

**Tender Notice No. DCQC/QCL/APEDA/INSTRUMENT/11/2014, MUMBAI-65**  
-----

**OFFICE OF THE COMMISSIONER, ANIMAL HUSBANDRY,  
M. S., PUNE- 411 007**

**(Phone-+912025690480/481/485, Fax-912025690483/489  
Email-cahpune@gmail.com)**

**TENDER FORM  
FOR  
PURCHASE OF INSTRUMENTS FOR THE OFFICE OF  
Deputy Commissioner (A.H.), Quality Control Laboratory,  
Aarey, Goregaon(E) , Mumbai-65.**

**Submitted by: -----**

-----

-----

**Office of the Commissioner Animal Husbandry, Maharashtra State, Aundh, Pune-7**  
**Tender Notice for purchase of instruments for the office of Deputy Commissioner, Animal Husbandry, Quality Control Laboratory, Aarey, Goregaon, Mumbai-65.**

**Tender Notice No. DCQC/QCL/APEDA/INSTRUMENT/11/2014, MUMBAI-65**

By this call Online tenders are invited by the Commissioner Animal Husbandry, M.S Pune-7 in prescribed tender format from manufacturers and their authorized dealers/distributors by TWO-BID SYSTEM for purchase of following Laboratory instruments for the office of Deputy Commissioner Animal Husbandry, Quality Control Laboratory, Aarey , Goregaon , Mumbai-65.

Sr. No.	Laboratory instruments	Qty required	EMD (Rs.)
1	Triple/Tandem Quadrupole Liquid Chromatography – Mass Spectrophotometry / Mass Spectrophotometry System	1 No	4,00,000/-
2	Gas Chromatography Mass Spectrophotometry / Mass Spectrophotometry System	1 No	4,00,000/-
3	Atomic Absorption Spectrophotometer	1 No	2,00,000/-
4	Digital Colony Counter	1 No	20,000/-
5	Laminar Air Flow Vertical Bio Safety	1 No	10,000/-
6	Solid Phase Extraction Unit	1 No	50,000/-

The Online Tender Time Schedule (Key Dates) is displayed on the e-Tendering Portal of Dept. of Animal Husbandry <http://adf.maharashtra.etenders.in> Tender Form along with Terms & Conditions can be downloaded from above website w.e.f. **17.01 hrs. of 10/01/2014 to 13.00 hrs. of 04/02/2014** by payment of Rs. 5,000/- (Rupees Five Thousand only) as the cost of tender form. The payment shall be made in the form of Demand Draft drawn on any Nationalized Bank in favour of **"Accounts Officer to the Commissioner of Animal Husbandry, Maharashtra State, Pune-7" payable at Pune**. The details of said demand draft are to be entered on the website. The Demand Draft must be submitted physically to the office of Commissioner, Animal Husbandry, Maharashtra State, Pune-7 up to **11.00 hrs. of 11/02/2014**.

**Prebid conference : Office of Commissioner, Animal Husbandry, M.S., Pune-7, on 21/01/2014 at 13.00 hrs.**

Earnest Money Deposit as shown in the table above in the form of Demand Draft drawn on any Nationalized bank in favour of **"Accounts Officer to the Commissioner of Animal Husbandry, Maharashtra State, Pune-7" payable at Pune** should be submitted physically, up to **11.00 hrs. of 11/02/2014** to the Office of the Commissioner, Animal Husbandry, Maharashtra State, Pune-7.

A fee of **Rs.1038/-** shall be payable directly to the service provider online during bid submission. For any difficulties related to e-tendering process, bidders can contact the service provider on phone number **020-2535555**.

Right to accept or reject any or all tenders without assigning any reason, vests with undersigned.

**Commissioner**  
**Department of Animal Husbandry,**  
**Maharashtra State, Pune 411 007**

## **TERMS & CONDITIONS FOR SUBMITTING TENDER**

### **1. ITEMS UNDER TENDER PROCESS FOR PURCHASE**

The items to be purchased & the quantity are shown in the table A below. The quantity of purchase may change. The technical specifications of the equipments are mentioned in Annexure- A

**Table A**

<b>Sr. No.</b>	<b>Laboratory instruments</b>	<b>Qty required</b>	<b>EMD (Rs.)</b>
1	Triple/Tandem Quadrupole Liquid Chromatography – Mass Spectrophotometry / Mass Spectrophotometry System	1 No	4,00,000/-
2	Gas Chromatography Mass Spectrophotometry / Mass Spectrophotometry System	1 No	4,00,000/-
3	Atomic Absorption Spectrophotometer	1 No	2,00,000/-
4	Digital Colony Counter	1 No	20,000/-
5	Laminar Air Flow Vertical Bio Safety	1 No	10,000/-
6	Solid Phase Extraction Unit	1 No	50,000/-

### **2. ELIGIBILITY FOR PARTICIPATION IN TENDER PROCESS**

The Manufacturers with valid manufacturing license/Certificate of Registration, issued by competent authority for items listed in Annexure- A OR the Dealer/Distributors authorised by manufacturing company in course of their regular business having valid certificate, are eligible to submit the tenders. This invitation for bids is open to all such suppliers, who will fulfill the eligibility criteria as well as the qualification criteria, incorporated in this document.

**2.1** It must be noted that the tenderer should not have been black-listed by any Government Agency/Institutions of local self Government/Public Sector in India under any contractual relation with them or pending legal/penal action for complaints of quality. The undersigned reserves the right for insisting upon submission of Good Performance Certificate issued by any such agency.

**2.2** The bidder company should clearly state whether the firm is registered with the -  
(1) NSIC/SSI/MSME Unit, under Single Point Registration Scheme for the item(s) quoted. If so, indicate the date up to which you are registered and whether there is any monetary limit on your registration with the type of items & services you are registered.

(2) Directorate General of Supplies & Disposals (DGS&D) for the item(s) quoted. If so, indicate the date up to which you are registered and whether there is any monetary limit on your registration.

(3) Under the Indian Companies Act, 1956 or any other Act.

**2.3** In case the tenderer is submitting tender as Dealer/Distributor of any manufacturing company, he must have valid certificate of appointment as Dealer/ Distributor issued by the manufacturing company.

**2.4** Non-compliance with the above conditions will render the tender ineligible for further processing and the Commercial bid in such case will not be opened.

### **3. HOW TO GET A TENDER FORM**

- 3.1** Tender Form along with Terms & Conditions can be downloaded from e-Tendering Portal <http://adf.maharashtra.etenders.in> of the Department of Animal Husbandry w.e.f. **17.01 hrs. of 10/01/2014 to 13.00 hrs. of 04/02/2014** by payment of Rs. 5,000/- (Rs. Five thousand only) as the cost of tender form in the form of Demand Draft drawn on any Nationalized Bank. The demand draft shall be drawn in favor of "**Accounts Officer to the Commissioner, Animal Husbandry, Maharashtra State, Pune-7**" and shall be payable at Pune. The Demand Draft must be submitted physically to the office of Commissioner, Animal Husbandry, Maharashtra State, Pune-7, up to **11.00 hrs. of 11.02.2014**. Scanned copy of Demand Draft should be uploaded for online tender submission.
- 3.2** The tender document can be downloaded from above mentioned website after entering the details of said demand draft. This amount is non refundable. The bidder shall bear all costs associated with the preparation and submission of its bid including drawing, literatures, etc. The Purchaser will in no case be responsible or liable for any such costs, regardless of the conduct or outcome of the bidding process. All these costs are non refundable.
- 3.3** If an agent in its bid submits quotations on behalf of more than one manufacturer, it is necessary that each such bid is accompanied by a separate bid form and bid security for each quotation and authorization from the respective manufacturer (as per authorization form as per Annexure-E ).Otherwise all such quotations will be rejected.
- 4.** The purchaser and/or its nominated representative(s) shall have the right to inspect and/or to test the goods to conform their conformity to the specification and other technical details incorporated in the tender at no extra cost to the purchaser. The purchaser shall specify what inspections and tests, the purchaser required and where and how they are to be conducted & shall notify in advance, to the supplier in writing of the identity of any representative(s) for this purpose.

### **5. EARNEST MONEY DEPOSIT/BID SECURITY (EMD)**

- 5.1** An Earnest Money Deposit as shown in the table-A above should be paid in the form of Demand Draft drawn on any nationalized bank. Cheque or cash or any other form of deposit will not be accepted. The Demand Draft for EMD shall be physically submitted to the Commissioner, Animal Husbandry, Maharashtra State, Pune-7 up to **11.00 hrs. of 11.02.2014**. Scanned copy of Demand Draft should be uploaded for online tender submission.
- 5.2** The following categories of suppliers are exempted from payment of earnest money deposit-
- 5.2.1** The firms located in Maharashtra & Registered with Director General of Supplies & Disposals, New Delhi.
  - 5.2.2** Small Scale Industrial Units registered with Directorate of Industries, Maharashtra, only for item manufactured by them.
  - 5.2.3** The SSI units registered with National Small Industries Corporation (NSIC) and Small Industries Service Institute of Govt. of India for their manufacturing items.
  - 5.2.4** Government and Semi-Government Institutions of Maharashtra and undertakings of

any State Government /Government of India.

- 5.2.5** Suppliers registered with the Central Stores Purchasing Officer of the Directorate of Industries, Maharashtra, who have satisfactorily supplied the material for last five years.
- 5.3** In case of claim for exemption for above said categories or any other category, the bidder must submit necessary documents / exemption certificate from appropriate authorities.
- 5.4** The EMD is liable to be forfeited, in case the rates quoted by the tenderer are approved but the party refuses to enter into the agreement for supply.
- 5.5** Unsuccessful bidder's Earnest Money Deposit will be discharged/returned as promptly as possible .
- 5.6** The successful bidder's Earnest Money Deposit will be discharged/returned upon the bidder, signing and accepting the tender and furnishing the performance security.
- 5.7** Any bid not secured with EMD except valid exemption, will be summarily rejected.
- 5.8** The bid security may be forfeited:
- a) If a bidder:-
    - i) Withdraws its bid or impairs or derogates from the bid in any respect during the period of bid validity specified by the bidder on the bid form, or
    - ii) Does not accept the correction of errors.
  - b) In the case of successful bidder, if the bidder fails:-
    - i) To accept and sign the Memorandum of Understanding of tender.
    - ii) To furnish performance security.

## **6. PRE-BID CONFERENCE**

- 6.1** A pre-bid conference will be held at **13.00 hrs. on 21.01.2014** in the Conference Hall, Office of the Commissioner, Animal Husbandry, Aundh, Pune-7, to discuss in detail the concept, specifications , queries etc.
- 6.2** At any time prior to and as may be the deadline for submission of bids the purchaser may for reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents by amendment.
- 6.3** The amendment should be mandatory for all those who are present or absent for the pre-bid meeting.
- 6.4** A prospective bidder requiring any clarification in connection with the bidding documents may & will have to notify to the purchaser at the time of Pre Bid meeting only.
- 6.5** In order to provide the prospective bidders with reasonable time in which to take the amendment into account preparing their bids, the purchaser may at its discretion extend the deadline for the submission of Bids and other allied time frame having linkage with that deadline.

## **7. TENDER TIME SCHEDULE (KEY DATES)**

The tender time schedule is as under –

Sr. No.	Departmental Stage	Vendor Stage	Start Date & Time	Expiry Date & Time	Envelopes
1	Release of Tender	--	10/01/2014 10.00 hrs.	10/01/2014 17.00 hrs.	--
2	--	Tender Download	10/01/2014 17.01 hrs	04/02/2014 13.00 hrs.	Commercial Envelope C <sub>1</sub> - C <sub>6</sub> , Technical Envelope T <sub>1</sub>
3	Pre bid Conference		21.01.2014 13.00 hrs.		
4	--	Bid Preparation	10/01/2014 17.01 hrs	04/02/2014 13.00 hrs.	Commercial Envelope C <sub>1</sub> - C <sub>6</sub> , Technical Envelope T <sub>1</sub>
5	Closing for Technical Bid	--	04/02/2014 13.01 hrs.	05/02/2014 17.00 hrs.	Technical Envelope T <sub>1</sub>
6	Closing For Price Bid	--	04/02/2014 13.01 hrs.	05/02/2014 17.00 hrs.	Commercial Envelope C <sub>1</sub> - C <sub>6</sub> ,
7	--	Bid Submission	05/02/2014 17.01 hrs.	11/02/2014 13.00 hrs.	Commercial Envelope C <sub>1</sub> - C <sub>6</sub> , Technical Envelope T <sub>1</sub>
8	--	Physical Submission of DD towards the cost of tender form	--	Up to 11/02/2014 11.00 hrs.	--
9	--	Physical Submission of DD of EMD	--	Up to 11/02/2014 11.00 hrs.	--
10	Technical Bid Opening	--	11/02/2014 13.01 hrs.	18/02/2014 13.00 hrs.	Technical Envelope T <sub>1</sub>
11	Price Bid Opening	--	18/02/2014 13.01 hrs.	18/02/2014 17.45 hrs.	Commercial Envelope C <sub>1</sub> - C <sub>6</sub> ,

## **8. MANNER OF SUBMISSION OF ONLINE TENDER FORMS**

It may be noted that once the tender is submitted it will be treated that the tenderer has agreed to all the terms & conditions of this tender in Toto. Any deviation, addition or deletion in the terms & conditions in the submitted documents by the tenderer will be treated as null & void and only terms & conditions declared in this tender will prevail.

### **8.1 GOVERNING LANGUAGE**

The bid submitted by the bidder and all correspondence and documents relating to the bid exchanged by the bidder and the purchaser, shall be written in English language. Supporting documents and printed literature furnished by the bidder may be written in other language, provided they are accompanied by English translation of their passages in which case, for the purpose of interpretation of the bid, the English translation shall govern.

**8.2** Tenderers should prepare & submit tenders online on department's e-tendering portal <http://adf.maharashtra.etenders.in> in two bid system. Accordingly, rates quoted for the items in ANNEXURE – A, should be prepared & submitted online in prescribed form in ANNEXURE-B , given in commercial envelope C<sub>1</sub>, C<sub>2</sub>, C<sub>3</sub>, C<sub>4</sub>, C<sub>5</sub>, C<sub>6</sub>, (as the case may be) duly encrypted with tenderer's digital signature certificate. All other required documents as

mentioned below need to be uploaded in technical envelope T<sub>1</sub> given in online e-Tender. While completing e-Tender Bid Preparation, tenderers have to generate HASH VALUE of the Technical and Commercial envelopes.

**8.3** It may be noted that while online opening of the e-Tender, Technical Envelope T<sub>1</sub> will be opened in the first stage. Commercial Envelopes C<sub>1</sub> to C<sub>6</sub>, (as the case may be) of only such tenderers will be opened online, who have fulfilled all requisites terms and conditions and whose specifications have been matched. The tender not fulfilling any of the requisite terms and conditions, will be rejected and no further claim will be entertained.

**8.4** The bidder is expected to examine all instructions, forms, terms and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at the bidder's risk and may result in rejection of its bid.

**8.5** Bids sent by Post, Courier, Telegram, Telex, Cable, facsimile or any other means specified are not acceptable and will be rejected.

#### **8.6 Technical Envelope T<sub>1</sub> (Technical Bid):-**

The technical information in the form of following documents is mandatory.

- i. Manufacturing license for the manufacturer/Certificate of appointment as Authorised Dealer/Distributor, issued by manufacturing company for the dealer/distributor.
- ii. Sales Tax Registration Certificate of the manufacturing/dealer/distributor Unit, with registration number/TIN, valid on the date of filing the tender. In case the application for allotment of registration/TIN being pending with the concerned department, the Xerox copy of the application accepted by the department has to be attached. A valid certificate for exemption of Sales Tax must be enclosed wherever applicable.
- iii. Copy of Demand Draft for purchase of tender form.
- iv. Copy of Demand Draft for Earnest Money Deposit **OR** Certificate of exemption for Earnest Money Deposit from the concerned authorities.
- v. Information brochure of the tendered item.
- vi. Details of machinery/infrastructure available for production/supply of items.
- vii. Details regarding experience of supply of such type of items in the past, if any.
- viii. Warranty certificate with details.
- ix. Declaration duly signed by the tenderer as per ANNEXURE-C.
- x. Check list duly signed as per ANNEXURE-D.
- Xii Original Equipment Manufacturer's Authorisation form as per ANNEXURE-E.

All the above documents should be uploaded in Technical Envelope T<sub>1</sub>. The originals should be kept ready for submission on demand.

#### **8.7 Commercial Envelope (Commercial Bid):-**

The rates should be quoted only in the **online price tender format** which is given as Annexure-B. The rates not quoted in prescribed online tender form or quoted on separate paper will not be considered and the tender form will be rejected. The rates should be quoted as described in the tender document. The tenderer should quote separate rates for each instrument in the respective commercial envelope- C<sub>1</sub> to C<sub>6</sub>. The Commissioner, Animal

Husbandry, Maharashtra State, Pune reserves the right to call for break up of rates quoted, if necessary.

**8.8** Technical Envelope T<sub>1</sub> and Commercial Envelope C<sub>1</sub> to C<sub>6</sub>, (as the case may be) should be submitted online as per the stipulated procedure. The HASH VALUE of both envelopes must be generated online. No tenders will be accepted after stipulated date & time. Also no request for extension of time will be entertained.

**8.9** The firm making any kind of undue effort / pressure from any level will be liable for outright rejection of tender.

#### **8.10 INDIAN AGENT**

If a foreign bidder has engaged an agent(s) in India in connection with its bid, it will be required to give the following information in the bid:-

- a) The name and address of the Indian agent(s) with their permanent income tax Account number(PAN).
- b) The details of the services the agent will render.

**8.11** A bid, which does not fulfill any of the above requirements and / or gives evasive Information /reply against any such requirement, shall be liable to be declared unresponsive and summarily rejected.

#### **9. CHECK LIST**

The documents in the check list must be compulsorily uploaded online with e-Tender form. Any omission in this regard, will make the tender liable for its rejection. Before preparation of the online tender, the tenderer is advised to check each item and score at the appropriate place as Yes or No in the checklist, given as Annexure D and mention the page number accordingly.

#### **10. HOW TO QUOTE RATES**

- 10.1** The quoted rates shall be inclusive of all costs, all charges, taxes, including VAT, Octroi, duties and transport charges. It must be quoted in **Indian currency only**. **No exemption certificate of any type for Taxes or duties or for any other purpose will be provided by the purchaser.** Also no licenses of any other kind will be issued by purchaser for any purpose. The price should be quoted F.O.R. destination i.e. Deputy Commissioner Animal Husbandry, Quality Control Laboratory, Aarey, Goregaon, Mumbai 65.
- 10.2** The tenderers can quote rates for a single or multiple items, in the respective commercial envelopes C<sub>1</sub> to C<sub>6</sub>.
- 10.2** If the item /items is/are covered under D.G.S. & D. rate-contract, the tenderer should also quote D.G.S. & D. rate-contract number and furnish other relevant particulars along with the copy of the rate-contract.
- 10.4** Tenderers may quote rates mentioning make and model of instruments and also should indicate specifically the make of spare parts, i.e. genuine, imported equivalent make or indigenous.
- 10.5** Tenderer may quote rates for instruments comprising & fulfilling the standards & requirements of two different items and may specify the same.



- 10.6** The price offered should be inclusive of free **Three years'** onsite **warranty for the whole system** from the date of onsite successful installation & successful running of the instrument.
- 10.7** Rates must be submitted only in Online Prescribed Tender form.
- 10.8** Validity of Rates –The rates quoted would be valid for a period of one year from the date of opening of commercial bid. Repeat order for the tendered items can be given by the purchaser. The tenderer is bound to supply the items with the accepted rates.
- 10.9** For domestic or imported goods ,prices shall be quoted in Indian Rupees only. Bids, where prices are quoted in any other way shall be treated as non-responsive and rejected.
- 10.10** Bidders shall quote for the complete requirement of goods and services specified under each instrument on a single responsibility basis, failing which such bids (for the instrument in question) will not be taken into account for evaluation and will not be considered for award.
- 10.11** If any element of cost, taxes, duties, levies, etc. is not included in the bid price will not be paid by the purchaser.
- 10.12** Prices quoted by the bidders shall remain firm and fixed during the currency of the tender and not subject to variation on any account, a bid submitted with an adjustable price quotation will be treated as non-responsive and rejected.

## **11. PRICE VARIATION / ESCALATION**

- 11.1** Increase in rate on any account will not be admissible in any case.
- 11.2** The tenderer will not quote or offer less price than the approved price in relation with this tender and agreement to any agency/institute concerned with Government of Maharashtra or Government of India or supply the same item to any of its distributor/dealers/whole- sellers at a lower rate, (after applying all relevant discount structures) during the tender period including extension if granted, failing which “the tenderer” will have to accept the lesser price for all the orders concerned during the tender period.

## **12. ACCEPTANCE OF TENDERS**

- 12.1** The Commissioner, Animal Husbandry, M.S. Pune-7 reserves all the rights of accepting whole or any part of the tender or to refuse all tenders without assigning any reason.
- 12.2** The Commissioner, Animal Husbandry, also reserves the right to call for break-up of the quoted rates if required.
- 12.3** The Commissioner, Animal Husbandry does not pledge himself to accept the lowest tender and reserves the right of accepting the whole or any part of the tender or portion of the rate offered against any item and the tenderer shall supply the same at the rates quoted.

## **12.4 TERMINATION FOR INSOLVENCY**

If the supplier becomes bankrupt or otherwise insolvent, the purchaser may terminate the tender by giving written notice to the supplier, without any compensation to the supplier providing that such termination will not prejudice or affect any right of action or remedy which has accrued and/or will accrue thereafter to the purchaser.

## **12.5 TERMINATION FOR CONVENIENCE**

The purchaser by written notice send to the supplier, may terminate the tender in whole or in part at any time for its convenience. The notice of termination shall specify that the termination is for the purchaser's convenience, the extent to which performance of the supplier under the tender is terminated and the date with effect which such termination become effective. The goods that are completed and ready to reach F.O.R. destination within 7 (seven) days after receipt of notice of termination by supplier shall be accepted by the purchaser at the fact terms and prices.

## **12.6 BID OPENING & BID EVALUATION**

**12.6.1** The purchaser will open the technical bid first in the presence of bidder's representative, who choose to attend, at the time, date and the place specified. If the bidder is technically qualified & has fulfilled all the tender conditions, then & then only he/she will be qualified for the commercial bid opening.

**12.6.2** The purchaser will examine the bids to determine whether they are complete, whether the required bid validity is available, whether any computational errors have been made, whether the documents have been properly signed, and whether the bids are generally in order. Arithmetical errors, if any, in a commercial bid will be rectified on the following basis. If there is a discrepancy between the words and figures, the amount in words shall prevail. If the supplier does not accept the correction of such errors, its bid will be rejected.

**12.6.3** Prior to the detailed evaluation pursuant the purchaser will determine the substantial responsive of each bid to the bidding documents. A substantially responsive bid one which conforms to all the requirements and terms and conditions of the bidding documents, including the specifications and technical parameters of the goods as projected in the bidding documents, without material deviations. Deviations from as objections or reservations to the bidding documents critical provisions, such as those concerning bid validity, technical specifications performance security, warranty obligations, Force Majeure, taxes and duties and applicable law (governing the tender) will be deemed to be material deviations. Bids from an agent without proper authorization from the manufactures shall be treated as non-responsive.

**12.6.4** The purchaser may waive any minor infirmity, non-conformity or irregularity in bid, which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any bidder.

**12.6.5** The conclusion drawn by the purchaser as to substantial responsiveness or otherwise of a bid or consideration of a minor infirmity or non conformity or irregularity in a bid is final.

**12.6.6** If a bid is determined as not substantially responsive, it will be rejected by the purchaser and may not subsequently be made responsive by the bidder by correction of the non-conformity.

**12.6.7** The representative of a bidder, who intends to attend the bid opening, shall bring with him/her a letter of authority from the bidder on the bidders letter head, duly authorizing him/her to attend the bid opening. In the absence of such a letter of authority, the representative(s) will not be allowed to enter and attend the bid opening. The bidders' representative who attends the bid opening, shall sign a register (which will be provided by the purchaser) evidencing their attendance.

**12.6.8** The bidder's name, technical specifications of the goods offered, the presence or absence of the requisite bid security (Earnest Money Deposit-EMD) and such other details as the purchaser, at its discretion, may consider appropriate will be announced at the time of technical bid opening.

## **12.7 CLARIFICATION OF BIDS.**

During scrutiny and evaluation of bids, the purchaser may, at its discretion, ask a bidder for a clarification of its bid. The request for clarification and response shall be in writing and no change in the price or substance of the bid shall be sought, offered or permitted.

## **12.8 EVALUATION AND COMPARISON OF BIDS.**

**12.8.1** The purchaser will evaluate and compare the bids, which have been determined to be substantially responsive for each instrument separately. The bid for a instrument will not be considered if the complete requirements covered in the instrument is not included in the bid. However, bidders are allowed to opt, to bid for any one or more instruments and to offer discount for combined instruments. These discounts will be taken into account in the evaluation of the bids so as to determine the bid or combination of bids offering the lowest evaluated cost for the purchaser in deciding award(s) .

**12.8.2** The comparison shall be on F.O.R. destination basis, duly delivered and commissioned (as the case may be) at the destination of the Purchaser.

## **12.9 BIDDER'S CAPABILITY TO PERFORM THE TENDER**

**12.9.1** The purchaser will determine to its satisfaction whether the bidder, which is selected as having submitted the lowest evaluated responsive bid, is qualified and prima facie capable to perform the tender satisfactorily.

**12.9.2** The determination will take into account the bidder's financial, technical and production capabilities for fulfilling all the requirement of the purchaser as specified in the bidding documents. This exercise will be based upon the examination of the documentary evidence of the bidder's qualifications submitted by the bidder, as well as such other allied information as the purchaser deems necessary and appropriate.

**12.9.3** An affirmative determination will be pre-requisite for award of the tender to the bidder. A negative determination will result in rejection of the bidder's bid, in which event the purchaser will proceed to the next lowest evaluated bid to make similar determination of the bidder's capabilities to perform satisfactorily.

## **12.10 PURCHASER'S RIGHT TO VARY QUANTITIES AT THE TIME OF AWARD**

The purchaser reserves the right at the time of awarding the tender to increase or decrease the quantity of goods and services specified without any change in the unit price or other terms and conditions.

## **12.11 AWARD OF TENDER**

### **12.11.1 CONTACTING THE PURCHASER**

From the time of the bid opening to the time awarding the tender, if a bidder wishes to contact the purchaser on any matter related to the bid, he/she should do so in writing.

## **12.12 APPLICABLE LAW**

The tender shall be interpreted in accordance with the Laws of India.

## **12.13 AWARD CRITERIA**

The purchaser will award the tender to the successful bidder whose bid has been determined as the lowest evaluated bid, provided further that the bidder is determined to be qualified and prima facie capable to perform the tender satisfactorily.

## **12.14 Purchaser's right to accept any bid and to reject any or all bids**

The purchaser reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time prior to the award of tender, without thereby incurring any liability, whatsoever, to the affected bidder or bidders.

## **12.15 NOTICE OF AWARD**

**12.15.1** Before the expiry of the period of bid validity, the purchaser will notify the successful bidder in writing by registered letter, that its bid has been accepted. The corresponding quantity of the item(s) ordered, which have been accepted will, inter-alia, be mentioned in the notification.

**12.15.2** The notice of award will constitute the formation of the tender.

**12.15.3** Upon the successful bidder's furnishing the performance security pursuant to the purchaser will promptly notify each unsuccessful bidder and will discharge its bid security.

## **12.16 SIGNING OF TENDER**

**12.16.1** The purchaser will notify the successful bidder in writing (along with the Memorandum of Understanding form incorporating all agreements between the parties) that , its bid has been accepted.

**12.16.2** Within ten (10) days of issue of the Memorandum of Understanding (MOU) form by the purchaser, the successful bidder shall sign and date the MOU & get it notarized along with purchaser.

**12.16.3** Failure of the successful bidder to comply with the requirement shall constitute ground for annulment of the award and forfeiture of the bid security. In which event the purchaser may make the award to the next lowest evaluated or call for new bids.

## **12.17 TERMINATION FOR DEFAULT**

**12.17.1** The purchaser, without prejudice to any remedy for breach of MOU, may by written notice of default sent to the supplier, terminate the tender in whole or in part, if the supplier fails to deliver any or all the goods or fails to perform any other MOU obligation(s) within the same period specified in the tender on which any extension thereof granted by the purchaser.

**12.17.2** In the event the purchaser terminates the tender in whole or in part the purchaser may procure upon such terms and conditions and in such manner as it deems appropriate, goods and/or services similar to those undelivered and the supplier shall be liable to the purchaser for any excess cost for such similar goods and/or services. However, the supplier shall continue to perform the tender to the extent not terminated.

## **12.18 SIGNING OF AGREEMENT**

**12.18.1** Successful tenderer / authorized representative shall enter into the MOU/ Agreement with the Competent authority i.e. The Commissioner Animal Husbandry, M.S., Pune-7, preferably within 10 days of acceptance of tender or when called for by the commissioner in this regard.

**12.18.2** The successful tenderer will be required to execute an agreement on judicial stamp paper as per further instructions of the Department.

**12.18.3** Only the person authorized by due resolution in this context is allowed to sign the agreement on behalf of the successful tenderer. Any other person will not be eligible to sign the agreement on behalf of the successful tenderer.

**12.18.4** The Earnest Money Deposit will be forfeited in case the tenderer fails to sign the agreement after acceptance of his tender. The tenderer is liable to be blacklisted in such case.

## **13 PERFORMANCE SECURITY -**

**13.1** Within 30 (Thirty) days after the issue of notice of award by the purchaser, the supplier, shall submit security deposit in the form of TDR (Term Deposit Receipt) of any Nationalized Bank, drawn in favor of "**Accounts Officer to the Commissioner, Animal Husbandry, Maharashtra State, Pune-7**" and shall be payable at Pune, to the purchaser for an amount of 3% (three percent) of the tender value, valid up to three years of all tender obligations by the supplier, including the warranty obligations.

**13.2** In the event of any correction of defect or a replacement of defective material during the warranty period, the warranty for the corrected/replaced material shall be extended to a further period of twelve months from the date of the correction/replacement (date of replacement will be determined by the purchaser in consultation with the supplier).

**13.3** In the event of any tender amendment, the supplier shall, within 21 (twenty one) days of issue of such amendment, furnish the necessary amendment to the Performance Security, rendering the same valid in all respect in terms of the tender, as amended.

**13.4** The proceeds of the Performance Security shall be payable to the purchaser as compensation for any loss resulting from the supplier's failure to complete its obligations under the tender.

**13.5** The Performance Security shall be denominated in Indian Rupees and shall be in the following form:-

- a) TDR (Term Deposit Receipt) of any Nationalized Bank, drawn in favor of "**Accounts Officer to the Commissioner, Animal Husbandry, Maharashtra State, Pune-7**" and shall be payable at Pune.

**13.6** The performance security will be discharged by the purchaser and returned to supplier on completion of the supplier's tender.

#### **14 INDENTING PARTIES(PURCHASER)**

The Deputy Commissioner (A.H.) Quality Control Laboratory. Aarey, Goregaon .  
Mumbai-65, Maharashtra State, shall be the indenting officer for the item under the tender.

#### **15 DEMAND AND SUPPLY SCHEDULE**

**15.1** Successful tenderer will have to supply the goods as per order placed within 60 (sixty) days or the period given by the indenting officer after receipt of supply order. For failure within the above stipulated period, the tenderer is liable for a penalty of 0.5 % (Half percent) of the total price of the goods, per week or part thereof for late delivery of such goods till the date of its final supply/receipt maximum upto 10 % for the prices below Rs.1,00,000/(Rupees one lakh only) & maximum upto 5 % for the prices above Rs.1,00,000/(Rupees one lakh only).

**15.2** A repeat order within the validity period of the tender may be given, if required.

**15.3** The number of items to be purchased may change as per the discretion of the indenting department.

**15.4** The tenderer will have to necessarily supply the item of the same quality and make, as have been specified in his bid.

#### **15.5 DELIVERY OF GOODS**

Delivery of the goods shall be made by the supplier in accordance with the terms specified by the purchaser in the notification of award and in the tender.

#### **15.6 DELAYS IN THE SUPPLIER'S PERFORMANCE**

**15.6.1** Delivery of the goods and performance of the services shall be made by the supplier in accordance with the time schedule specified by the purchaser.

**15.6.2** Except any unexpected delay by the supplier in maintaining its tender delivery obligations shall render the supplier liable to any or all the following sanctions:-  
Imposition of liquidated damages, forfeiture of its performance security and/or termination of the tender for default.

**15.6.3** If at any time during the performance of the tender, the supplier or its subcontractor(s) should encounter conditions hindering timely delivery of the goods and performance of services, the supplier shall promptly notify the purchaser in writing of the fact of the delay, its likely duration and its clause(s). After the receipt of the supplier's notice, the purchaser, as soon as practicable, shall evaluate the situation and may at its discretion extend the supplier's time for performance, in which case the extension of the delivery period shall be ratified by issuing the amendment to the tender.

**15.6.4** The supplier shall not dispatch the goods after expiry of the delivery period. The supplier is required to apply to the purchaser for extension of delivery period and obtain the same before dispatch. In case the supplier dispatches the goods without obtaining an extension, it would be doing so as its own risk and no claim for payment for such supply and/or any other expense related to such shall lie against the purchaser.

## **15.7 LIQUIDATED DAMAGES**

If the supplier fails to deliver any or all the goods or perform the service within the time period(s) specified in the tender, the purchaser shall, without prejudice to its other remedies under the tender, deduct from the tender price, as liquidate damages, a sum equivalent to 0.5% (half percent) of the delivered price of the delayed goods or unperformed services for each week of delay or part thereof until actual delivery or performance, up to a maximum deduction of 10% (ten percent) of the delayed goods or services tender price. Once the maximum is reached, the purchaser may consider termination of the tender, if the same have not been terminated already.

Further, during the above mentioned delayed period of supply and/or performance, the supplier, notwithstanding any stipulation in the tender for increase in price for any ground, shall not be entitled to any increase in price and cost, whatsoever which take place during the period of delay. But, nevertheless, the purchaser shall be entitled to the benefit any decrease in price and cost on any ground during that period of delay.

## **16 BILL RAISING, PAYMENT AND PROCEDURE THEREOF**

The supply of Instruments should be made F.O.R. destination to the Office of Deputy Commissioner (A.H.), Quality Control Laboratory, Aarey, Goregaon , Mumbai-65.

The supplier should transport and install Instruments at his own cost at the said office.

The supplier should provide detailed guidance and training to the concerned officers/ office Staff about the functioning, operation and other technical information of the Instruments.

### **16.1 PAYMENT**

**16.1.1** The Payment shall be made in the currency/currencies specified in the tender by the purchaser. The supplier shall send its claim (with relevant documents, as required by the purchaser) to the purchaser. Before claiming any payment the supplier shall ensure that all the tender obligations for claiming that payments have been duly fulfilled.

**16.1.2** The payment shall be made in the following manner and on production of the following documents:-

1. Payment of 80% shall be made, after onsite successful installation , set up of required instrumentation methods (to meet global food safety regulations like EU/ USFDA/Japan for Agriculture products ,Animal feeds & animal origin products,e.g. egg powder, milk products, meat, meat products etc.) of the purchaser & successful running of the instrument for one week on practical samples received during that period & after all the tender conditions have been fulfilled & the documents

listed below are submitted-

- Manufacture's/supplier's warranty certificate .
- Certificate regarding verification of specifications from College of Engineering Pune (COEP) is mandatory. The cost of obtaining this certificate will be bourn by the Supplier/Tenderer.

- Certificate of Manufacture.
- Supplier's Certificate conforming that the amount shown in the invoice are correct in terms of the tender and that all the terms and conditions of the tender have been complied with for claiming this payments.
- All types of required certificates.

Any other document(s) and/or modification of above documents specified in the requirement of the tender..

2. Remaining 10% shall be paid only after training of operations of the instrument to the concerned staff of purchaser for development and standardization of methods.

3. On final acceptance:

- a. 10% of the tender price of goods received shall be paid after one month successful running & functioning of the instrument, supported by the acceptance certificate issued by the purchaser.

#### **17. a. INCIDENTAL SERVICES**

- i. Any or all the following services and/or some additional services are required to be provided by the supplier:
- ii. Performance of supervision of on-site assembly and/or start up of the supplied goods,
- iii. Furnishing of tools required for assemble and/or maintenance of the supplied goods,
- iv. Furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied goods,
- v. Performance or supervision or maintenance and/or repair of the supplied goods, for a period of time agreed to by the parties, provided that this services shall not relieve the supplier of any warranty obligations under the tender, and
- vi. Training the purchaser's personnel at the supplier's plant and/or in assembly, start-up, operation, maintenance and/or repair of the supplied goods.

#### **B. SPARE PARTS**

- i. Such spare parts as the purchaser may elect to purchase from the supplier, provide that this will not relieve that supplier of any warranty obligations under the tender, and
- ii. Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spare for the goods. Other spare parts and components shall be supplied as promptly as possible but in case within three months of placement of order and opening the letter of credit.

#### **18. PENALTY CLAUSE**

In case, tendering party fails to deliver consignment thereof within the tender period of delivery or in case the goods are found not in accordance with the prescribed specifications, the Commissioner, Animal Husbandry, Maharashtra State, Pune shall exercise his discretionary powers to take one or more of the following actions. Any loss, penalty imposed on supplier shall be deducted from the bills payable to him to the extent of bill amount and any other amount due to tenderer under the same or any other contract with the undersigned or any of the indenting agency.

- a) For failure within the stipulated period of 60 (Sixty) days, the tenderer is liable for a penalty of 0.5 % (Half percent) of the total price of the goods, per week or part thereof for late delivery of such goods till the date of its final supply/receipt maximum upto 10 % for



the prices below Rs.1,00,000/(Rupees one lakh only) & maximum upto 5 % for the prices above Rs.1,00,000/(Rupees one lakh only).

- b) To forfeit the entire amount of security deposit of the tenderer.
- c) To cancel the tender or part thereof with the supplier.
- d) To blacklist the supplier permanently from the list of departmental suppliers.

## **19 WARRANTY CLAUSE AND ITS OPERATION**

The supplier warrants that the goods supplied under the tender is new, unused of the most recent of current model and incorporate all recent improvement in design and material unless provided otherwise in the tender. The supplier further warrants that the goods supplied under the tender shall have no defect arising from design, material (except when the design adopted and/or the material used are as per the purchaser's specification) or workmanship or from any act or omission of the supplier, that may develop under normal use of the supplied goods under the conditions prevailing in India.

The warrantee shall remain valid for 36 (thirty six) months after the goods or any portion thereof (as the case may be) have been delivered to the final destination and installed and commissioned at the final destination and accepted by the purchaser in terms of the tender. The purchaser shall promptly notify the supplier in writing of any claim arising under this warranty.

Upon receipt of such notice, the supplier shall, with all reasonable speed (or within the period, if specified in the tender), repair or replace the defective goods or parts thereof, free of cost, at the ultimate destination. The supplier shall take over the replaced parts/goods at the time of their replacement. No claim whatsoever shall lie on the purchaser for the replaced parts/goods thereafter.

In the event of any correction of a defective or replacement of any defective material during the warranty for the corrected/replaced material shall be extended to a further period of 12 (twelve) months from the date, such corrected/replaced material starts functioning to the satisfaction of the purchaser.

If the supplier having been notified, fails to remedy the defect(s) within a reasonable Period or within the period, if specified in the tender), the purchaser may proceed to take such remedial action as may be necessary at the supplier's risk and expenses and without prejudice to any other right, which the purchaser may have against the supplier, under the tender.

**The Manufacturer /Authorized distributor should give three years' onsite warrantee from the date of successful installation of the instrument. For the purpose of protecting and stabilizing the instrument the tenderer should quote the price of the additional/supportive devices in the basic cost of the instrument. During the warranty period it will be duty of the supplier and OEM to provide after sales service within 48 hours of complaint. The supplier should ensure normal refunctioning of the instrument within 72 hours from the time of lodging of complaint to the supplier, to the satisfaction of Deputy Commissioner of Animal Husbandry, Quality control, Mumbai-65. Failing to provide the services the supplier will be liable for penalty at the rate of 0.5% of the purchasing cost of the instrument for every 7 days after the expiry of the period(72 hours) allowed to provide service from the supplier/OEM. But if the instrument needs replacement of part/parts, there will be no penalty up to 7 days from the time of lodging complaint to the supplier/OEM. After expiry of this period of 7 days supplier/OEM will be liable for penalty at the rate of 0.5% of the purchasing cost of the instrument for every next 7 days. The supplier/OEM can make alternative arrangements for providing**

**services same as that of the instrument but in this case the supplier/OEM will be liable for penalty at the rate of 0.1% of the purchasing cost of the instrument for every 7 days after the expiry of the period(72 hours) allowed to provide service by the supplier/OEM. Every year calibration & validation should be done by supplier during the warrantee period.**

**This clause is mandatory and over rules all clauses mentioned any where in this tender.**

## **20     FORCE MAJEURE**

If, at any time during the continuance of this tender, the performance in whole or in part by either party of any obligation under this tender shall be prevented or delayed by reason of any war, hostility, acts of the public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restrictions, 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 tender 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 tender 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 tender is prevented or delayed by reason of any such event for a period exceeding 60 days, either party may at its option terminate the tender, provided also that if the tender is terminated under this clause, the purchaser shall be at liberty to take over from the tenderer at a price to be fixed by the purchasing officer, which shall be final and all the unused, undamaged and acceptable materials, bought out components and stores in course of manufacture in the possession of the tenderer at the time of such termination or such portion thereof, as the purchaser may deem fit accepting such material, bought out components and stores as the tenderer may with the concurrence of the purchaser elect to retain.

## **21     PERIOD OF VALIDITY OF TENDER**

- 21.1 Bids shall remain valid for acceptance for one year after the date of bid approval prescribed by the purchaser, pursuant to the bid valid for a shorter period shall be rejected by the purchaser as non-responsive.
- 21.2 If the date up to which the bid is to remain valid happens to be a holiday for the purchaser, the bid shall automatically remain valid up to the next working day of that organization.
- 21.3 In exceptional circumstances, the purchase may solicit the bidder's consent to an extension of the period of bid validity up to a specified period. The request and the response thereto shall be made in writing (or any facsimile or cable or telex, which will be provided by a signed confirmatory copy simultaneously). The Earnest Money Deposit provided shall also be suitably extendable. A bidder may refuse the request without forfeiting its bid security. However, a bidder agreeing to the request will not be required nor permitted to modify its bid.

**SETTLEMENT OF DISPUTES**

- 22.1** All disputes between purchaser and the supplier shall be settled by the undersigned. However, the appeal against the decision of Purchaser, in disputes referred to him shall lie with the Secretary / Principal Secretary, Animal Husbandry, Mantralaya, Mumbai-32, Govt.of Maharashtra.
- 22.2** Judicial proceedings, if any, can be started only in Courts of the State of Maharashtra at Pune Court only.
- a. It will be the responsibility of the tenderer to prove beyond doubt his liability for any exemption from paying the Earnest Money Deposit and/or Security Deposit wherever applicable. The tenderer should produce relevant document/certificate from the competent authority in such case.
  - b. All the disputes between indenting agencies and the supplier shall be settled by the undersigned. However, the disputes between the tenderer and the undersigned or the appeal against the decision of undersigned in disputes referred to him, shall lie with the Secretary/Principal Secretary of the Department of Animal Husbandry, Government of Maharashtra.
  - c. Judicial proceedings if any, will be under the jurisdiction of Pune Court.

**22.3 NOTICES**

- 22.3.1 Any notice given by one party to the other pursuant to the tender shall be sent in writing and confirmed in writing to the address specified.
- 22.3.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.

**23 REMOVAL OF DIFFICULTY**

The undersigned shall take such decision to remove difficulties due to ambiguity of provisions in the tender documents or due to provisions which are inconsistent with the objective of this tender.

Commissioner of Animal Husbandry,  
Maharashtra State, Pune-7

## **Annexure – A** **Technical Specifications**

### **PATENT RIGHTS**

The supplier shall at all times indemnify the purchaser, free of cost, against all third-party claims of infringement of patent, trade mark or industrial design right arising from use of the goods or any part thereof in India.

### **24 Country of Origin**

- 3.1 All goods and services supplied under the tender shall have their origin in India or in the countries with which the Government of India has trade relations.
- 3.2 For Purpose of this clause, “origin” means the place where the goods are mined, grown or produced or from which the services are supplied. Goods are produced when, through manufacturing, process and substantial or major assembling of components, a commercially recognized new product result that is substantially different in basic characteristic or in purpose or utility from its components.
- 3.3 The origin of goods and services is distinct from the nationality of the supplier.
- 3.4 The softwares should accompany antivirus software with total security solution.

## **1) Specifications for Triple/Tandem Quadrupole LC-MS/MS System-(Instrument No. 01)**

A Certificate regarding verification of specifications from College of Engineering Pune (COEP) is mandatory. The certificate should indicate that the instrument supplied meets the specified specifications & requirements,

A Bench Top High sensitive Triple/Tandem Quadrupole LC/MS/MS System for pesticides residues, Mycotoxins, antibiotics residues analysis with software to meet global food safety regulations like EU/ USFDA/Japan from Agriculture products, Animal feeds, egg powder, milk products, meat, meat products & animal origin products etc. with following specifications.

- 1 The system sensitivity should meet EU-MRLs of above contaminant residues in different matrix. (Proof document /application note to be enclosed along with technical tender document) The vendor should quote the high-end and latest model (supported by necessary documents of all the available models)
- 2 Triple/Tandem Quadrupole MS/MS System with facility to connect High Performance Liquid Chromatograph using sub 2  $\mu$ m particle size columns for high sensitivity trace level analysis.
- 3 **Mass Range (AMU):** Minimum 5-2000 amu
- 4 **Sensitivity:** High sensitivity analysis of chemicals at <10 ppb (preferably 1-5 ppb) in compliance with EU regulations (1 pg/ul of reserpine on column should produce S/N 10000:1 or better). Scan speed should meet the requirements of the above sensitivities in a large-scale multiresidue analysis.
- 5 **Ion source:** should be capable of handling large batches of complex sample matrix like Agriculture products, Animal feeds, egg powder, milk products, meat, meat products & animal origin products etc. with easy maintenance.
- 6 **Vacuum System:** A robust high efficiency vacuum system with minimum maintenance and utility with low noise level.
- 7 **Quadrupoles:** Quadrupoles having high standards of mechanical tolerances and minimum coefficient of Thermal expansion to ensure highest mass stability to ensure excellent focusing of Ions into all the Quadrupoles for high sensitivity and resolution in both Q1 and Q3.
- 8 **Resolution:** Better than unit mass, FWHH (Full Width Half Height) 0.7 amu or less over the entire Mass Range in both Q1 and Q3 Quadrupoles.

**9 Collision Cell:** Specially designed collision cell to allow use of low dwell times without sacrificing sensitivity and Eliminate Cross-Talk to enable Multiple MRM Transition Studies within a single run.

**10 Dynamic Range:** 4 orders of dynamic range or better

**11 Choice of Different ion Sources to cover all areas of Applications.**

Electrospray Ionization

Atmospheric Pressure Chemical Ionization Source.

Combined source of ESI and APCI is preferred.

**12 Operating Modes:**

Tandem mass spectrometry should have following scan options

- a. Full scan
- b. Selected ion monitoring (SIM)
- c. Product ion scanning
- d. Precursor ion scanning
- e. Neutral loss/gain scanning
- f. Multiple reaction monitoring
- g. Any other

**13. Detector :** The instrument must incorporate photomultiplier / electron multiplier detector with long life.

Dynamic Range: 4 orders of dynamic range or better

The detector must operate in both positive and negative ion modes and must be capable of switching polarity rapidly under digital control.

**14. Nitrogen Generator with compressor:** Should be supplied with system to take care N<sub>2</sub> gas requirement for the entire system.

**15. Targeted, quality control quantification software**

This application software should be in compliance with international regulations as mentioned above. It must flag samples in the browser report when:

- (a) the ion ratios fall out of the range of the user-defined values
- (b) the concentration is below the reporting concentration limit (user input)
- (c) the concentration falls below the minimum recovery % level (user input)
- (d) the concentration falls above the maximum recovery % level (user input)
- (e) the coefficient of determination for a calibration curve falls below a user-set level
- (f) QC samples fall outside a user-defined number of standard deviations from the mean
- (g) the peak of the compound of interest falls below a user defined S/N ratio
- (h) Software should have the database of around 1000 compounds (pesticides, Mycotoxins, Veterinary drug residues, hormones, other environmental contaminants, etc.). The database should contain Molecular formula, Mono isotopic mass, Parent ion, Product ion 1, Collision energy (eV), Product ion 2, sensitivity, etc.

**16. High performance Liquid Chromatography system.**

a. Binary solvent System with Vacuum Degasser, Autosampler, Column Oven. **The complete system and MS should be controlled by single software.**

- b. The system should have the capability to operate the column range from sub 2  $\mu\text{m}$  particles.

**c. Pump :**

- i **Binary Pumps/Solvent Manager,**
- ii **Vacuum degassing capability** Six-channel
- iii **Operating Flow Rate Range** to be 0.010 to 2.000 mL/min, in 0.001 mL increments.
- iv **Effective System Delay Volume** around 600  $\mu\text{L}$  or less, independent of system backpressure (with standard mixer)
- v **Plunger Seal Wash** Integral, active, programmable
- vi **Maximum Operating Pressure** up to 9,000 psi or above
- vii **Composition Accuracy** +/- 0.5% absolute (full scale)
- viii **Composition Precision** 0.15% RSD or +/- 0.04 min SD, whichever is greater, based on retention time
- ix **Flow Precision** 0.075% RSD or +/- 0.02 min RSD, 6 replicates, based on RT (0.500 – 2.000 mL/min),
- x **Flow Accuracy** +/- 1.0% (0.50-2.00 mL/min),

**17. Auto sampler**

- a) **Number of Samples: 100**
- b) **Injection Volume Range** 0.5 – 100  $\mu\text{L}$ , in 0.1  $\mu\text{L}$  increments.
- c) **Sample Delivery Precision** < 0.3% RSD, full loop, 3x overfill, 5-50  $\mu\text{L}$  (default wash/purge conditions, degassed methanol: water 60:40 pre-mix, 1 mL/min, 6 replicates, propylparaben mix, 254nm)
- d) **Injector Linearity** >0.999 coefficient of deviation (from 2-10  $\mu\text{L}$ , partial loop mode using 20  $\mu\text{L}$  loop w/air
- e) gaps)
- f) **Sample Temperature** 4 - 40 deg. C programmable in 1 deg. C increments (ambient temp of 20 deg. C)
- g) **Injection Cycle Time** 45 sec (with single 200  $\mu\text{L}$  leak wash), 60 sec with default dual wash (100  $\mu\text{L}$  strong; 500  $\mu\text{L}$  weak) wash.
- h) **Wash Solvents** Two (2) degassed: strong solvent and sample compatible solvent, programmable to suit application, made available from the Binary Solvent Manager.
- i) **Sample Carryover** < 0.005% or < 2.0 nL, whichever is greater (with dual wash).
- j) **Column Temperature Control** 5 deg. C above ambient to 65 deg. C, 0.1 deg. C increments.
- k) **Total system (including pump & Autosampler) should be capable of operation at above 9000 psi.**
- l) **Column Tracking & Storage** Device should be provided
- m) **Column:** 1) C18 (6 numbers)(High stability, pH range e.g., 2 to 10 with column length of 15 cm (3 numbers) and 5 cm (3 numbers)), 2)Silica (2 numbers), 3) Hilic( 2 numbers) 1.8 micron particle size or less. Each column should be accompanied by a pack of 4 units of guard column.
- n) **Autosampler vials:** 500 vials for liquid injection.

**18. Pre-requisite for the mass spectrometer:** Any other gas cylinder with regulator, purification system, safety certificate, etc. for the working of the LC-MS/MS should be provided for Installation.

**19. Installation and Demonstration:** The LC-MS/MS system should be installed.

Demonstration & Training of system to Lab Personnel at site to be incorporated.

Other accessories like related gases (cylinders with certificates from competent authority)/ gas tubing and installations/ purification panels should be supplied.

**20. Computer and Printer**

A standard make PC with latest processor and operating system with all necessary hardware and operating software required to operate the specified equipment. All hardware and software including drivers, heavy duty duplex laser printer, 21 inch LED color monitor, device interface cards or control cards/ network adaptor card must be preinstalled and pre-configured on the computer provided. The computer must control in an integrated fashion. It should be capable of networking. All the license copies of necessary software (including Windows operating system) should be provided in CD.

Antivirus: Total Security with three year license

Laser printer b/w with back-to-back print facility

**21.** User manual should be provided along with relevant test reports & calibration certificate.

The unit should be manufactured in compliance to GMP standards. IQ, OQ, PQ along with the information manual should be provided with the instrument.

**22.** The supplier must provide training for the users of the instruments, details of the training program must be attached with the tender.

**23. 10 kVa UPS with all accessories to provide at least 2 hours of power backup**

**24.** All consumables required for first 200 tests should be supplied

## **2) Specifications for a GC-MS/MS (Gas Chromatography Mass Spectrophotometry / Mass Spectrophotometry) System for the analysis of pesticide residues in Meat, Milk & other animal origin products & byproducts( Instrument No. 02)**

This instrument specification is for a bench-top mass spectrometer configured for integrated GC/MS/MS analysis of Pesticide residues in meat, meat products, milk & other animal origin products & byproducts as well as for other applications like Persistent Organic Pollutants.

A Certificate regarding verification of specifications from College of Engineering Pune (COEP) is mandatory. The certificate should indicate that the instrument supplied meets the specified specifications & requirements,

Tandem mass spectrometry on space will be considered.

The vendor should quote the high-end and latest model (supported by necessary documents of all the available models)

### **2.1 ION SOURCE**

The mass spectrometer must be able to operate in EI and CI modes

A source isolation valve must be fitted to allow change of ionisation mode (EI /CI/NCI) without breaking instrument vacuum.

A probe vacuum lock must be fitted to allow EI to CI change and insertion of direct insertion probe without breaking instrument vacuum.

Positive and negative ionisation capabilities must be included as standard feature of the instrument.

The inner source housing must be isolated to allow rapid source maintenance without the need to vent the system

GC Interface: Simple, robust, GC re-entrant tube capable of heating to 350 °C. The re-entrant and heater is held entirely in high vacuum minimising heat losses and reducing hot or cold spots

### **2.2 MASS ANALYSER**

The instrument must incorporate a high performance mass analyser.

For triple quadrupole system, the instrument must incorporate two quadrupole mass analysers (MS1 and MS2) each having a mass (m/z) range up to at least 900 amu. The resolving quadrupoles must be fitted with quadrupole pre-filters to maximise resolution and transmission and also to protect the resolving quadrupoles from contamination.

All lenses and analyser voltages must be digitally controlled

The analysers must be supplied with RF using solid-state RF generators.

### **2.3 COLLISION CELL**

A high efficiency, RF device with beam focusing at ion entry and exit must serve as the collision cell. Collision energy must be digitally controlled with possibility of monitoring the collision cell gas pressure.

Collision gas introduction and pump out must be through data system control. Collision gas pressures used during data acquisition must be automatically appended to the relevant data file.

### **2.4 DETECTOR**

The instrument must incorporate photomultiplier or electronmultiplier detector.

The detector must operate in both positive and negative ion modes.

The detector must have a digital dynamic range of at least 4 order and should have long life



## **2.5 VACUUM SYSTEM**

The instrument must incorporate a clean differentially pumped, automated vacuum system. There must be air-cooled turbomolecular pumps evacuating the source & analyzer. An external, chilled water supply must not be required for the vacuum system. Vacuum read backs and system vent/pump cycles must be digitally monitored and controlled, to provide total software control and to ensure safe operation in the event of power failure.

## **2.6 GC AND ANCILLARY DEVICES**

Fast GC of highest specification, with control of Gas Chromatograph within the MS acquisition software. Control over the autosamplers must be provided through the MS acquisition software. Autosampler should be of 100 vials. It should have backflush facility.

**Autosampler:** Liquid, Dynamic Headspace.

**Autosampler** vials: 500 vials for liquid

PTV-large volume injection 0-100 psi

The MS acquisition software must incorporate an inlet configuration wizard that allows the user to easily configure their specified GC system.

External contact start/stop/events must be provided to the rear of the instrument via a user I/O board.

The GC oven and transfer line should operate from ambient temperature up to 350 °C.

Capillary column (30 meter, polysiloxane with 5% phenyl substitution) (6 numbers). Guard column (2 numbers) of 30 meters each with connector.

GC autosampler syringes (6 numbers).

## **2.7 Gas Chromatograph.**

### **Injector Modules**

- Split/Splitless and PTV-large volume injection (including on-column) should be available
- It should have an Integrated backflush optional for both S/SL and PTV
- It should have 1000 kpa digitally controlled carrier gas with gas saver and septum purge

### **Autosampler**

- The AS should have at least 100 sample positions for 2 ml vial capacity

### **Oven Temperature**

- The Operating temperature Range should be 3 °C above ambient to 450 °C

### **Oven Ramps/Plateaus Cool down**

- It should have number of ramps/plateaus: more than 10
- the maximum heating rate should be 100 °C/min or better

### **GC Analytical Performance**

- The GC should have a Retention Time Repeatability of <0.0008 min or better
- The Peak Area Repeatability should be <0.5 % RSD or better

## 2.8 SOFTWARE

The PC must be configured with a Microsoft Windows operating system, featuring a graphical user interface with multiple windows, pull down menus and toolbars. The MS control software must be a Windows based platform and have the ability to control both the MS and specified GC and autosampler devices.

A fully synchronised real time data display within a window on the monitor must be provided for ion beam and instrument display

It must be possible to acquire spectral data in a multi channel analysis (MCA, profile) data mode.

It must be possible to acquire spectral data by MS selected ion recording (SIR).

It must be possible to acquire spectral data by MS-MS precursor scanning (parent).

It must be possible to acquire spectral data by MS-MS product scanning (daughter)

It must be possible to acquire spectral data by MS-MS neutral loss and neutral gain scanning.

It must be possible to acquire spectral data by MS-MS multiple reaction monitoring (MRM)

Latest NIST spectral library to be supplied along with the instrument.

### **a) Targeted, quality control quantification software**

Software for quantitative applications having the additional requirement of Quality Control (QC) checks to satisfy statutory or regulatory requirements must be available.

Data can be full scan, SIR/SIM or MRM.

Data Acquisition, Peak Integration, Calibration, Quantification and QC calculations must be fully automated.

Quantification and QC parameters must be stored for each compound and individually selected and loaded into new methods.

The quantification method editor must be viewable in page view or as a spreadsheet

**Software must allow the monitoring of the molecular ion plus up to 4 confirmatory ions.**

**Software must flag samples in the browser report when:**

- (h) the ion ratios fall out-with the user-defined values
- (i) the maximum blank acceptance level (user input) has been exceeded
- (j) the maximum concentration limit (user input) has been exceeded
- (k) the concentration is below the reporting concentration limit (user input)
- (l) the concentration falls below the minimum recovery % level (user input)
- (m) the concentration falls above the maximum recovery % level (user input)
- (n) the coefficient of determination for a calibration curve falls below a user-set level
- (o) QC samples fall outside a user-defined number of standard deviations from the mean
- (p) the peak of the compound of interest falls below a user defined S/N ratio

QC parameters should include:

- Up to six ion ratios with automated batch to batch up-date.
- Retention time tolerance with automated batch to batch up-date.
- Signal to noise ratio.
- Per cent recovery calculation.
- Calculation of variation in response factor.

**Software should fulfil analyte confirmation requirements in food analysis when analyzing for regulated pesticide or antibiotic residues**

Software should provide exceptional efficiency for the location, peak detection and generation of 'clean' mass spectra of closely eluting components in complex mixtures with the ability to retain exact mass measurements where available through a chromatographic deconvolution algorithm.

Software should provide:

- Automatic deconvolution of complex chromatograms
- A list of unique (or common) components
- Deconvoluted mass spectra
- Automatic library searching against commercially available libraries
- Comparison of deconvoluted chromatograms
- Semi-quantitative reporting of deconvoluted component concentrations
- 

## **2.9 PERFORMANCE SPECIFICATIONS**

### **SCAN SPEED**

The instrument must have a maximum scan speed of 5000 amu/second.

### **MASS RANGE**

Up to 900 amu or above

### **COLLISION ENERGY**

The collision energy is programmable up to 120V

### **MASS STABILITY**

The instrument must exhibit a mass drift of less than 0.1Da in 8 h.

### **LINEARITY OF RESPONSE**

The linearity of response relative to sample concentration, for a specified compound, must be at least 4 orders of magnitude from the limit of detection.

### **MRM / SIR ACQUISITION TIMES**

The instrument must be capable of acquiring data in MRM or SIR mode using a minimum dwell time of 10 ms per channel with inter-channel delay and the inter-scan delay set at 10 ms.

### **MRM SIGNAL-TO-NOISE**

EI-MRM Instrument detection limit (IDL) of 6 fg or less of octafloronaphthalene (1ul injection of 10 fg/ul octafloronaphthalene standard) for MS/MS transition of m/z 272>222.

EI-MRM S/N 1 ul of 100 fg/ul of ofn produces more than 5000:1 S/N for transition m/z 272>222.

1 ul of 5 pg/ ul benzophenone produces more than 2500: 1 S/N for transition 183>105 using methane as reagent gas.

The measured signal-to-noise ratio obtained from the mass chromatogram of the daughter ion at m/z 105 generated in MRM, CI+ mode, on injection of 2pg benzophenone onto a capillary column will be greater than 100:1 RMS.

### **Gas Cylinder**

Four Helium and two Methane gas cylinders of highest volume (approximately 45 to 50 litres) and highest purity, each with switching over facility with valve and pressure guage regulator and purification system. In case Argon or any other gas is used, two cylinders of highest volume each with switching over facility with valve and pressure guage regulator and purification system should be provided.

## **2.10 Computer and Printer**

A standard make PC with latest processor and operating system with all necessary hardware and operating software required to operate all the specified equipments. All hardware and software including drivers, heavy duty duplex laser printer, 21 inch LED color monitor, device interface cards or control cards/ network adaptor card must be preinstalled and pre-configured on the computer provided. The computer must control in an integrated fashion.

It should be capable of networking. All the license copies of necessary software (including Windows operating system) should be provided in CD.  
Antivirus: Total Security with three year license.  
Laser printer b/w with back-to-back print facility

**2.11 User List:** Installation in reputed International Reference laboratories to be cited.  
Published papers (Food safety application) to be attached along with Technical Bid.

**2.12** The unit should be manufactured in compliance to GMP standards. IQ, OQ, PQ along with the information manual should be provided with the instrument. User manual should be provided along with relevant test reports & calibration certificate.

**2.13** The supplier must provide training for the users of the instruments, details of the training program must be attached with the tender.

**2.14 10 kVa UPS with all accessories to provide at least 2 hours of power backup**

**2.15** All consumables required for first 200 tests should be supplied.

### **3) AAS (ATOMIC ABSORBANCE SPECTROPHOTOMETER )** **(Instrument No. 03)**

**Purpose:** Residual Analysis of heavy metals Iron, Lead, Arsenic, Mercury, Copper, Selenium, Zinc, Aluminium in meat, meat products, milk & products & byproducts of other animal origin.

A Certificate regarding verification of specifications from College of Engineering Pune (COEP) is mandatory. The certificate should indicate that the instrument supplied meets the specified specifications & requirements. The vendor should quote the high-end and latest model (supported by necessary documents of all the available models)

#### **Specification:**

#### **3.1 Specifications: AAS**

We intend to purchase AAS with following specifications:

- 3.1.1 Real Time Double Beam Spectrometer with Wavelength Range 180 - 900 nm.
- 3.1.2 Diffraction grating with 1800 lines used as single/dual blazed with sensitivity of 0.9 absorbance for 5 ppm copper solution and high monochromator efficiency.
- 3.1.3 Spectral bandwidths of 3 different types programmable through software using auto slit selection mode.
- 3.1.4 Six Lamps position Automatic Turret with computer controlled lamp selection, its alignment and automatic optimization of energy using Coded Lamps. Built-in power supply to enhance Lamp capability. All 8 lamps required for analysis of heavy metals Iron, Lead, Arsenic, Mercury, Copper, Selenium, Zinc, Aluminium should be as per GMP compliance.
- 3.1.5 Real Time Double Beam System for automatic compensation for changes in instrumental parameters for high signal stability and performance to offer excellent signal-to-noise ratio.
- 3.1.6 The system with built-in Atomizer for both Flame and Graphite Furnace and user can select any one of them through software.
- 3.1.7 Longitudinal AC backgrounds correction using magnetic field. The furnace tube shall be transversely heated type or similar.
- 3.1.8 The Detector used shall be Solid-State/Photo Multiplier Tube Detector.
- 3.1.9 Total Gas Flow Control System maintains gas flows (Ratio of fuel/oxidant) at set levels to ensure excellent Flame stability and performance.
- 3.1.10 Automatic Gas Flow adjustment during change over between air  $C_2H_2$  and  $N_2O$ .
- 3.1.11 All safety interlocks built-in and additional feature like Burner Head Interlock, Nebulizer/End Cap Interlock, and Drain Interlock to be built-in.
- 3.1.12 Computer controlled motorized burner adjustments with highest precision and reproducibility for adjustment of Flame position in light path as well as fully automatic adjustment of Burner Head. The height of Burner Head to be stored with method file.
- 3.1.13 Integrated Graphite Furnace to utilize fully STPF Technology like Pyrolytically coated Tubes with integral platform, fast heating rates, fast electronics, Argon gas stop flow during atomization, True Temperature Control (TTC) through out entire temperature range, Automatic Baseline Offset correction for obtaining accurate peak area measurements to be built-in.
- 3.1.14 Adjustable Nebulizer which can take analysis with acids, corrosive samples including HF.
- 3.1.15 Carbon filled PPS Spray Chamber to analyze all types of samples, both organic as well as acids.
- 3.1.16 Fully Computer Controlled Spectrophotometer and all major accessories including Graphite Furnace, Burner Heads, Auto sampler etc under software control capable of

analysing all 8 hydride elements (Iron, Lead, Arsenic, Mercury, Copper, Selenium, Zinc, Aluminium ) in single unit.

- 3.1.17 Integral Furnace Auto sampler with Graphite Furnace for 60 or more samples, sample delivery up to 50 µL with increment of 0.1 µL, automatic replicate analysis and automatic dilution.
- 3.1.18 Automatic hydride system with heated quartz cell capable of analyzing all hydride elements in single instrument. Accessory for flame and Microwave digestion system for sample digestion.
- 3.1.19 Windows based Software for system function including control of major accessories, both of single element or multi-elements methods for Flame / Graphite Furnace. Auto parameter selection for method development, automatic selection of stored methods, automatic selection of flame conditions, Graphite Furnace and MHS Techniques, Burner Head position is stored with method, auto optimization of flame, on-line sensitive context help, user selectable statistics for SD / RSD, built-in reporting user format, mouse operation, software available in CD form etc.

### **3.2 Specifications: Microwave Digestion System**

- 3.2.1 Vessel type : 40 Rotor Assembly. 8 vessels to be offered in the main
- 3.2.2 Power : Unpulsed Microwave power from 0 to 1400 W using 1 to 2 magnetrons.
- 3.2.3 Built-in cook-book methods at least for 150 samples including EPA methods.
- 3.2.4 Oven Capacity : 40 liters or above.
- 3.2.5 Built-in software with screen display for Temperature, weight, method search, power profile, method set-up etc.
- 3.2.6 Medium or higher pressure vessels for 16 nos. to be included in the offer.
- 3.2.7 TFM type vessel (50 to 100 ml capacity) to be quoted which can withstand up to 70 bars working pressure and 240°C temperature.
- 3.2.8 Pressure and temperature sensor of immersing type/probe/contact free for one reference to be included in the offer and the same should be provided of control using transducers and gas bulb respectively with wireless transmission.
- 3.2.9 Built-in integrated cooling system for removal of gases (vapours) and cooling of vessel without a use of external chiller/thermostat in less than 20 minutes.
- 3.2.10 Various safety features incorporated in the basic system to be specified.
- 3.2.11 Spares and consumables like seals, metal safety disk to be included in the offer.

#### **3.2.12 Computer and Printer**

A standard make PC with latest processor and operating system all necessary hardware and operating software required to operate all the specified equipments. All hardware and software including drivers, heavy duty duplex laser printer, 21 inch LED color monitor, device interface cards or control cards/ network adaptor card must be preinstalled and pre-configured on the computer provided. The computer must control the in an integrated fashion. It should be capable of networking. All the license copies of necessary software (including Windows operating system) should be provided in CD.

Antivirus: Total Security with three year license.

Laser printer b/w with back-to-back print facility

### **3.3 Important Note**

- 3.3.1 The system should be supplied with Acetylene gas, Nitrous Oxide gas & Argon gas (cylinders with certificates from competent authority)/ gas tubing and installations/ purification panels), suitable Hydride vapor Generator, microwave digestion system (latest model for the purpose of digestion of different types of samples of animal origin, pharmacy or agro products) standards of trace elements mentioned above should also be provided.
- 3.3.2 User manual should be provided along with relevant test reports & calibration certificate.
- 3.3.3 The unit should be manufactured in compliance to GMP standards. IQ, OQ, PQ along with the information manual should be provided with the instrument.
- 3.3.4 The supplier must provide training for the users of the instruments, details of the training program must be attached with the tender.
- 3.3.5 All consumables required for first 200 tests should be supplied.

## **4)Digital Colony counter (Instrument No. 04)**

A Certificate regarding verification of specifications from College of Engineering Pune (COEP) is mandatory. The certificate should indicate that the instrument supplied meets the specified specifications & requirements,

### **4.1 General Specifications :**

4.1.1 The housing should be constructed with heavy gauge Stainless Steel LM-304 grade and finished attractively .A counting plate with Wolf –hugel ruling should be fitted with magnifying glass on front slope.

4.1.2 Colony Counter Type : Desk.

4.1.3 Maximum Count : 9,999

4.1.4 Circular tube , powerful lens with magnification up to 2x

4.1.5 Fast & Accurate count .

4.1.6 Marker pen for marking & counting simultaneously.

4.1.7 Manual count switch for counting without ‘Marker Pen’

4.1.8 LED display with audio beep at every count

4.1.9 Woulffhuegel grid glass plate.

### **4.2. ACCESSORIES:**

Petriplate adapter

### **4.3. Important Note**

4.3.1 User manual should be provided along with relevant test certificate for S.S. LM - 304 & calibration certificate.

4.3.2 The unit should be manufactured in compliance to GMP standards & with acrylic cover. IQ, OQ, PQ along with the information manual should be provided with the instrument.



## **5) Laminar Air Flow vertical (Bio-safety).(Instrument No. 05)**

**Purpose :** 1. Carrying out the Aerobic , Anaerobic cultural work in Aseptic conditions preventing the flow of biological effluents to atmosphere.

A Certificate regarding verification of specifications from College of Engineering Pune (COEP) is mandatory. The certificate should indicate that the instrument supplied meets the specified specifications & requirements,

### **Specifications:**

#### **5.1 Construction:**

- 5.1.1 Exterior as well as Interior construction should be made up of stainless steel LM 304 grade
- 5.1.2 Internal dimensions (L X W X D): 6'X 2'X2'.
- 5.1.3 ULPA filter (with 99.99% efficient at 0.3µm particles) should be installed as a main filter.
- 5.1.4 HEPA filter (with 99.97% efficient at 0.3µm particles) with unit one should be installed as an exhaust filter.
- 5.1.5 Pre-filter with unit two, 95% efficient at 5 microns
- 5.1.6 Should provide class 100 environment
- 5.1.7 Equipped with analog manometer.
- 5.1.8 High efficiency UV light with strong germicidal power should be provided which should disinfect environment in 30 minutes.
- 5.1.9 Should be fitted with gas and air connections plus electrical sockets for connections to external equipment.
- 5.1.10 Front window should be made of tempered safety glass which enhances UV protection for operators.
- 5.1.11 Fluorescent tube light & Counter balanced sliding glass door should ensure clear view of work area.
- 5.1.12 Should be provided with castor wheels for ease of mobility.
- 5.1.13 Should have specialized sound absorbing materials reducing noise significantly.
- 5.1.14 Gas connection & 2 taps connection
- 5.1.15 Should have independent ON / OFF switch for blower, fluorescent lamp & UV lamp with visual status indication.
- 5.1.16 Should be equipped with analog manometer

#### **5.2 Controlling system:**

- 5.2.1 LCD microprocessor based controller with filter change alarm.
- 5.2.2 Adjustable blower speed in 9 steps.

#### **5.3 Safety Features:**

- 5.3.1 Tempered safety glass which enhances UV protection for operators.

#### **5.4 Important Note**

- 5.4.1 User manual should be provided along with relevant test certificate for S.S.LM - 304 & calibration certificate.
- 5.4.2 The unit should be manufactured in compliance to GMP standards.  
IQ,OQ,PQ along with the information manual should be provided with the instrument.

## **6) Solid Phase Extraction Unit (Instrument No.6)**

**Purpose :** To prepare extracts of the samples for residual analysis in Meat, meat products, Milk & other animal origin products & byproducts .

A Certificate regarding verification of specifications from College of Engineering Pune (COEP) is mandatory. The certificate should indicate that the instrument supplied meets the specified specifications & requirements, The vendor should quote the high-end and latest model (supported by necessary documents of all the available models)

**6.1. Specifications:** System should have Microprocessor controlled fully automated solid phase extraction, should allow to perform Sequentially one to ten samples per module or can simultaneously process up to Ten samples in ten-module workstation (i.e. up to 100 samples) by applying Positive pressure using 1, 3 and 6 ml SPE cartridge Alternatively, semi-automatic SPE system should be quoted. The system should do the following (excluded for semi-automatic if not applicable):

- 6.1.1. Process one to ten samples per module in serial mode (each module completes One sample at a time)
- 6.1.2. Link multiple procedures into one automated run.
- 6.1.3. Automated reagent mixing
- 6.1.4. Control flow rates for each step in the procedure.
- 6.1.5. Segregate up to three types of wastes from the column and one type from the Cannula.
- 6.1.6. Program individual modules and even individual samples with different conditions.
- 6.1.7. Windows based software with full validation documents (DQ, IQ, OQ, PQ)
- 6.1.8. Perform drying of the SPE column using nitrogen gas.
- 6.1.9. Store Methods in the Controller can be instantly recalled and to be transferred to other workstation.
- 6.1.10. Should have provision for eight solvent lines for maximum method flexibility.
- 6.1.11. Number of Samples can be processed per module: 10 samples per min.
- 6.1.12. Number of Solvent Reagents that can be used: 8 nos per min.
- 6.1.13. SPE Cartridge 1, 3, 6 ml (500 numbers each)
- 6.1.14. Test tubes: Sample tubes 13-16mm x 100mm (max vol 9ml)  
Fraction tubes 12mm x 75mm (max vol 5ml)
- 6.1.15. Dispense volume: 0.1ml to 6ml
- 6.1.16. Load volume: 0.1ml to 5.8ml
- 6.1.17. SPE flow rates: 0.006ml / sec to 0.7ml /sec
- 6.1.18. Mixing capability: Cycle mixing,
- 6.1.19. Max mixing volume of 5.0ml in the mixer.
- 6.1.20 **Computer and Printer (not applicable for semi-automatic system)**

A standard make PC with latest processor and operating system with all necessary hardware and operating software required to operate all the specified equipments. All hardware and software including drivers, heavy duty duplex laser printer, 21 inch LED color monitor, device interface cards or control cards/ network adaptor card must be preinstalled and pre-configured on the computer provided. The computer must control in an integrated fashion. It should be capable of networking. All the license copies of necessary software (including Windows operating system) should be provided in CD.

Antivirus: Total Security with three year license

Laser printer b/w with back-to-back print facility

## **6.2 Important Note**

6.2.1. User manual should be provided along with relevant test reports & calibration certificate.

6.2.2. The unit should be manufactured in compliance to GMP standards & with acrylic cover.

IQ,OQ,PQ along with the information manual should be provided with the instrument.

**Annexure – B**

**COMMERCIAL ENVELOPE - C<sub>1</sub>**

**Triple/Tandem Quadrupole Liquid Chromatography – Mass Spectrophotometry / Mass Spectrophotometry System**

Instrument No.	Name of the Instrument	All inclusive Cost in Rupees
1	2	3
1	Triple/Tandem Quadrupole Liquid Chromatography – Mass Spectrophotometry/ Mass Spectrophotometry System	

Total bid price in Rupees in words :

.....

Place :

Date :

Signature of bidder

Name

Business address

**Annexure – B**

**COMMERCIAL ENVELOPE – C<sub>2</sub>**

**Gas Chromatography Mass Spectrophotometry / Mass Spectrophotometry System**

Instrument No.	Name of the Instrument	All inclusive Cost in Rupees
1	2	3
2	Gas Chromatography Mass Spectrophotometry / Mass Spectrophotometry System	

Total bid price in Rupees in words :

.....

Place :

Date :

Signature of bidder

Name

Business address

**Annexure – B**

**COMMERCIAL ENVELOPE - C<sub>3</sub>**

**Atomic Absorption Spectrophotometer**

Instrument No.	Name of the Instrument	All inclusive Cost in Rupees
1	2	3
3	Atomic Absorption Spectrophotometer	

Total bid price in Rupees in words :

.....

Place :

Date :

Signature of bidder

Name

Business address

**Annexure – B**

**COMMERCIAL ENVELOPE - C<sub>4</sub>**

**Digital Colony Counter**

Instrument No.	Name of the Instrument	All inclusive Cost in Rupees
1	2	3
4	Digital Colony Counter	

Total bid price in Rupees in words :

.....

Place :

Date :

Signature of bidder

Name

Business address

**Annexure – B**

**COMMERCIAL ENVELOPE - C<sub>5</sub>**

**Laminar Air Flow Vertical Bio Safety**

Instrument No.	Name of the Instrument	All inclusive Cost in Rupees
1	2	3
5	Laminar Air Flow Vertical Bio Safety	

Total bid price in Rupees in words :

.....

Place :

Date :

Signature of bidder

Name

Business address



**Annexure – B**

**COMMERCIAL ENVELOPE - C<sub>6</sub>**

**Solid Phase Extraction Unit**

Instrument No.	Name of the Instrument	All inclusive Cost in Rupees
1	2	3
6	Solid Phase Extraction Unit	

Total bid price in Rupees in words :

.....

Place :

Date :

Signature of bidder

Name

Business address

**Annexure – C**  
**DECLARATION OF THE TENDERER**

1. That I/We ..... am/are the Director/ Proprietor of the firm .....
2. Having examined the above mentioned bidding documents, including amendments/addenda, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply and deliver ..... (name of instrument & country of origin) in conformity with the said bidding documents attached herewith in “Technical Tender Envelope” and made part of this bid, for the sum as shown in the price schedules given separately in “Commercial Tender Envelope”.
3. That I/We hereby submit tender to the Commissioner, Animal Husbandry, Maharashtra State, Pune-7 for the Supply for the year 2013-15.
4. That I/We have read the terms and conditions as mentioned in this tender form carefully and that I shall/we will abide by all the terms and conditions contained therein.
5. We undertake, if our bid is accepted, to deliver the goods and complete the services in accordance with the delivery schedule specified after fulfilling all the applicable requirements incorporated in the above referred bidding documents.
6. If our bid is accepted, we will provide you with performance Bank Guarantee (PBG) as per the instructions for three years renewable every year/one time for three years.
7. We accept all terms & conditions of this bid & agree to abide by this bid .
8. Until a formal MOU is prepared and executed, this bid together with your written acceptance there of and your notification of award, shall constitute a bidding MOU between us.
9. That I am/we are well acquainted with the facts about the firm and the information provided in the tender form is true and correct.
10. I/we may be punished as per law for any wrong information misleading facts provided in the tender form, besides rejection of my/our tender.
11. In case of any disputes, the jurisdiction will be Pune city.
12. Force majeure conditions contained in the manual of office procedure for purchase of store for Government Departments 1978, page No. 99, Appendix-xxxi, is accepted by the Company.
13. I/We am/are bound to supply of best quality and workmanship and shall be strictly in accordance with the specifications and particulars contained/mentioned in the ANNEXURE-A, during the period of validity of the tender. I/we hereby guarantee that the said goods/stores/articles supplied by me/us during the period of validity of the tender, would continue to confirm to the description and quality aforesaid during the warranty period.
14. I/we am/are bound to supply the indented item within 60 days or as specified by the indenting authority.
15. We understand that you are not bound to accept the lowest or any bid you may receive.

I have carefully read the general & specific terms and condition of the tender for supply for six months from date of signing the tender agreement and I, solemnly declare that the terms & conditions are acceptable to me and binding on me. Place :

Date :

Signature of Tenderer  
(Seal)

## Annexure – D

### **CHECK LIST/QUESTIONNAIRE** (To be kept in Envelope No.1)( To be filled by the Tenderer only )

**Any omission of the compulsory documents listed below will make the tender liable for rejection. You may attach other information as stated in the list and number the same pages**

Sr. No.	Description	Whether attached	Page No.
1	Check Slip	Yes/ No	1
2	a) Earnest money deposit- D.D No.....	Yes/ No	
	b) If earnest money deposit not enclosed give reasons with copy of Reason-----	Yes/ No	
3	Duly Signed Declaration of the Tenderer(Supplier)/ OEM	Yes/ No	
4	a) Authentic Product catalogue &/or information Brochure (with instrument & tender specifications highlighted )	Yes/No	
	b)Detailed Specifications of the items quoted for	Yes/No	
5	a)Manufacturer's License/Certificate of Distributorship or Dealership	Yes/No	
	b) Manufacturer's Authorization Certificate	Yes/No	
	c)OEM's declaration about acceptance of all the terms and conditions of this tender.	Yes/No	
6	Performance certificates of instrument which supplier is bidding for, issued by the customers or user list of the instrument quoted for (if any)	Yes/ No	
7	Authentic Product Catalogue specifically for the item quoted and Information Brochure	Yes/ No	
8	Prerequisite for installation of instruments.(Especially for instruments no.1,2,3)	Yes/ No	
9	Duly signed terms & conditions along with Tender form	Yes/ No	
10	Copy of Demand Draft for purchase of tender form	Yes/ No	
11	Sales Tax Registration Certificate/TIN	Yes/ No	
12	Warranty Certificate	Yes/No	
13	Annual Report of last year	Yes/ No	
14	Audited Financial Statement of last year	Yes/ No	

1 Bid No .....

2 Offer is open for acceptance: .....

3 Brand of goods offered: .....

4 Name & address of manufacturer: .....

5 Station of Manufacture: .....

6 Permanent Income Tax A/C No.: .....

7 Status-

(a) Are you currently registered with the Directorate General of Supplies & Disposals (DGS&D) for the item(s) quoted? If so, indicate the date up to which you are registered and whether there is any monetary limit on your registration.

(b) Are you a small scale unit currently registered with the National Small Industries Corporation (NSIC) under Single Point Registration Scheme for the item(s) quoted? If so, indicate the date up to which you are registered and whether there is any monetary limit on your registration with the type of items & services you are registered.

8 Whether you are :

i Manufacturer of the goods quoted, or

ii Manufacturer's authorized agent for the goods quoted.

9 State whether business dealing with you has been currently banned by any Ministry / Dept. of Central Govt. or any State Govt. or any Govt. agency.

Signature of Bidder

Full name, designation & address  
of the person signing above

For and on behalf of M/S.....(Name and address of the  
bidding form)

**Annexure-E**  
**ORIGINAL EQUIPMENT MANUFACTURER'S AUTHORISATION FORM**

To,  
The Commissioner Animal Husbandry,  
Maharashtra State,Pune-7.  
Dear Sir,

Ref. your Bidding Documents No.....

We, ..... who are established and reputable manufacturers of ..... (name and description of the goods offered in the bid) having factories at ..... , have read the bid documents & hereby authorize M/S ..... (name and address of the agent) to submit a bid, negotiable (as and if necessary) and conclude the tender with you against your above mentioned Bidding Documents for the above goods manufactured by us.

No company or firm or individual other than M/S. .... (name and address of the above agent) is authorized to bid, negotiable and conclude the tender against this specific Bidding Document for the above mentioned goods manufactured by us.

We hereby extend our full warranty as per the General Conditions of tender, read with modification, if any, in the Special Conditions of tender for the goods and services offered for supply against this Bidding Document by the above firm.

Yours faithfully

.....  
.....

[signature, name and designation]

for and on behalf of M/S.....

[name & address of the manufacturers]

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 power of attorney to legally bind the manufacturer.