically
	Structural stand for compressor, condenser, liquid receiver, chiller	Functionally & technically
<b>Control Panel</b>	Electro-Mechanical with fault indications	Functionally & technically
<b>Safety interlocks</b>	LP switch & Gauge HP switch & Gauge Compressor Overload trip Digital temp. Controller	Functionally & technically
<b>Installation</b>	Assembly & installation of the complete Chilling plant. Pressure test with nitrogen for leakage, vacuum test & charging of gas into the Chiller. Instrument cabling up to the control panel. Insulation of Chiller on Shell side up to Flange.	Functionally & technically
Noise Level	Less than 70 db at 1-meter Distance /unit	Functionally & technically
<b>D. OIL FREE AIR COMPRESSOR</b>		
Air output	6 Bar 1000 LPM – 35 CFM	Functionally & technically
Motor	15 H.P / 440V / 3 Ph / 50 Hz	Functionally & technically
Tank Capacity	Approximate 300 Liters	Functionally & technically
Tank Type	vertical with standard accessories	Functionally & technically
<b>E. RO WATER PLANT</b>		
Capacity	500-1000Lt	Functionally & technically
Water TDS	200 ppm	Functionally & technically
pH	5.5 – 7.3	Functionally & technically
Conductivity (mic/S.cm)	<1	Functionally & technically
Residual Dissolved Solids	<1 ppm max	Functionally & technically

Item/Part & its specification		Remark
Other essential accessories include such as	<ul style="list-style-type: none"> <li>• Raw water pump</li> <li>• Softener.</li> <li>• Multigrid sand filtration unit.</li> <li>• Activated carbon filtration unit.</li> <li>• Micron filtration system</li> <li>• Antiscalant dosing system</li> <li>• Reverse osmosis system stage</li> <li>• R.O. cleaning/flushing provision.</li> <li>• Automation in case of storing Permeate.</li> <li>• Electric control panel with conductivity meter.</li> <li>• RO water storage tank HDPE.</li> <li>• SS Pump for mix Bed</li> <li>• Mix Bed Unit.</li> </ul>	Functionally & technically
<b>F. FORMULATION TANKS (SS PROCESS TANKS)</b>		
<b>Vessel</b>		
Geometric Volume	<b>200L</b>	
Working Volume	75% (150L)	Functionally & technically
Jacket/Limpet	Jacket	Functionally & technically
Polishing Inner	240 grits (0.4)	Functionally & technically
Outer	Matt Finished	Functionally & technically
MOC(Contact)	SS316L	Functionally & technically
MOC(Non-Contact)	SS304	Functionally & technically
Sheet thickness	4 mm	Functionally & technically
Design Pressure	Shell =-1 to 3 bar Jacket =4 Bar	Functionally & technically
Other essential accessories	Safety Valve : SS Adjustable Pressure Safety Valve	Functionally & technically
	Pressure Indicator : SS Dial Type Filled With JEL	Functionally & technically
Design	As per ASME sec VIII div 1	Functionally & technically
Height to Dia Ratio	2.5	Functionally & technically
Baffles	4 no's	Functionally & technically
Sparger	Ring Sparger	Functionally & technically

Item/Part & its specification		Remark
Ports Compatible	Top <ul style="list-style-type: none"> <li>• Feeding (Acid, base, antifoam and nutrients)</li> <li>• Inoculation-Septum port.</li> <li>• Air exhaust</li> <li>• Instruments (Pressure gauge, pressure transmitter).</li> <li>• light glass-Side</li> <li>• Temperature Sensor.</li> <li>• Bottom</li> <li>• Bottom Flush Valve with Sterilization valves.</li> </ul>	Functionally & technically
<b>Vessel Side Ports Detail</b>		
Temperature Sensor Port	Compatible	Functionally & technically
Ph Sensor Port		Functionally & technically
Do ( Dissolve Oxygen) Sensor Port		Functionally & technically
Sampling Port		Functionally & technically
<b>Jacket Side Ports Detail</b>		
Pressure Gauge and Safety Valve	Compatible	Functionally & technically
Jacket Water/steam Inlet		Functionally & technically
Jacket Water/steam Outlet		Functionally & technically

### G. Specification of Bottle Filling, Sealing & Capping Machine

S. No	Specification	Remark
1	Skid mounted Fully Automated Bottle Filling package for aseptically filling Fermented Sterile Broth.	Functionally & technically
2	Liquid : Harvested Liquid Broth from 200 Lits Fermenter/ Bioreactor.	Functionally & technically
3	Filling Heads: Four Heads	Functionally & technically
4	Operating System: Induction Motor With Cam System	Functionally & technically
5	Output/ Min : 2-30Bottles /Hr of 250- 1000 ml Bottle	Functionally & technically
6	Power : 1 HP 440v 3 Phase 50Hz 3 Wire System	Functionally & technically
7	Input (Container Dia/Height): 24mm to 56mm Dia/ Height 120mm Max	Functionally & technically
8	Filling System : Fully Automatic with PLC	Functionally & technically
9	Fill Range : 250 ml to 1000 ml	Functionally & technically
10	Filling Accuracy : $\pm 0.5$ to 1% Filling accuracy on single dose	Functionally & technically
11	Tank Storage Capacity : 200 L	Functionally & technically
12	Machine Construction: Stainless steel SS 304	Functionally & technically
13	Filling Time: 6 hrs/day.	Functionally & technically
14	Bottle Liquid fill size: 250 ml-1000 ml	Functionally & technically

<b>S. No</b>	<b>Specification</b>	<b>Remark</b>
15	Volume: 200 Lits/ batch Filling	<b>Functionally &amp; technically</b>
16	Vessel will have Sterile Air supply to transfer Liquid to Feed container of Bottle filling system.	<b>Functionally &amp; technically</b>
17	Aseptic Bottle filling system with Laminar Air Flow	<b>Functionally &amp; technically</b>
18	Skid mounted Fully Automated Bottle capping , Sealing & labeling machine with compatible head	<b>Functionally &amp; technically</b>
19	Fully Automatic with sterile condition with a view to maintain aseptic condition	<b>Functionally &amp; technically</b>
20	Fully Automatic Bottle labeling system with all accessory	<b>Functionally &amp; technically</b>
21	Complete line comes with Minimum 17 Fit SS convener	<b>Functionally &amp; technically</b>
22	All compatible accessories required in fitting	<b>Functionally &amp; technically</b>

#### **Most Essential Facilities Required:**

In addition to the above specifications, following facilities are also to be included in the proposed price by the firm:

- Whole unit should be fixed/ installed in a way that it should be functionally and operationally viable.
- Two years AMC along with spare parts, consumables and breakdown visits.
- Training of employee for easy operation of equipments and the complete unit.
- Performance security – one batch run.
- Software for data logging and report generation.
- New technology clearly reflects in products.

**Certifications:** weightage will be given to the firms having following certifications:

- ISO 9001-2015 certification
- CE certification
- ISO 3690-2012 certification (welding process)
- WHO-GMP Certification
- ISO 10002-2004 certification
- 14001:2015
- OHS/1546 certification



Annexure-7

Compliance Certificate/ No Deviation Statement

Specification of Items mentioned in Tender Enquiry	Specification of Items offered by the Bidder	Whether there are deviation from the tender specification yes/no	If yes, indicate the deviation & whether it on positive side & how
<b>A. Fermenter Vessel</b>			
<b>a) Vessel Details</b>			
Geometric Volume	200L		
Working Volume	75% (150L)		
Jacket/Limpet	Jacket		
Polishing Inner	240 grits (0.4)		
Outer	Matt Finished		
MOC(Contact)	SS316L		
MOC(Non-Contact)	SS304		
Sheet thickness	4 mm		
Design Pressure	Shell =-1 to 3 bar Jacket =4 Bar		
	Safety Valve : SS Adjustable Pressure Safety Valve		
	Pressure Indicator : SS Dial Type Filled With JEL		
Design	As per ASME sec VIII div 1		
Height to Dia Ratio	2.5		
Baffles	4 no's welded @ 10 %width OF ID of vessel		
Sparger	Ring Sparger @ 70 %of the impeller Dia.		
Manhole	No		
Ports (Compatible all ports)	Top <ul style="list-style-type: none"> <li>• Feeding (Acid, base, antifoam and nutrients)</li> <li>• Inoculation-Septum port.</li> <li>• Air exhaust</li> </ul>		

Specification of Items mentioned in Tender Enquiry		Specification of Items offered by the Bidder	Whether there are deviation from the tender specification yes/no	If yes, indicate the deviation & whether it on positive side & how
	<ul style="list-style-type: none"> <li>• Instruments (Pressure gauge, pressure transmitter).</li> <li>• light glass-Side</li> <li>• Temperature Sensor.</li> <li>• Bottom</li> <li>• Bottom Flush Valve with Sterilization valves.</li> </ul>			
<b>b) Agitator Assembly</b>				
Shaft MOC	SS 316			
Shaft Design	Single			
Bottom Support for shaft	Not applicable			
Motor	200-500 RPM			
Mechanical Seal	Single with cooling system			
Stuffing Box Sealing	For Zero Contamination and Reduce Air Leakage			
Impeller	40% Dia. of the vessel, Rushton X 3nos			
<b>c) Instrumentation Microprocessor based</b>				
Temperature & Sterilization Control System				
Type	Automatic			
Temp Sensor	Pt.100, 19mm, SS-316 port(Sterilizable)			
Temp Indicator	0-150° C			
Heating Assembly	SS316			

Specification of Items mentioned in Tender Enquiry		Specification of Items offered by the Bidder	Whether there are deviation from the tender specification yes/no	If yes, indicate the deviation & whether it on positive side & how
Electronic Control Station	7" Unitronics PLC based control with inbuilt webserver ethernet, USB, 2 RS485, Memory card for storing the recipe controls.			
<b>Digital Temp. Control</b>				
Type	PID			
Range	0-60 °C			
Measurement precision	+ 0.1 °C			
<b>Control precision</b>				
Type	PID			
Range	0-150°C			
<b>RPM Control</b>				
Range	20-500 RPM			
AC drive	Electronic Frequency Control, Fully Automatic			
<b>pH Probe on line</b>				
Type	Gel Filled			
Size	120mm			
Sterilizable	Yes			
Housing	SS 316L			
<b>pH Control</b>				
Control Type	PID			
Range	0-14pH			
Timer	Acid and pump ON-OFF Timer			
Peristaltic pumps	2 No's			
<b>Feed Control</b>				
Peristaltic pumps	1 No's			
Type	Polarographic			
Size	25mm			
Sterilizable	Yes			
Housing	SS 316L			
<b>Air Flow Control</b>				
Type	Rotameter			
Specification	As per capacity requirement			

Specification of Items mentioned in Tender Enquiry		Specification of Items offered by the Bidder	Whether there are deviation from the tender specification yes/no	If yes, indicate the deviation & whether it on positive side & how
MOC	SS316			
<b>Relief valves</b>				
MOC	SS-304			
<b>Pressure Gauge</b>				
Type	Diaphragm type, MOC SS316			
Rating	0-4Kg/cm2			
<b>Air Filters Details</b>				
Air Inlet Filter	<b>Functionally &amp; technically</b>			
Air Outlet Filter	0.2 Micron PP Filter With 5" SS 316L Filter Housing			
Air Outlet	Through Shell Tube Type Condenser ( Heat Exchanger)			
Bottom End	Dish End With 50 Tc Drain Valve For Material Outlet			
Top End	Flat			
Sight Glass	For View Process and Level of Liquid of compatible size and thickness			
Light Glass Assembly	Compatible size and thickness			
<b>Vessel Side Ports Detail</b>				
Temperature Sensor Port	Compatible size			
Ph Sensor Port				
Do ( Dissolve Oxygen) Sensor Port				
Sampling Port				

Specification of Items mentioned in Tender Enquiry		Specification of Items offered by the Bidder	Whether there are deviation from the tender specification yes/no	If yes, indicate the deviation & whether it on positive side & how
<b>Jacket Side Ports Detail</b>				
Pressure Gauge and Safety Valve	Compatible size			
Jacket Water/steam Inlet				
Jacket Water/steam Outet				
SIP System	Inbuilt			
CIP System	Inbuilt			
<b>B. Electrical Steam Generator</b>				
compact fully automatic Steam generator integrated with the controller system	Ideal for 200 L to 500 L Fermenter			
Type	Electric			
Material	SS 304			
Design Pressure	4kg/cm2			
Maximum Operating Pressure	3kg/cm2			
Steam Output	40-50kg/hr			
Heater	6-40 KW			
Power supply	440W/50Hz/AC			
Base structure	MS			
Insulation	Glass Wool/Equivalent			
Feed Pump	auto/Manual control			
Other essential and compatible accessories	Tem Sensor			
	Adjustable SS safety valve			
	Pressure Switch			
	Pressure Indicator			
	Extra blind TC Connection, drain valve, steam valve pressure gauge, piping and electrical control panel with all safety devices			

Specification of Items mentioned in Tender Enquiry		Specification of Items offered by the Bidder	Whether there are deviation from the tender specification yes/no	If yes, indicate the deviation & whether it on positive side & how
	Micro processor based PID Tem/Pressure control with digital display			
	Auto water cutoff system			
<b>C. Chiller</b>				
Chiller	Skid Mounted Water-cooled chiller, fully automatic attach with PLC /PID controller			
Capacity	70-100 L			
Temcontroll	- 4° C to 50° C			
	Having accuracy of 0.5 ° C.			
Power	3-5KW			
Refrigerant Gas	R-22			
Valves	Expansion Valves			
<b>Gas Piping</b>	Interconnecting refrigerant piping of Copper			
	Structural stand for compressor, condenser, liquid receiver, chiller			
<b>Control Panel</b>	Electro-Mechanical with fault indications			
<b>Safety interlocks</b>	LP switch & Gauge HP switch & Gauge Compressor Overload trip Digital temp. Controller			
<b>Installation</b>	Assembly & installation of the complete Chilling plant.			

Specification of Items mentioned in Tender Enquiry		Specification of Items offered by the Bidder	Whether there are deviation from the tender specification yes/no	If yes, indicate the deviation & whether it on positive side & how
	Pressure test with nitrogen for leakage, vacuum test & charging of gas into the Chiller. Instrument cabling up to the control panel. Insulation of Chiller on Shell side up to Flange.			
Noise Level	Less than 70 db at 1-meter Distance /unit			
<b>D. Oil Free AIR COMPRESSOR</b>				
Air output	6 Bar 1000 LPM – 35 CFM			
Motor	15 H.P / 440V / 3 Ph / 50 Hz			
Tank Capacity	Approximate 300 Liters			
Tank Type	vertical with standard accessories			
<b>E. Water treatment plant (RO)</b>				
Capacity	500-1000Lt			
Water TDS	200 ppm			
pH	5.5 – 7.3			
Conductivity (mic/S.cm)	<1			
Residual Dissolved Solids	<1 ppm max			
Other essential accessories include such as	<ul style="list-style-type: none"> <li>• Raw water pump</li> <li>• Softener.</li> <li>• Multigrid sand filtration unit.</li> <li>• Activated carbon filtration unit.</li> </ul>			

Specification of Items mentioned in Tender Enquiry		Specification of Items offered by the Bidder	Whether there are deviation from the tender specification yes/no	If yes, indicate the deviation & whether it on positive side & how
	<ul style="list-style-type: none"> <li>• Micron filtration system</li> <li>• Antiscalant dosing system</li> <li>• Reverse osmosis system stage</li> <li>• R.O. cleaning/flushing provision.</li> <li>• Automation in case of storing Permeate.</li> <li>• Electric control panel with conductivity meter.</li> <li>• RO water storage tank HDPE.</li> <li>• SS Pump for mix Bed</li> <li>• Mix Bed Unit.</li> </ul>			
<b>F. SS Process Tank (Formulation tank)</b>				
<b>Vessel</b>				
Geometric Volume	<b>200L</b>			
Working Volume	75% (150L)			
Jacket/Limpet	Jacket			
Polishing Inner	240 grits (0.4)			
Outer	Matt Finished			
MOC(Contact)	SS316L			
MOC(Non-Contact)	SS304			
Sheet thickness	4 mm			
Design Pressure	Shell =-1 to 3 bar Jacket =4 Bar			



Specification of Items mentioned in Tender Enquiry		Specification of Items offered by the Bidder	Whether there are deviation from the tender specification yes/no	If yes, indicate the deviation & whether it on positive side & how
Other essential accessories	Safety Valve : SS Adjustable Pressure Safety Valve			
	Pressure Indicator : SS Dial Type Filled With JEL			
Design	As per ASME sec VIII div 1			
Height to Dia Ratio	2.5			
Baffles	4 no's			
Sparger	Ring Sparger			
Ports Compatible	Top <ul style="list-style-type: none"> <li>• Feeding (Acid, base, antifoam and nutrients)</li> <li>• Inoculation-Septum port.</li> <li>• Air exhaust</li> <li>• Instruments (Pressure gauge, pressure transmitter).</li> <li>• light glass-Side</li> <li>• Temperature Sensor.</li> <li>• Bottom</li> <li>• Bottom Flush Valve with Sterilization valves.</li> </ul>			
<b>Vessel Side Ports Detail</b>				
Temperature Sensor Port	Compatible			
Ph Sensor Port				
Do ( Dissolve Oxygen) Sensor Port				
Sampling Port				

Specification of Items mentioned in Tender Enquiry	Specification of Items offered by the Bidder	Whether there are deviation from the tender specification yes/no	If yes, indicate the deviation & whether it on positive side & how
<b>Jacket Side Ports Detail</b>			
Pressure Gauge and Safety Valve	Compatible		
Jacket Water/steam Inlet			
Jacket Water/steam Outlet			

### Bottle Filling, Sealing, Capping and labeling Machine

S. No	Specification mentioned in Tender Enquiry	Specification of Items offered by the Bidder	Whether there are deviation from the tender specification yes/no	If yes, indicate the deviation & whether it on positive side & how
1	Skid mounted Fully Automated Bottle Filling package for aseptically filling Fermented Sterile Broth.			
2	Liquid: Harvested Liquid Broth from 200 Ltrs Fermenter/ Bioreactor.			
3	Filling Heads: Four Heads			
4	Operating System: Induction Motor With Cam System			
5	Output/ Min : 2-30Bottles /Hr of 250- 1000 ml Bottle			
6	Power : 1 HP 440v 3 Phase 50Hz 3 Wire System			
7	Input (Container Dia/Height): 24mm to 56mm Dia/ Height 120mm Max			
8	Filling System : Fully Automatic with PLC			
9	Fill Range : 250 ml to 1000 ml			
10	Filling Accuracy : $\pm 0.5$ to 1% Filling accuracy on single dose			
11	Tank Storage Capacity : 200 L			
12	Machine Construction: Stainless steel SS 304			
13	Filling Time : 6 hrs/day.			
14	Bottle Liquid fill size: 250 ml-1000 ml			
15	Volume: 200 Lits/ batch Filling			
16	Vessel will have Sterile Air supply to transfer Liquid to Feed container of Bottle filling system.			
17	Aseptic Bottle filling system with Laminar Air Flow			
18	Skid mounted Fully Automated Bottle capping, Sealing &labelling machine with compatible head			
19	Fully Automatic with			

S. No	Specification mentioned in Tender Enquiry	Specification of Items offered by the Bidder	Whether there are deviation from the tender specification yes/no	If yes, indicate the deviation & whether it on positive side & how
	sterile condition with a view to maintain aseptic condition			
20	Fully Automatic Bottle labeling system with all accessory			
21	Complete line comes with Minimum 17 Fit SS convener			
22	All compatible accessories required in fitting			

**Other Requirements/ Facilities:**

Specific Facilities mentioned in Tender enquiry	Offered as proposed Yes or No	Modified offer by bidder	Modified offer by bidder is positive/Negative
<b>Most essentials Facility Requirements:</b>			
<ul style="list-style-type: none"> <li>Whole unit should be fixed/ installed in a way that it should be functionally and operationally viable.</li> </ul>			
<ul style="list-style-type: none"> <li>Two years AMC along with spare parts, consumables and breakdown visits.</li> </ul>			
<ul style="list-style-type: none"> <li>Training of employee for easy operation of equipments and the complete unit.</li> </ul>			
<ul style="list-style-type: none"> <li>New technology must be clearly reflected in the products.</li> </ul>			
<ul style="list-style-type: none"> <li>Performance security – one batch run.</li> </ul>			
<ul style="list-style-type: none"> <li>Software for data logging and report generation.</li> </ul>			
<b>Weightage will be given to the firms having following Certifications:</b> <ul style="list-style-type: none"> <li>ISO 9001-2015 certification</li> <li>CE certification</li> <li>ISO 3690-2012 certification (welding process)</li> <li>WHO-GMP Certification</li> <li>ISO 10002-2004 certification</li> <li>14001:2015</li> <li>OHS/1546 certification</li> </ul>			

Date :

Authorized signatory  
(Name, Designation, Address, Telephone No., E-mail)

**Note: Original documents in hard copy must be submitted by Speed Post with other documents and soft copy must be uploaded on the portal (Please refer the check).**

*Annexure-8*

**GUARANTEE CERTIFICATE**

(On the original letter head of the manufacturer/ dealer)

To,

The Dean  
B.M. College of Agriculture  
Jaswadi Road, Khandwa (M.P.)

Ref: - Yours S.O. No.- \_\_\_\_\_ dated - \_\_\_\_\_ placed on us.

Dean Sir,

With reference to the above, this is to certify that the following work has been executed by us M/s \_\_\_\_\_

S. No.	Name of the Item
1	<b>SUPPLY AND ESTABLISHMENT OF FERMENTER UNIT AT B.M. College of Agriculture, Khandwa</b>

We further certify that the material supplied for above has been duly pre inspected by us and have been found to be in conformity with specification as per the terms & conditions of the supply order.

They are hereby guaranteed for a period of 12 months from the date of completion of work against any material defects, manufacturing defects (Including assembly installation. Commissioning as applicable) and bad workmanship.

In case of any defect, we guarantee to replace the same immediately without at any cost.

Yours faithfully,

(Authorized signatory of the Dealer & Seal) /  
(Authorized signatory of the manufacturer & Seal)

**Security Deposit Form**

To,

The Dean  
B.M. College of Agriculture  
Jaswadi Road, Khandwa M.P.

Whereas \_\_\_\_\_  
(Name of Supplier)

Hereinafter called "The Supplier" has undertaken, in pursuance of Contract (issued Purchase order) No. \_\_\_\_\_ Dated \_\_\_\_\_ 2020 \_\_\_\_\_ **FOR SUPPLY AND ESTABLISHMENT OF FERMENTER UNIT AT B.M. College of Agriculture, Khandwa ON A TURN KEY BASIS** hereinafter called "The contract" and whereas it has been stipulated by you in said contract. That the supplier shall furnish you with a Bank Guarantee by a recognized bank for the sum specified there in as security for compliance with the supplier's performance obligations in accordance with the contract. And Whereas we hereby affirm that we are Guarantors and responsible to you on behalf of the supplier, up to a total of (Amount of the Guarantee in words and Figures) 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 agreement, any sum or sums within the limits of (Amount of Guarantee) aforesaid, without Your needing to prove or to show ground or reasons for your demand or the sum specified there in.

This Guarantee is valid until the \_\_\_\_\_ Day of \_\_\_\_\_ 2019/2020.

Authorized Signature and seal of the Guarantors  
(Bank Authorities)

Date \_\_\_\_\_

Address \_\_\_\_\_

Note- Stamp Paper of Bank Guarantee should be purchased by Bank.

## **CONTRACT AGREEMENT**

**THIS AGREEMENT** made the \_\_\_\_\_ day of \_\_\_\_\_ 2020 between \_\_\_\_\_ (Name of purchaser) of \_\_\_\_\_ (Country of Purchaser) (hereinafter called “the Purchaser” of the one part and \_\_\_\_\_ (Name of Supplier) of \_\_\_\_\_ (City and Country of Supplier) (hereinafter called “the Supplier”) of the other part :

**WHEREAS** the Purchaser is desirous **FOR SUPPLY AND ESTABLISHMENT OF FERMENTER UNIT AT B.M. COLLEGE OF AGRICULTURE, KHANDWA ON A TURN KEY BASIS** and has accepted a bid by the Supplier to execute the work of **FOR SUPPLY AND ESTABLISHMENT OF FERMENTER UNIT AT B.M. COLLEGE OF AGRICULTURE, Khandwa ON A TURN KEY BASIS** in the sum of \_\_\_\_\_ (Contract/ P.O. Price in Words and Figures) (hereinafter called “Contract/P.O. Price”)

### **NOW THIS AGREEMENT WITNESSED AS FOLLOWS:**

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract/ P.O. referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, *viz.:*
  - (a) The form A and the Price Schedule submitted by the Bidder;
  - (b) The quantity of items
  - (c) The Technical Specification;
  - (d) The Conditions of Tender/Purchase order;

3. Security Deposit of 10% of the total value of the order in the form Bank guarantee will have to be deposited by the successful bidder before the final orders are placed with him. Security Deposit (Bank guarantee) should be submitted in favor of RVSKVV A/C KHANDWA. If the demanded security deposit of 10% is not deposited by the bidder in the specific period the Earnest Money already deposited with the tender is liable to be forfeited.
4. Delivery Period should be 60 days from the date of purchase order.
5. The successful bidder should supply full ordered quantity of items (**FOR SUPPLY AND ESTABLISHMENT OF FERMENTER UNIT ON A TURN KEY BASIS** for B.M.COLLEGE OF AGRICULTURE, JASWADI ROAD, KHANDWA MADHYA PRADESH within the prescribed delivery period specified in the order. If the bidder faces difficulty in supply of ordered quantity within the delivery period then he should submit a representation indicating the appropriate reasons of delay. Power to extend delivery period would remain with Purchaser. If the delivery period is not extended by the purchaser then the order be cancelled and the security deposit equivalent to 10% of the value of the order will be forfeited.
6. The Tender quoted by the bidder will be valid up to 12 months from the date of opening of the tenders. All order placed up to this date on the rates quoted will be binding on bidder.
7. 90% payment will be released after the safe receipt, as per specification and installation and demonstration. Remaining 10% of Payment will be made after one month. Therefore, the invoice should be prepared separately for 90% and 10 % of the cost of the item.
8. All consignment must be dispatched freight paid. "To pay" Railway Receipt/Freight Receipts will not be accepted.
9. In consideration of the payment to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby commits to the Purchaser to provide the goods and to remedy defects therein in conformity in all respects with the provisions of the Contract.

10. The Purchaser hereby commits to pay the Supplier in consideration of the provision of the goods and services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

Brief particulars of the goods and services which shall be supplied/ provided by the Supplier are as under.

S. No.	Description of Goods	Basic price	GST	Total Price	Delivery Terms
1	<b>SUPPLY AND ESTABLISHMENT OF FERMENTER UNIT AT B.M. College of Agriculture, Khandwa ON A TURN KEY BASIS AS PER SPECIFICATIONS GIVEN IN BID DOCUMENT / PURCHASE ORDER</b>				<b>COMPLETE EXECUTION OF SUPPLY AND ESTABLISHMENT OF FERMENTER UNIT AT B.M. College of Agriculture, Khandwa ON A TURN KEY BASIS AS PER SPECIFICATIONS GIVEN IN BID DOCUMENT / PURCHASE ORDER WITHIN 60 DAYS FROM THE DATE OF P.O.</b>

**Total Value of Contract /P.O.:-**

**Delivery Schedule:-**

**IN WITNESS** where of the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day year first above written.

Signed, Sealed and Delivered by the

Said..... (For the Purchaser)

In the presence of .....

Signed, Sealed and Delivered by the

Said.....(for the Supplier)

in the presence of .....