COLLEGE OF AGRICULTURE,

DR. BALASAHEB SAWANT KONKAN KRISHI VIDYAPEETH

Dapoli 415712, Dist. Ratnagiri (MAHARASHTRA)

Email:assodeanfor@rediffmail.com

hod.plpath@gmail.com

No. ACD/ RKVY-Bio form/e-Tender/431/2022 Date: 23/08/2022

e-TENDERNOTICE NO.1

Sealed tenders in the prescribed form are invited (in e-tendering format only) in **"D form"** (that is in two envelope system) for purchase of equipment's, setting of equipments in desired format, commissioning the project on Bio-formulation and operational training from the registered manufacturers or authorized dealers or representatives of local/international manufacturers by the Associate Dean, College of Agriculture, Dr.B.S.K.K.V., Dapoli on 14.09.2022 **(upto 5.30 pm).** The tender form can be downloaded online but the form cost Rs. 15,000/- (Non Refundable), which can be paid online using e-tendering system. The tender forms will not be supplied through post. The sealed tenders are proposed to be opened on 16.09.2022 **(at 5.30 pm).** The brief details of the equipment's to be purchased, EMD details and cost for the tender form are as follows.

<table>
<tr><th>Sr. No.</th><th>Name of the Equipment's *</th><th>Amount of E.M.D. (Rs.)</th><th>Period of completion</th><th>Tender form fee (Non-refundable)</th></tr>
<tr><td>01</td><td>
<table>
<tr><th>S. No</th><th>Equipment</th><th>capacity</th><th>Qty.</th></tr>
<tr><td>1.</td><td>Process Vessel (Fermenter)</td><td>500Lt</td><td>3</td></tr>
<tr><td>2.</td><td>SeedVessel (Fermenter)</td><td>100Lt</td><td>1</td></tr>
<tr><td>3.</td><td>Air Compressor</td><td>107CFM</td><td>1</td></tr>
<tr><td>4.</td><td>Chiller</td><td>5TR</td><td>1</td></tr>
<tr><td>5.</td><td>Dieselfired boiler</td><td>200Kg/Hr</td><td>1</td></tr>
<tr><td>6.</td><td>TFF (filtration for concentration)</td><td>0.2</td><td>1</td></tr>
<tr><td>7.</td><td>Spray dryer</td><td>5Kg</td><td>1</td></tr>
<tr><td>8.</td><td>Ribbon Blender</td><td>20Kg</td><td>1</td></tr>
<tr><td>9.</td><td>Ribbon Blender</td><td>200Kg</td><td>1</td></tr>
<tr><td>10.</td><td>Laminar flow</td><td>4x2x2</td><td>1</td></tr>
<tr><td>11.</td><td>Microscope</td><td>stereoscopic</td><td>1</td></tr>
<tr><td>12.</td><td>Filling station</td><td>500/1000Lt</td><td>1</td></tr>
<tr><td>13.</td><td>Hand Capsule filling machine</td><td>500 capsules</td><td>1</td></tr>
<tr><td>14.</td><td>Incubator</td><td>165 Lt</td><td>1</td></tr>
<tr><td>15.</td><td>RO Plant</td><td>100/200Lt per hr</td><td>1</td></tr>
<tr><td>16.</td><td>Room temperature control with Datalogger</td><td>12x12 ft room</td><td>1</td></tr>
<tr><td>17.</td><td>Utilities pipeline</td><td>Utility area to plant</td><td>1</td></tr>
<tr><td>18.</td><td>UV SPECTROPHOTOMETER</td><td>Double Beam</td><td>1</td></tr>
</table>
</td><td>4,50,000/-

As per State Government GR (6.8 Annexure 8)</td><td>Maximum two months from the order date</td><td>15,000/-</td></tr>
</table>

The rates shall be quoted FOR Dapoli and including the all taxes, installation etc. considering the detailed specifications given in Appendix-II the rates should be inclusive of necessary fitting and additional component to run the equipment. Please consider the conditions in Appendix-III while coating the rates. No extra payment will be made on any ground thereafter. The e-Tender form will be only considered/opened if all the technical documents be attached with tender. **Any type of exemption for EMD will not be accepted by this University.** Also, in case of successful bidder, 3% (including EMD amount) of the final order amount will be withheld as 'Security Deposit' for the period of 1 year (i.e. warranty period). The University reserves all the right to purchase or not to purchase any of this equipment/material and quantity may vary accordingly. All other details are included in the tender form, which is also available on the University website www.dbskkv.org

Sd/-

Associate Dean,
College of Agriculture,
Dr. B. S. Konkan Kishi vidyapeeth,
Tal: Dapoli, Dist: Ratnagiri. (M.S.)

Place: Dapoli
Date:

*** More details are mentioned the Appendix II**

COLLEGE OF AGRICULTURE,

DR. BALASAHEB SAWANT KONKAN KRISHI VIDYAPEETH

Dapoli 415712, Dist. Ratnagiri (MAHARASHTRA)

Email: assodeanfor@rediffmail.com

hod.plpath@gmail.com

No. ACD/ RKVY-Bio-Formulation/e-Tender/431 /2022 Date: 23/08/2022

e-TENDERNOTICE NO.1

Sealed tenders in the prescribed form are invited (in e-tendering format only) in **"D form"** (that is in two envelope system) for purchase of following equipment's from the registered manufacturers or authorized dealers or representatives of local/international manufacturers by the Associate Dean, College of Agriculture, Dr.B.S.K.K.V., Dapoli.

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<tr><th>Sr. No.</th><th>Name of the Equipment's *</th><th>Amount of E.M.D. (Rs.)</th><th>Period of completion</th><th>Tender form fee (Non-refundable)</th></tr>
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As per State Government GR (6.8 Annexure 8)</td><td>Maximum two months from the order date</td><td>15,000/-</td></tr>
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e-TENDER 1 SCHEDULE

Sr. No	Procedure for Dr. Balasaheb Sawant Konkan Agricultural University	Procedure for Contractor/ Vendor	Start Date and Time	Expiry Date and Time	Envelope Remarks
1	Release e-Tender	-	24.08.2022 Time 10:00	-	-
2	-	e-Tender download & Bid Submission	24.08.2022 Time10:00	14.09.2022 Time17.30	Submission of Technical (T1) and Commercial (C1) envelope
7	Technical Bid Opening (If possible/Time may vary)	-	16.09.2022 Time10:00	16.09.2022 Time 17:30	Technical (T1) envelope will be opened.

Note: Please do enquiry regarding the date of opening of technical and price bid, in the office of Associate Dean, College of Agriculture, Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli, District- Ratnagiri. Email enquiry will be preferred on:assodeanfor@rediffmail.com / hod.plpath@gmail.com

General Terms and Conditions

1. When submitting the e-tender documents to the government website, there is need to submit following scanned copies of original /self-attested documents on the website.
2. This tender is not only for supply of equipments but the concerned firm has to establish all the equipments/machinery at the prescribed position in a definite scientific sequence.
3. The firm has to commission the entire project on **"turn key basis"**(refer Appendix III)
4. The experts of the firm should give operational training to the concern staff of the Department of Plant Pathology for smooth functioning.
5. The supplier has to monitor the operations for a period of one year and rectify the short comings in the process whenever arised at his own cost.
6. Following documents need to be submitted along with the tender.
    1. Registration Certificate of a firm / company.
    2. Certificate of manufacturer (Self declaration on company's letter head) or Certificate for authorized dealer / representative of local / international manufactures (On the manufacturer's letter head).
    3. GST certificate / number
    4. Last three years (2021-22, 2020-21 and 2019-20) income tax return certificates for old firm / company. In case of new firm, last one year (2021-22) income tax return certificate is **must**.
    5. PAN card of the company / firm.
    6. Certificate of previous work / client's list on a company's letter head (The dealers / representative of local/international manufacturers **must** submit certificate for previous work /client list issued by their manufacturer on the company's letter head).
7. As per Government policy, the e-tender documents are going to submit online only hence, there is **no need** to resubmit e-tender documents to the office by post.
8. The documents in the technical bid (**Envelope T1**) will be confirmed only after verifying the original documents, in case of any doubt about the documents. The tenderer's price bid (**Envelope C1**) will not be opened in case of technical documents and other verifications are found to be unsatisfactory and this will not be reported individually to such tenderer. Also, in this matter the decision of the purchase committee of the university will be final and binding on the tenderer.
9. The e-tender form fee for this work is to be paid online before downloading, the e-tender form as well as the EMD amount is to be paid online only. The supplier has to pay all the amount online only. There will not be any concession or discount on e-tender form fee / EMD amount / security deposit. Also, any type of amount is not to be pay directly to any university account through the bank. It means, all the transactions are to be done through debit or credit card. There is need to pay e-tender form fee and EMD amount by considering the bank commission and other bank charges.
10. The e-tender form fee for this work is to be paid on A/c details mentioned before downloading, the e-tender form as well as the EMD amount is to be paid only to A/c Name **Comptroller, Dr. B. S. K. K.V. Dapoli**, A/c No.:**37893440225 State Bank of India, Branch -Dapoli**, IFSC Code **SBIN0001047**. The supplier has to pay all the amount on a/c details mentioned above only. There will not be any concession or discount on e-tender form fee / EMD amount / security deposit.

11. All eligible / interested tenderers are need to register at the main website, **https://maharashtra.nextprocure.in**or**https://agro.maharashtra.nextprocure.in**of the e-Tender system, to download the tender and participate in the tender process. The suppliers involved in the e-Tender process should have to pay amount of **Rs. 885/- (Rs. Eight Hundred Eighty FIve) only on A/c details mentioned above** for preparation of e-tender.
12. All the details of the tender notice are available from on the University website:**www.dbskkv.org,** also available on **https://maharashtra.nextprocure.in**
13. Tenderers can contact the following telephone number if they have any doubts / issues regarding submission of tender, online certificates and delivery of digital certificates: Nextenders India Private Limited, Helpdesk Support: 9356492848, 9356468309, 935647286, Email:**helpdesk@nextenders.com**
14. If the holiday is declared on the date of opening of the tender, the working of that particular day will be carried out on the next working day.
15. The supplier whose tender will be accepted, has to accept warranty conditions in the prescribed format on the bond paper of **Rs. 500/-.**
16. **Other terms and conditions will be available in the e-tender form. The signed authority reserves the right to reject any tender or all tenders at any stage without giving any reason.**
17. Since the works in the tender are time bound, the tenderer will be obliged to complete the work within the prescribed timeframe from the date of issue of confirmed order. The Associate Dean, College of Forestry, Dapoli reserves all the rights about giving extension for completion of the work in the situations deemed appropriate.
18. There is need to provide Tax Invoice including material supply duration, warranty, guaranty, transportation at the destination (DBSKKV Dapoli).
19. For the more information, the tenderer can contact to the office of the Associate Dean, College of Forestry, Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli, District Ratnagiri; during the working hours (9 am to 5.30 pm)
20. **3 % security deposit** amount will be charged from the successful tenderer. The amount will be adjusted through the EMD amount. Also, the security deposit will be returned after the warranty period and the supplier must surrender the original receipt while asking for the refund of the security deposit.

Sd/-
Associate Dean,
College of Agriculture, Dapoli
Dr. B. S. Konkan Kishi vidyapeeth,
Tal: Dapoli, Dist: Ratnagiri. (M.S.)

Place: Dapoli
Date:

CC (By email):

1. Hon. Director General, Maharashtra Krishi Shikshan Parishad, Survey No. 132 / B, Bambara,Bhosalenagar, Pune.

2**.** The Registrar**,** Dr. Balasaheb Sawant Konkan Agricultural University, Dapoli with request to circulatee-Tender notification among all EC members of DBSKKV Dapoli by email.

3. AKMU, Dr. Balasaheb Sawant Konkan Agricultural University, Dapoli with request to upload e-Tender notification on the university website with immediate effectand keep it upto last date (upto**17.30**) of tender submission.

COLLEGE OF AGRICULTURE,

DR. BALASAHEB SAWANT KONKAN KRISHI VIDYAPEETH
Dapoli 415712, Dist. Ratnagiri (MAHARASHTRA)
Email: assodeanfor@rediffmail.com
hod.plpath@gmail.com

Tender for supply of Different equipments, setting of equipments in the prescribed format, commissioning the project on Bio-formulation and training for establishment of bio formulation unit using advanced techniques.

by

Associate Dean,
College of Agriculture, Dapoli
Dr. B. S. Konkan Kishi vidyapeeth,
Tal: Dapoli, Dist: Ratnagiri. (M.S.)

Email: assodeanfor@rediffmail.com
hod.plpath@gmail.com

Summary

1.	Date of issue of tender form	:	**24.08.022**
2.	Last date for receipt of sealed tender	:	**14.09.2022 (upto 5.30 pm)**
3.	Date of opening of tenders	:	**16.09.2022 (at 5.30 pm)**
4.	Cost of tender form	:	**Rs. 15,000/- per set (Non-refundable)**
5.	Earnest Money Deposit (EMD)	:	**Rs. 4,50,000 /-**

COLLEGE OF AGRICULTURE,

DR. BALASAHEB SAWANT KONKAN KRISHI VIDYAPEETH
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Tender for supply of Different equipments, setting of equipments in the prescribed format, commissioning the project on Bio-formulation and training for establishment of bio formulation unit using advanced techniques.

FORM OF TENDER

To,

The Associate Dean,
College of Agriculture,
Dr. B. S. Konkan Krishi Vidyapeeth,
Dapoli.

Dear Sir,

1. In response to the tender notice published in the daily newspaper _____, dated the _____. University website www.dbskkv.org, I/We submit herewith the tender form for supply of …….

2. I/We have thoroughly examined and understood the terms and conditions of the tender contained in Appendix-I (Part I) and I/We agree to abide by them in full.

3. I/We offer to undertake the supply of equipment/Instrument and have quoted the rates inclusive of all taxes, freight etc. for destination as given in Appendix II. It is agreed that, there is no additional charges other than those mentioned in word (in the bid form or Appendix-II) payable to me/us.

4. I/We accept that the rates offered shall remain valid for **a period of three months** from the date of execution of agreement. I/We further agree that if the date upto which the offer would remain open be declared as holiday for office, then offer will remain open for acceptance till next working day.

5. I/We shall be bound by communication of acceptance of the offer, dispatched within prescribed time.

6. **I/We accept that the right to accept or reject whole or part of the tender without assigning any reason is reserved with the University. The decision of the University will be final and shall be binding on me/us.**

7. As required by the terms and conditions of tender an amount of **Rs.4,50,000/-** is paid by me/us as Earnest Money Deposit (E.M.D.) through online payment in favor of Dr. B.S. Konkan Krishi Vidyapeeth, Dapoli.

8. I/We agree to undertake the supply of the machinery/Instruments as per the specifications at location of office mentioned in the final order and as per the specifications of the final order (i.e. as given in Appendix-II) within period of **two months** from the date of firm order. I/we will setup all the machinery and equipments as per the prescribed design as approved by the University and will commissioned the project.

9. As rates are valid for three months. I/We also agree to undertake to supply scientific equipments in full or in part to other offices of Dr. B.S. Konkan Krishi Vidyapeeth, Dapoli spread over Konkan region under same terms and conditions against the supply orders up to the period of **three months from the date of execution of Agreement/ Warranty Bond.**

10. **As per the terms and conditions Appendix - I (Part-I), I/We are submitting our offer in two envelopes. In envelope one (T1), it contents documents as per the condition at Sr. No. 10 of part-I. In envelope two (C1), it includes rates quoted by me/us strictly in the format given in Appendix - II**

11. **I/We also agree that University has full rights to open/consider the envelope C1 if and only if University is satisfied with information contains in envelope T1. The decision of the University regarding this will be final and will be binding on me/us.**

12. I/We hereby declare that the entries made in this tender form, i.e. in Appendix - II are binding for me/us. I/We shall be bound by the Act to my/our authorized representative duly constituted Attorney Shri. _____signature is appended hereto in the place specified for the purpose and of any other person who in future may be appointed by me/us in his place to carry on the business of this concern/agency/firm. The intimation of such change will be given to The Associate Dean, College of Agricultural, Dr. B.S. Konkan Krishi Vidyapeeth, Dapoli.

13. **I/We hereby take the responsibility of commissioning and maintaining the equipments for their satisfactory performance at their location(s) free of cost in the warranty period.** I/We hereby also take the responsibility to provide the services (may be paid) for at least 5 years after expiry of warranty periods.

The following documents duly filled in and signed, are enclosed herewith. The Part-I of Appendix – I being the terms and conditions is retained by me/us for my/our information and record.

Yours faithfully,

Signature of the Supplier

Place: _____
Date: _____

Capacity in which signing: _____

Name and Address of the firm/supplier: _____

Registration No. of the Supplier: _____

List of Documents attached:

1. Part-II of Appendix - I
2. Registration Certificate of a firm / company.
3. Certificate of manufacturer (Self declaration on company's letter head) or Certificate for authorized dealer / representative of local / international manufactures (On the manufacturer's letter head).
4. GST certificate / number
5. Last three years (2021-22, 2020-21&2019-20) income tax return certificates for old firm / company. In case of new firm, last one year (2021-22) income tax return certificate is **must**.
6. PAN card of the company / firm.
7. Certificate of previous work / client's list on a company's letter head (The dealers / representative of local / international manufacturers **must** submit certificate for previous work / client list issued by their manufacturer on the company's letter head).
8. Appendix - II. (**In envelope C1 only**).

Signature of constituted Attorney / authorized representative

Signature _____

Name and Address_____

COLLEGE OF AGRICULTURE,

DR. BALASAHEB SAWANT KONKAN KRISHI VIDYAPEETH
Dapoli 415712, Dist. Ratnagiri (MAHARASHTRA)
Email: assodeanfor@rediffmail.com
hod.plpath@gmail.com

Tender for supply of Different equipments, setting of equipments in the prescribed format, commissioning the project on Bio-formulation and training for establishment of bio formulation unit using advanced techniques.

APPENDIX – I (PART I)

Terms and conditions of tender for supply of: Different equipments for establishment of bio formulation unit using advanced techniques.

1. Sealed Tenders are invited from registered manufacturers or authorized dealer of manufacturers or representatives of local/international manufacturers to supply **Different equipments for establishment of bio formulation unit using advanced techniques.** as per the specifications mentioned in **Appendix-II and Appendix-III on or before the last date of 16.09.2022(up to 5.30 PM).** Tender received late will not be considered. The tenders are invited only by e-tendering system. The details are available at **maharashtraetenders.in** OR at **adf.maharashtra.etenders.in/common/home.asp**

2. The rates both in words and figures without any corrections or over writing should be quoted in Appendix – II for each individual item separately. Any overwriting or rewriting should be duly countersigned. In case of any ambiguity (i.e. if the rates in words and figures do not match / only rate either in words or figures are written / rates not written) the tender will not be considered and will be rejected.

3. The intending supplier shall also have to mention the main component details (Name of manufacturer / make / capacity) of the items offered for which the rates are quoted. In the absence of the above details, items offered may not be considered. The preference will be given to (a)Registered manufacturer (b) Authorized dealer of manufacturer (d) Representatives of local/international manufacturers.

4. University will accept the tender for items/specifications mentioned in the prescribed format (Appendix – II) only from (a) Registered manufacturer (b) Authorized dealer of manufacturer and (c) Representative of local/international manufacturers. The decision of the University regarding this will be final and shall be binding on the tenderer.

5. Tenderer will have to supply the material as mentioned in the specification and meet the quality standards and name of the manufacturer / company if mentioned in the specifications.

6. The University reserves the right to accept or reject the items of the make other than the above.

7. Tenderer may enclose published report of comparative study of his quoted items, which will give additional weightage to his quoted price.

8. **The tenderer should quote the rates only in Appendix II of the tender floated on website by this office and not on any other form.**

9. The tenderer should submit his offer in two separate envelopes.

10. The tenderer should provide the following documents in **envelope T1** with superscription i.e. "**Different equipments for establishment of bio formulation unit using advanced techniques.".**
    1. Part-II of Appendix - I
    2. Registration Certificate of a firm / company.
    3. Certificate of manufacturer (Self declaration on company's letter head) or Certificate for authorized dealer / representative of local / international manufactures (On the manufacturer's letter head).
    4. GST certificate / number
    5. Last three years (2021-22, 2020-21 and 2019-20) income tax return certificates for old firm / company are **must**. In case of new firm, last one year (2021-22) income tax return certificate is **must**.
    6. PAN card of the company / firm.
    7. Certificate of previous work / client's list on a company's letter head (The dealers / representative of local / international manufacturers **must** submit certificate for previous work / client list issued by their manufacturer on the company's letter head).

11. The tenderer should provide rates quoted only in standard format (i.e. Appendix II only) in **envelope C1** with superscription i.e. **" Supply of Different equipments for establishment of bio formulation unit using advanced techniques.".**This envelope should clearly state the serial number and name of the items from Appendix –II for which rates are quoted by the tenderer.

12. The intending supplier should quote the rates inclusive of all expenses, charges, taxes, duties, transportation, packing and forwarding, installation charges including accessories, training charges, insurance etc. i.e. All "Inclusive". **No any extra payment will be made besides quoted rates**. The equipment will have to be supplied as per the specification within **two months** or as per the last date mentioned in final supply order.

13. University will reserve full rights to open/consider the second envelop if and only if University is satisfied with the information contained in envelope T1. The decision of the University regarding this will be final and shall be binding on tenderer.

14. The supplier will have to supply in full and not in part of the articles as mentioned in Appendix - II to this University and any other Research Stations of University located anywhere in Konkan region till the date of Validity of rates.

15. If the ordered equipments are not provided within stipulated time limits, deduction @ 1% of the total cost order value per week for extra time taken will be charged from the bill. However, Associate Dean, College of Agricultural, Dr. B. S. Konkan Krishi Vidyapeeth, Dapoli may condone/relax the penalty and may grant extension up to the time limit as deem fit by him, provided the tenderer applies and satisfies about genuineness of the reasons for delay in supply of articles.

16. The tenderer shall have to deposit Earnest Money Deposit (E.M.D.) and tender cost online in the account of the university. **The tender without EMD and tender form cost will not be considered at all**. The amount of the EMD will be refunded online in case of unsuccessful tenderer. **In case of successful tenderer, it will deemed as partial payment towards 3 % of Security Deposit and adjusted accordingly.**

17. The Specimen of "Agreement / Warranty Bond" will be provided along with letter of acceptance to the tenderer whose rates are accepted by the University. The tenderer shall have to execute an agreement in the prescribed form on Stamp paper costing **Rs. 500/-** which should be submitted to this Office within specified time. The agreement received under seal and signature of the tenderer will become legal agreement between the tenderer and the undersigned, which will be binding on the tenderer.

18. If the successful tenderer fails to comply with the supply order within the specified period of two months (from the date of order) or only part supply is made, the Associate Dean, College of Agriculture, Dr. B. S. Konkan Krishi Vidyapeeth, Dapoli or respective authority or any officer authorized by him/them, will arrange for the alternative arrangement through any other supplier or agency at risk, cost and expenses of the said tenderer, who shall have to bear and pay all additional expenditure incurred by the University in that behalf.

19. Successful tenderer will have to furnish security deposit to the extent of 3 % of the rate quoted by the tenderer. This may be deducted from the bill payment or may be asked in the form of DD in the name of "Comptroller, DBSKKV Dapoli. EMD will be adjusted towards this 3 % security deposit. This amount will be held with the University for the warranty period (i.e. for 1 year) and refunded, in normal case, to the tenderer after the warranty period.

20. The amount of Security deposit without any interest there will be returned to the tenderer after 1year or the expiry of the warranty period whichever is later from the date of supply, subject to the surrender of money Receipt in original to this office.

21. On acceptance of the rates as per the approved tender and after completing necessary official formalities, the tenderer will be informed about the acceptance of the tender. The supply order will be placed by the Associate Dean, College of Agriculture, Dr. B.S.Konkan Krishi Vidyapeeth, Dapoli.

22. The tender submitted on or before the last date will be final and be binding on tenderer and the tenderer shall not be able to withdraw it after the final date.

23. The Associate Dean, College of Agriculture, Dr. B.S.Konkan Krishi Vidyapeeth, Dapoli also reserves the right to obtain the articles/instruments by negotiations with one or more tenderers, if in the case, the rates, quality, make, specification or other terms and conditions etc. of a tenderer are not found suitable, to this University.

24. The undersigned also reserves the right to accept or reject the supplies in full or in part which do not strictly stick up to the specifications or to accept the material/articles supplied with slight variations in specifications or with a condition that the rates accepted shall be reduced at such rates as the competent authority of the University may deem fit, looking to the variations and that such rates shall be binding on the tenderer.

25. University reserves the right to accept or reject - higher version of material etc. or any other items under the same terms and conditions and same price quoted by tenderer in Appendix - II.

26. In case of successful tenderer, the University for Fulfillment of terms and conditions of tender shall retain the amount of Security Deposit (S.D.) deposited by him. The University will not make any payment towards interest on such deposits.

27. The credit bill should be presented in triplicate in the name of respective authority as quoted in final supply order is made. For any delay in payment, interest or any other kind of compensation, the University will not make extra payment, etc. This contract will be governed as per terms and conditions mentioned above, Agreement made and the provisions contained in M.A.U. Accounts Code, 1991. Delay in supply within the prescribed time limit or the extended time limit, making of supplies not up to the standard specification, and performance or non-observance or non-acceptance of these terms and conditions by the tenderer, shall constitute breach of contract and the security deposit or any other deposit of the tenderer shall be forfeited by this office besides other actions of reduction in bills of supplies and/or other legal actions and finally the decision of the University shall be binding on the tenderer.

Sd/-
Associate Dean,
College of Agriculture,
Dr. B. S. Konkan Kishi vidyapeeth,
Tal: Dapoli, Dist: Ratnagiri. (M.S.)

Place: Dapoli
Date:

Enclosures: 1) Appendix – I (Part – II).
2) Appendix - II
3) Appendix - III

APPENDIX - I

Part – II

Undertaking

{to be given by the tenderer for supply of **Different equipments, setting of equipments in the prescribed format, commissioning the project on Bio-formulation and training for establishment of bio formulation unit using advanced techniques.**

Whereas, Associate Dean, College of Agriculture, Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli has called for tenders for supplies as per the enclosed Appendix - II.

I/We hereby offer our tender at the rates given in the enclosed Appendix-II, duly filled in and signed by me/us and hereby also affix my/our signature (s) below this tender voluntarily and full acceptance of all the terms and conditions of this tender, which shall be the agreement between the above tender calling authority and myself/we.

Encl.: Appendix – II

Signature of the Supplier: _____

Name of the Supplier: _____

Capacity in which signing: _____

Full address of the Supplier: _____

With seal/stamp: _____

Place:

Date:

COLLEGE OF AGRICULTURE,

DR. BALASAHEB SAWANT KONKAN KRISHI VIDYAPEETH

Dapoli 415712, Dist. Ratnagiri (MAHARASHTRA)

Email: assodeanfor@rediffmail.com

hod.plpath@gmail.com

APPENDIX-II

(Important Note: Rates should be quoted for DBSKKV Dapoli inclusive of all: Transportation, installation, commissioning, training, service in warranty period and taxes, etc**.**Also, the rates should be **exclusive** of work / material mentioned in "**Special Notes**" at the end of each equipment). The rates quoted for each equipment should be inclusive of setting and commissioning of the equipments on turn key basis. Separate amount should not be charged on installation and commissioning.

Items wherein two separate capacities are mentioned, separate rate should quoted for each capacity of equipment.

S. No	Equipment	capacity	Qty.	Rate per Unit (Rs.)In figures (and in words).
1.	Process Vessel (Fermenter)	500Lt	3	
2.	Seed Vessel (Fermenter)	100Lt	1	
3.	Air Compressor	107CFM	1	
4.	Chiller	5TR	1	
5.	Diesel fired boiler	200Kg/Hr	1	
6.	TFF (filtration for concentration)	0.2	1	
7.	Spray dryer	5Kg	1	
8.	Ribbon Blender	20Kg	1	
9.	Ribbon Blender	200Kg	1	
10.	Laminar flow	4x2x2	1	
11.	Microscope	stereoscopic	1	
12.	Filling station	500/1000Lt	1	
13.	Hand Capsule filling machine	500 capsules	1	
14.	Incubator	165 Lt	1	
15.	RO Plant	100/200Lt per hr	1	
16.	Room temperature control with Data logger	12x12 ft room	1	
17.	Utilities pipeline	Utility area to plant	1	
18.	UV SPECTROPHOTOMETER	Double Beam	1	

The more specification of above equipments are as follows.

Item 1 Process Vessel (fermenter)			
Geometric Volume	**500L**		
Working Volume	**325L**		
Working Volume	As per standards		
Jacket/Limpet	Jacket		
Polishing Internal	240 grits (0.4)		
MOC(Contact)	SS316L		
MOC(Non-Contact)	SS304		
Design Pressure	Shell =-1 to 3 bar Jacket =4 Bar		
Design	As per ASME		
Height To Día Ratio	2.5:1		
Baffles	4 no's welded		
Sparger	Ring Sparger		
Inner Surface	180 grit Finished, Electro polished Ra < 0.5 micron		
Jacket Shell	180 grit Finished, Mat Polished Ra < 0.8 micron		
Ports	TOP Dish • Feeding 4 No's • Air exhaust • Pressure gauge • Spray ball • Light Glass	Side port • Sampling Port • Temperature • pH inGold type • DO inGold type	Bottom Dish • Flush bottom valve Aseptic
Shaft MOC	SS 316		
Shaft Design	Single		
Motor	50-300 RPM		
Mechanical Seal	Single		
Impeller	Rushton X 3nos		
No of Impeller	3 No's Adjustable		
No of Blades	6 No's		
No of Baffles	4 No'		
Filters	Inlet Exhaust 0.22 micron		
Air	1 VVM		
CIP	Yes		
Pipeline	Sanitary construction Deal legs asper ASME BPE Sanitary Diaphragm valve wherever used with EPDM		
Measurement Parameters	• Temperature • RPM • pH		
Control Parameters	• Temperature • Agitation Control using VFD • pH using peristaltic pumps (Acid and Base) • Feed control		
Interlocked	Alarms to be provided for all High/Low of all measured parameters		
Control System	PLC with SCADA + HMI 10"		
Recipes	• Vessel Sterilization • Empty Vessel Sterilization • Fermentation Control (Temperature Control, Agitation Control, pH Control).		
Documents	• GA Layout • PNID • Electrical SLD • FAT and SAT protocol • Hardcopy of Manuals, Operating and Maintenance Manuals		

Item 2 Seed Vessel (fermenter)			
Geometric Volume	**100L**		
Working Volume	**75L**		
Working Volume	As per standards		
Jacket/Limpet	Jacket		
Polishing Internal	240 grits (0.4)		
MOC(Contact)	SS316L		
MOC(Non-Contact)	SS304		
Design Pressure	Shell =-1 to 3 bar Jacket =4 Bar		
Design	As per ASME		
Height To Día Ratio	2.5:1		
Baffles	4 no's welded		
Sparger	Ring Sparger		
Inner Surface	180 grit Finished, Electro polished Ra < 0.5 micron		
Jacket Shell	180 grit Finished, Mat Polished Ra < 0.8 micron		
Ports	TOP Dish • Feeding 4 No's • Air exhaust • Pressure gauge • Spray ball • Light Glass	Side port • Sampling Port • Temperature • pH inGold type • DO inGold type	Bottom Dish • Flush bottom valve Aseptic
Shaft MOC	SS 316		
Shaft Design	Single		
Motor	50-300 RPM		
Mechanical Seal	Single		
Impeller	Rushton X 3nos		
No of Impeller	3 No's Adjustable		
No of Blades	6 No's		
No of Baffles	4 No'		
Filters	Inlet Exhaust 0.22 micron		
Air	1 VVM		
CIP	Yes		
Pipeline	Sanitary construction Deal legs as per ASME BPE Sanitary Diaphragm valve wherever used with EPDM		
Measurement Parameters	• Temperature • RPM • pH		
Control Parameters	• Temperature • Agitation Control using VFD • pH using peristaltic pumps (Acid and Base) • Feed control		
Interlocked	Alarms to be provided for all High/Low of all measured parameters		
Control System	PLC with SCADA + HMI 10"		
Recipes	• Vessel Sterilization • Empty Vessel Sterilization • Fermentation Control (Temperature Control, Agitation Control, pH Control).		
Documents	• GA Layout • PNID • Electrical SLD • FAT and SAT protocol • Hardcopy of Manuals, Operating and Maintenance Manuals		

Item 3: Air Compressor

AIR COMPRESSOR:

Type Oil injected Rotary Screw

Free Air Delivery @ 8 Bar 60 CFM or better

Motor: 440V / 3 Ph / 50 Hz

Noise level 75 +/- 3 dB (A)

200 Liters stand-alone vertical air receiver with standard accessories + refrigerated dyer with set of filters for removal of final oil residue and impurities.

Item 4: Chiller

Chiller is ideal for chilling and condensing application in external system such as fermenters, Rotary Vacuum Evaporators, Electrophoresis Systems, and Chilling of heated water baths and general lab applications of chilling in closed loop systems.

Technical Features

- Microprocessor based PID digital temperature indicator cum controller.
- 10 to 25 Degree °C.
- Powerful circulation pump.
- Tank volume 300L.
- Capacity 5TR.
- To work on 220/230 volts, 50 Hz AC Supply.

Construction Features

- Inner bath chamber & lid made of stainless steel (SS-304 grade).
- Space between inner and outer chamber filled with high grade PUF insulation.
- Mounted on castors for easy portability.

Advantages

- Compact circulator chiller can be placed under the workbench.
- Hermetically sealed compressor with environment friendly CFC free refrigerants.
- Built-in circulator pumps for efficient circulating processes.
- Offers highest level of performance, flexibility and control for most demanding applications.
- Low noise level.

Item 5: Diesel fired Boiler		
Design		Coil type, Forced Circulation type
Type		Non-IBR
STEAM OUTPUT (F & A 100 Deg.C)	Kg/hr	200
Maximum Working Pressure	Kg/cm2	10.54 Kg/cm2
Fuel		Diesel
Fuel Ncv	Kcal/Kg	10000
Fuel Firing		Fully automatic
Thermal Efficiency	%	88% ± 2%
Fuel Consumption	Kg/hr	12
Electricity Supply		AC, 3 Ph, 415V, 50 Hz, 4-Wire System
Boiler Included following items		
Boiler		• Pressure part assembly consisting of closely wound helical verticalcoil MS heavy class pipe • Down firing burner assembly. • Jacketed design to enclose the pressure part. • Boiler feed pump with relief valve mounted on boiler base frame. • Efficiency Module comprising of atmospheric economizer and heat optimizer to preheat the water. • Dust proof, pre-wired control panel housing necessary starters, fuses, contactors, relays, etc.

Item 6: TFF (Tangent flow filtration)

Pilot Scale filtration system the system includes the following:

- System included filtration membranes, housings, PLC, pressure sensors and pumps.
- The filtration should be 0.24m^2or better.
- System should be skid mounted.
- There should be Alarm for filter chock, high pressure or low pressure.

Item 7: Spray dryer 5Kg

Feed Rate	5.6Kg/hr
Water Evaporation rate	5Kg/Hr
Powder rate	0.6Kg/Hr
Power consumption	10Kwh
Space requirement (mtr)	3x3x3.5(h)
Feed Concentration	10%
Powder moisture	3%
Feed temperature	30°C
Ambient temperature	30°C
Performance	±5%
Utilities	± 10%
Supply Air Filter	For cleaning the drying air. Filters consist of a pre-filter of 10 microns, a fine filter of 3 microns and a HEPA filter. Thefilters will be mounted on a SS 304 frame.
Supply Air Blower	Blower will be a direct drive. Blower casing and impeller willbe made of SS 304.
Electrical Air Heater	An electrical heater will be provided for raising the temperature. The heating elements will be ofnichrome in anincolloy tube with fins of SS 304. A three phase SSR will beprovided for controlling the power to the heating elements.

Air Disperser	Made of SS 304. Disperser will be built above the dryingchamber ceiling and will be fitted with arrangement foruniform distribution of air inside the drying chamber.
Air Ducting	Interconnecting supply air filter, heater and disperser. Theducting will be made of SS 304. Supply will include insulation/ cladding of SS 304, for the duct between heater anddisperser.
Feed Pump	Peristaltic pump with silicone rubber tubing, for transferringfeed to the rotary atomizer. Pump will be provided withvariable frequency drive.
Two fluid atomizers	Two fluid nozzles for atomization of the feed using compressed air.
Feed / Water Tank	Capacity 50 lt. For storage of feed. Will be made of SS 316.A funnel of SS 304 for water, will be supplied for startup andshut down.
Feed pipe and fittings	Made of SS 316 pipes and fittings for interconnecting thefeed tank to pump to atomizer.
Drying Chamber	The chamber will be made of SS 316. The chamber will bepolished internally to dull finish. The chamber will beprovided with sight and light glasses. A door will be providedfor cleaning. The chamber will be insulated and clad withSS 304 cladding.
Cyclone	Twin high efficiency cyclones will be made of SS 316. The cyclones will remove powder from the exhaust air leaving the drying chamber. A flap valve with a powder container will be provided below each cyclone.
Ducting	Interconnecting the drying chamber and the cyclones. Theduct will be made of SS 316.
Instruments and Motor Control Panel	Made of powder coated mild steel and complete with the following instruments: • 1 No. PID temperature controller for controlling the powersupply to the electrical heater. • 1 No. PID temperature controller for controlling the outletair temperature. • 1 Set Red and Green lamps for indications the start / stopof the motors in the plant. The panel should be provided with a mimic diagram

Item 8: Ribbon Blender 20Kg

Total Volume	20Kg
Working volume	85% of gross volume
MOC	SS304
Loading of Material	Top
Mixing	Blades with shift
Gear Motor	Fixed speed 50 RPM

Item 9: Ribbon Blender 200Kg

Total Volume	200Kg
Working volume	85% of gross volume
MOC	SS304
Loading of Material	From Top Lid with Rectangular opening lid with silicon gasket
Mixing	Ribbon Blender with shift
Gear Motor	Fixed speed 50 RPM

Item10: Laminar Flow 4x2x2

MOC	INNER MADE OF SS 304 AND OUTER MADE OF GIPC
INSTALLED	SOFT TOUCH CONTROLLER UV LIGHT FLORESCENT LIGHT
SUPPLY FILTER	HEPA AIR FILTER WITH TESTING CERTIFICATE EFFICIENCY: 99.97% DOWN TO 0.3 MICRON
PRE FILTER	PRE FILTER FOR PRIMARY SUCTION SEPERATOR: ALUMINIUM
BLOWER MOTOR ASSEMBLY	IMPORTED ELECTRIC MOTOR – 0.50 HP, 1 PHASE, 1400 RPM230 V, 50 HZ – 02 NO. BLOWER CASING – FRP BLOWER CASING
PRESSURE GAUGE	MAGNEHELIC GAUGE RANGE: 0 – 50 MM OF W.G. SUITABLE TO CHECK THE PRESSURE DROP ACROSS THE HEPA FILTER - 01 NO.

Item11: Stereo microscope

Light Source	Halogen/LED
Power	220 v (50 Hz)
Illumination	6 V, 20 W or better
Nose Piece	Reverse Type Ultra Quadruple Ball Bearing Nose Piece
Automation Grade	Automatic
Magnification	10x, 20x ,40x or better
Power Supply	220 v (50 Hz)
Display	Display or PC connection for Image processing

Item12: liquid filling machine

Filling machine and Manual Sealing machine(Range: 1000ml):

Manual bottle Filling Machine, fitted with 500-1000ml SS Filling pump assemblies, suitable to fill 100-1000ml with a filling accuracy of ± 0.5%, in HDPE / TIN / Aluminium / PET containers, driven by suitably sized Peristaltic.

Item13: Hand Capsule filling machine
500 Capsule

Item14: BOD Incubator

Capacity	165Lts
Construction Material	Inner made of SS 304 and outer made of MS powder coated
Temperature Range	10 to 60 °C
Temperature Accuracy	- +/- 1 °C
Temperature Resolution	- 0.1 °C
Illumination	Door illumination
Viewing	Full View acrylic glass door for viewing samples
No. of Shelves	3 racks made of SS 304
Controller	Digital LCD display with Microprocessor controller for Temperature and soft touch buttons for controls.
Compressor	Hermetically sealed Single compressor with CFC free refrigerant
Insulation	PUF
Door Lock	Yes
Alarm	Power failure and door open

Item 15: Water treatment plant (RO) Capacity 100/200Lt per hr

QUALITY OF TREATED WATER

As per your requirement, we have designed the plant to provide water, which is having the following characteristics:

SR.No	Parameter	after De-mineralization Process
1	PH	5.5-7.3
2	Conductivity	<1
3	Residual Dissolved solids	<1 ppm

The basic scheme of RO plant is as follows:

- Raw water pump
- Softener.
- Multigrid sand filtration unit.
- Activated carbon filtration unit.
- Micron filtration system
- Antiscalant dosing system
- Reverse osmosis system stage
- R.O. cleaning/flushing provision.
- Automation in case of storing Permeate.
- Electric control panel with conductivity meter.
- RO water storage tank HDPE.
- SS Pump for mix Bed
- Mix Bed Unit.
- Online Conductivity meter.

ELECTRONIC CONTROL PANEL

All controls in the panel are of standard make to ensure synchronized operation of electrical motors for feed pump, high pressure pump, and control instruments. System has auto/manual mode facility for above operation.

Item16: Room temperature control for solid state fermentation

Room Size (sq/feet)	100-120
Temperature Range	37°C
Control Type	Air Blower
Display	Inside and outside room
Protection	Over heating

Item17: Utilities pipeline

All the utilities line should route from the utility area to the equipment area. The pipes should be SS and installed with filters and moisture and oil trapper wherever required.

Item18:. UV Double Beam SPECTROPHOTOMETER

Optical System	Split beam with 1200 lines/mm
Display	Graphic LCD
Scan Speed	Selectable
Wavelength range	190-1100nm
Wavelength accuracy	$\pm$ 0.5nm
Wavelength reproducibility	$\leq$ 0.3nm
Spectral bandwidth	2nm
Photometric mode	Transmittance, Absorbance, Concentration
Stray Light	$\leq$ 0.05%T (340nm NaNo2)
Photometric Range	- 0.3 – 3.0 Abs
Photometric Accuracy	0.002A (0-0.1A), 0.004A (0.5 – 1A) 0.3% T (0-100%T)
Photometric reproducibility	0.001A (0-0.5A), 0.002A (0.5 – 1A) 0.15% T (0-100%T)
Photometric noise	0.001A (500nm) 30 min warm up
Baseline flatness	0.002A/H (190 -1100nm)

Instructions / Notes applicable for all equipments: The intending supplier should quote the rates inclusive of all taxes, duties, transportation, packing and forwarding, installation charges including required accessories for installation, etc. i.e. All "Inclusive" for Dapoli location. No any extra payment will be made besides quoted rates. **For each equipment, the facilities mentioned in special note will be provided by the buyer.** The equipment will have to be supplied as per the specifications for the **01 to 18 as mentioned above.**

(Seal & Signature of Supplier)

COLLEGE OF AGRICULTURE,

DR. BALASAHEB SAWANT KONKAN KRISHI VIDYAPEETH
Dapoli 415712, Dist. Ratnagiri (MAHARASHTRA)
Email: assodeanfor@rediffmail.com
hod.plpath@gmail.com

APPENDIX-III

University intends to established the Bio-formulation unit in three different sections. The section 1comprised the fermenter based liquid and dried formulations of *Pseudomonos, Bcillus, Azotobacter* etc. All the equipments (except item no. 3, 4,5,16 and 18)are to be established in the room having dimensions of 13.00 X 9.08 X 4 M^3. Item no. 3, 4 and 5 are to be established outside the unit at suitable location. Section 2 comprise the *Trichoderma* unit having dimensions of 5 X 5 X 4 M^3.Where in item no.16 is to be established. Section 3 comprises the quality control laboratory where item no. 11 is to be established. The tenderer may visit the site to get more idea about the setup of equipments.

The tentative excepted scheme of block diagram is attached below. Necessary of setting and establishment of equipments as per the block diagram along with commissioning and production as well as necessary training to the working staff is to be provided by the tenderer. No separate charges will be given for that.

Sd/-
Associate Dean,
College of Agriculture,
Dr. B. S. Konkan Kishi vidyapeeth,
Tal: Dapoli, Dist: Ratnagiri. (M.S.)

Place: Dapoli
Date:

THE TENTATIVE EXCEPTED SCHEME OF BLOCK DIAGRAM