



27 Oct 2019

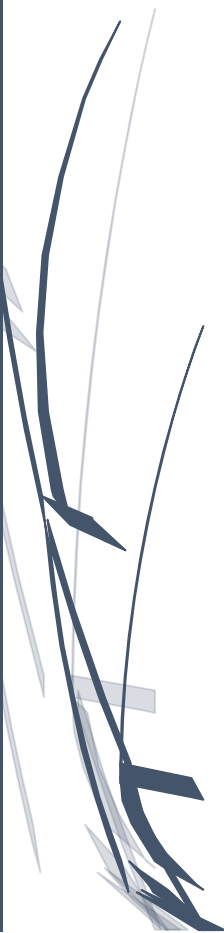
## Procurement of LC MS/MS Systems for Quality Evaluation Laboratories of Spices Board

File No. SB/QEL/KOCHI/LCMSMS/2019

Date: 27-11-2019

MSTCL Tender No. SPICEB/19-20/ET/6

[HINDI VERSION WILL FOLLOW](#)





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## TENDER NOTICE

File No. SB/QEL/KOCHI/LCMSMS/2019

Date: 27-11-2019

Spices Board, Ministry of Commerce, Govt. of India is inviting bids through e-tendering system under the *single stage: two bid* system (separate technical and commercial bids) from eligible bidders for the supply, installation and commissioning of state-of-the-art LC-MS/MS Systems for **three** of the Board's Quality Evaluation Laboratories situated at Kochi, Chennai and Kolkata.

The tender document with details of technical requirements and terms & conditions for this tender are available for download in the Spices Board's Website ([www.indianspices.com](http://www.indianspices.com)), Government e-procurement portal (<https://etenders.gov.in/e procure/app>) and MSTCL e-procurement portal (<https://www.mstcecommerce.com/>). **The tenders have to be submitted online via MSTCL e-procurement portal.**

Last date for submission of the bids online via MSTCL website is 5:00PM on **27-12-2019**. All bids must be submitted online along with all necessary documents uploaded as PDF file, as detailed in the specifications and terms & conditions outlined in the tender document. The bids are required to be submitted online in two separate parts, i.e. technical bid and financial bid. The Technical bid will be opened at 10:00AM on **30-12-2019** at the Spices Board Head Office. The financial bids of bidders whose technical bids get qualified would be opened at a later date.

Sd/-  
SECRETARY  
SPICES BOARD, KOCHI

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**225491/2019/QUALITY LAB**  
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The Spices Board is an autonomous body under the Ministry of Commerce and Industry (Govt. of India) with a mandate to promote the export of spices and spice products from India. Quality Evaluation Laboratory of the Board at Kochi was established in 1990, to evaluate the quality of the spices produced in different producing centres across the country, to assess the quality and safety of spices and spice products exported from India, and to render analytical service to the stakeholders in spice sector, viz. exporters, traders, farmers, research organizations etc.

#### IV. Job Description

Spices Board is inviting bids through e-procurement system at MSTCL e-commerce website (<https://www.mstcecommerce.com>), in a two-bid system in separate covers (i.e. Technical bid and Financial bid, online submission) from eligible bidders for the supply, installation and commissioning of modern LC-MS/MS Systems (3 numbers) to Quality Evaluation Laboratories (hereafter QELs) situated at Kochi, Chennai and Kolkata (one instrument each). Please refer to Appendix 1 for more details on online MSTCL online e-procurement system. The tender document can also be downloaded from the Board's website at [www.indianspices.com](http://www.indianspices.com).

Interested bidders may obtain further information from the Head office of Spices Board at the address given below from 10:00 to 17:00 hrs. (IST) on all working days:

Quality Evaluation Laboratory

Spices Board

(Ministry of Commerce, Govt. of India)

Sugandha Bhavan, N. H Bypass,

Palarivattom PO, Kochi - 682025, Kerala

Ph: 04842333610 - 616, Ext. 270, Email: [gel.sb-ker@gov.in](mailto:gel.sb-ker@gov.in)

Detailed tender document may be downloaded from procurement portal <https://www.mstcecommerce.com>, or from Spices Board Website, [www.indianspices.com](http://www.indianspices.com).

**Deadline for submission of bids:** The bids shall be submitted online at <https://www.mstcecommerce.com> after logging in as a 'bidder', and following the instructions appearing on the screen. Also refer to **Appendix 1** of this tender document for more details for submitting the bids online. The bidder should go through the tender document carefully and prepare the technical bid supporting document as specified in the tender document in PDF form, and uploaded along with the technical bid. Incomplete / inappropriate supporting documents can cause the bid to be rejected. The bidder is requested to go through all the terms and conditions of the tender before submitting their offer.

Deadline for submission of bid: **5:00PM on 27-12-2019**. The tender fee has to be paid by the bidder at MSTC website (pl refer Appendix 1). The EMD has to be received in original as detailed in the EMD section below, and a scanned copy of the EMD has to be included in the supporting document PDF.

Tenders are invited for the supply, installation and commissioning of three LC MS/MS systems, the technical specifications of which are mentioned in Annexe 1 of this document, at the Board's Quality Evaluation Laboratories situated at Kochi, Chennai and Kolkata. The contact details of these laboratories are given below.

<b>Scientist C &amp; Head,</b> Quality Evaluation Laboratory, Spices Board, Sugandha Bhavan, NH Bypass, Palarivattom PO, <b>Kochi</b> – 682025 Ph: 0484 2333 610 to 616 Email: <a href="mailto:srilatha.cm@nic.in">srilatha.cm@nic.in</a>	<b>Scientist C,</b> Quality Evaluation Laboratory, Spices Board, Plot no. R-11, SIPCOT Industrial Estate, North End Road, Gummudipundi, Thiruvallur District, <b>Chennai</b> – 601 201 Ph: +91 9987048447 Email: <a href="mailto:ranjith.a@nic.in">ranjith.a@nic.in</a> , <a href="mailto:sbqelchennai@gmail.com">sbqelchennai@gmail.com</a>	<b>Scientist A,</b> Quality Evaluation Laboratory, Spices Board, C/o Project Site District Head Quarter South, 24, Paraganas at Barvipur, JL No. 48, LR Khatian No. 1311, Mouza Chakarbar, Po and PS Baravipur District Sout 24-Paraganas, <b>West Bengal</b> 700 144 Ph: +91 97468 64939 Email: <a href="mailto:venugopal.g@nic.in">venugopal.g@nic.in</a>
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## VI. Eligibility Criteria

1. The bidder shall be an agency having minimum financial turnover of Rs. 5 crore and above in the relevant business in a financial year, during the last three years commencing from 2016-17. The bidder shall submit **audited balance sheet** for the last 3 years.
2. The bidder should have **minimum experience of 5 years** in the relevant field (supply and service support of high-end chromatography and mass spectrometry systems). Proof for the same shall be submitted with the technical bid (Eg. Copies of purchase orders during the relevant period, 2014-2019).
3. The bidder should have supplied and installed at **least 3 numbers** of same / similar equipment in India within the last three calendar years. Details are to be provided in **Annexure 4**.
4. The bidder shall submit copy of **GST registration and PAN Card** with the technical bid.
5. The bidder should not have been blacklisted by any government organizations in India. A declaration in this regard should be submitted along with the technical bid (**Annexure 5**).
6. The bidder should have adequate number of technically qualified personnel essential for the successful installation and service support for the quoted instrument. A list of technically qualified personnel available and responsible for providing service support at the installation locations (Kochi, Chennai and Kolkata) should be submitted along with the technical bid (**Annexure 6**).
7. The bidder should submit an undertaking for the comprehensive warranty and specific technical requirements of all instruments and installation locations as per **Annexure 10**.

Only the tenders which provide the above detailed information will be considered eligible and responsive.

## VII. Tender Schedule

<b>Tender enquiry no.</b>	<b>SB/QEL/KOCHI/LCMSMS/2019</b>
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225491/2019/QUALITY LAB

Instrument detail	LC MS/MS System complete package
Tender fee	Rs. 15,000/-
EMD Amount	Rs. 12,00,000
Tender validity	180 days
Publish date	27/11/19
Clarification start date	27/11/19
Clarification end date	15/12/19
Bid submission start date	01/12/19
Bid submission end date	27/12/19
Technical bid opening date	30/12/19

### VIII. Details of Equipment

	Equipment	Quantity	Technical Specifications
1	LC MS/MS system, complete package	3	As per Annexure 1

	Location for installation of new systems (Please see Section V above for details)	LC MS/MS offered under Buyback	
		Location	Model
	QEL Kochi	QEL Kochi	AB Sciex API 2000 x 3 Nos.
	QEL Chennai		
	QEL Kolkata	QEL Mumbai	AB Sciex API 2000 x 1No.

Please see **Annexure 1**, Section III for instruments offered under buyback in this tender.

### IX. EMD Requirements

Bidders should submit an EMD equal to **Rs. 12,00,000** (4,00,000 per instrument, total 3 instruments) along with the tender by way of Demand Draft drawn in favour of “Secretary, Spices Board” payable at Kochi, from any nationalized bank. The EMD shall be valid for three months. Bank Guarantee will not be accepted towards EMD.

1. The technical bid without EMD will be rejected unless specifically exempted by the Government from payment of EMD for which reasons and proof have to be enclosed.
2. EMD of the unsuccessful bidders will be refunded (without any interest) within 45 days from the date of opening of tender.
3. EMD amount of the successful bidder will be refunded (without any interest) within 30 days after acceptance of purchase order and submission of the performance guarantee, if applicable, as mentioned in the relevant section.
4. EMD will be forfeited if the vendor withdraws or amends its tender or derogates from the tender in any respect within the period of validity of its tender.
5. EMD shall be submitted in sealed envelope, superscribing the words “**Tender for LC MS/MS System for QELs, Spices Board - 2019**” through Speed Post/Registered Post/by Hand to reach the following address on or before closing time of the tender.

Scientist in-charge,

Quality Evaluation Laboratory,

Spices Board, Ministry of Commerce (Govt of India)

Sugandha Bhavan, N.H. Bye-pass,

Palarivattom PO, Kochi – 682025

Kerala

## X. General conditions of the Tender

1. The Tenderer has to go through the instructions in the tender notice (general instructions and the instructions stipulated in the technical specifications of the instrument in Annexure 1) and prepare the tender for submission.
2. In the event of documentary proof as required being not enclosed, the Tender shall be liable to be rejected. All pages of the bid, except for unamendable printed literature, shall be signed by the authorized person or persons signing the bid along with the stamp of the tenderer.
3. The support documents needed for the tender are to be uploaded as PDF files only. Multiple documents can be uploaded, with Maximum size of single document for upload is 3 MB. Please refer to Appendix 1 for more instructions in uploading the tender documents. **The uploaded documents should include all the documents required as per eligibility criteria, and also the documents required as per the annexures of the tender document.** Any of the missing documents under these requirements will render the tender unresponsive.
4. Each tender document, unless unamendable printed matter such as brochures of the instrument, should be clearly marked with headings and should have a short note explaining against which tender requirement the document is being submitted. All documents uploaded should be in English language. In case of copy of earlier work orders and the performance certificates supporting the claim of past performance of the tenderer, it shall be attested by the client institution/ organization where the same have been supplied and installed. scanned copies of the same shall be provided in PDF format.
5. The documentary evidence (other than those regarding supply and past performance) submitted along with the Tender shall be produced duly attested by the tenderer on every page and serially numbered. Any interlineations, erasures or over writing shall be valid only if they are initialled by the person (s) signing the offer.
6. Tenderer shall submit a declaration letter as per the format given as Annexure 5 and copy of amendments of the tender published, if any, signed by the tenderer or the authorized representative shall be enclosed as part of the technical bid as a proof of having read and accepted the terms and conditions of the tender .
7. If the bidder is a representative of the original equipment manufacturer (OEM), then the authorization from the OEM should be included in the technical bid.
8. If at any time any misrepresentation of facts / documents / supply of equipment below the standards assigned come to notice, the contract is liable to be cancelled at the risk and cost of the bidder.

9. An offer submitted in vague /ambiguous financial terms and the like, shall be termed as non-responsive and shall be summarily rejected.
10. Clarifications to specific requests shall be responded through e-mail and general clarifications, affecting all the tenderers shall be published in the official website of the Spices Board (www.indianspices.com) and at the MSTCL e-commerce website where the e-tender is hosted. However it shall be the duty of the prospective tenderer to ensure that the clarifications sought with regard to the tender has been properly received in time at Spices Board.
11. Any clarification on the tender procedure shall be obtained from Spices Board Quality Evaluation Laboratory, Kochi and the contact numbers 0484 2333610 (ext 329/340/338).
12. The prices quoted in the tender should be **valid for purchase of the three LC MS/MS instruments including the full package of accessories, by Spices Board in a staggered manner, over a period of one year from the date of issue of the purchase order to the successful bidder.**

#### **XI. Specific Conditions of the Tender – Technical**

1. The mass calibration of the MS/MS instrument should be performed by the supplier at intervals of 6 months, throughout the warranty period (Mass calibration check one in 6 months (or) soon after the completion of a service, whichever is earlier). **This is an essential clause of the warranty.**
2. Valid solutions (PPG or any other standard solution, as required to cover entire mass range) should be carried to the site and used by the engineer who performs the calibrations, and the validity certificate and certificate of analysis of the solution used should be attached along with each calibration report.
3. The complete LC MS/MS system package, inclusive of the supporting instruments listed in the tender document, should be covered in the 5-year comprehensive warranty. During the comprehensive warranty period, any spare or accessory that is found faulty should be replaced free of charge.
4. During the period of comprehensive warranty, each breakdown has to be attended promptly by the service department and telephonic support should be provided without delay. In case it is felt by the laboratory that an on-site visit is required, then such a visit should be arranged within 24 hours of email intimation by the laboratory.
5. Any consumables that are not covered under the 5-year comprehensive warranty should be listed in Annexure 3 and submitted along with the tender. All items that are not listed in Annexure 3 will be replaced free of charge when required.
6. The performance qualification of the instrument should include method development, standardization, validation and training of laboratory personnel, for trace level analysis of pesticide residues, mycotoxins and illegal dyes in spices.
7. Annexure 10 agreeing to the above conditions should be signed by the bidder.

#### **XII. Warranty for the LC MS/MS systems, and Performance Security**

1. The instruments will have comprehensive warranty **for a period of 5 years** from the date of installation. An undertaking for the comprehensive warranty should be submitted by the bidders for three installation locations, as per the format given in Annexure 10.



2. The comprehensive warranty should cover the complete system, including **all spares** and all consumables which are not listed out in Annexure 3.
3. The comprehensive warranty supporting systems quoted along with the system, including all spares and all consumables which are not listed out in Annexure 3.
4. The successful bidder has to submit **individual performance securities** for each instrument supplied, valid till 60 days beyond the date of completion of all contractual obligations of the supplier, including **the warranty obligation** of the systems as above, for an amount equal to **20% of the total value** of the instrument as specified in the bid document. Performance security maybe furnished only in the form of a Fixed Deposit Receipt from a Commercial bank in favour of Secretary, Spices Board.
5. The performance security will cover all the terms and conditions, as mentioned in this tender / purchase order issued to the successful bidder, and will be forfeited if any of these conditions are violated during the validity period of the performance security as mentioned above.

### **XIII. Tendering Format**

The tender shall be submitted online in two cover system duly scanned and digitally signed by the authorized representative of the bidder as follows:

#### **1. Technical bid**

- a. Online bids should be submitted containing scanned copy of following documents in Cover-1 for documentary proof, for fulfilling qualifying criteria/ requirements failing which the offer shall liable to be rejected.
- b. Earnest Money Deposit (refundable).
- c. Transaction fee of Rs. 15,000 (non refundable, please see Appendix I section 4).
- d. The bidder or his authorized representative shall sign and upload all the documents, owning responsibility for their correctness/ authenticity and submit declaration in respect of acceptance of terms and conditions of tender document.
- e. Self-attested copy of PAN and Goods & Service Tax (GST) registration certificate.
- f. Self-attested copy of Trading and Profit & Loss Accounts/Balance sheet/ Certificates audited by CA in fulfilment of Eligibility Criteria.
- g. In case the tenderer is an authorized supplier of the instrument quoted and not the original equipment manufacturer (OEM), then a duly signed letter of authorization from the OEM shall be submitted.
- h. Self-attested Copies of previous purchase orders and completion certificates in fulfilment of eligibility criteria given in tender document Section IV, point 2.
- i. Self-attested Copy of authorization certificate i.e. authorized Dealer/ Distributor/ Channel partner or documents in support of manufacturer.
- j. Compliance statement marked as per Annexure 1b of the tender document
- k. Technical Data Sheets to be submitted as per the tender / Annexure 1a and 1b.
- l. **All Annexures , duly filled, stamped and signed .**

m. If the Cover-1 i.e. technical bid does not contain any of the above mentioned documents or contains incomplete or unsuitable technical specifications of the item to be supplied, then the offer shall be deemed liable for rejection/ disqualification.

The respective Cover- 2, i.e. financial bid of the technically disqualified offers shall not be opened. The bidders are cautioned that divulging any financial information in Cover-1 (Technical bid) will result in rejection of their tender.

## 2. Financial bid

- a. The financial bid shall be submitted in the enclosed format in Annexure 9, **only online through MSTCL e-commerce website**. No financial information should be submitted at any time in print during the tender process. Any such instance occurring will make the bid unresponsive.
- b. The quoted price shall be inclusive of all charges, inclusive of customs clearance (if any). Only documents needed for customs clearance will be provided by Spices Board. It would be the successful bidder's responsibility to arrange customs clearance (if any) without undue delay and delivery of the item(s) to the respective locations of Spices Board. All incidental payments required during supply of the instruments shall be paid by the bidder and will be reimbursed by the Board at-actuals, subject to providing actual invoices by the bidder.
- c. The tenderer shall be responsible for payment of any charges due to any statutory authorities such as Income Tax, CGST, SGST, IGST, Customs Duties etc.
- d. Any column in the online submission of financial bid which is left blank will be considered as zero and as included in the rate quoted for the instrument.
- e. The rates shall be quoted strictly in the given format and should be inclusive of all taxes, duties, Entry Tax, Statutory Charges, Insurance, Permit Charges, P&F charges, Freight etc. (including purchaser liability, if any) as CIF charges to respective locations to avoid any post consequences/discrepancies. However, all applicable Taxes & Duties should be clearly mentioned by the supplier at the time of supply in their invoice. Supplier should submit documentary proof of all at-actual payments with their invoice.
- f. The tenderers who do not submit the technical bid (cover 1) within the stipulated date and time will be treated non-responsive.
- g. If the bids are not submitted as per the requirement of the above clauses, the Spices Board shall assume no responsibility for the offer's misplacement and consequential rejection.

## XIII. Amendment of tender documents

1. At any time prior to the dead line for submission of Tender, Spices Board may, for any reason, modify the tender document by corrigendum /addendum.
2. The corrigendum /addendum shall be published in e-procurement website (<http://mstcecommerce.com>) and Spices Board website ([www.indianspices.com](http://www.indianspices.com))

3. The tenderer shall **submit copy of corrigendum /addendum published if any** signed by the tenderer or the authorized representative shall be enclosed as part of the technical bid as a proof of having read and accepted the terms and conditions of the tender document.

#### **XIV. Submissions and opening of Tender**

1. The bid should be **submitted online at website <http://mstcecommerce.com> only**, by the due date of 25-12-2019 and time till 5:30PM. The server date & time as appearing on the e-tender website shall only be considered for the cut-off date and time for submission of bids. Offers sent through post, telegram, fax, telex, e-mail, and courier or by any other mode will not be considered.
2. The technical bids will be opened on 26-12-2019 at 10AM. In case of date of opening is declared, as holiday tender will be opened on next working day at same time.
3. Only those bidders shall be considered qualified who submit requisite EMD and documents accept all the terms & conditions of the Tender document unconditionally and meet the qualifying requirement stipulated in the Tender document. The decision of the Spices Board shall be final and binding in this regard.
4. The bidder shall bear all cost associated with the preparation and submission of its bid and Spices Board will in no case be responsible or liable for any cost, regardless of the conduct or outcome of the tendering process.
5. The prospective bidder requiring any clarification of the tender document may obtain the same over phone/email from Spices Board at 0484-2333610 (Ext. 329, 340 and 338) / [rameshbabu.n@nic.in](mailto:rameshbabu.n@nic.in) till 07 (Seven) days before the deadline for submission of the tenders. If any further clarification is required by the bidder in respect of items wherein specification are not defined or if any doubt is there about any specification, bidder may personally visit the Head Office at Spices Board, Sugandha Bhavan, Palarivattom, Kochi- 682025, Kerala. However, this shall not become the reason for claiming extension of the deadline for the submission of the tenders.
6. Spices Board shall not be bound to respond to the request from the prospective bidders and this shall not become the reason for claiming extension of the deadline for the submission of the tenders.

#### **XV. Evaluation of Tender**

1. The commercial terms and technical aspects of the documents submitted as part of the technical bids shall be scrutinized by a bid evaluation committee constituted by Spices Board.
2. The bid evaluation committee will also verify the veracity of claims in respect of the known performance of the equipment offered, the experience and reputation of tenderer in the field, the financial solvency etc.
3. The decisions of the bid evaluation committee on whether the tenders are responsive or non-responsive or requiring clarifications will be intimated to respective bidders.
4. The decisions of the bid evaluation committee will be further scrutinized by the Purchase Committee constituted by Spices Board.

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5. A tenderer, at any stage of tender process or thereafter, in the event of being found after verification by the Spices Board to indulge in concealment or misrepresentation of facts, in respect of the claims of the offer, shall be debarred/black listed.
6. Spices Board's decisions on the tender submitted shall be based on the decisions taken by the various committees and otherwise as per the clauses as mentioned above.
7. Arithmetical errors shall be rectified on the following basis: If there occurs a discrepancy between words and figures, the amount in words shall prevail and the offer shall stand corrected to that effect. If the tenderer does not accept the correction of errors, his offer shall be rejected. Spices Board may waive any minor non-conformity or irregularity in an offer, which does not constitute a material deviation, provided that the same shall not prejudicially affect the interest of the other tenderers.
8. If deemed necessary, as in the case of sophisticated equipment, the Board may decide for an onsite verification of technical claims of a bidder at the bidder's own applications lab, before completing the technical evaluation.

**XVI. Evaluation of Technical bid – Scoring pattern**

Sl.No.	Scoring criteria	Max Score
1	No of installation of the Quoted Model(s) in India (Food Testing) other than Spices Board (1 point/installation)	8
2	Application support in spices and spice products – availability of technical literature. Peer reviewed papers / application notes, <b>for the quoted equipment</b> , for analysis of <b>pesticide residues, illegal dyes and mycotoxins</b> , in any <b>spices / spice products</b> , can be submitted. One point per paper / application note.	10
3	24x7 Online/ Tele Service Support. (for Yes-5 Point, No-0 point)	5
4	Availability of a service centre in the states where the laboratories (Kerala, Tamil Nadu, Kolkata) – 2 points each, Availability of a dedicated applications support laboratory in India – 4 points.	10
5	Number of service engineers and application specialists for quoted model – <b>See Annexure 6</b> - State wise (Kerala, Tamil Nadu, Kolkata) (one point per engineer, subject to a maximum of 7)	7
6	Technical compliance as per <b>Annexure 7</b> . A score of 30 marks is mandatory and will be assigned when the bid qualifies for all the essential technical requirements. For complying with the requirements marked desirable, a score of 10 will be assigned.	40

7	Evaluation of performance evaluation data as per <b>Annexure 8</b> . Any deviation from the requirement criteria will forfeit this score.	20
	<b>Total</b>	100

The bid has to essentially qualify against each of the technical requirements not specifically marked as desirable in Annexure 1a,b,c, without which the bid will be treated unresponsive. Those bidders scoring **above 70%** in the technical bid evaluation shall only be considered for financial bid comparison.

### **XVII. Evaluation of Financial Bids**

1. Only the financial bids of the technically qualified tenderer(s) will be opened after completion of evaluation of technical bids.
2. The opening of the financial bid shall be done online by Spices Board by a committee constituted for this purpose.
3. Tenderer shall refer to the financial bid format included in this tender document as Annexure 6, and quote the financials in the respective fields and to be submitted online. The financial bids submitted in any other formats will be treated as non-responsive and not considered for tabulation and comparison.
4. Financial bid offered shall be all inclusive, and **with option for quoting in INR or foreign currency**. Financial comparisons will be based on the exchange rates of the above currencies to Indian Rupee, as on the morning of the financial bid opening date.
5. Financial bid should be quoted inclusive of the supply, installation, training and successful commissioning of the accessories and fulfilment of warranty/guarantee and after sales service to the satisfaction of the Board,
6. Financials quoted by the Tenderer shall be fixed during the period of the contract and not subject to variation on any account.
7. Financial variation due to statutory changes including CGST, SGST, IGST & customs duty will be accepted during the running contract period before releasing the Purchase Order on receipt of proper documents.
8. There shall also be no hidden costs.
9. Tenderer shall quote financials in all necessary fields in the available formats (Annexure 9).
10. The tenderers shall offer financials of the accessories inclusive of all the accessories mentioned in the respective technical specifications and under no circumstances offer the essential accessories, without which the accessories cannot function properly, as optional or left un-quoted.

### **XVIII. Purchase order and terms of payment**

1. The purchase order will be issued to the successful bidder after the tender evaluation process, which will include the terms and conditions of the tender. The bidder should then submit the acceptance of the purchase order to Spices Board, along with signed copy of the terms and conditions of the purchase order.

2. Subsequently, the bidder will submit the performance security for each instrument, as detailed in Section XII, point 4 above. Payment will be released from Spices Board only after the receipt and confirmation of the performance security.
3. The payment shall be made in the currency/currencies specified in the contract. The supplier shall send the payment claim (with relevant documents, as required) to the appropriate paying authority as will be specified in the purchase order issued. Before claiming any payment, the supplier shall ensure that all the contractual obligations for claiming that payment have been duly fulfilled.
4. The payment shall be made in the following manner and on production of the following documents:
  - a. **Payment for goods supplied from abroad and quoted in foreign currency:**  
On shipment: 80% of the total price quoted in foreign currency shall be paid through irrevocable letter of credit established in favour of the foreign supplier in a scheduled commercial bank in India upon submission of the following documents:
    - i. Supplier's signed commercial invoice showing contract number description of the supplied goods, corresponding quantity, unit price and the total value and name(s) of the consignee(s) for the supplied goods.
    - ii. Original clean on-board bill of lading marked with freight pre-paid, consigned to the interim/port of consignee country, evidencing description of the goods, quantities, relevant details about the contract etc.
    - iii. Packing list, identifying contents of each package
    - iv. Insurance policy or certificate in duplicate endorsed in blank with claims payable in India in the currency of the Letter of Credit.
    - v. Manufacturer's/supplier's warranty certificate and supplier's factory inspection report.
    - vi. Certificate of origin
    - vii. Supplier's certificate confirming that the amounts shown in the invoice are correct in terms of the contract and that all the terms and conditions of the contract have been complied with for claiming this payment.
    - viii. Any other document(s) and/or modification of above documents specified as per the requirements mentioned in the terms and conditions of the tender / purchase order issued to the supplier.
  - b. **On final acceptance:** Remaining 20% of the contract price of goods quoted in foreign currency shall be paid within 30 (Thirty) days after satisfactory completion of all contractual obligations for delivery, installation, demonstration, performance qualification of all parameters as per technical requirements of the tender, and training to the staff of Spices Board Lab(s), including the complete LC MS/MS system and all accessories supplied along with the system, including those quoted in Indian Rupees.

- c. **Payment of agency commission (if any):** Payment shall be made in Indian rupees within 30 (thirty) days, on completion of all the requirements specified under [b. On Fina Acceptance] above.
- d. **Payment for goods supplied from India and quoted in Indian Rupees:** Payment shall be made in Indian rupees within 30 (thirty) days, on completion of all the requirements specified under [b. On Fina Acceptance] above.
5. **Operation of the letter of Credit:** The payments effected through letter of credit, shall be subject to the latest Uniform Customs and Practice for Documentary Credit, of the international Chamber of Commerce. If requested specifically by the supplier, the letter of credit will be confirmed, but the cost for the same shall be charged to the supplier's account.
6. **Delay in the supplier's performance:**
- a. The supplier shall deliver of the goods and perform the services under the contract within the time schedule specified by the purchaser in the purchase order issued to, and accepted by, the supplier. Any unexcused delay by the supplier in maintaining its contractual obligations towards delivery of goods and performance of services shall render the supplier liable to any or all of the following sanctions (i) imposition of liquidated damages, (ii) Forfeiture of its performance security and (ii) Termination of the contract for default.
  - b. If at any time during the currency of the contract, the supplier encounters conditions hindering timely delivery of the goods and performance of services, the supplier shall promptly inform the purchaser in writing about the same and its likely duration and make a request to the purchaser for extension of the delivery schedule accordingly. On receiving the supplier's communication, the purchaser shall examine the situation as soon as possible and, at its discretion, may agree to extend the delivery schedule, with or without liquidated damages for completion of supplier's contractual obligations by issuing an amendment to the contract.
  - c. When the period of delivery is extended due to unexcused delay by the supplier, the amendment letter extending the delivery period shall, inter alia contain the following conditions: (a) The purchaser shall recover from the supplier, liquidated damages on the goods and services, which the Supplier has failed to deliver within the delivery period stipulated in the contract. (b) That no increase in price on account of any ground, whatsoever, including any stipulation in the contract for increase in price on any other ground and, also including statutory increase in or fresh imposition of customs duty, excise duty, sales tax or on account of any other tax or duty which may be levied in respect of the goods and services specified in the contract, which takes place after the date of delivery stipulated in the contract shall be admissible on such of the said goods and services as are delivered and performed after the date of the delivery stipulated in the contract. (c) But nevertheless, Spices Board shall be entitled to the benefit of any decrease in price on account of reduction in or remission of customs duty, excise duty, sales tax or any other duty or tax or levy or on account of any other grounds, which takes place after the expiry of the date of delivery stipulated in the contract.

7. The supplier shall not dispatch the goods after expiry of the delivery period. The supplier is required to apply to Spices Board 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 at its own risk and no claim for payment for such supply and / or any other expense related to such supply shall lie against Spices Board.
  8. **Liquidated damages:** If the supplier fails to deliver any or all of the goods or fails to perform the services within the time frame(s) incorporated in the contract, the purchaser shall, without prejudice to other rights and remedies available to the purchaser under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to the percentage prescribed in the SCC of the delivered price of the delayed goods and/or services for each week of delay or part thereof until actual delivery or performance, subject to a maximum deduction of the percentage prescribed in the SCC of the delayed goods' or services' contract price(s).
-



**Annexure 1a**  
**LC MS/MS System**

Number of systems Required	:	3 Nos.
Locations for installation	:	See tender document Section V, <i>Scope of the tender</i> .
Special conditions for tender	:	Buyback of four LC MS/MS systems available in the Board's QELs at Kochi and Mumbai. See <b>Section III below</b> .

### **I. Technical Requirements**

1. The bidder has to submit online tender for **three** LC MS/MS systems, as per the technical specifications given in **Table 1** below. Locations for installation of these equipments are given in Tender document Section V.
2. Technical compliances to each point in the specifications below have to be indicated by a tick (✓) mark.
3. The bidder has to sign each page of this document, and the signed copy of this document has to be scanned as PDF for submission online.
4. Wherever documentary evidence is required against a technical specification, the same has to be prepared with section headers and summary of the data submitted.

### **II. Preparing the Technical Bid:**

The final Technical Bid should be prepared as **PDF files** covering following sections. Also refer to Section XIII (I) in the tender document, and Appendix 1 for details on how to upload the documents required.

- a. Scanned copy of [this document](#) with compliance indicated by tick (✓) mark against each of the technical specification in **Table 1 below**, signature of the bidder on each page, and the undertaking in [Section IV](#) signed by the bidder with company seal.
- b. The data pertaining to each specification in Table 1 below that require [documentary evidence to be submitted](#), separated by section, clearly indicating the specification for which data is submitted.
- c. The scanned copy of the manufacturer's [specification catalogue](#) of the system being quoted. If this is available online on the manufacturer's website, then a link to the website will suffice provided it is accessible for reference to the public without any login.

It may be noted that incomplete submission of any of the above in the technical bid will make the submitted tender liable for rejection.

Table 1: Technical Specifications

## I. LC SYSTEM

	Required Specification	Documentary Evidence Required?
1	A suitable fast LC system compatible with the MS/MS system and controllable through the same software. Suitable pump, with vacuum degasser, autosampler, column oven, columns (as detailed below) should be quoted.	
2	<p><b>Pumping system:</b></p> <p>Low pressure quaternary <b>or</b> high pressure binary system (<b>specify</b>). Should be able to deliver flow rate of 0.01 – 2ml/min or better (please specify increment). Should be suitable for columns with small particle size (2 microns or less). Operating pressure: up to 15000psi (or) better (<b>specify</b>) Flow rate accuracy: 1% RSD or better (<b>Specify</b>) Flow rate precision: 0.3% RSD or better (<b>Specify</b>) Suitable degasser should be provided.</p>	Provide details of parameters where 'specify' is mentioned
3	<p><b>Autosampler:</b></p> <p>Automated operation controllable through MS/MS Software Automated autosampler purging through software Injection volume setting range 0.1ul to 50 ul or better (<b>specify</b>) Vials capacity up to 2ml Number of vials: 100 or better Injection volume accuracy 1% RSD or better (<b>specify</b>) Injection volume precision - 0.5% RSD maximum, for 10ul injection (<b>specify</b>) cross-contamination limit - 0.05% RSD maximum, or better (<b>Specify</b>) Operating pH range 1 – 9 or better (<b>specify</b>)</p>	Provide details of parameters where 'specify' is mentioned
4	<p><b>Column oven:</b></p> <p>Temperature range – up to 80°C (designed to operate up to 15000 psi) programmable 0.1°C increments Safety functions like leak sensor, high temperature cut-off Controllable through MS/MS software Storage capacity - minimum 3 columns Safety functions like leak sensor, high temperature cut-off</p>	
5	<p><b>Columns</b></p> <p>See Annexure 2 for the details of columns required. The details should be filled in <b>Annexure 2</b> of the tender document, and submitted along with the tender.</p>	Include documentation for columns quoted for use in intended analysis

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	The columns quoted for various analyses shall have been validated for the intended parameter in LC MS/MS, and proof of such validation (application note, research papers etc) should be included.	
--	--	--

**II. MS/MS SYSTEM**

	<b>Required Specification</b>	<b>Documentary Evidence Required?</b>
<b>1</b>	<p><b>MS/MS System</b></p> <p>Triple quadruple mass spectrometer capable of performing high sensitivity trace analysis.</p> <p>All conditions and pre-installation requisites for trouble free operation of the instrument should be indicated clearly (temperature, humidity, electrical requirements etc with instrument cut-off limits due to environmental conditions should be indicated).</p> <p>Any requirement not indicated in the tender document arising during/after installation of the equipment will have to be borne by the bidder.</p>	
<b>2</b>	<b>Ion Sources</b>	
a	<p>Rugged source capable of handling large batches of complex matrices like spices, over extended periods of time, without performance degradation.</p> <p>User should be able to clean the source without use of complex tools and without venting the system.</p>	
b	ESI and APCI probes to be provided, with facility of interchanging easily by the user, and auto-detection of installed probe by the instrument and software.	
c	The source should have self-contained heating system for achieving desired operational temperatures.	
d	Sprayer position should be adjustable in vertical and horizontal directions with adjustment scales for easy optimization.	
e	Facility for visual examination of spray should be available.	
f	The source should be easily removable from the system to facilitate user cleaning without venting the vacuum, with automatic shutdown of system while the source / probe is being removed.	
g	The source housing should be fully vented to avoid contaminating laboratory air.	
h	All source parameters to be adjustable through software.	
<b>3</b>	<b>Vacuum System</b>	

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a	Robust, high efficiency vacuum system with minimum maintenance, with low noise and automatic lock system should be provided.	
b	All accessories required for the proper functioning of the vacuum system should be supplied.	
<b>4</b>	<b>Mass Analyzer</b>	
a	Triple quadrupole MS/MS System	
b	Mass Range 50 - 1500 AMU or better	
c	Mass Accuracy 0.1% over the entire mass range	
d	Mass resolution – 0.7amu or better at unit mass resolution	
e	Mass Stability: 0.1 dalton over 24 hours (please include data in compliance statement)	Provide data
f	Collision cell - high pressure collision cell for high sensitivity MRM studies without loss in sensitivity, and allowing less dwell time (mention minimum dwelltime in milliseconds). Should be suitable for high sensitivity MRM studies. Should be free of crosstalk.  No significant crosstalk should be detectable for reserpine at the following conditions : Infusion of 0.2 pg/ul, for MRMs 609>195 and 100>195 at 2 milliseconds dwelltime (please provide graphical data)	Provide data
g	Scan Types:	
	Full Scan MS	
	Selected Ion Monitoring in both Q1 and Q3	
	Precursor Ion Scan	
	Product Ion Scan	
	Neutral Loss Scan	
	Multiple reaction monitoring (MRM)	
	Information dependant acquisition or equivalent scan mode of MRM to high sensitivity product ion scan for library confirmation	
	Automated tuning	
h	Scan speed: 12,000 amu/sec or better ( <b>specify</b> )	Provide details of parameters where 'specify' is mentioned
i	Minimum Number of MRMs: 300 MRMs with no loss in sensitivity for co-eluting components at any one point of time.	
j	+ve / -ve polarity switching time between alternate MRM scans: 20ms better. Specify (a) switchover time, (b) stabilization time	Provide data

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k	<p>A high sensitivity, high throughput detector with zero dead time, low noise and high accuracy at low level detections.</p> <p>Dynamic range: 6<sup>th</sup> order or better (provide data)</p> <p>The detector must have a digital range of 1 to 1E6 cps (or) better (Specify).</p> <p>It must operate both +ve and -ve ion mode and back and must be capable of switching polarity rapidly and should be able to save the data of both modes (Specify).</p> <p>Life of detector based on scan hours (Specify). Five year warranty shall be applicable.</p>	Provide data
l	<p>Integrated infusion device in the instrument should be available, controllable through MS software.</p>	
m	<p>LC MS/MS method packages for pesticide residues: Method package(s) with reproducible steps and processes for different pesticides shall be quoted.</p>	
<b>5</b>	<b>Computer and Software</b>	
a	<p>Latest suitable model branded computer suitable for operation with the software, should be quoted.</p> <p>Original operating system (Windows 10 or higher) compatible with the software should be pre-installed.</p> <p>MS Office professional latest version (Licenced)</p> <p>Adobe Professional latest version (Licenced)</p> <p>All accessories and hardware requirements for interfacing with the LC MS/MS systems should be included.</p> <p>A high capacity external solid state hard disk should be included for data backup.</p>	
b	<p>The LC MS/MS software should be user friendly, capable of controlling the entire functions of HPLC and MS/MS, with required licenses for system suitability calculations; all accessories required for its operation should be quoted.</p> <p>The software should be 21CFR Part 11 compatible, and should be LIMS compatible, and the computer should have provision for future integration with a LIMS system (additional network ports etc).</p>	
c	<p>Software should have completely automated quantitative and qualitative data processing capability, and automated mass calibration and optimization of operating parameters. It should maintain library search facility, ion ratio, simple report format, etc. Single point control of pump, auto sampler, column oven and all components of the MS/MS system.</p>	
d	<p>The software should have full-fledged capability of calculating system suitability parameters, both for MS and HPLC.</p>	

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e	Full-fledged reporting facility with capability of customized user-designed report formats should be available.	
f	The software should necessarily have the following features:	
g	Automated calibration and quantitative optimization	
h	Retention-time based programming / monitoring of MRM scans, so that only desired MRMs are monitored in desired retention time ranges	
i	Fragment interpretation tools	
j	Automated quantitative data processing features	
k	Option for naming MRM transitions	
l	Reporting of system performance requirements, (LOD, LOQ, S/N by various statistics, linearity etc) <b>should be available in software</b> . Any additional licence required for this should be included.	
m	Pre-configured and optimized MRM methods should be provided covering all major classes of pesticides and mycotoxins.	
n	If the company publishes any software upgradation within the warranty period, upgradation of the software to the latest version shall be done free of cost. The certificate in this regard to be issued from the manufacturer of the system.	
o	In case of data loss/corruption, the software shall be re-installed free of cost during the warranty period.	
<b>6</b>	<p><b>Performance Criteria</b></p> <p>The requirements in this section pertain to the working requirements of the system. Any claims made in the compliance statement (see section 4 below) should be substantiated by documentary evidence, chromatograms, spectra and other relevant data.</p> <p>The data should be generated in the applications lab of the bidder and the bidder, if necessary, should be able to demonstrate the same to visiting Spices Board officials, if deemed necessary, before opening of the financial bid.</p> <p>The data should be reproducible in the laboratory after installation of instrument.</p>	
a	<p><b>ESI Positive:</b> 1 pg Reserpine (on column) with Injection volume of 1µl (1pg/µl), specify the following with documentary evidence for transition 609&gt;195:</p> <p>(a) Chromatographic signal to noise (S/N - <b>minimum</b> 1,50,000:1) or better without smoothening.</p> <p>The technique used for estimating s/n should be described.</p>	Provide data

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	(b) CV with number of repetitive injections (minimum 10 injections, CV < 0.5 % or better).	
b	<p><b>ESI Negative:</b> 1 pg Chloramphenicol (on column) with Injection volume of (1pg/μl), specify the following with documentary evidence for transition 321&gt;152:</p> <p>(a) Chromatographic signal to noise (S/N - <b>minimum</b> 1,00,000:1) without smoothing. The technique used for estimating s/n should be described.</p> <p>(b) CV with number of repetitive injections (minimum 10 injections, CV &lt; 0.5 % or better).</p>	Provide data
c	A demonstrable LOQ of 0.1 μg/kg or better without using immunoaffinity columns, for Aflatoxin B1 spiked in a blank chilli matrix. Provide chromatograms copies, S/N values and technique, and extraction method used.	Provide data
d	A demonstrable LOQ of 0.1 μg/kg or better, for the dyes Sudan 1-4 and Para Red (ESI +ve) and Orange II (ESI -ve) spiked in blank chilli matrix. Provide chromatograms copies, S/N values and technique, and extraction method used.	Provide data
e	A demonstrable LOQ of 1 μg/kg or better, for the pesticide methyl parathion spiked in blank chilli matrix. QuEChERS procedure maybe used for cleaning up the chilli extract. Provide chromatograms copies, S/N values and technique, and extraction/cleanup method used.	Provide data
7	<b>Accessories of the System</b>	
a	<b>Gas Generators / Gas cylinders / compressors (1 set or each instrument)</b>	
	Gas Generators capable of supplying all necessary gases with the required purity, pressure and flow rate, as required for the LC MS/MS instrument should be provided. It should be complete with all necessary accessories, including any purification panels required.	
	If Gas Generators for a required gas is not available, two cylinders each of all required gases of sufficient purity for operation of the system should be provided, to be quoted from local sources for supply at the installation site. Purification panels, including necessary regulators and gas lines, should be provided.	
	In case external compressors are required for the gas generators, the same should be portable, noiseless and highly durable.	
	All connections between the LC MS/MS systems and the gas generators / gas cylinders / compressor units should be included. All installations should be undertaken by the bidder.	
b	<b>Spares and Accessories (1 set for each instrument)</b>	

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	All required standards of mass calibration and tuning, and any other material required to make the instrument functional should be provided	
	Pack of 300 vials, complete with septa and cap, should be provided	
	An ultrasonic bath of minimum 3L capacity or above, suitable for cleaning parts of HPLC and LC MS/MS should be included.	
c	<p><b>UPS (for each instrument)</b></p> <p>A compatible true online UPS System of Numeric / Aplab Make, with Exide 6EL Tubular Batteries, of appropriate capacity (minimum 10 KVA) and input/output phases as per requirement of the LC MS/MS System, capable of providing a backup time of minimum 4 hours, with comprehensive warranty of minimum 5 years inclusive of battery, should be quoted.</p> <p>A rust free, strong stand to hold the entire set of batteries should be provided. Dimensions of the stand should be finalized after site inspection.</p> <p>Support and service of the UPS system shall be provided within 2 working days at each of the installation sites at Kochi and Kolkata.</p>	
8	<b>Pesticide Residue Analysis Accessories 1 set as below to be provided along with each instrument. All items except (a) and (d) below should be covered in comprehensive warranty.</b>	
a	Neat Certified Reference Materials (CRMs) of pesticide residues from reputed suppliers listed in Annexure 1C with certificates and minimum expiry dates of 1 year from date of procurement should be provided free of charge.	
b	Refrigerated centrifuge suitable for QuEChERS analysis of pesticide residues, capable of handling 50ml tubes and capable of reaching at least 5000rpm with 50ml tubes should be quoted, along with all accessories, rotors etc. <b>Should have digital timer with an increment of 1 minute or better.</b> High grade centrifuge tubes suitable for residue analysis, as per capacity of the centrifuge, 100 Nos. should also be quoted.	
c	High speed centrifuge suitable for QuEChERS analysis of pesticide residues, capable of handling 1.5-3ml centrifuge tubes, and able to reach minimum 10,000 rpm should be quoted. along with all accessories, rotors etc. <b>Should have digital timer with an increment of 1 minute or better.</b> High grade centrifuge tubes suitable for residue analysis, as per capacity of the centrifuge, 100 Nos. should also be quoted.	
d	High quality vortex mixture with speed adjustment, suitable for QuEChERS analysis, <b>2 Nos.</b> should be quoted.	
f	A cold storage cabinet for storage of prepared reference standard solutions should be quoted with following features: (a) chemical resistant racks for storing prepared standards at 2-8°C (b) digital	



	temperature readout (c) digital temperature control and adjustment (d) gross volume at least 500L or more.	
g	A deep freezer for storage of CRMS and reference standard with the following features should be quoted: (a) chemical resistant interiors for standards storage at -20°C (b) Digital temperature display and control (d) gross volume at least 300L or more.	
h	<p>One nitrogen evaporator system, with the following specifications, has to be quoted:</p> <ul style="list-style-type: none"> <li>• Evaporation using nitrogen or other inert gas, with all accessories needed to connect to a standard gas cylinder /gas generator</li> <li>• Chemical resistant body, with closed system and powerful exhaust</li> <li>• Should be CE certified</li> <li>• Evaporation racks: at least 40 positions each or above for 10-16 mm (OD) x &lt;45 mm (length) mini vials and for 10-20 mm (OD) x 75-165 mm (length) tubes</li> <li>• Manifolds with detachable nozzles which reduces replacement cost and provides ease of service</li> <li>• Water bath, with settable temperature Ambient to 90°C, ± 2°C accuracy</li> <li>• A portable nitrogen generator capable of working in ambient temperature and producing UHP nitrogen of sufficient purity for trace analysis at pressure sufficient for use with the nitrogen evaporator.</li> <li>• Digital display and touch screen interface for display and setting parameters including gas pressure (psi), time (min) and temperature(°C)</li> <li>• Evaporation tubes suitable for the evaporation racks to be included.</li> </ul>	

### III. Buyback of the Existing LC MS/MS System

1. The three LC MS/MS systems as per this tender have to be offered against buyback of **four LC MS/MS Systems in as-is condition**. Locations for the buy-back instruments are as follows:
  - a. Perkin Elmer HPLC system with Autosampler and AB Sciex API 2000 MS/MS system, with Peak Nitrogen Generator x 3 Nos. available at Spices Board's laboratory at **Kochi** (please see Tender document page no. 4, Section V, for location address and contact numbers.
  - b. Shimadzu Prominence HPLC system with Autosampler and and AB Sciex API 2000 MS/MS system, with Peak Nitrogen Generator x 1 No. available at Spices Board's laboratory at **Mumbai**, at the following address: Quality Evaluation Laboratory, Spices Board, EL-184, Electronic Zone, TTC Industrial Area, MIDC Navi Mumbai-400710
2. The bidder can inspect the instruments for buyback at the Board's laboratory at Kochi up to 3 days before the last date of the submission of this tender.

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3. Any discount offered against the buyback should be indicated while entering the financial bid in the online tender
4. The successful bidder should clear the above instruments from the Board's laboratory before the shipment of the new instrument commences.

**IV. Undertaking by the Bidder**

It is hereby declared that, the details given above are correct as pertaining to the quoted model, and all data and reports required for substantiation technical claims have been submitted. It is also declared that all the terms and conditions mentioned above is agreed to and will be strictly adhered to.

**SIGNATURE OF TENDERER**

**SEAL OF THE COMPANY**

**DATE**

**Format for submitting detailed technical compliance statement with specifications**

**Name of Equipment:**

**Make:**

**Model:**

	<b>Details of Specifications/ Parts/ Accessories of Tender Enquiry</b>	<b>Specifications of Quoted Model/ Part/ Accessory</b>	<b>Compliance Yes/No</b>	<b>Deviation, if any to be indicated in unambiguous terms (The compliance / Deviation should be supported by relevant Technical Literature)</b>	<b>Technical Justification for the Deviation, if any. If specification is superior / inferior than asked for in the enquiry, it should be clearly indicated in the justification</b>
1					
2					
....					

**Terms and Conditions**

1. The bidder is advised to state compliance for every field in the table of technical specifications as indicated in Annex 1.
2. If the bidder fails to enclose this compliance document, the bid is likely to be rejected.

Signature of the bidder

Name and Designation

Date:

Seal:

The following Neat Certified Reference Materials (CRMs) of pesticide residues from reputed supplier(s) with certificates and minimum expiry dates of 1 year from date of procurement should be provided free of charge:

- |                                |                        |                      |
|--------------------------------|------------------------|----------------------|
| 1. Abamectin                   |                        |                      |
| 2. Acephate                    | 31. Cyprodinil         | 60. Fipronil         |
| 3. Acetamiprid                 | 32. Cyromazine         | 61. Flubendiamide    |
| 4. Aldicarb                    | 33. Deltamethrin       | 62. Fludioxonil      |
| 5. Ametoctradin                | 34. Diazinon           | 63. Fluopicolide     |
| 6. Azinphos-Methyl             | 35. Dichlofluanid      | 64. Flutriafol       |
| 7. Azoxystrobin                | 36. Dichlorvos         | 65. Fluxapyroxad     |
| 8. Bifenazate                  | 37. Dicofol            | 66. Fosetyl          |
| 9. Bifenthrin                  | 38. Difenoconazole     | 67. Hexaconazole     |
| 10. Blubendamide               | 39. Difenthiuron       | 68. Imidacloprid     |
| 11. Boscalid                   | 40. Diflubenzuron      | 69. Iprobenfos       |
| 12. Buprofezin                 | 41. Dimethenamid-P     | 70. Indoxacarb       |
| 13. Captan                     | 42. Dimethoate         | 71. Iprodione        |
| 14. Carbaryl                   | 43. Dimethomorph       | 72. Iprovalicarb     |
| 15. Carbendazim                | 44. Dinocap            | 73. Malathion        |
| 16. Carbofuran                 | 45. Dinotefuran        | 74. Maleic Hydrazide |
| 17. Carbosulfan                | 46. Disulfoton         | 75. Mancozeb         |
| 18. Cartap hydrochloride       | 47. Dithiocarbamates   | 76. Mandipropamid    |
| 19. Chlorantraniliprole        | 48. Emamectin benzoate | 77. Metaflumizone    |
| 20. Chlorothalonil             | 49. Endosulfan         | 78. Metalaxyl        |
| 21. Chlorotriprole             | 50. Ethephon           | 79. Methamidophos    |
| 22. Chlorpyrifos               | 51. Ethion             | 80. Methidathion     |
| 23. Chlorpyrifos-Methyl        | 52. Ethoprophos        | 81. Methiocarb       |
| 24. Clethodim                  | 53. Fenarimol          | 82. Methomyl         |
| 25. Clothianidin               | 54. Fenbuconazole      | 83. Methoxyfenozide  |
| 26. Cycloxydim                 | 55. Fenhexamid         | 84. Monocrotophos    |
| 27. Cyfluthrin/beta-cyfluthrin | 56. Fenitrothion       | 85. Omethoate        |
| 28. Cyhalothrin                | 57. Fenpropathrin      | 86. Oxamyl           |
| 29. Cyhexatin                  | 58. Fenpyroximate      | 87. Parathion        |
| 30. Cypermethrins              | 59. Fenvalerate        | 88. Parathion-Methyl |

- |                               |                            |                             |
|-------------------------------|----------------------------|-----------------------------|
| <b>89.</b> Penthiopyrad       | <b>101.</b> Propineb       | <b>113.</b> Thiacloprid     |
| <b>90.</b> Permethrin         | <b>102.</b> Pyraclostrobin | <b>114.</b> Thiamethoxam    |
| <b>91.</b> Phenthoate         | <b>103.</b> Pyrethrins     | <b>115.</b> Thiodicarb      |
| <b>92.</b> Phorate            | <b>104.</b> Quinalphos     | <b>116.</b> Thiophanate     |
| <b>93.</b> Phosalone          | <b>105.</b> Quinoxifen     | <b>117.</b> Tolyfluanid     |
| <b>94.</b> Piperonyl Butoxide | <b>106.</b> Quintozene     | <b>118.</b> Triadimefon     |
| <b>95.</b> Pirimicarb         | <b>107.</b> Spinozad       | <b>119.</b> Triadimenol     |
| <b>96.</b> Pirimiphos-Methyl  | <b>108.</b> Spirodiclofen  | <b>120.</b> Triazophos      |
| <b>97.</b> Prochloraz         | <b>109.</b> Spirotetramate | <b>121.</b> Trifloxystrobin |
| <b>98.</b> Profenofos         | <b>110.</b> Sulfoxaflor    | <b>122.</b> Vinclozolin     |
| <b>99.</b> Propamocarb        | <b>111.</b> Tebuconazole   |                             |
| <b>100.</b> Propiconazole     | <b>112.</b> Tebufenozide   |                             |

## Annexure 2

## Format for columns to be supplied with each LC MS/MS instrument

1. Columns with particle size 2 microns or less, compatible with UPLC system being quoted and suitable for **accurate and high throughput analysis** of the parameters given in the table below, in the cited numbers, should be supplied along with each LC MS/MS instrument **free of cost**.
2. The chemistry of the columns should be in accordance with the analysis of the parameters given in the table below using the quoted LC MS/MS system, and **chromatograms of each parameter** at the quantification limit, using the quoted columns **should be included along with the quote**, without which **this condition of the tender will not be considered to be met**.
3. If any quoted column supplied with the system is not meeting the analytical requirements, such columns shall be replaced with suitable one free of cost.
4. The unit rates quoted in the table below **should hold valid for the entire warranty period**. The price mentioned in the table will be used for ordering columns on need basis, after the supply of the system(s).

Sl. No	Parameter	Part Number	Column Specification	Periodicity of replacement (number of injections)	Quantity required	Unit price INR	Total price INR	Remarks
1	Illegal Dyes		5 cm column		5			
			10 cm column		5			
2	Pesticide residues (organophosphorus, carbamates, neonicotinoids, and other new generation pesticides)		5 cm column		5			
			10 cm column		5			
3	Mycotoxins		5 cm column		5			
			10 cm column		5			
<b>Total</b>					<b>30</b>			

Guard columns for each kind of column quoted, 10 Nos. each, should be included free of cost. The rate of these columns, valid for the entire warranty period, should be mentioned separately.

Signature of Bidder  
Name & Designation

Date:

Seal:

## Annexure 3

**FORMAT for prices of consumables of the LC MS/MS system and Accessories  
not covered in comprehensive warranty, for a period of 5 years**

All spares for LC MSMS systems, and supporting accessories, should be necessarily covered under comprehensive warranty, and should be replaced on priority on the event of a breakdown. The consumables which are **not covered under comprehensive warranty** and which are required to be replaced periodically should be listed and submitted in the format below.

Sl No.	Instrument	Part No.	Name of consumable	Periodicity of replacement (based on number of injections, no. of scans, pumped solvent volume, hours, etc, whichever is applicable)	Quantity required (5 year period of warranty )	Unit price (INR)	Total Price (INR)	Remarks
<b>LC MS/MS system</b>								
1	LC							
2	LC							
3	LC							
(add)	LC							
1	MS/MS							
2	MS/MS							
3	MS/MS							
(add)	MS/MS							
<b>Supporting instruments</b>								
1	Vacuum pump							
2	(add)							
3	...							
(add)	Gas generator							
...	...							
	UPS							
	...							

**Terms and conditions:**

1. Required spares shall be readily available to minimize the breakdown period of the instrument. The list prices of the consumables in the table above shall not be subject to change during the warranty period.
2. During warranty period, we hereby certify that any item as and when required and not listed above, irrespective of periodicity, shall be borne by us / our assignees and successors.

Signature of the bidder /Name & Designation

Date / Seal

## Annexure 4

## Format for submitting User's List

	Model	No. of instruments	Complete address of installed site	Name, Designation, contact number, email id	Analysis scope (matrix)	Year of installation	Current status (operational / non-operational)
Quoted model							
1							
2							
3							
...							
Similar / comparable models							
1							
2							
3							
...							

**Terms and Conditions:**

The minimum number of Indian end users for the quoted model is three (3).

Testimonial/ feedback from end users (preferably for quoted model)-minimum three users shall be attached.

Signature of Bidder

Name and Designation

Date

Seal



**Annexure 5**  
**Format for Declaration by the Bidder**  
**(to be given on company letter head)**

Date:

To,

Secretary,  
 Spices Board,  
 Sugandha Bhavan, NH Bypass  
 Palarivattom PO,  
 Kochi – 682025, Kerala

Sub: Acceptance of Terms and Conditions of the Tender

Tender Reference and No. \_\_\_\_\_

Name of Tender / Work: \_\_\_\_\_

Dear Sir,

1. I / We have downloaded / obtained the tender document(s) for the above mentioned 'Tender' from the web site(s) namely:..... as per your advertisement, given in the above mentioned website(s).
2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents from Page No. 01 to \_\_\_\_\_ (including all documents like Annex(s), table(s), etc .), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.
3. The corrigendum(s) issued from time to time by your department/ organisation too have also been taken into consideration, while submitting this acceptance letter.
4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.
5. I / We do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking.
6. I / We certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organisation shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract , without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Signature of the bidder, with Official Seal)

## Annexure 6

## Format for Submitting Details for Service and Application Support

	Location	Name of Service Person	Field of expertise (Service or Application)	Experience in this firm with same or similar experience (Years)	Total work experience (Years)
1	Kochi	1)			
		2)			
		....			
2	Chennai	1)			
		2)			
		....			
3	Kolkata	1)			
		2)			
		....			

Signature of Bidder

Name and Designation

Date

Seal

## Annexure 7

## Format for Submission of data for Performance Criteria

The data required for performance evaluation should be submitted in separate sections, with separate section header pages, supported by required data with page numbers.

The format for section header pages are given below.

1	<p><b>ESI Positive:</b> 1 pg Reserpine (on column) with Injection volume of 1<math>\mu</math>l (1pg/<math>\mu</math>l), specify the following with documentary evidence for transition 609&gt;195:</p> <p>(a) Chromatographic signal to noise (S/N - minimum 1,50,000:1) without smoothing. The technique used for estimating s/n should be described.</p> <p>(b) CV with number of repetitive injections (minimum 10 injections, CV&lt; 0.5 % or better).</p>	S/N achieved (attach actual data)	%CV
	<p>Complying: Yes / No Data Attached: Yes/No</p>	S/N =  (data and chromatograms in page no. ---)	No. of injections = % CV =  (data in page no. ---)
2	<p><b>ESI Negative:</b> 1 pg Chloramphenicol (on column) with Injection volume of (1pg/<math>\mu</math>l), specify the following with documentary evidence for transition 321&gt;152:</p> <p>(a) Chromatographic signal to noise (S/N - minimum 1,,50,000:1) without smoothing. The technique used for estimating s/n should be described.</p> <p>(b) CV with number of repetitive injections (minimum 10 injections, CV&lt; 0.5 % or better).</p>	S/N achieved (attach actual data)	%CV
		S/N =	No. of injections = % CV =

		(data and chromatograms in page no. ---)	(data in page no. ---)
--	--	--	------------------------

3	A demonstrable LOQ of 0.1 µg/kg or better, for Aflatoxin B1 spiked in a blank chilli matrix without immunoaffinity column cleanup. Provide chromatograms copies, S/N values and technique, and extraction method used.	<b>LOQ Achieved</b>	<b>Validation parameters</b>
	Complying: Yes / No Data Attached: Yes/No	LOQ = ___ µg/kg (method used in page no. ---, data and chromatograms in page no. ---)	Repeatability (6 replicates) = Recovery at 0.1 µg/kg spike level = (data and chromatograms in page no. ----  Also include details of any other parameter included in validation

4	A demonstrable LOQ of <b>0.2 µg/kg</b> or better, for the dyes Sudan 1 – 4 dyes and Para Red (ESI +ve) and Orange II (ESI -ve) spiked in blank chilli matrix. Provide chromatograms copies, S/N values and technique, and extraction method used.	<b>LOQ Achieved</b>	<b>Validation parameters</b>
		LOQ for <each dye> = ___ µg/kg (method used in page no. ---, data and chromatograms in page no. ---)	Repeatability (6 replicates) = Recovery at 0.2 µg/kg spike level for <each dye> = (data and chromatograms in page no. ----)  Also include details of any other parameter included in validation

5	A demonstrable LOQ of 1µg/kg or better, for the pesticide methyl parathion spiked in blank chilli matrix. QuEChERS procedure maybe used for cleaning up the chilli extract. Provide chromatograms copies, S/N values and technique, and extraction/cleanup method used.	<b>LOQ Achieved</b>	<b>Validation parameters</b>
		LOQ = ___ µg/kg (method used in page no. ---, data and chromatograms in page no. ---)	Repeatability (6 replicates) = Recovery at 1 µg/kg spike level = (data and chromatograms in page no. ----  Also include details of any other parameter included in validation

### Terms and Conditions

1. Under each section, a brief summary of the data submitted should be given.
2. All details of methods and accessories used (including COA of reference standards used, HPLC columns etc) for each test in the performance evaluation should be provided in the appropriate sections.
3. The following undertaking should be given at the end of each section: "We certify that the data submitted is generated using the quoted model of the instrument, and that the same performance can be demonstrated at the laboratory after completion of installation and qualification."

Signature of the bidder

Name and Designation

Date

Seal

## Annexure 8

**I. Format for submitting financial bid online**

The financial bid should be submitted online via MSTC e-commerce website (please refer to Appendix-1) in the format given below. **This format is not for submission as print document, and is only for guidance while submitting the financial bid online.**

Label	Financial Head	Entry to be made online
a	Select Currency	
b	Rate per instrument	(to be entered )
c	Select Currency	
d	Rate of all accessories	(to be entered )
e	Select Currency	
f	Shipping, insurance, tax and all other charges	(to be entered )
g	Select Currency	
h	All accessories quoted in INR (other than above, quoted in b,d & f)	(to be entered )
i	Select Currency	
j	All freight, insurance, transportation charges in INR (other than above, quoted in b,d, f & h)	(to be entered )
k	Select Currency	
l	Total buyback discount offered for 4 LC MS/MS systems offered under buyback (See Annexure 1 for details)	(to be entered )
g	Total (b+d+f+h+j)-l	(auto calculated – b, d, f, will be converted to INR during opening, and will be added to e and h in indian currency to get the total value in INR. From

		this, the buyback discount, J, will be deducted.
h	Quoted model of the instrument	(to be entered )
i	Currency (specify)	(to be entered )
j	Converted value to INR	(auto calculated )
k	Total cost of the one instrument (b+d+f)	(auto calculated)

For any help regarding entry of the above details in e-tender, please contact MSTCL representative at +91 97463 45550

**Annexure 9**  
**Format for Optional Items**

SI No.	Item	Part number	Unit price in INR	Total Price	Remarks
1					
2					
....					

**Terms and Conditions**

1. The prices for items which are quoted as optionals should be submitted in this format. The prices quoted for these items should be valid for 5 years. The rate quoted should include 5 years warranty.
2. These rates would not be used in comparative financial statements, and ordering the items will be on undertaken on need basis after placing purchase order with the successful bidder.

Signature of the Bidder

Name and Designation

Date:

Seal:



**Annexure 10****Undertaking by the Bidder for Comprehensive Warranty and special tender conditions****(To be submitted on company letterhead)**

To

Date:

Secretary,

Spices Board,

Sugandha Bhavan, NH Bypass,

Palarivattom,

Kochi

Sub: Acceptance of comprehensive warranty terms and conditions of the tender

**Tender Reference No. and Date:****Details of the Tender:** Procurement of 3 Nos. of LC MS/MS Systems for the Spices Board laboratories at Kochi, Chennai and Kolkata

Dear Sir,

In compliance with the Spices Board Tender referred above, we hereby declare the following:

1. The instruments supplied by us to all the installation locations will have comprehensive warranty for a period of 5 years from the date of installation.
2. The comprehensive warranty will cover the complete system, including **all spares** and all consumables which are not listed out in Annexure 3 of the tender documents.
3. The comprehensive warranty will all the supporting systems quoted along with the system, including all spares and all consumables which are not listed out in Annexure 3 of the tender documents
4. On receipt of the purchase order for the above instruments, we will submit individual performance securities for each instrument supplied, valid till 60 days beyond the date of completion of all contractual obligations, including **the comprehensive warranty**, in accordance with the requirements under Section XII, point 4 of the tender document.
5. The warranty as above, will cover the instrument calibration (including mass calibration) of all the supplied instruments, in accordance with Section XI of the tender document.

In addition to the above, we also agree to abide by the following specific technical conditions if we are awarded the purchase:

**....continued overleaf..**

**Specific Conditions of the Tender – Technical**

1. The mass calibration of the MS/MS instrument will be performed by the supplier at intervals of 3 months, throughout the warranty period. This is an essential clause of the warranty.
2. Valid solutions (PPG or any other standard solution, as required to cover entire mass range) will be carried to the site and used by the engineer who performs the calibrations, and the validity certificate and certificate of analysis of the solution used will be attached along with each calibration report.
3. The complete LC MS/MS system package, inclusive of the supporting instruments listed in the tender document, will be covered in the 5-year comprehensive warranty. During the comprehensive warranty period, any spare or accessory that is found faulty will be replaced free of charge.
4. During the period of comprehensive warranty, each breakdown will be attended promptly by the service department and telephonic support will be provided without delay. In case it is felt by the laboratory that an on-site visit is required, then such a visit will be arranged within 24 hours of email intimation by the laboratory.
5. Any consumables that are not covered under the 5-year comprehensive warranty are listed in Annexure 3 and submitted along with the tender. All items that are not listed in Annexure 3 will be replaced free of charge when required.
6. The performance qualification of the instrument will include method development, standardization, validation and training of laboratory personnel, for trace level analysis of pesticide residues, mycotoxins and illegal dyes in spices.

Yours faithfully,

(Signature of the bidder with official seal)

## Annexure 11

## CHECKLIST FOR THE BIDDER

No.	Particulars	Document attached?	Ref No. /Page No.
1.	Signed copy of all the pages of the tender notice published in Spices Board website / MSTC website	<input type="checkbox"/>	
2.	Tender fee paid online at MSTC website Details: Amount Rs. _____ Date _____	<input type="checkbox"/>	
3.	EMD Details: DD No. _____ Amount _____ Date _____	<input type="checkbox"/>	
4.	Annexures of Technical Bid:		
a.	Annexure 1a: Technical specifications 1b: format for submitting technical compliance 1c: list of reference standards to be supplied	<input type="checkbox"/>	
b.	Annexure 2: Details of columns	<input type="checkbox"/>	
c.	Annexure 3: Details of consumables not covered under comprehensive warranty	<input type="checkbox"/>	
d.	Annexure 4: User's List	<input type="checkbox"/>	
e.	Annexure 5: Declaration by the bidder	<input type="checkbox"/>	
f.	Annexure 6: Service support declaration	<input type="checkbox"/>	
g.	Annexure 7: Format for submission of data for performance criteria	<input type="checkbox"/>	
h.	Annexure 8: Format for submission of financial bid*	<input type="checkbox"/>	
i.	Annexure 9: Optional items quoted	<input type="checkbox"/>	
j.	Annexure 10: Undertaking by the Bidder for Comprehensive Warranty	<input type="checkbox"/>	
k.	Annexure 11: Checklist	<input type="checkbox"/>	

\*Financial bid is to be submitted online in MSTC e-commerce website.