Government of Maharashtra
Commissionerate of Agriculture, Maharashtra State, Pune-411 001

(2017-2018)

TENDER OF EQUIPMENT

REQUIRED FOR

QUALITY CONTROL, PESTICIDE RESIDUE TESTING & BIO LABORATORIES

IN MAHARASHTRA STATE
## INDEX

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<td>34</td>
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To,
M/s. ______________________
________________________
________________________
Subject: - On line tender for purchase of Laboratory Equipment & Materials for Seed, Fertilizer, Insecticide, Pesticide Residue Testing and Bio control Laboratories in the State

Sir,

The terms and conditions and the tender form for purchase of equipment and materials for Seed Testing Laboratories Pune, Parbhani and Nagpur, Fertilizer Testing Laboratories Pune, Nashik, Aurangabad, Amravati & Kolhapur, Insecticide Testing Laboratories Pune, Thane, Aurangabad & Amravati and Pesticide Residue Testing Laboratories Pune, Nagpur and Bio-Control Laboratories Ahmednagar, Aurangabad, Parbhani, Nanded, Jalgoan, Dhule, Amravati, Buldhana, Yavatmal, and Wardha (Selu) in the State is available on website- http://www.mahatenders.gov.in. and http://www.krishi.maharashtra.gov.in

The forms should be carefully read and tender should be filled in as per instructions given in the tender form on the website and one copy of the documents described in Technical Envelope should be send in the name of “Purchase Officer and Dy. Director of Agriculture (Laboratories), Q.C.-6, Commissionerate of Agriculture, Central Building, 2nd floor, Maharashtra State, Pune 411 001”.

The last date of receipt of the documents described in by the purchase officer on above address is 4th December, 2017 up to 5.00 p.m.

Yours faithfully,

Purchase officer &
Dy. Director (Lab)
Commissionerate of Agriculture,
Maharashtra State.Pune-411005
**Department of Agriculture,**  
**Maharashtra State, Central Building, Pune-411 001**

**e- Tender Schedule**

Tender document for supply of equipments to  

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Online Publishing Date</td>
<td>21\textsuperscript{st} Nov, 2017</td>
</tr>
<tr>
<td>2</td>
<td>Document Download Start Date</td>
<td>21\textsuperscript{st} Nov, 2017</td>
</tr>
<tr>
<td>3</td>
<td>Online Bid Submission Start Date</td>
<td>21\textsuperscript{st} Nov, 2017</td>
</tr>
</tbody>
</table>
| 4 | Online Bid Submission End Date | 4\textsuperscript{th} Dec, 2017  
AT 17.00 HRS |
| 5 | Time & date of opening of Tender. | 6\textsuperscript{th} Dec, 2017  
AT 11.00 HRS. |
| 6 | Place of Tender opening | In the Office of Director of Agriculture (I&QC), Commissionerate of Agriculture,  
Maharashtra State, Central Building,  
Pune-411001. |
Tender Notice NO. DDL/ Eq.pur.-2017/ F.no.34/QC-6/504/2017,
Dated – 20.11.2017

TENDER FORM
Duly signed tender form to be returned in the Technical Envelope to Purchase Officer & Dy. Director of Agriculture, (Laboratory), at Commissionerate of Agriculture, Maharashtra State, Central building, Pune-1).

<table>
<thead>
<tr>
<th>Schedule to Tender No.</th>
<th>DDL/ Eq.pur.-2017/ F.no.34/QC-6/504/2017, Dated- 20.11.2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Last date of online submission of Tender</td>
<td>4&lt;sup&gt;th&lt;/sup&gt; Dec, 2017 AT 17.00 HRS.</td>
</tr>
<tr>
<td>Date of Opening of Tender</td>
<td>6&lt;sup&gt;th&lt;/sup&gt; Dec, 2017 AT 11.00 HRS.</td>
</tr>
<tr>
<td>Tender rates shall remain valid till</td>
<td>120 days from date of Rate approval.</td>
</tr>
</tbody>
</table>

To,

The Purchase Officer & Dy. Director of Agriculture (Laboratory), Commissionerate of Agriculture, Maharashtra State, Central Building, 2nd floor, Pune-411 001.


Dear Sir,

1. I / we hereby offer to supply the equipment as per list attached.
2. I / we have capacity for supply of equipment within the stipulated period.
3. My / our dates of supply of equipment as specified in Schedule of terms and conditions of this tender will be inclusive of all taxes and as per the statement enclosed of each item.
4. I / we have studied and understood the terms and conditions of the contract to supply the equipment. I / we agree to supply with provision contained there in the execution of the contract.
5. I /we have paid prescribed TENDER FEE.
6. I / we have also paid Earnest money deposit of this tender( if required)
7. I / we also agree to give Security deposit 3% of the order value prior to getting the acceptance of my/our tender and Performance Bank Guarantee for the equipments whose order value is more than Rs.1,00,00,00 as applicable at the time of release of 10% payment.
8. I / we give the guarantee of supplied Equipment/s by me/us for the period of One year from date of actual inspection, installation and demonstration and also agreed to increase the above guarantee period by another one year if equipment failed to work or any problem in guarantee period.

Signature & Address of the

Witnesses: -
1) 
2) Yours faithfully,

(Seal & Signature, Address & Telephone No.)
### General Terms and Conditions applicable to
Tender for Supply of Laboratory Equipment & Materials for Seed Testing Laboratories Pune, Parbhani and Nagpur, Fertilizer Testing Laboratories Pune, Nasik, Aurangabad, Amravati and Kolhapur, Insecticide Testing Laboratories Pune, Thane, Aurangabad & Amravati and Pesticide Residue Testing Laboratories Pune, Nagpur and Bio-Control Laboratories Ahmednagar, Aurangabad, Parbhani, Nanded, Jalgoan, Dhule, Amravati, Buldhana, Yavatmal, and Wardha (Selu) in the State

#### Tender fee and EMD is as mentioned below

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Name of Equipment</th>
<th>Tender Fee</th>
<th>EMD (if any)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Analytical Balance</td>
<td>2,200/-</td>
<td>11,000/-</td>
</tr>
<tr>
<td>2</td>
<td>Auto Pipette Controller</td>
<td>1,100/-</td>
<td>5,500/-</td>
</tr>
<tr>
<td>3</td>
<td>Acid Dispenser</td>
<td>1,100/-</td>
<td>5,500/-</td>
</tr>
<tr>
<td>4</td>
<td>Auto Titrator</td>
<td>3,300/-</td>
<td>55,000/-</td>
</tr>
<tr>
<td>5</td>
<td>Refrigerated Centrifuge</td>
<td>3,300/-</td>
<td>55,000/-</td>
</tr>
<tr>
<td>6</td>
<td>Deep Freezer</td>
<td>2,200/-</td>
<td>11,000/-</td>
</tr>
<tr>
<td>7</td>
<td>Digital Burette</td>
<td>1,100/-</td>
<td>5,500/-</td>
</tr>
<tr>
<td>8</td>
<td>Elisa Plate Reader</td>
<td>1,100/-</td>
<td>5,500/-</td>
</tr>
<tr>
<td>9</td>
<td>Hot Air Oven</td>
<td>1,100/-</td>
<td>5,500/-</td>
</tr>
<tr>
<td>10</td>
<td>Hot Plate cum Magnetic Stirrer</td>
<td>11,00/-</td>
<td>5,500/-</td>
</tr>
<tr>
<td>11</td>
<td>ICP</td>
<td>11,000/-</td>
<td>11,00,000/-</td>
</tr>
<tr>
<td>12</td>
<td>H.P.L.C</td>
<td>3,300/-</td>
<td>55,000/-</td>
</tr>
<tr>
<td>13</td>
<td>Hot water bath cum shaker</td>
<td>1,100/-</td>
<td>5,500/-</td>
</tr>
<tr>
<td>14</td>
<td>Water Purification System</td>
<td>2,200/-</td>
<td>11,000/-</td>
</tr>
<tr>
<td>15</td>
<td>Rotary Shaker</td>
<td>1,100/-</td>
<td>5,500/-</td>
</tr>
<tr>
<td>16</td>
<td>Bottle Filling Machine</td>
<td>2,200/-</td>
<td>11,000/-</td>
</tr>
<tr>
<td>17</td>
<td>HDPE Bottle</td>
<td>3,300/-</td>
<td>55,000/-</td>
</tr>
<tr>
<td>18</td>
<td>Germination Paper</td>
<td>3,300/-</td>
<td>55,000/-</td>
</tr>
<tr>
<td>19</td>
<td>Batteries (100 A.H./70 A.H.)</td>
<td>3,300/-</td>
<td>55,000/-</td>
</tr>
<tr>
<td>20</td>
<td>UPS (10KVA)</td>
<td>2,200/-</td>
<td>1,100/-</td>
</tr>
<tr>
<td>21</td>
<td>Sieve Set</td>
<td>1,100/-</td>
<td>5,500/-</td>
</tr>
<tr>
<td>22</td>
<td>Multichannel Pipette</td>
<td>2,200/-</td>
<td>11,000/-</td>
</tr>
</tbody>
</table>

1. The Tender should be submitted in the Technical envelope, in the following manner:

   a. **If EMD is exempted then, Certificate of exemption** of Earnest Money Deposit from the C.S.P.O./ S.S.I. / D.G.S.& D.
   b. Tender form duly filled and signed.
   c. The tenderer should give the self attested copy of registration made with C. S.P.O./ S.S.I./ D G S & D.
   d. The tenderer should supply all the information about the availability the machinery to supply the required materials in the tender.
   e. **GSTN Registration number copy. Certified copy of sales tax paid clearance certificate up to 31 December 2016.**
   f. **attested Copy of returns file statement up to 31 March 2017.**
   g. **attested Copy of sales tax paid Challan from April -2016 to March - 2017.**
   h. Self Attested Xerox copy of PAN in the name of Firm or if PAN CARD is in the name of proprietor in that case attested copy certificate of firm registration is mandatory
   i. The tendered should state whether he has previously supplied the stores offered to any consignee under the Govt. of Maharashtra giving reference No., date & Prices.
   j. Technical specifications of every items / equipment quoted should be typed & signed on separate sheet and it must be match with the original technical leaflets and pamphlets / brochure
   k. Terms and conditions if any.
   l. Tenderer should submit the certificate of authorization from concerned manufacture in prescribed format only
   m. Tenderer should submit the original technical leaflets and pamphlets / brochure of quoted items with make & model.
   n. Tenderer should submit the receipt of online payment of tender fee and EMD (if any).
   o. Notarized affidavit on Rs.100 stamp paper for not being black listed by any Govt. Organization for supply of goods to govt. offices.
   p. If the documents are Self attested, certificate of its genuineness should be enclosed stating that if found false then punishable under IPC.
   q. Tenderer should submit the prescribed questionnaire enclosed along with Tender Form.
   r. Specific user list of quoted model.
   s. Separate envelope should be submitted for every item. However, If tenderer is bidding for more than one item then common documents may be submitted in any one envelope and mentioning it in other envelope.
   t. All the documents mentioned here should be uploaded on site.
   u. If required documents are not uploaded and not included in technical envelope, the tender will liable for rejection
   v. This envelope should be super scribed with the
TECHNICAL ENVELOPE

“TECHNICAL INFORMATION TENDER FOR SUPPLY OF LABORATORY EQUIPMENT & MATERIALS FOR QUALITY CONTROL AND OTHER LABORATORIES IN MAHARASHTRA STATE FOR---------EQUIPMENT.

IN THE STATE DUE ON: “6TH Dec, 2017”

Along with the tender’s name and address. This Technical Envelope should be sent to and in the name of

Purchase Officer and Dy.Director of Agriculture (Lab), Commissionerate of Agriculture, Maharashtra State, Central Building, Pune-411001

2. a) The tenderer should quote the prices in INR in online in prescribed BOO for per unit only.
b) Tenderer should quote the rates in INR only for the material, including all applicable taxes for each item and delivery at the Seed Testing Laboratories Pune, Parbhani and Nagpur, Fertilizer Testing Laboratories Pune, Nasik, Aurangabad, Amravati and Kolhapur, Insecticide Testing Laboratories Pune, Thane, Aurangabad & Amravati , Pesticide Residue Testing Laboratories Pune, Nagpur and Bio-Control Laboratories Ahmednagar, Aurangabad, Amravati, Buldhana, Yavatmal, Wardha (Selu), Parbhani, Nanded , Jalgoan and Dhule in the State should submit the original quotations in the tender form. The exchange rate on the date of financial opening will be applicable.

3 All outstation Documents / tenders should be sent personally or by Registered Post A. D. within stipulated Date & Time, Postal delay will not be considered.

4 Opening of tenders: Tenderer may remain present personally or may depute representative with letter of authorization at the time of opening of tenders. Place of tender opening: Office of the, Director of Agriculture (Inputs & Quality Control) Commissionerate of Agriculture, Maharashtra State, Central Building, 1nd floor, Pune 411 001

5 The rights to reject all or any one of tenders are reserved by the Purchase Officer without giving any reason. The Purchase Officer & Dy. Director of Agriculture (Laboratory), M.S. Pune-1 does not bind himself to accept the lowest tender and reserves the right to accept in whole or part of the tender or portion of the quantity offered.

6 In the event of the order being placed and if the tenderer fails to supply any stores according to the terms and conditions of the acceptance of the tender or fails to replace any stores rejected by the Purchase Officer and Dy. Director of Agriculture (Laboratory), M.S. Pune-1or by any person on his behalf within such time as may be stipulated, the Purchase Officer shall be entitled to purchase such stores from any source and at such price as he shall in his sole discretion, thinks fit.

If action stipulated above is taken the tender of the defaulting Supplier will not be considered and extra amount of purchase will be recovered from defaulting supplier & he will be permanently delisted from the approved contractors and registration, deposit of the contractor will be forfeited to the Government.

7 In case of non-delivery and/or delayed delivery against an order placed with the tenderer, the Purchasing Officer & Dy. Director of Agriculture (Laboratory), M.S. Pune-1/ Director of Agriculture (Inputs & Quality Control), Commissionerate of Agriculture, Maharashtra State, Central Building, Pune-01 reserves to himself the right to impose such penalty in his sole discretion as he thinks fit.

8. Tenderer not on the register of Central Stores Purchasing Officer and/or Directorate General of Supplies and Disposals, Government, of India or not registered as Small Scale Industrial Unit should deposit stipulated Earnest Money of Tender fee and EMD amount has to be paid by e- payment gateway. This Earnest Money and security deposit will be forfeited if the tenderer fails to complete the order according to the tender.

9. The Purchase Officer & Dy. Director of Agriculture (Laboratory), M.S. Pune-1may exempt firms of standing from payment of earnest money and security deposit in respect of tenders of contractors placed by his office, if the firms produce from the Director of Supplies and Disposals, New Delhi, a certificate to the effect that, they are exempted from payment of security deposit or earnest money in the case of contracts placed by Dy. Director of Agriculture, M.S., Pune-411001, or tenders invited by Director General of Supplies and Disposal, Govt. of India, The Purchase Officer and Dy. Director of Agriculture (Laboratory), M.S. Pune-1. However, reserves to him the right to ask for earnest money deposit or security deposit from them against any orders placed with them by this office, if and when found necessary by him and execute / bond / agreement for the performance of the order.

10 A. Unless exempted from payment of security deposit as above the successful tenderer will have to pay a security deposit @ 3 % total value of the stores to be supplied before affecting the supply order. Security deposit should be in the form of demand draft payable to Assistant Director, Commissionerate M.S. Pune-1 and whenever the supplier fails to supply the material within validity period of demand Draft of security deposit he should have to renew the Demand Draft of Security Deposit.

B. Tenderer will have to submit 5 % Performance Bank Guarantee (PBG) of any Nationalized Bank for equipments (whose order value is more than Rs.1,00,000.00) of ordered value of equipment as mentioned in tender in addition to the security deposit for the better performance of the equipment. If the performance of the equipment is found to be not satisfactory the PBG will be forfeited to the Government. The PBG should be valid for the period of guarantee.PBG will have to be paid by supplier before 10 % payment.

11. Tenderer should submit-
   a. Attested copy of GST registration
   b. Attested copy of sales tax paid clearance certificate in specified format up to 31 December 2016.
e. Attested copy of PAN in the name of Firm, if PAN CARD is in the proprietor name then attested copy certificate of firm registration should be enclosed with the tender. Please note that the tenders without the above certificates are liable to be rejected.

12. Tenderer convicted of an offense under Bombay Opium Act, 1936, will not be eligible for consideration.

13. Extension of time- Normally no extension of delivery period will be allowed. Without prejudice to the foregoing right, if such failure in delivery in proper time as aforesaid shall have arisen from any cause, which the Purchase Officer & Dy. Director of Agriculture (Laboratory), M.S. Pune-1, / Director of Agriculture (Inputs & Quality Control), Commissionerate of Agriculture, Central Building, Pune-411001 may admit as a reasonable ground for an extension of the time (and his decision shall be final). He may allow such additional time as considered to be justified by the circumstances of the case. With charging the delay supply charges or even without paying the delay charges i.e. (Exemption in paying demurrage charges)

14. Provided always that any failure or delay on the part of sub-contractors due to their employment problem shall not be admitted as a reasonable ground for any extension of time or for exemption from liability for any such loss or damage, as aforesaid and provided further that extension shall be allowed unless application for it shall, in the opinion of the Purchase Officer and Dy. Director of Agriculture (Laboratory), M.S. Pune-18 Director of Agriculture (Inputs & Quality Control), Commissionerate of Agriculture, Central Building, Pune-411001 Which shall be final and have been made in his opinion and justified.

15. Priced tender form should be returned duly filled and signed in; failing which quotation will not be considered.

16. Any statutory increase or decrease as an act of the State or the Central Government relating to GST, Sales and other taxes shall be to the account of the supplier.

17. It is a condition of this supply order that the period till the material ordered for its supplies along with the bills thereof, the price at which the tenderer will supply the material should not exceed the lowest price charged by him to any customer during this period and that in the event of the price going down below the accepted prices, he shall promptly furnish such information to the Purchase Officer and Dy. Director of Agriculture (Laboratory), M.S. Pune-1 to enable him amend the accepted rates.

18. It will be the responsibility of the tenderer to inform this office within the validity period of the quotation in the event of the stores offered ex-stocks being sold elsewhere. Failure to comply this instruction shall be construed to mean that the stores are available ex-stock during the validity period.

19. Tenderer should quote the rates for the equipment strictly having the technical specification mentioned in tender.

20. Ex-stock offer will be preferred.

21. All testing and inspection of equipment will be done in the Seed Testing Laboratories Pune, Parbhani and Nagpur, Fertilizer Testing Laboratories Pune, Nasik, Aurangabad, Amravati and Kolhapur, Insecticide Testing Laboratories Pune, Thane, Aurangabad & Amravati and Pesticide Residue Testing Laboratories Pune, Nagpur and Bio-Control Laboratories Ahmednagar, Aurangabad, Amravati, Buldhana, Yeotmal, Wardha (Selu), Parbhani, Nanded, Jalgaon and Dhule in the State as the case may be.

22. Special consideration would be given for equipment with ISI marking and ISO 9001 certified manufacturer.

23. The tenderer will supply the stores ordered for within the period stipulated in the tender and accepted by the Purchase officer.

24. The date of receipt of the material Seed Testing Laboratories Pune, Parbhani and Nagpur, Fertilizer Testing Laboratories Pune, Nasik, Aurangabad, Amravati and Kolhapur, Insecticide Testing Laboratories Pune, Thane, Aurangabad & Amravati and Pesticide Residue Testing Laboratories Pune, Nagpur and Bio-Control Laboratories Ahmednagar, Aurangabad, Amravati, Buldhana, Yeotmal, Wardha (Selu), Parbhani, Nanded, Jalgaon and Dhule in the State will be date of delivery, as the case may be.

25. The material will be inspected by the representative of the Purchase Officer & Dy. Director of Agriculture (Laboratory), M.S. Pune-1. The material will have to be offered for inspection by the supplier at his cost & in open and installed conditions.

26. Guarantee Clause

The supplier should declare that the equipment sold to the buyer under this offer shall be quality and shall be strictly in accordance with the specifications and particulars mentioned in the Schedule thereof and the supplier guarantees that the said equipment would continue to confirm to the description and quality aforesaid for a period of one year from the date of installation and demonstration of said equipment to the purchaser and that notwithstanding the fact that the purchaser may have inspected and approved the equipment, if during the aforesaid period of one year the said equipment be discovered not to conform to the description and quality aforesaid or have deteriorated, guarantee period will be increased by one year and the decision of the Purchaser in that behalf will be final and conclusive.

The purchaser will be entitled to reject the said equipment or such portion thereof, which may be discovered not to confirm to the said specification and quality. On such rejection the equipment will be at seller’s risk and all the provisions therein contained relating to rejection of equipment, etc., shall apply. The supplier shall, if called upon to replace the equipment etc. or such portion thereof as is rejected by the Purchaser such damages as may arise as reason of the breach of the conditions herein contained. Nothing herein contained shall prejudice other right of the Purchaser in that behalf under this Supply order of otherwise.

Delivery period – Material should be delivered within 56 days from the date of placing the order, failure of which penalty To recover from the contractor as agreed liquidated damages or by way of penalty a sum not exceeding half percent of the price of the stores which the contractor has failed to deliver as aforesaid for each week or part
a of a week during which the delivery of such stores may be in arrears, or the delivery of such stores to respective consignee may be delayed subject to maximum limit of 10% of the value order not exceeding Rs.2.00 lakh & 5% of the value of exceeding Rs.2.00 lakhs of the stipulated prices of the stores so undelivered. Such penalty will be deducted by the purchase from the bill due to supplier.

27. Payment:

Bills for the material supplied should be prepared in triplicate and sent to the Seed Testing Laboratories Pune, Parbhan and Nagpur, Fertilizer Testing Laboratories Pune, Nasik, Aurangabad, Amravati and Kolhapur, Insecticide Testing Laboratories Pune, Thane, Aurangabad & Amravati, Pesticide Residue Testing Laboratories Pune, Nagpur and Bio-Control Laboratories Ahmednagar, Aurangabad, Amravati, Buldhana, Yeotmal, Wardha (Selu), Parbhani, Nanded, Jalgoan and Dhule in the State concerned. 90% of Payment within 2 weeks from the date of receipt of stores with inspection/test report and balance 10% payment within 30 days from the date of receipt of all stores in satisfactory condition as ordered & submission of performance Bank Guarantee for the equipment whose order value is exceeding Rs. 1,00,000/- & one month of satisfactory performance of the equipment. The bills for the 90% and 10% should be submitted separately in triplicate with duty paid document. Government shall not incur any liability to pay interest on the bills for delay in payment. Payment will be made on submission of satisfactory documents and the concerned officer passes it. Payment will be made after fulfilling the following conditions:

i. Octroi duty, LBT and hamali charges will have to be borne by the supplier, where Octroi exemption certificate not accepted.

ii. The inspection report shows the material supplied is as per specifications contained in the purchase order.

iii. If shortage or breakage has been reported, the goods should be replaced at his own cost.

iv. If the material is found to be substandard, old or defective the material will not be accepted and supplier will have to replace the material at his own cost.

28. The supplier will have to supply operating manual/instructions for satisfactory running of the equipment along with the equipment. The supplier will have to impart training to the technical staff of the Seed Testing Laboratories Pune, Parbhan and Nagpur, Fertilizer Testing Laboratories Pune, Nasik, Aurangabad, Amravati and Kolhapur, Insecticide Testing Laboratories Pune, Thane, Aurangabad & Amravati, Pesticide Residue Testing Laboratories Pune & Nagpur and Bio-Control Laboratories Ahmednagar, Aurangabad, Amravati, Buldhana, Yeotmal, Wardha (Selu), Parbhani, Nanded, Jalgoan and Dhule in proper operation maintenance & upkeep of the equipment at the companies cost.

29. The decision of the purchase officer and Dy. Director of Agriculture (Laboratory), M.S. Pune-1 or Director of Agriculture (Inputs & Quality Control) or Commissionerate of Agriculture, Central Building, Pune-411001 shall be final as regards the acceptability of stores supplied by the supplier.

30. The purchase officer and Dy. Director of Agriculture, M.S. Pune-1 reserve all the right to increase or decrease or change the quantity of laboratory equipment while placing order. The supplier will have to supply the quantity to the consignee as per the order placed within 56 days from the date of placing order.

31. The right to accept or reject any one or all tenders is reserved by Purchase officer & Dy. Director of Agriculture (Laboratory), M.S. Pune-1 without any reason.

32. In case of any dispute the matter will be settled in the jurisdiction of Pune court only.

I hereby accept the above terms and conditions.

Place:

Date:

Seal & Signature of the Tenderer

(With Name and Address)
Government of Maharashtra
Commissionerate of Agriculture,
Maharashtra State Pune-411001

GENERAL TERMS & CONDITIONS:

Tenders for purchase of laboratory equipment & materials for Seed Testing Laboratories Pune, Parbhani and Nagpur, Fertilizer Testing Laboratories Pune, Nasik, Aurangabad, Amravati and Kolhapur, Insecticide Testing Laboratories Pune, Thane, Aurangabad & Amravati, Pesticide Residue Testing Laboratories Pune, Nagpur and Bio-Control Laboratories Ahmednagar, Aurangabad, Amravati, Buldhana, Yeotmal, Wardha (Selu), Parbhani, Nanded, Jalgoan and Dhule in the State (N. B. The dates are subject to change in case there is any holiday abruptly declared by the Government)

Note: If the item / items are covered under D.G.S. & D. Rates Contracts, the tenders should quote D.G.S. & D Rate Contract No. and rates etc. and furnish other relevant particulars along with the copy of the rate contract.

1. Rates should be quoted for including the delivery at the Seed Testing Laboratories Pune, Parbhani and Nagpur, Fertilizer Testing Laboratories Pune, Nasik, Aurangabad, Amravati and Kolhapur, Insecticide Testing Laboratories Pune, Thane, Aurangabad & Amravati, Pesticide Residue Testing Laboratories Pune, Nagpur and Bio-Control Laboratories Ahmednagar, Aurangabad, Amravati, Buldhana, Yeotmal, Wardha (Selu), Parbhani, Nanded, Jalgoan and Dhule in the State Transit Insurance to be done by the contractor with the Maharashtra Government Insurance Fund.

2. Rates quoted should include all duties and taxes as they are extra wherever applicable for each item.

3. Tenderer should quote their Sales Tax Registration Nos.

4. It must be noted by the tenderer that no alternative offers can be made to any item such tenders are likely to be rejected.

5. Delivery period quoted should be firm and material should be supplied within 56 days from the date of placing order.

6. The tenderer should state whether he has previously supplied the stores offered, to any consignee under the Government of Maharashtra and/or other organizations in Mumbai/ Pune, giving reference Nos. & date. Their addresses, prices and phone numbers should be supplied.

7. Dimensions and units of quantities in quotations should be stated in Metric Units.

8. In case of every offer, whether indigenous or foreign, the name of the manufacturers together with its `Brand' and place of manufacturer should be indicated in the quotation and the leaflet, catalogue and literature, if any should also be enclosed. Tenderer quoting the product of small-scale industries should in their quotations indicate the names and addresses of the Small Scale Units with the Directorate of Industries.

9. Tenderer should quote the number and date if they are registered with C.S.P.O. (i) as approved contractors of (ii) as a Small Scale Unit or (iii) with D.G.S.& D, New Delhi and forward an attested copy of the same.

10. Firms not registered with C.S.P.O. AND D.G.S. & D or S.S.I Unit with Directorate of Maharashtra, Maharashtra State or N.S.T.C. should pay earnest money deposit as prescribed in the tender towards earnest money deposit. Payment should be made by e-payment gateway.

11. If called for, the tenderer / contractor shall have to produce a test certificate for the item, he has quoted, from any of the following authorities:

(a) Inspectorate of General Stores, Ahmadabad House, Bellard Estate, Mumbai- 1
(b) Mumbai University, Department of Chemical Technology, Mumbai.
(c) Government Test House, Allipore, Calcutta.
(d) National Chemical Laboratory, Pune- 411 008
(e) Electronic Testing and Development Centre, MELTRON, Pune- 5
(f) National Physical Laboratory, New Delhi.
(g) Electronics Regional Test Laboratory, Plot NO.7, MIDC, Andheri (East) Mumbai 93
(h) Vishweshwaraya Regional College of Engineering, Nagpur- 440011.

In case such certificate is not furnished the Commissionerate of Agriculture will test the samples, M.S. Pune-411 001, at the contractor's cost in any of the Laboratories mentioned above.

12. When the material is to be supplied from outside of Maharashtra State the supplier should note that the stores would be inspected before dispatch and the cost of the inspection will be borne by the supplier as per D.G.S. & D Rules. Where material being supplied from Maharashtra State and if the tender stipulates' inspection will be done either by consignee at destinations or by the office at supplier's cost.

13. Supplier/ tenderer will undertake the responsibilities of clearing the consignment from customs from Mumbai. Transporting the same to Seed Testing Laboratories Pune, Parbhani and Nagpur, Fertilizer Testing Laboratories Pune, Thane, Aurangabad & Amravati, Pesticide Residue Testing Laboratories Pune, Nagpur and Bio-Control Laboratories Ahmednagar, Aurangabad, Amravati, Buldhana, Yeotmal, Wardha (Selu), Parbhani, Nanded, Jalgoan and Dhule in the State insurance, installation and successful commissioning of instrument.

These services are to be rendered by the supplier/ tenderer free of cost and the department will not pay anything for these services.

14. The demurrage charges if requires to be paid, it will have to be borne by supplier/ tenderer.

15. If department obtain custom & excise exemption certificate, that amount will be deducted from total cost quoted by tenderer

16. The tenderer should produce the item/ Equipment quoted for demonstration if required, before placing firm order for supply at suppliers cost.

17. Risk Purchase:

The contractor fails to deliver the stores of any installment thereof within the period fixed for such delivery or at any time repudiates the contract before the expiry of such period, the Government is entitled to cancel the contract and repurchase the stores not delivered at the risk and cost of the defaulting contractor. In the event of such a risk purchase, the defaulting contractor shall be liable for any loss which the Government may sustain on that account provided the purchase, or if there is an agreement to purchase, such agreement is made, in case of

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default to deliver the stores by the stipulated delivery period, within six months from the date of such default and in case of repudiation of the contract before the expiry of the aforesaid delivery, within six months from the date of cancellation of the contract.

2. Fall Clause:
It is a condition of the contract that all through the currency thereof, the price at which you will the supply stores should not exceed the lowest price charged by you to any customer during the currency of the rate contract and that in the event of the prices going down below the rate contract prices you shall promptly furnish such information to us to enable us to amend the contract rates for subsequent supplies.

3. Force Majeure Clause:
"If, at any time, during the continuance of this contract the performance in whole or in part by either party of any obligation under this contract shall be prevented or delayed by reason of any war, hostility, acts of the public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restriction, strikes, lock-outs or acts of God (hereinafter referred to as "events"), provided notice of happening of any such eventuality is given by either party to the other within 21 days from the date of occurrence thereof, neither party shall by reason of such event, be entitled to terminate this contract nor shall either party have any claim for damages against the other in respect of such non-performance or delay in performance; and deliveries under the contract shall be resumed as soon as practicable after such event has come to an end or ceased to exist, and the decision of the purchasing officer as to whether the deliveries have been so resumed or not, shall be final and conclusive, provided further that if the performance in whole or part of any obligation under this contract is prevented or delayed by reason of any such event for a period exceeding 60 days, either party may at its option terminate the contract PROVIDED ALSO that if it the contract is terminated under this clause, the purchaser shall be at liberty to take over from the contract at a price to be fixed by the purchasing Officer which shall be final all unused, undamaged and acceptable materials, bought out components and stores in course of manufacture in the possession of the contractor at the time of such termination or such portion there of as the purchaser may deem fit accepting such material, bought out components and stores as the contractor may with the concurrence of the purchasing officer elect to retain. Important factors relating to placement of contracts Force Majeure Clause-The force majeure clause in the following form only (which will not form part of the general conditions of contracts) should be included in such contracts where the suppliers specifically insists on the provision of a force majeure clause and there is no alternative but to accept the same. This clause should not be incorporated in the Invitation to Tender, but prior to acceptance of an offer in such a case the supplier should be asked to accept this clause as governing conditions of force majeure.

Place:

Date.

(Full signature of the Tenderer)

(With seal, name and full address).

To be returned with the Tender in duplicate.
<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Address of Consignee</th>
<th>Telephone No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>Seed Testing Officer</strong>, Seed Testing Laboratory, Krishi Bhavan, Shivaji Nagar, <strong>Pune 411 005</strong></td>
<td>020-25536449</td>
</tr>
<tr>
<td>2</td>
<td><strong>Seed Testing Officer</strong>, Seed Testing Laboratory, Laxminagar, Old Pedgaon Road, Near Jayakwadi canal, <strong>Parbhani-431401</strong></td>
<td>02452-242976</td>
</tr>
<tr>
<td>3</td>
<td><strong>Seed Testing Officer</strong>, Seed Testing Laboratory, Maharaja Bag, Agriculture College Compound, Dhantoli, <strong>Nagpur-440 001</strong></td>
<td>0712-2564213</td>
</tr>
<tr>
<td>4</td>
<td><strong>Analytical Chemist</strong>, Fertilizer Testing Laboratory, Krishi Bhavan, Shivaji Nagar, <strong>Pune 411 005</strong></td>
<td>020-25513651</td>
</tr>
<tr>
<td>5</td>
<td><strong>Analytical Chemist</strong>, Fertilizer Testing Laboratory, Unttawadi Road, Sambhaji Chawak, <strong>Nashik-405 002</strong></td>
<td>0253-2314032</td>
</tr>
<tr>
<td>6</td>
<td><strong>Analytical Chemist</strong>, Fertilizer Testing Laboratory, Aurangabad Agriculture Eng. Workshop, Shahanur Miya Darga Road, <strong>Aurangabad-431005</strong></td>
<td>0240-2332157</td>
</tr>
<tr>
<td>7</td>
<td><strong>Analytical Chemist</strong>, Fertilizer Testing Laboratory, Tapovan Road, Camp, <strong>Amaravati-444603</strong></td>
<td>0721-2662764</td>
</tr>
<tr>
<td>8</td>
<td><strong>Analytical Chemist</strong>, Fertilizer Testing Laboratory, Market yard, APMC, Kolhapur</td>
<td>0231-2666220</td>
</tr>
<tr>
<td>9</td>
<td><strong>Analytical Chemist</strong>, Insecticide Testing Laboratory, Krishi Bhavan, Shivaji Nagar, <strong>Pune 411 005</strong></td>
<td>020-25510300</td>
</tr>
<tr>
<td>10</td>
<td><strong>Analytical Chemist</strong>, Insecticide Testing Laboratory, Krishi Bhavan, Wagale Estate, Sector No.-16, <strong>Thane-32</strong></td>
<td>022-25821137</td>
</tr>
<tr>
<td>11</td>
<td><strong>Analytical Chemist</strong>, Insecticide Testing Laboratory, Shahanur Miya Darga Road, <strong>Aurangabad-431005</strong></td>
<td>0240-2334851</td>
</tr>
<tr>
<td>12</td>
<td><strong>Analytical Chemist</strong>, Insecticide Testing Laboratory, Tapovan Road, Camp, <strong>Amaravati-444603</strong></td>
<td>0721-2662102</td>
</tr>
<tr>
<td>13</td>
<td><strong>Analytical Chemist</strong>, Pesticide Residue Testing laboratory, Krishi Bhavan, Shivaji Nagar, <strong>Pune 411 005</strong></td>
<td>020-25510300</td>
</tr>
<tr>
<td>14</td>
<td><strong>Analytical Chemist</strong>, Pesticide Residue Testing laboratory, Maharaja Bag, Agriculture College Compound, Dhantoli, <strong>Nagpur-01</strong></td>
<td>0712-2559903</td>
</tr>
<tr>
<td></td>
<td>Technical Officer,</td>
<td>Branch Name</td>
</tr>
<tr>
<td>---</td>
<td>-----------------------------------------------------------------------------------</td>
<td>---------------------------------------------------------</td>
</tr>
<tr>
<td>15</td>
<td><strong>Bio Control Laboratory Parbhani</strong>,</td>
<td>Jilha Phalropwatika, Dist. Parbhani</td>
</tr>
<tr>
<td>16</td>
<td><strong>Bio Control Laboratory Nanded</strong>,</td>
<td>In front of waghale petrol pump, Dhanegaon, Near Latur Phata, Dist. Nanded</td>
</tr>
<tr>
<td>17</td>
<td><strong>Bio Control Laboratory Amrawati</strong></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td><strong>Bio Control Laboratory Buldhana</strong>,</td>
<td>Near Bus Stand, Dhad Road Buldhana.</td>
</tr>
<tr>
<td>19</td>
<td><strong>Bio Control Laboratory Wardha (Selu)</strong></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td><strong>Bio Control Laboratory Dhule</strong>,</td>
<td>Pimpri, wadjai, Dist.- Dhule</td>
</tr>
<tr>
<td>21</td>
<td><strong>Bio Control Laboratory Mumrabad</strong>,</td>
<td>Dist.-Jalgan</td>
</tr>
<tr>
<td>22</td>
<td><strong>Bio Control Laboratory Aurangabad</strong>,</td>
<td>Shahanurmiya Darga Road, Jyotinagar, Aurangabad (Krushi Parisar)</td>
</tr>
<tr>
<td>23</td>
<td><strong>Bio Control Laboratory Yeotmal</strong>,</td>
<td>Gardan Road Dist.- Yeotmal</td>
</tr>
<tr>
<td>24</td>
<td><strong>Bio Control Laboratory Ahmednagar</strong>,</td>
<td>Tal. Seed farm, Sawedi, Dist.-Ahmednagar</td>
</tr>
</tbody>
</table>
Name of Equipment quoted____________________________________________

(With model name)

**QUESTIONNAIRE TO BE FILLED AND ENCLOSED ALONGWITH TENDER FORM**

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Particulars</th>
<th>Attached (Yes/No)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Name of Tenderer with detail Address &amp; Telephone No.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Duly Signed tender form</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Receipt of online paid tender fee and EMD (if any)</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Whether reg. with (if so details thereof.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>i) CSPO</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ii) D.G.S.&amp; D.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>iii) SSI</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td><strong>EMD details</strong> Amount (Rs.)</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Assessment year of Income Tax (Validity)</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>GSTN Registration No.</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>GST/Sales Tax /VAT Paid Certificate.</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Firm PAN No.</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>If Pan card is not on firm name then linkage of personal pan card with firm registration</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Original Authorization letter in prescribed format</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Guarantee Period</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Discount, if any Model wise / Item wise</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Whether ISI marked or if any</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Whether ORIGINAL Technical leaflets enclosed</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Other information, if any</td>
<td></td>
</tr>
</tbody>
</table>

Place:                                                                                                                                                  

Date:                                                                                                                                                     

Seal & Signature of the Tenderer.
ANNEXURE -I
SCHEDULE OF SPECIFICATION
(This Document duly filled in should be enclosed in Envelope No. I)
PLESE MARK “✓” IF YOUR TENDER EQUIPMENT IS AS PER SPECIFICATION
AND QUATED ALONG WITH REQUIRED LEAFLESTS. IF NOT MARK “X” IN THE BOX
GIVEN IN FRONT OF NAME OF EQUIPMENT ALONG WITH THE DEVIATION.

LIST OF EQUIPMENT AND MATERIALS WITH TECHNICAL
SPECIFICATIONS FOR
Seed Testing Laboratories Pune, Parbhani and Nagpur, Fertilizer Testing Laboratories
Pune, Nasik, Aurangabad, Amravati and Kolhapur, Insecticide Testing Laboratories Pune,
Thane, Aurangabad & Amravati, Pesticide Residue Testing Laboratories Pune, Nagpur and
Bio-Control Laboratories Ahmednagar, Aurangabad, Amravati, Buldhana, Yavatmal,
Wardha (Selu), Parbhani, Nanded , Jalgaon and Dhule

[2017-18]

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>Name of Equipment &amp; their technical specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>ANALYTICAL BALANCE</strong></td>
</tr>
<tr>
<td></td>
<td>Should have following specifications:</td>
</tr>
<tr>
<td></td>
<td>• Max capacity [Max]- 82/220 g</td>
</tr>
<tr>
<td></td>
<td>• Minimum load- 1 mg</td>
</tr>
<tr>
<td></td>
<td>• Readability [d]- 0,01/0,1 mg</td>
</tr>
<tr>
<td></td>
<td>• Tare range- -220 g</td>
</tr>
<tr>
<td></td>
<td>• Repeatability- 0,01 mg</td>
</tr>
<tr>
<td></td>
<td>• Linearity- ±0,06/0,2 mg</td>
</tr>
<tr>
<td></td>
<td>• Eccentric load deviation- 0,2 mg</td>
</tr>
<tr>
<td></td>
<td>• Stabilization time- 4 s</td>
</tr>
<tr>
<td></td>
<td>• Pan Size- ø 90 + ø 85 (option) mm</td>
</tr>
<tr>
<td></td>
<td>• Sensitivity drift- 1ppm/°C in temperature +15 - +35 °C</td>
</tr>
<tr>
<td></td>
<td>• Working temperature- +10 - +40 °C</td>
</tr>
<tr>
<td></td>
<td>• Atmospheric humidity- 40% - 80%</td>
</tr>
<tr>
<td></td>
<td>• Power supply- 13,5 ± 16 V DC</td>
</tr>
<tr>
<td></td>
<td>• Display- touch screen</td>
</tr>
<tr>
<td></td>
<td>• Interface- 2×USB, 2xRS 232, Ethernet, 4Inputs/4Outputs (digital), WIFI Module</td>
</tr>
<tr>
<td></td>
<td>• Internal Memory- 8 GB</td>
</tr>
<tr>
<td></td>
<td>• Compliance- 21 CFR part 11 Audit trails inbuilt</td>
</tr>
<tr>
<td></td>
<td>• Calibration- Fully automatic Internal</td>
</tr>
<tr>
<td></td>
<td>• Connectivity- Direct connectivity to computer through USB</td>
</tr>
<tr>
<td></td>
<td>• Calibration Certificate from NABL Accredited Lab.</td>
</tr>
<tr>
<td></td>
<td>• Warranty- Minimum One year (1st Year) from date of installation</td>
</tr>
<tr>
<td></td>
<td>⚫ Free- Installation, demonstration &amp; training at site with operating manual</td>
</tr>
<tr>
<td></td>
<td>© Warranty- Minimum One year (1st Year) from date of installation</td>
</tr>
</tbody>
</table>

| 2     | **Automatic Pipette Controller**                                                                                          |
|       | Should have following specifications:                                                                                      |
|       | • Lightweight handle with smooth push-buttons and ergonomically located switches.                                         |
|       | • An updated valve control system & which allows very fine control. Battery powered, should works with glass and plastic pipettes in the 1 to 100 ml range. |
|       | • The suction speed should be set to high or low to adjust for the volume of the pipette and viscosity of the liquid.     |
|       | • The suction should also be adjusted by the amount of pressure applied to the trigger button.                           |
|       | • Dispensing should be carried out by gravity or supported by the pump, which empties the pipette with a blow out step. |
|       | • Protected from liquids by both a PTFE filter and unique liquid blocking valve in the silicone pipette holder.          |
|       | • To protect samples from cross contamination, the filter, nosepiece and pipette holder should be exchanged and autoclaved. |
|       | • When fully charged, it should be continuously for minimum 2,000 pipetting cycles. A low battery warning light indicates that the unit is recharged. |
|       | • An integrated timing circuit and thermal sensor should prevent overcharging.                                           |
|       | • Supplied with the power supply/charger, complete with three PTFE 0.2 or 0.45 μm filters, wall hanger & Charger 230V    |
|       | • Ergonomically designed with following features.                                                                        |
|       | • Works with pipettes from 1 ml to 100 ml                                                                             |

D:\OFFICE (QC-6)\PART - TENDER\2017-18\Tender 17-18\TENDER FORM 2017-18.doc 15
<table>
<thead>
<tr>
<th>Acid Dispenser</th>
<th>Auto Titrator</th>
</tr>
</thead>
</table>
| \- Pressure sensitive trigger buttons for fine control over aspiration and dispensing rate  
\- Rechargeable NiMH battery provides up to 2,000 pipetting cycles  
\- Autoclavability Nosepiece, pipette holder and filter  
\- Filter Hydrophobic PTFE 0.2 or 0.45 μm  
\- Pipette types Glass or plastic, 1 to 100 ml  
\- Electrical 230V~, 50 Hz  
\- **Free- Installation, demonstration & training at site with operating manual.**  
\- **Warranty- Minimum One year (1st Year) from date of installation.** | \- Titrate provides readability of 0.001 ml up to 20 ml & 0.01 ml from 20 ml onwards.  
\- Titrate is provided with Safety recirculation valve to avoid risk of splasing the reagent as well as air bubbles.  
\- Zero reset of Display by single press of key.  
\- Programmable auto power off from 1 – 30 minutes so there is less consumption of batteries.  
\- Titrate is provided with Amber coloured windows for protection from light sensitive media.  
\- No switching needed to change between filling & Titration.  
\- Accuracy: ±0.006% for all volume ranges.  
\- Coefficient of variation: ±0.02%  
\- Adjustable Titrating tube in both Horizontal and vertical direction.  
\- Titrate can be operated in lab conditions up to 40° C.  
\- Provision for storing next calibration date in memory of the instrument (GLP).  
\- Provision for Play & Pause key to stop & Resume Titration.  
\- Titrate can be rotated in 360° so that the Display always faces the user for safety.  
\- Powered by 2 x AAA batteries which can be easily replaced without any change in accuracy & Calibration.  
\- Additional Adapters are included in the pack so as to mount Titrate on any bottles with any size of threading for all volume ranges  
\- Length of flexible filling tube can be adjusted so as to take chemical from bottles of any sizes.  
\- The Titrate has optional provision for dispensing the reagent in totally dry condition and can also be used for chemicals which are reactive to moisture in air.  
\- Easy to calibrate and adjust in order to comply with ISO 9001 and GLP guidelines.  
\- Batteries & Electronic circuits are totally concealed to prevent any corrosion.  
\- The Titrate is provided with Calibration certificate as per DIN ISO 8655.  
\- Filling and Titrating tube can be easily dismantled without any change in accuracy & calibration of the instrument.  
\- Optional provision for RS 232 port for transferring the titration readings directly in to the Computer. Also we can save Date, Calibration date, Serial number etc. |
### 5 Refrigerated Centrifuge (High & Low Vol.)

Should have following specifications:

- Microprocessor controlled refrigerated centrifuge
- Maximum capacity: 4 x 200 ml (depending on rotor)
- Max. speed: 18,000 rpm, in steps of 100 rpm
- Max. g-force (RCF): 30,065 x g, in steps equivalent to 100 rpm
- Timer: up to 60 min, in 1 min increments, on request up to 999 min.
- HOLD for longer runs / PULSE for short runs
- 9 acceleration and deceleration ramps
- Maintenance free, brushless induction drive
- Stainless steel chamber with additional inner guard ring
- Over speed detection, imbalance detection and cut-off
- Motorized lid lock, automatic lid opening, emergency lid lock release
- LCD display for both current and preset values of speed/g-force, time and temperature
- Rotor Detection: Automatic Positive Rotor Identification for rotors
- Program memory: 10 programs
- User Interface: Operating panel with buttons and one rotary knob
- Preset Time: up to 60 minutes in steps of 1 min. on request up to 999 min. "HOLD" for longer runs / "PULSE" for short runs
- Preset Speed: From 500 rpm to max. speed in steps of 100 rpm
- Preset g-Force/RCF: with increments equivalent to 100 rpm
- Drive System: Direct self-centering drive system with brushless induction motor
- Speed Accuracy: ±2 rpm at 1,000 rpm / ±20 rpm at max. speed
- Acceleration Time (depending on rotor): 30 sec. – 1.5 min.
- Deceleration Time (depending on rotors): 40 sec. – 2.5 min.
- Acceleration/Deceleration rates: 9 ramps in steps of 15 sec. from 0 to 120 in the range of 0 – 1,000 rpm
- Braking System: Dynamic electric brake system - Acoustic Signal at the end of run
- Temperature set range: -10°C to +40°C in steps of 1°C
- Cooling of Standstill: YES
- Temperature Control Accuracy: ±2°C on calibrated rotor
- Temperature control system: Bypass system
- Overtemperature protection: YES
- Refrigeration System: CFC – Free refrigerant
- Safety features:
  - Overspeed detection
  - Imbalance detection and cut-off
  - Four point lid fixing
  - Automatic motor driven lid lock with emergency lid lock release
  - Stainless steel chamber with additional inner guard ring

### Accessories:

1. Swing-out Rotor (incl. 4 buckets 200 ml with screw cap)
   - Max. Capacity: 4 x 200 ml
   - Max. Speed: 5000 rpm
   - Max. g-force: 4081 x g

2. Angle Rotors (with hermetically sealing lid)
   - Max. Capacity: 24 x 1.5/2.2 ml
   - Max. Speed: 18000 rpm
   - Max. g-force: 29703 x g
   - **Free Installation, demonstration & training at site with operating manual.**
   - **Warranty** - **Minimum One year (1st Year) from date of installation**

### 6 Deep Freezer Upright type

- Cooling fan should be permanently lubricated
- Chemically stable CFC Free environmental safe refrigerant
- High density foam insulation for rigidity and stable storage temperature
- Micro processor control, digit display adjustable temperature range between – 10 to – 40 Deg
- Door lock facility
- Cabinet type: upright
- Cooling Type: Direct cooling
Defrost Mode: manual
Refrigerant: CFC-Free
Noise Level: ≤44 db
Cooling performance: -20°C
Temperature range: -10 to -40°C
Controller: Microprocessor
Display: LED
Capacity: 180-200 litres
High/Low Temperature: YES
Sensor Error: YES
Power requirements: 240 v 50-60 Hz
Free- Installation, demonstration & training at site with operating manual.
Warranty- Minimum One year (1st Year) from date of installation

Digital Burette
- Titrette should be able to provide readability of 0.001 ml up to 20 ml & 0.01 ml from 20 ml onwards.
- Titrette should be provided with Safety recirculation valve to avoid risk of splashing the reagent as well as air bubbles.
- It should have Zero reset of Display by single press of key.
- It should be Programmable auto power off from 1 – 30 minutes so there is less consumption of batteries.
- Titrette should be provided with Amber coloured windows for protection from light sensitive media.
- No switching needed to change between filling & Titration.
- Accuracy should be ±0.006% for all volume ranges.
- Coefficient of variation should be ±0.02%
- There should be Adjustable Titrating tube in both Horizontal and vertical direction.
- Titrette should be operated in lab conditions up to 40°C.
- There should be Provision for storing next calibration date in memory of the instrument (GLP).
- There should be Provision for Play & Pause key to stop & Resume Titration.
- Titrette should be rotated in 360° so that the Display always faces the user for safety.
- The Powered by 2 x AAA batteries which should be easily replaced without any changes in accuracy & Calibration.
- There should be Additional Adapters are included in the pack so as to mount Titrette on any bottles with any size of threading for all volume ranges.
- The Length of flexible filling tube should be adjusted so as to take chemical from bottles of any sizes.
- The Titrette should have optional provision for dispensing the reagent in totally dry condition and can also be used for chemicals which are reactive to moisture in air.
- 18. It should be Easy to calibrate and adjust in order to comply with ISO 9001 and GLP guidelines.
- 19. The Batteries & Electronic circuits should be totally concealed to prevent any corrosion.
- 20. The Titrette should be provided with Calibration certificate as per DIN ISO 8655.
- 21. The Filling and Titrating tube should be easily dismantled without any change in accuracy & calibration of the instrument.
- 22. If required in future the Titrette should have Optional provision for RS 232 port for transferring the titration readings directly in to the Computer. Also it should save Date, Calibration date, Serial number etc.
Free- Installation, demonstration & training at site with operating manual.
Warranty- Minimum One year (1st Year) from date of installation

Elisa Plate Reader
- Should have following specifications:
- Should be 8-channel optical measuring system.
- Should work with a keypad on 20 keys.
- Should be able to read U-, V-, or flat bottom 96-well plate.
- Should be filter wheel based.
- Should have capability for Mono , Bi chromatic measurements.
- Microwell plate should be measured within minimum 8 seconds in the Monochromatic measurement mode.
- The Results i.e. Abs, Sample No. and interpretation must be seen on the screen in matrix form. Graphs should be displayed on the screen and printout possible.
- Should be provided with 405nm, 450nm, 492nm, and 630nm standard filters. There should have optional 578 nm, 700 nm optional filter positions.
- Should have facility for up to 100 user defined test protocols.
- Should have large LCD display, with user friendly, for software operation.
- Should have variable speed linear shaking facility for the Microwell plates for removal of microbubbles and mixing of the well solution. The time and speed should be user definable..
- The Microwell plate position should have aerosol cover facility to prevent external contaminants and stray light.
### HOT AIR OVEN

#### Specifications:
- **Chamber Capacity:** Aprox 140 – 150 ltrs.
- **Construction:** Exterior mild steel (1 ~ 1.2mm thick) with heat cured epoxy coating.
- **Internal Chamber:** Stainless steel 304 grade (1mm thick) with CNC Press Punched back panel for internal efficient circulation.
- **Door Construction:** Double tempered glass window within the main door.
- **Heating System:** Incoloy sheathed spread out shaped heater for uniformity and efficient heating.
- **Circulation:** Impellor type dynamically balanced alumium blower.
- **Door Switch:** Non contact type door switch for auto cut off when door opens.
- **Shelves:** Stainless steel wire mesh shelves 2 nos with adjustable height in steps of 25mm.
- **Height Adjustment:** Stainless steel vertical channels for height adjustment of trays in steps of 25mm.
- **Internal Corner:** Seamless round cornered internal chamber ensures easy cleaning.
- **Bottom:** Plain without any electrical fittings.
- **Temperature Controller:** Digital PID with flush but embossed button panel.
- **Display:** LED display.
- **Temperature Range:** Ambient +10°C to 250°C
- **Control Accuracy:** ±0.5°C
- **Over Temperature Protection:** Provided.
- **Over Current Protection:** Provided.
- **Power Supply:** 230 V AC, 50 HZ, Single phase.
- **Calibration:** NABL Accredited Lab.
- **Installation:** Free - Installation, demonstration & training at site with operating manual.
- **Warranty:** Minimum One year (1st Year) from date of installation.

### HOT PLATE CUM MAGNETIC STIRRER

#### Specifications:
- **Max. Stirring Qty:** 20 liters (Water)
- **Speed Range:** 1000-1500 rpm
- **Speed Accuracy:** +/-2%
- **Hotplate Material:** Silumin with ceramic coating
- **Heating Power:** 800W
- **Power Consumption:** 820W
- **Hot Plate Temp.:** 20-300°C
- **Temperature Accuracy:** ±5°C [Hotplate]
- **Ambient Temp. range.:** 0-40°C
- **Max. rel. Humidity:** 80%
- **Hot Plate Diameter:** 145mm
- **Installation:** Free - Installation, demonstration & training at site with operating manual.
- **Warranty:** Minimum One year (1st Year) from date of installation.
<table>
<thead>
<tr>
<th><strong>INDUCTIVELY COUPLED PLASMA SPECTROMETER SYSTEM (ICP)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Should have following specifications:</strong></td>
</tr>
<tr>
<td>• A compact high performance Dual View ICP system is required for the routine measurement of major and minor elements in a variety of general samples and research samples.</td>
</tr>
<tr>
<td>• The ICP should be true simultaneous in all aspects of measurements including simultaneous measurements of all analyte wavelengths, internal standard and background.</td>
</tr>
<tr>
<td>• The plasma source shall consist of an integral, water cooled, all solid state, min. 27 MHz RF generator.</td>
</tr>
<tr>
<td>• The generator shall have a high coupling efficiency of &gt;75% and be directly coupled with a swing frequency impedance control and power regulation to better than 0.1%.</td>
</tr>
<tr>
<td>• An high efficiency cyclone spray chamber fitted with a high performance glass concentric nebulizer shall be provided for optimum stability and best detection limits with fast washout and minimum cross contamination.</td>
</tr>
<tr>
<td>• A semi demountable quartz ICP torch with separate injector shall be provided for maximum flexibility.</td>
</tr>
<tr>
<td>• The viewing height of the plasma must be adjustable under computer control to enable optimization whilst the plasma is lit, in complete safety to the operator.</td>
</tr>
<tr>
<td>• Sample introduction shall be via an integral, close coupled and variable speed, peristaltic pump with a minimum of 12 rollers. The pump shall have a minimum of 4-channels to accommodate sample and drain and an additional channel for internal standard addition or hydride generation.</td>
</tr>
<tr>
<td>• The plasma gas should be fixed at 12 l/min for minimum gas consumption &amp; the system should be capable of running the sample without any additional gases, like shear gas.</td>
</tr>
<tr>
<td>• The torch orientation should be horizontal and plasma shall be viewed axially as well as radially. Auxiliary optics shall be available to provide a radial plasma view.</td>
</tr>
<tr>
<td>• The instrument shall have the possibility to automatically switch between axial and radial view (dual view) during an analysis.</td>
</tr>
<tr>
<td>• The instrument shall be equipped with a high energy Echelle Cross Dispersion Spectrometer/ Echelle based Spectrometer with a “side by side” arrangement of prism and grating. Emission spectra shall be dispersed in both wavelength and order in a 2 dimensional array.</td>
</tr>
<tr>
<td>• The optical purge shall be purged with either argon or nitrogen to allow measurement of signals in the low UV part of the spectrum. The instrument shall operate with a reduced purge flow of 21pm and include a standby flow of 1pm to minimize gas consumption.</td>
</tr>
<tr>
<td>• Wavelength range. The instrument shall be able to operate over the range of 165 to 900 nm or better.</td>
</tr>
<tr>
<td>• Resolution. The instrument shall have the capability to perform measurements in routine operation with an optical resolution of 0.007/nm at 200nm or better.</td>
</tr>
<tr>
<td>• The instrument shall be equipped with a single chip based solid state CCD/CID/CMOS Detector with more than 2,00,000 pixels.</td>
</tr>
<tr>
<td>• The Detector shall be cooled by a triple stage peltier cooling device to -45°C to reduce dark current and background noise resulting in enhanced detection limits.</td>
</tr>
<tr>
<td>• Detector Operating Modes. The detector must be capable of measuring all the analytes (including background) and internal standard in simultaneous mode.</td>
</tr>
<tr>
<td>• Feature of recalling Echellogram for sample analysis done in past for revalidating results.</td>
</tr>
<tr>
<td>• The spectrometer shall be controlled from an industry-standard Pentium computer complete with CD-ROM/ (reader/writer) and 17” monitor. The software supports all printers via the Windows 2000 /XP/2007/updated compatible operating system.</td>
</tr>
<tr>
<td>• The instrument system software shall be based on the Windows 2000/XP/2007 Professional or XP or updated compatible operating system. The software shall provide full control of all instrument functions including plasma ignition, gas flows, viewing position, and monitoring of safety interlocks.</td>
</tr>
<tr>
<td>• It must include as a minimum the following features and capabilities: -</td>
</tr>
<tr>
<td>• Full instrument control with the ability to display parameters and instrument response in real time.</td>
</tr>
<tr>
<td>• Fully automated system start up and shutdown via the instrument control window.</td>
</tr>
<tr>
<td>• Real time graphics for instrument setup and monitoring.</td>
</tr>
<tr>
<td>• All set up parameters including plasma position to be stored on disk.</td>
</tr>
<tr>
<td>• Internal diagnostics including error checking and complete fault log.</td>
</tr>
<tr>
<td>• Comprehensive wavelength library (&gt; 44000 wavelengths) with indication of preferred line for each element. Automatic identification of possible spectral interferences when selecting wavelengths for analysis. Search mode for identification of unknown wavelengths.</td>
</tr>
<tr>
<td>• Auto sampler</td>
</tr>
<tr>
<td>• A choice of random access Auto samplers shall be quoted with the ability to handle at least 250 samples. Operation will be under full software control from the ICP system computer.</td>
</tr>
<tr>
<td>• The Auto sampler should incorporate a peristaltic pump and rinse station to continually wash the inside and outside of the A/S probe.</td>
</tr>
<tr>
<td>• Local accessories like Branded PC with printer, exhaust hood, four gas cylinders, regulators, spares and consumables for 500 samples, installation solutions and standards should be quoted.</td>
</tr>
<tr>
<td>• Software should be updated and user friendly.</td>
</tr>
<tr>
<td>• 15 KVA UPS with battery backup to be provided along with the system with 50 % additional capacity.</td>
</tr>
</tbody>
</table>
• Free- Installation, demonstration & training at site with operating manual.
• Warranty- Minimum One year (1st Year) from date of installation

12 **HPLC**

Should have following specifications:

- Low pressure gradient pump with serial dual reciprocating pistons with on-the-fly compression with pressure transducer purge valve with a flow rate range of 0.0001 – 10 ml/min, and pressure range of 44MPa (0.0001 to 5 ml/min), flow rate accuracy of ≤ ±1% or ≤±2µL/min, below whichever is greater, flow precision of <0.06% RSD and gradient delay volume of 10 uL. Additional Gradient pump to be offered.

- UV Detector with wavelength range of 190-800 nm and pixel resolution of 1 nm, drift : < 1 mAU/h and Noise :≤±8 µAU, data collection rate of 100 Hz, wavelength accuracy of ±1.0 nm, analytical flow cell of 13uL & 10mm path length, temperature control for deuterium and tungsten lamp. 3D PDA software for peak purity, spectral library match and online spectral plot for comparing apex spectra with all data point on peak.

- Programmable microprocessor controlled Peltier technology Column Oven with, force air-fan assisted convection for high temperature constancy cooling / heating with Eluent Pre heater, temp. accuracy of +/- 0.5° C, stability: +/- 0.1° C, Precision: +/- 0.1° C and temp. range: 15°C to 80 °C.

**Autosampler**:  
Sampler Operating Principle : Inline Split Loop  
Sample Capacity: 120 × 1.8 mL/2.0 mL vials, + 15 × 10 mL vials 3 × 96 deep well plates  
Injection Volume: 0.01–100 µL (1–100 µL) Optional: 0.2–25 µL, 1.5–250 µL, 1.5–500 µL  
Injection Volume Accuracy: ± 0.5% at 20 µL  
Injection Volume Precision: <0.25% RSD at 5 µL  
Injection Volume Linearity: Correlation Coefficient > 0.9999 RSD < 0.5% at 5 – 90 µL  
Minimum Sample Required: 1 µL out of 5 µL (250 µL conical vial)  
Carry Over: < 0.004% for Caffeine with external wash at 200 bar Active external needle wash  
Injection Cycle Time: < 15 seconds for 5 µL  
Thermostatting: ambient to 45°C  
Temperature Accuracy Sampler: ± 2°C

**Chromatography software**:  
Chromatography data system for control, acquisition, processing, & Reporting software.  
Chromatography Software should have client/Server, 32-bit design for Windows 7.0 64 bit  
It should be 21 CFR Part 11 compliance  
It should have flexible reporting as users desires for complete chromatography information Reporting.  
Audit trial should automatically monitor users’ action and records a modification his history.  
It should also record the instrument event such as injection, complete instrument settings, changes & conditions in real time.  
Antivirus with three years of subscription

**Accessories**  
Suitable branded PC & Laser Printer to be provided along with the system.  
Suitable Columns and standards to be quoted.  
UPS with minimum 30 mins. battery backup to be provided along with the system.  
Calibration Certificate from NABL Accreditated Lab.  
Free- Installation, demonstration & training at site with operating manual.  
Warranty- Minimum One year (1st Year) from date of installation

13 **Hot Water Bath cum Shaker**

Should have following specifications:

- Water bath should be deigned to deliver precise temperature control and a smooth reciprocal shaking motion.  
- Oscillator control should be independent, allowing baths to use for regular constant temperature water bath applications such as thawing, warming reagents, or general incubation, provided with RPM range of 20-200,  
- It should be with other features as follows  
  - Temperature range : + 5°C to 99°C  
  - Temperature stability ±0.5°C at 37°C  
  - Temperature controller:PID controller , PT-100  
  - Control system : Temperature and shaking velocity control  
  - Display should LED Display, show process value and set value at the same time  
  - Heater : 1.5 KW  
  - Recirculating system : Jet stream mining stirred tank  
  - Oscillating system : slow starter power motor safety
- Shaking amplitude: 25mm (from max left to max right)
- Shaking: 20-200 rpm variable speed
- Shaking plate with flask clips: Clamp 50 ml (24 pcs), clamp 125 ml (12 pcs), Clamp 250 ml (9 pcs), clamp 500ml (6 pcs), Clamp 1000ml (4 pcs), Clamp 2000ml (2 pcs)
- Safety device should be provided: overload protection, overheat protection, electronic thermal shutdown protection, minimum 0.1°C, high/low temperature alarm, abnormal syndromes self-detection, slow-start feature for motor safety.
- Bath Volume: 35 Ltr. (no load) Draining pipe.
- Inner material: SUS#304
- Power should be 220 V 50/60 Hz
- Should be CE Marked
- **Free Installation, demonstration & training at site with operating manual.**
- **Warranty - Minimum One year (1st Year) from date of installation**

### Water Purification System

Should have following specifications:

1. Microprocessor based multi colored TFT Graphic Display, and produce Type-I, Type-II and Type-III Water in single compact system.
2. ASTM Type I Ultrapure water: for: Molecular biology, microbiology, PCR, inorganic and organic trace analysis, HPLC, ICP, TOC-analysis
3. Operating pressure in bar1 - 6 bar min/max (0.05kg-1.5Kg).

**ASTM Type-I Water**

1. Conductivity: 0.05 μS/cm
2. Resistance at 25°C: 18.2 MΩ.cm
3. Flow rate: 0.5L/min to 2L/minute
4. TOC Value: <5 ppb
5. Bacterial content in CFU/ml: < 1/10ml ie<0.1/ml
6. Particulate: < 1
7. Endotoxines:< 0.001 EU/ml

**ASTM Type-II Water**

1. Conductivity: 0.2 - 0.06μS/cm
2. Resistance at 25°C: 5-15 MΩ.cm.
3. Flow rate: up to 2L/Minute
4. TOC Value: <20 ppb
5. Bacterial count in CFU/ml: < 1/10ml
6. Particulate: < 1
7. Endotoxines:< 0.001 EU/ml

**ASTM Type-III Water**

Conductivity: <20μS/cm

1. RO Flow Rate: 5 L/hr
   - The system should have min. 20L Tank with recirculation loop.
   - Supply voltage: 230V±10%, AC, 50Hz.
   - System should have Cartridge exchange alarm.
   - Inbuilt leak detector, Double pass RO treatment and dual de-ionization purification.

**System Should Have Following Special Features**

- The system should produces Type-I, Type-II and Type-III grade water directly from Tap water in a Single Bench Top/Wall mounting Unit.
- The system should be Microprocessor based touch button controlled with multi colored Large TFT touch screen graphic display for showing the all parameters like Resistivity/conductivity, Temp., % Rejection of RO, Alarms, Modes, Report Configuration and Diagnostic Features etc. in one screen at a time.
- It should be Microprocessor controlled system management with continuous water purity monitoring.
- It should be with Automatic alarm for RO Module (RO-010), Resins UPC-005 and other cartridges replacement alarm.
- It should be with Auto High feed water conductivity alarm and Auto UVC-254, UFC-005 Cartridge change alarm, Auto Tank full alarm
- It should have Auto Recirculation in case when system is not in use to safeguard the quality of cartridges.
- System should be having inbuilt Memory to store the data. with provision of data capturing through USB port/software,
- It should be with Automatic Pre-rinse/flushing of feed water to purge static water on start.
- With Dispensing of product water with variable and fixed speed.
- System should have Recirculation loop to Safeguard the Cartridges in the period of...
Non Use and to maintain consistent water quality.

- With Complete automated sanitization for all wetted parts of tubing, valve, filters etc. with no risk of dispensing disinfectant water.
- **Free-** Installation, demonstration & training at site with operating manual.
- **Warranty-** Minimum One year (1st Year) from date of installation

15 **Rotary Shaker**

Should have following specifications:

- Equipment should have shaking motion of orbital and reciprocal
- Speed range within 100 -350 rpm
- Accuracy at ±1 rpm
- Instrument should be with microprocessor feedback control with auto stop timer
- Digital feedback RPN controller with automatic stop timer Max 99min 59sec / 99hr 59min or continuous
- System should have 4 digit dual digital LED display of RPM and TIME
- System should have inbuilt RPM calibration function
- Safety features:
  - Over speed cutoff with auto timer
  - Motor failure alarm
  - Over current cut off
- Platform should take maximum load up to 35 Kgs with SS grade.
- Motor capacity should be minimum at 30W
- **Accessories:**
  - Dedicated flask platform/universal platform to accommodate 1000ml flask clamps of minimum 25 nos.
  - Quote flask clamps for 1000ml for 25 nos.
  - Power requirement 230V, Single Phase, 50/60Hz
- **Free-** Installation, demonstration & training at site with operating manual.
- **Warranty-** Minimum One year (1st Year) from date of installation

16 **BOTTLE FILLING MACHINE**

Should have following specifications:

- For filling liquid in bottle size 100ml to 1000ml with presetting facility. Twin Heads volumetric Liquid filling Machine, designed for Injectable Liquid & oral Liquid Filling without particulate matter The basic unit should consists of Reciprocating Filling, Driving type Nozzle, Container Platform, container Centering Device, syringe Holders, HDPE/Silicon rubber Tubes and pipes and on line starter.
- Volumetric Liquid filling system
- Nozzle driving system
- The unit should built on strong structural frame for rigidity and provides vibration free movement of operation.
- The stroke of nozzle holder and the height of the nozzles is adjustable for achieving smooth entry and exit of nozzles inside the neck of containers and avoids splash spillage of liquid or dropping at sides.
- Nozzle holder should be so design that No breakage of containers in the event centering should not done correctly
- The unit can be quickly dismantled for the maintenance just by opening front cover
- Each and every part can be attended for cleaning operation of maintenance without any hindrance easy maintains & clinging procedure.
- High precision in manufactured syringe to achieve high accuracy in fill size and drip proof performance
- Material of construction SS 307 grade, all contact parts made of SS 316 grade, Teflon & Silicon rubber
- Suitable for operation on single phase 230 Volts AC supply.
- **Free-** Installation, demonstration & training at site with operating manual.
- **Warranty-** Minimum One year (1st Year) from date of installation

17 **HDPE BOTTLES**

Should have following specifications:

- Bottle size and weight- (without cap)

<table>
<thead>
<tr>
<th>Bottle size (ml)</th>
<th>Minimum weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>100</td>
</tr>
<tr>
<td>500</td>
<td>55</td>
</tr>
<tr>
<td>250</td>
<td>35</td>
</tr>
<tr>
<td>100</td>
<td>18</td>
</tr>
</tbody>
</table>

- Bottle material- HDPE Milky White (Virgin quality) (translucent to opaque)
- Head space- 15-20%
- Diameter to height minimum ratio- 1:2
- Diameter to height maximum ratio- 1:2.8
- Thickness (minimum)- 1000 micron

**Note:**

- 01 lakh approx.
- 03 lakh approx.
- 3 lakh approx.
- Bottle mouth/ opening minimum diameter (cm)- 2.5
- Inner cap minimum weight (g)- 0.8
- Inner cap should have HDPE vented inner plug
- Outer cap minimum weight (g)- 3
- Outer cap- Tamper evident self locking cap

**18 BATTERIES (100 AH 12 V) / (70 AH 12 V)**

Should have following specifications:

<table>
<thead>
<tr>
<th>Battery Type</th>
<th>Sealed Maintenance Free (SMF) Rechargeable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Voltage</td>
<td>12 Volts</td>
</tr>
<tr>
<td>Rated Capacity</td>
<td>70 AH</td>
</tr>
<tr>
<td>Ah Capacity@ 27º C (77º F)</td>
<td>8 Hr 1.75 vpc</td>
</tr>
<tr>
<td></td>
<td>60.5</td>
</tr>
</tbody>
</table>

**CERTIFICATIONS**

The above specified product is certified and recommended by government affiliated institutions like ISO 9001:2008, STQC, DGSS&D, ONGC, CEL, CECRI, NICS, ERIL, NIC, CDDC etc.

- Free- Installation, demonstration & training at site with operating manual.
- Warranty- Minimum 36 Months from date of Delivery.

**19 Air Conditioner**

Should have following specifications:

- Features -
- Capacity - 2 TON
- Star Rating - 5 Stars
- Rated Cooling Capacity - 6000 W or Better
- Power input(W) Cooling - 1929 W or Better
- Rated EER - 3.11 W/W or Better
- Power Supply - 230 / 50 / 1 Phase V/Hz/Ph
- Air Flow Volume - Indoor - 1100 CMH Or Better
- Moisture removal - 2.1 CMH Or Better
- Refrigerant Gas - R-22
- Rated Current- Cooling - 8.4 Amps
- Operation - LCD Remote
- Compressor Type - High EER Rotary
- Noise - 44/39/33 dB(A) or less
- Connecting Pipe type - Cu-Cu
- Connecting Pipe Length - 5 Meter Or more
- Connecting Cable - 5 Meter or more
- Condenser Coil - Cu Or Better
- Free- Installation (with all required accessories) demonstration & training at site with operating manual.
- Warranty- Minimum 1 year for product and 5 years for compressor from date of installation.

**20 UPS (10 KVA)**

Should have following specifications:

- Technology- DSP based Double Conversion Online UPS system with true galvanic isolation
- Back Up Time- 240 Min.
- Adjustable Input Voltage- 110 – 276VAC
- Adjustable By Pass Voltage- 110 – 276VAC
- Frequency Range- 45Hz – 55Hz / 54Hz – 66Hz
- Phase- Single phase with ground
- THDI- < 5% @ R Full Load
- Power Factor- 0.99
- Power- 8000 W
- Load PF Range - 0.8 lagging
- Phase- 1 Phase -2 Wire (P,N)
- Output Waveform- Pure Sine Wave
- Voltage- 230 V +/-1%
- Frequency- 50Hz +/-0.1%
- Load Crest Factor- > 3:1
- Output Voltage THD- <=3% on Linear Load
- Loading Capacity- 110% for 2 Minutes
- Maintenance By-Pass- Should Be Available
- Battery Self-Test- Automatic & Manual
21 GERMINATION PAPER
Should have following specifications:
- Towel paper with crepe for medium, Size 45 x 30 cm
- Basic mass 95-100 gm/m²
- Bursting Strength minimum 2.00 kg/cm²,
- Capillary rise minimum 30 mm/min
- pH 6 to 7.5, Ash % by mass maximum 1.5
- Should posses creped surface,
- Should have an open porous formation and should be free impurities or toxic substances that may affect seed germination.
- It should be free from fungi or bacteria, which might interfere with growth or evaluation of seedlings.
- It should hold sufficient moisture during the period of test
- Should Posses sufficient strength to resist wear and tear during handling.
- The texture should be such that at the roots of germinating seedlings will grow on and not into the paper.
Sample of Germination paper should be submitted with tender for testing.

7.5 M. Tonn approx

22 Sieve Set
1) Made of brass without any joint with SS-316 stainless steel. Supplied complete with Calibration Certificate, 20 cm diameter & 5 cm height. (as per ISO 3310/1)

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Sieve Size (mm)</th>
<th>Sr. No.</th>
<th>Sieve Size (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.05</td>
<td>10</td>
<td>2.36</td>
</tr>
<tr>
<td>2</td>
<td>0.15</td>
<td>11</td>
<td>2.50</td>
</tr>
<tr>
<td>3</td>
<td>0.212</td>
<td>12</td>
<td>2.80</td>
</tr>
<tr>
<td>4</td>
<td>0.25</td>
<td>13</td>
<td>3.00</td>
</tr>
<tr>
<td>5</td>
<td>0.85</td>
<td>14</td>
<td>3.35</td>
</tr>
<tr>
<td>6</td>
<td>1.00</td>
<td>15</td>
<td>4.00</td>
</tr>
<tr>
<td>7</td>
<td>1.18</td>
<td>16</td>
<td>5.06</td>
</tr>
<tr>
<td>8</td>
<td>1.70</td>
<td>17</td>
<td>9.5</td>
</tr>
<tr>
<td>9</td>
<td>2.00</td>
<td>18</td>
<td>13.2</td>
</tr>
</tbody>
</table>

01

23 Multichannel pipette
Should have following specifications:
- All functions at a glance and easily selectable
- After a tip ejection, the piston automatically returns to zero position for continuous work.
- Function control soft keys must have Edit and help at the push a button.
- Colour display must have Self-explanatory display without sub-menus.
- Battery should have long usages period without charging
- Automatically save last 10 or more sets of parameters in history.
- Channel: 8 Channel electronic equalizer pipette
- Volume range: 100-1250 µl
- Accuracy: max. 1.5%- 6.0 µl
- Precision: max. 0.6%- 3.0 µl
- Extendable pipette tips adaptability- can match universal tips fittings.
- Free: Calibration, demonstration, Maintenance, repair & training at site with operating manual.
- Warranty: Minimum 1 Year from date of installation

03
AGREEMENT

M/s ______________________ (hereinafter called as Supplier) of the FIRST PART

AND

An agreement made this ___ day of __________ between the Purchase Officer & Dy. Director of Agriculture (Laboratory), M.S. Pune-1 Commissionerate of Agriculture, Maharashtra State, Pune-411005 (hereinafter called as the Purchase Officer of the OTHER PART.

WHEREAS

1) The contractor has accepted for supply of stores article namely __________________________ (herein after called as the articles) as per delivery instructions given in the acceptance of tender.

II) Whereas the contractor has deposited with the Assistant Director (I), Commissionerate of Agriculture, Maharashtra State, Pune-1, a sum of Rs.------------------------only) in form of D.D. No.---------------------------------- dated -------------- drawn on Bank --------------------------------------- date ---------------------- as security deposit and 5% of the total cost of instruments as Performance Bank Guarantee (PBG) ----------------------------------Bank duly attested for due fulfillment of this agreement.

Now it is hereby agreed between the parties here to as follows:-

The contractor accept after terms and conditions and instructions set out in the Tender form and in the 1. Tender Notice NO. DDL/ Eq.pur.-2017/ F.no. 34/QC-6/504/2017, Dated 20.11.2017 along with the terms and conditions set out in the acceptance of tender order dated---------which will hold good during the period of this agreement.

2. Upon breach by the contractors of any of the conditions of the agreement the Purchase Officer may issue a Notice in writing rescind, determine and put to an end this agreement without prejudice to the right of the Government of Maharashtra to claim damages for antecedent

AND

3. Breaches thereof on the part of Contractor & also to reasonable compensation for the loss occasioned by the failure of the contractor to fulfill the agreement as certified in writing by the Purchase Officer which certificate shall be conclusive evidence of such compensation payable by the contractor to the Government.

4. The Purchase Officer shall make payments towards supply of the equipment under this tender after completion of the delivery of the equipments. The Purchase Officer shall effect payment of 90% of the total cost of the material on receipt and satisfactory installation reports from the consignees to the effect that the material are delivered & received in good and working condition & reports of Technical Committee of the Consignees for having done completion of installation and satisfactory working of the equipment’s. The balance payment of 10% will be made after one month from the date of installation & satisfactory working of the equipments and after satisfactory training Government shall not incur any liability to pay interest on bills for delayed payment.

5. Upon the determination of this agreement whether by affliction of the time or otherwise, the security deposit shall after expiration of 12 months on the date of such determination be returned to the contractor but without interest and after deduction there from any sum, due but the contractor to the Government or the Purchase Officer under the terms & conditions of this agreement.

6. This agreement shall remain in force until the expiry of the date of delivery of the articles and till the expiry of maintenance contract (AMC) but notwithstanding any thing contained herein or in the tender or in the acceptance from, the Government shall not be found to take the whole or any part of the estimated quantity herein mentioned & may cancel the contract at any time by giving one month Notice in writing without compensation to the contractor.

7. If the Contractor fails to deliver the articles in accordance with the conditions mentioned in the supply order the Purchase Officer shall at his option be entitled either-

a) To recover from the contractor as agreed liquidated damages or by way of penalty a sum not exceeding half percent of the price of the stores which the contractor has failed to deliver as aforesaid for each week or part a of a week during which the delivery of such stores may be in arrears, or the delivery of such stores to respective consignee may be delayed subject to maximum limit of 10% of the value order not exceeding Rs.2.00 lac & 5% of the value of exceeding Rs. 2.00 lac of the stipulated prices of the stores so undelivered. Such penalty will be deducted by the purchase from the bill due to supplier.

b) To purchase elsewhere after giving due notice to the contractor on his account and the risk of contractor, the stores not delivered or others of similar description (where other exactly complying with the particular or not in option of the purchasing officer which shall be final readily procurable)

c) To cancel the contract.
8. In the event of action be taken under (a)(b) or (c) of the 7 above, the contractor shall be liable for any loss, which the Purchase Officer may sustain on that account. The recovery on account of agreed liquidated damages or by way of penalty under (a) of 7 above will be made by deducting such amount in the bill and the recovery of any loss which the Purchase officer may sustain under (b) & (c) of 7 above should be made good by a credit note within the stipulated period for the purpose.

9. The Contractor do undertake to declare that the articles being sold to the Purchase Officer under this contract shall be of best quality and workmanship and further guarantees that the said articles would continue to the description and quality for period of 12 months from the date of delivery of the said article to the Purchaser. Further the contractor declares that not withstanding the fact purchaser or the technical committee on his behalf may have inspected and/or approved the said article if during the aforesaid period of 12 months the articles be discovered not conforming the description and quality or have deteriorated, the purchaser will be entitled to reject that article or portion thereof as may discover not in conformity to the description and quality. On such rejection all provisions relating to the rejection of article shall apply. The contractor shall if so called upon to do replace the article or portion thereof rejected by the Purchaser otherwise contractor shall pay to the Purchaser damages as may arise by the reason of breach of this condition contained herein.

9A. It is mandatory to the supplier to extend the effective & efficient Annual Maintenance Contract (AMC) for the prescribed period from expiry of warranty as mentioned in the purchase order.

10. Notice in connection with the contract may be given by the Purchase Officer & Dy. Director of Agriculture (Laboratory), M.S. Pune-1 Commissionerate of Agriculture, Maharashtra State, Pune - 411 001 to the Director or Industries of Gazzetted Officer of the Store Purchase Department as authorized by the Director, Industries.

In witness whereof the said purchase Officer has on behalf of the Government of Maharashtra & Commissionerate of Agriculture, M.S.Pune-1 affixed his hand and seal hereto, on the day and year first above written.

SIGNED, SEAL & DELIVERED BY_________________ FIRST PART
Mr./Mrs. ________________________________
Autopsied on behalf of
M/s ________________________________
In the presence of
Name and address of
Signature
1. ________________________________
2. ________________________________

SIGNED, SEAL & DELIVERED BY _________________ OTHER PART
Mr. ________________________________, Purchase Officer and Dy. Director of Agriculture (Laboratory), M.S. Pune-1 Commissionerate of Agriculture, Maharashtra State, in the presence of
Name
Signature
1. ________________________________
2. ________________________________
GUARANTEE BOND

Name of the Department
Address of the Department

Dear Sirs.

Whereas you intend to enter into a contract, as per your Letter of Intent, Reference No. ______________ dated ______ (Hereinafter referred to as "the contract") with M/s ______________ as vendor for the supply of ______________ defined in contracts schedule, (hereinafter referred to as "the goods / services") and whereas the vendor has undertaken to produce a performance cum warranty bond for amount of Rs ______________ being equal to ---% of the total contract value of the goods / services to be delivered as specified contract No ______________ dated ______ referred to as "contract to secure its obligations to the beneficiary with respect to the goods specified in the invoice.

1. We ______________ (Name of the Bank), hereby expressly, irrevocably, and unreservedly undertake and guarantee as principal obligators on behalf of the Seller that in the event that the beneficiary submits a written demand to us stating that the Seller has nor performed according to the terms and conditions of the contract, we will pay you on demand and without demur any sum up to a maximum amount of (5% of the contract value). Any claims must bear the confirmation of your bankers that the signatures thereon are authentic. Your written demand shall be conclusive evidence to us that such written demand.

For the avoidance of doubt any documents received by way of facsimile or similar electronic means is/are not acceptable for any purpose(s) under this guarantee.

2. We shall not be discharged or released from this undertaking and guarantee by any arrangements, variations made between beneficiary and the seller or any forbearance whether as to payment, time performance or otherwise.

3. In no case shall the amount of the guarantee be increased.

4. Unless a demand under this guarantee is received by us in writing on or before the expiry date(unless this guarantee is extended by the seller), all your rights under this guarantee shall be forfeited and we shall be discharged from the liabilities hereunder.

5. This guarantee shall be a continuing guarantee (which means guarantee will also be valid if the bank is in under liquidation or bankruptcy) and shall not be discharged by any change in the constitution of the bank or in the constitution of the Seller.

6. Please return this letter of guarantee immediately after our liability thereafter has ceased to be valid.

7. Our liability under this guarantee will cease to be valid even if the guarantee deed is not returned to us.

8. This guarantee is personal to the beneficiary and not assignable to a third party without our prior written consent.

9. This guarantee shall be governed by Indian Law. This guarantee is valid until the <<mention date>>.

Signature and Seal of Guarantors

____________________________________
Date ______________________________
Address: __________________________
Government of Maharashtra

Name of the office: .................
RFP No: .................
Mumbai, dated: .................

To
M/s ___

Subject: __________________________________________________

Ref: _____________________________

With reference to above, I am pleased to inform you that your proposal for the subject cited above has been accepted by <<Name of the Department>>. The total charges accepted by <<Name of the Department>> are <<INR___ including / excluding all taxes>>.

You are now required to do the following within <<time period>> of this Letter of Intent:

1. Sign and submit the agreement attached herewith on <<INR ___ Stamp Paper>>

2. Submit the Project Plan and Resource Mobilization Plan, in order to start the work at the earliest

3. Submit the Bank Guarantee of <<INR __>> from Nationalized / Scheduled commercial bank in favor of <<Name of the Department>>. Validity of the Bank Guarantee should be minimum <<specify time period>>. Department shall release the mobilization advance of equivalent amount upon submission of this Bank Guarantee.

Best Regards,

Signature

<<Name of the Purchasing Authority>>
ACCEPTANCE OF TENDER

Please quote in all letters, invoices, etc. the Number and date of this acceptance of Tender.

ACCEPTANCE OF TENDER BY THE GOVERNOR OF MAHARASHTRA

No. //Name of Item/Fin.
Year/
Date:

To,

-------------------------
------------------------
------------------------

Ref: 1) Indent letter from -------------------------------------------, dt. --

2) This office A/L No.------------------------, dt.---------

Gentlemen,

This office Tender No.------------------------, dt.------------- and in continuation of this office A/L No.------------------------, dt.--------- for the stores specified in the schedule attached herewith has been accepted, subject to the conditions under which you tendered to the extent of the quantity and on the terms in your tender and/or acknowledgement letter which is repugnant to or inconsistent with the terms & conditions of this Acceptance of the Tender and schedule attached herewith shall be void and of no force and effect. If you fail to acknowledge receipt of this communication within a week, you will be deemed to have accepted this contract on the terms and conditions set out therein.

2. Please acknowledge receipt of this Acceptance of Tender as soon as possible on the slip enclosed.

3. The security deposit of Rs.------------------------ (Rs.------------------------) for due performance of contract made by you is liable to forfeiture to the Government of Maharashtra in the event of your non-fulfillment of the terms and conditions on which this Acceptance of Tender is issued.

4. Please quote in all letters, invoices, etc. the number and date of this Acceptance of Tender.

5. Packing and Notification of dispatch. Your particular attention is invited to the conditions of contract under which you have tendered in regard to packing and notification of delivery and dispatch. It is essential that packing notes and priced invoices shall be furnished to the consignee in respect of every consignment. The Railway Receipt should be forwarded to the consignee immediately after the dispatch of stores, otherwise demurrage charges, if any, paid by the consignee will be deducted from your bill.

6. The total cost of the Acceptance of this Tender for delivery Free at destination, comes to Rs.------------------------ (Rs.------------------------) and you should not dispatch the goods if the total cost exceeds that amount.
Inspection:- The detailed & final inspection of the goods should be done by any officer authorized by ------------------

7-A. The entire materials ordered will have to be offered for inspection in open condition if required and the same will have to be repacked in such a manner so as to be suitable for transport without any extra cost.

Designation and full postal address of the consignee.

Advance Sample: - If required Advance Sample must be dispatched to the Indenting Officer/Consignee so as to reach him by the dates specified. The Actual dates of dispatch must be reported promptly to this office. The sample must be of an acceptable quality and fully representative of the bulk supply. This is an essential condition of the contract and the Government shall under no circumstances be liable for any stores manufactured by you before the sample has been approved.

Failure and Termination of Contract: - If you fail to deliver the stores or any part thereof within the period prescribed for delivery the -------------------shall be entitled in his opinion to take any one or more of the following steps:-

(a) To recover from you as liquidated damages, a sum equivalent to half percent of the price of the undelivered stores at the stipulated rate for each week or part thereof during which the delivery of such stores may be delayed, as under:-

<table>
<thead>
<tr>
<th>Category of Stores</th>
<th>Penalty Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>The case of an order not exceeding Rs.2.00 Lakh in value</td>
<td>At the rate of ½ % per week subject to maximum limit of 10%.</td>
</tr>
<tr>
<td>In case of an order of Rs.2.00 Lakh and above</td>
<td>At the rate of ½ % per week subject to maximum limit of 5%.</td>
</tr>
</tbody>
</table>

(b) To purchase elsewhere, on your account and at your risk the stores so undelivered or others of similar description where others exactly complying with the particulars are, in the opinion, of the Directorate of Industries and Central Purchasing Officer, which shall be final, not readily procurable without cancelling the contract in respect of consignment not yet due for delivery.

(c) To cancel the Contract.

In the event of action being taken under (b) or (c) above, you shall be liable to make good for any loss which the Government of Maharashtra may sustain by reason of higher price of the stores so purchased or otherwise howsoever.

The decision of the Purchasing Officer shall be final as regards the acceptability of stores supplied by the Contractor and Purchasing Officer shall not be required to give any reason in writing or otherwise at any time for rejection of the stores.

11. Goods should be consigned to AS PER THE LIST TO BE ISSUED BY THE PURCHASING OFFICE OF -------------------------------

12. Goods should be dispatched at carrier’s risk, failing which they should be properly covered by transit Insurance with Government insurance Fund, Mahada, Bandra (East), Mumbai-400 051 or New Address

(1) The goods are inserted in packages in a safe and in a sound condition,
(2) According to the normal trade practice packing used is good. Failure to comply with these instructions may result in non-acceptance of transit risk by the Insurance Officer.

12(A) When the goods are dispatched from station outside Maharashtra State, the supplier has to declare the condition of the packing: -

(i) Railway receipt should not be sent by V.P.P. and payment for goods despatched should be made in the ordinary way.
(ii) If Railway receipts are sent by V.P.P. it will be obligatory on the part of the firm supplying the stores to give prior intimation of dispatch of stores to the indentore and/or Consignee by a separate letter, of having done so.

13. Date of delivery (PLEASE SEE SCHEDULE ATTACHED)

(1) Date of Delivery is the date on which acceptable goods have been offered for inspection to the inspecting agency.

(2) In the event of your inability to supply goods by the stipulated date, this office must be informed and no supply will normally be accepted by the consignee if delivered late, except on production of a specific sanction from this office.

14. Bills: - Bills for the stores to be supplied in compliance of this contract must be prepared in duplicate and sent to the consignee for payment.

14-A. Octroi: Nil against octroi exemption certificate Necessary Octroi Exemption Certificate will be issued by the Consignee.

15. This office must be kept informed of the progress of the delivery of materials, etc. and intimation should be sent upon final completion of the contract.

16. This firm has executed the agreement and paid Security Deposit.

17. Warranty Clause: The Contractor/Seller hereby declares that the good/stores/articles sold to the buyer under this contract shall be of the best quality (and workmanship) and shall be strictly in accordance with the specifications and particulars contained/mentioned in the schedule hereof and the Contractor/Seller hereby guarantees that the said good/stores/articles continue to conform to the description and quality aforesaid for a period of 3/6/12/ months from the date of delivery of said good/stores/articles to the purchaser and that not with standing the fact that the purchaser Inspector may have inspected and/or approved the said good/stores/articles, if during the aforesaid period of 24 months the said good/stores/articles be discovered not to conform to the description and quality aforesaid or have deteriorated (and decision of the purchaser in that behalf will be final and conclusive) the Purchaser will be entitled to reject the said good/stores/articles or such portion thereof as may be discovered not to conform to the said description and quality. On such rejection, the goods/articles/stores will be at the Seller’s risk and all the provisions herein contained relating to rejection of goods, etc. shall apply. The Contractor/Seller shall, if so called upon to do, replace the goods, etc. or such portion thereof as is rejected by the purchaser otherwise the contractor/Seller shall pay to the purchaser such damages as may arise by reason of the breach of the condition herein contained. Nothing herein contained shall prejudice any other right of the purchasers in that behalf under this contract or otherwise.

Yours faithfully
Purchasing Officer
For & On behalf of the Government of Maharashtra

Copy to: -
(1)----------------------------------------------------------
(2)---------------------------------------------------------- etc.
Ref: -

Date: -

To,
The Purchase Officer & Dy. Director (Laboratory),
C/o. Dy. Director of Agriculture (Laboratories) QC-6,
Commissionerate of Agriculture, Maharashtra State,
2nd Floor, Central Building, Pune - 411001.

Tender No. -

Due Date -

Dear Sir,

I /We ...........................................................................(complete name & address) who are established and reputed manufacturers of ................................................. (name and description of the product offered in the bid) having factories at ........................................... hereby authorize M/s. .................................................. (name and address of agent) to submit a bid, negotiate (as and if necessary) and conclude contract with you against your above mentioned bidding documents for the goods manufactured by us.

We hereby extend our full guarantee and warranty of the General Conditions of the Contract, read with modification, if any, in the Special Conditions of the Contract for the goods and services offered for supply against this bidding document by the above firm during the whole contract period including extension period of the said contract if any.

We hereby confirm that after sales & services of our product will be provided by us or by the above said distributor.

Yours Faithfully,
For ..............................................

(Signature, Full Name & Address of the Manufacturer)

Note: This letter of authorization should be on the letter head of the manufacturing firm and should be signed by a person competent and having the power of attorney to legally bind the manufacturer.
**SCHEDULE TO ACCEPTANCE OF TENDER**

<table>
<thead>
<tr>
<th>NO.</th>
<th>Description</th>
<th>Quantity (eg. Dozen No./Unit/ Thousand / Kg.etc)</th>
<th>Rate per No.</th>
<th>Total cost</th>
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(1) Rates: - F.D. Destination.

(2) Taxes: - All Inclusive

(3) Deliver Period: Within Eight weeks from the date of confirmed order.

(4) Payment Conditions: 90% payment within 2 weeks from the date of receipt of stores with inspection/test report and balance 10% within 30 days from the date of receipt of all stores in satisfactory condition as ordered. No advance shall be paid to the supplier.

(5) No price escalation on any account will be allowed.

(6) The firm has executed the agreement & Paid Security Deposit.

(7) The name of the consignee: ---------------------------------------------------

(8) Octroi: Nil against octroi exemption certificate Necessary Octroi Exemption Certificate will be issued by the Consignee.

(9) Force Majeure clause is not applicable.

Purchasing Officer

For & On behalf of the Government of Maharashtra