

# TENDER NOTICE

Quotation Reference: SB/QEL/PUR/TENDER/INST & ACCYS-1/2017

9-10-2017

On behalf of the Spices Board, Ministry of Commerce, Govt. of India, tenders are invited for the supply of following instruments / accessories conforming to defined technical specifications and other requirements. The name of instruments/accessories, number required, delivery location and reference to technical specifications are given in the **Table 1** below.

Table 1: List of Items being tendered

Sl. No.	Name of the Equipment	Numbers required	Locations	Specification Reference
<b>Chemistry Section</b>				
1	GC MS/MS System	3	Chennai, Tuticorin, Narela	Annexure 1
2	Recirculating Chiller	2	Kochi, Kolkata	Annexure 2
3	Rotary Evaporator	2	Kochi, Kolkata	Annexure 3
4	pH Meter	2	Kochi, Kolkata	Annexure 4
5	Electrochemical Derivatization System for analysis of Aflatoxins	8	Kochi, Mumbai, Kandla, Kolkata, Narela, Chennai, Tuticorin, Guntur	Annexure 5
6	Laboratory blender for extraction of mycotoxins	8	Kochi, Mumbai, Kandla, Kolkata, Narela, Chennai, Tuticorin, Guntur	Annexure 6
7	LC MS/MS System	2	Kolkata, Kochi	Annexure 7
8	Microwave Digester	1	Kolkata	Annexure 8
9	Water Purification System	1	Kolkata	Annexure 9
10	Balance 3 digit precision	1	Kolkata	Annexure 10
11	Balance 5 digit precision	1	Kolkata	Annexure 11
12	Muffle Furnace	1	Kolkata	Annexure 12
13	Hot Air Oven	1	Kolkata	Annexure 13
14	GC with FID	1	Rae Bareli	Annexure 14
15	GC MS system	1	Rae Bareli	Annexure 15
16	Laboratory Freezer (-20°C) for Reference Material storage	8	Kochi, Mumbai, Kandla, Kolkata, Narela, Chennai, Tuticorin, Guntur	Annexure 16
17	Adjustable Micropipettes SET (100ul, 1 ml and 10 ml)	8	Kochi, Mumbai, Kandla, Kolkata, Narela, Chennai, Tuticorin, Guntur	Annexure 17
18	Concentration workstation	8	Kochi, Mumbai, Kandla, Kolkata, Narela, Chennai, Tuticorin, Guntur	Annexure 18
19	Portable nitrogen generator for laboratory benchtop applications	8	Kochi, Mumbai, Kandla, Kolkata, Narela, Chennai, Tuticorin, Guntur	Annexure 19
20	Refrigerated centrifuge	8	Kochi, Mumbai, Kandla, Kolkata, Narela, Chennai, Tuticorin, Guntur	Annexure 20
21	Immunoaffinity columns for Ochratoxin A	8	Kochi, Mumbai, Kandla, Kolkata, Narela, Chennai, Tuticorin, Guntur	Annexure 21
22	Custom QuEChERS Kits	8	Kochi, Mumbai, Kandla, Kolkata, Narela, Chennai, Tuticorin, Guntur	Annexure 22
23	Water Activity Meter	7	Mumbai, Kandla, Kolkata, Narela, Chennai, Tuticorin, Guntur	Annexure 23

The tenders submitted against this common tender notice will have to conform to the terms and conditions outlined below. Each tender should be accompanied by a copy of this tender notice signed on each page by the tenderer, without which the tenders will not be considered.

## Terms and Conditions

### A. Instructions to the Bidder

- Delivery of Tenders: The tender shall be submitted to the designated address either by

Speed Post or by Courier, so as to reach our office before the due date and time. The details are mentioned in section B below.

- Opening of Tenders: The offers/bids will be opened by a committee duly constituted for this purpose at the specified place, date and time in the presence of such tenders or their representatives as may choose to attend.
- The participating bidders should produce an Authorization Letter from their companies to participate in the tender opening day. Only one representative per tenderer will be allowed to participate during the opening of tender.
- Rejection of Tenders: The Spices Board reserves the right to reject any or all of the tenders received without assigning any reason.
- Terms of Delivery: The quoted instrument(s) and all accessories and supporting instruments should be supplied, and the installation/commissioning of the same should be completed as specified in the Terms and Conditions mentioned below. Signed copy of the Terms and Conditions should be submitted along with the Tender, without which the tender will be considered non-compliant.
- Location of Supply: The Instrument(s) will be required to be delivered and installed at the addresses mentioned in the annexures corresponding to each instrument, as detailed in Table 1 above.

Secretary  
Spices Board, Kochi-25

HINDI VERSION WILL FOLLOW

## **B. Terms and Conditions of the Tender**

Tender should be submitted in the prescribed tender document downloaded from the website [www.indianspices.com](http://www.indianspices.com). The tenders submitted should strictly follow the instructions specified below, failing any of which the tenders would be deemed incomplete and liable for rejection.

The last date for the submission of the tender will be **14-November-2017, 5:30PM**, at the following Address:

**Quality Evaluation Laboratory  
Spices Board  
Sugandha Bhavan, NH Bye-Pass,  
Palarivattom PO,  
Kochi, Kerala – 688025  
Ph: 0484 2333610 – 616 (Ext. 329)**

Separate sealed tenders should be submitted for each equipment. The tender should be in a sealed cover appropriately labelled as detailed in the section below. Tenders received after the due date and time for whatever reasons will not be considered.

The opening of the tender will be at **10:30AM on 15-November-2017**, at the **same address specified above**. Only one authorized representative per tenderer will be allowed to participate during the opening of tender.

### **Directions for submitting the bids:**

1. The bid should consist of all technical details along with commercial terms and conditions.
2. A two-bid system will be followed, i.e, a technical bid and a financial bid should be

- submitted separately, in separate covers. Only the technical bid would be opened initially on the designated date. Only for those tenders that comply with the technical specifications, the financial bids will be opened at a later date.
3. For each instrument, the technical bid and the financial bid should be in separate sealed covers marked appropriately. Both these bids should be put in a third, larger cover, which should be labelled with the inscription “**Spices Board Tender – (Name of the Instrument), October 2017: Technical and Financial Bids**”
  4. For each quoted instrument, separate bids should be submitted.
  5. Please refer to the appropriate annexure for each instrument given in Table 1 above. The annexures contain three sections: (i) Section I - Details of the tenderer (ii) Section II - Technical Specifications of the instrument for compliance (iii) Section III - Summary of financial bid.
  6. **Technical Bid** should contain the following documents:
    - Details of the tender, filled in the Section I of the specifications of each instrument given in the appropriate annexure .
    - Compliance with technical specifications, filled in the Section II given in the specifications of each instrument. In section II, the compliance of the quoted instrument against each point in the technical specification should be marked as Yes / No. If this compliance statement is not included in the technical bid, the bid is liable to be rejected.
    - All claims of instrument performance as required in the specifications should be substantiated by adequate instrument readouts and data. These should be submitted as hard copy with required explanatory notes.
    - Declaration of the bidder as given in the specification of each instrument, duly signed by the authorized signatory, with seal of the company and all required contact details.
    - Any technical literature, brochures, specification sheets etc relevant to the quoted model must be included.
    - A minimum number of users of the quoted model in India, as mentioned in the technical specification for an instrument, should be met, without which the tender will be liable for disqualification. The list of these users, with full details of contact persons, addresses, telephone, mobile and email should be provided in table form along with the technical bid.
    - Complete warranty information as required in the technical specification, along with the list of items covered under the warranty should be provided.
  6. **Financial Bid:** The financial details of the tender should be summarized in the table given in Section III, without which the tender would be deemed incomplete and liable to be rejected. Any additional details can be submitted as separate documents.
  7. Incomplete tenders received without adequate information / data or in violation with any point in the terms and conditions will be rejected.
  8. EMD: Should be submitted in a sealed cover along with the technical bid.
    - The tenderer should submit an EMD equal to 2% of the total quoted price along with the technical bid by way of Demand Draft favouring “Secretary, Spices Board” and “payable at Kochi” from any nationalized bank valid for three months .
    - Bank Guarantee will not be accepted towards EMD.
    - The Technical Bid without EMD would be considered as UNRESPONSIVE and will be rejected unless any category of tenderer is specifically exempted by the

- Government from payment of EMD for which reasons and proof have to be enclosed.
- The EMD will be returned without any interest to the unsuccessful bidders after the award of the contract.
9. **Agreement for Purchase Order forfeiture of EMD:** EMD will be forfeited if the tenderer withdraws his tender or backs out after acceptance fails to remit the performance security violates any of the conditions prescribed in the tender notice revises any of the terms quoted, during the validity period.
  10. **Customs Clearance of instruments:** The customs clearance duty if any for imported instruments has to be borne by the bidder and only the supporting documents to clear the items shall be produced by Spices Board. **The bidder has to arrange the clearance, delivery and installation of the equipment at the Board's Laboratory.**
  11. If an Indian Agent is involved, the following documents must be enclosed:
    - Foreign principal's proforma invoice indicating the Commission payable to the Indian Agent and the nature of after sales service to be rendered by the Indian Agent, if applicable.
    - Copy of the agency agreement with the foreign principal and the precise relationship between them and their mutual interest in the business.
    - The enlistment of the Indian agent with Director General of Supplies & Disposals under the Compulsory Registration Scheme of Ministry of Finance.
  12. The offer/bids should be sent only for a machine that is available in the market and supplied to a number of customers. A list of customers in India with details should be furnished with the tenders. Tenders for a prototype machine will not be accepted.
  13. Original catalogue (**not a photocopy**) of the quoted model duly signed by the principals must accompany the tender.
  14. In case the Technical Specification for the Instrument calls for **Performance Data for the quoted model**, the same has to be submitted completely in all respects in a booklet form for ready reference.
    - This data has to be generated using the quoted model, **by the bidder's own application laboratory**, as a proof of capability to provide application support.
    - In case more than one model is quoted, the **performance data for each model should be submitted separately.**
    - **Generalized application notes or research papers will not be accepted as proof of performance**, as these may not comply with the specific requirements of the Instrument.
  15. Spices Board reserves the right to **witness either the reproduction of the data generated by the bidder's laboratory or to analyze the required samples / solutions at the bidders laboratory in case the need arises.**
  16. **Delivery Schedule:** The bidder should indicate clearly the time required for delivery of the instrument. In case if there is any deviation in the delivery schedule, liquidated damages clause will be enforced or penalty for the delayed supply period will be levied.
  17. **Risk Purchase Clause:** In the event of failure of supply of the item/equipment within the stipulated delivery schedule, the Board reserves the right to purchase the item/equipment from other sources on total risk of the supplier under Risk Purchase Clause.
  18. **Payment:** No Advance payment will be made for items manufactured in India. For these instruments, payment shall be made only after satisfactory installation is agreed to wherever the installation is involved. For imported instrument, the payment will be arranged as per terms and conditions agreed between Spices Board and the tenderer during finalization of the purchase.

19. Warranty/Guarantee: The offer should clearly specify the terms of warranty as applicable including all the spares/accessories and consumables required for the smooth and continuous functioning of the equipment as given in the section II of specifications for each equipment.
20. Performance Bank Guarantee: Performance bank guarantee for the appropriate period of time, **if specified in the technical specifications**, should be provided by the successful tenderer **before purchase order will be placed for the respective instrument.**
21. User's List: The offer should include a detailed list of users as required in the specifications of each equipment.
22. Late offer: The offers received after the due date and time will not be considered.
23. Acceptance and Rejection: Spices Board reserves the right to accept whole or any part of any tender or portion of the quantity offered or reject it in full without assigning any reason.
24. Disputes and Jurisdiction: Any legal disputes arising out of any breach of contract pertaining to this tender shall be settled in the court of competent jurisdiction located within the city of Ernakulam, Kochi.
25. The tenderer must sign and affix seal on every page of the tender document and furnish the certificate acknowledgment as shown below:

#### **Acknowledgement by the Tenderer**

It is hereby acknowledged that we have gone through all the conditions mentioned above and we agree to abide by them.

SIGNATURE OF TENDERER  
SEAL OF THE COMPANY

DATE

# Annexure 1

## GC MS/MS System

No. of Instruments required: 3 (Chennai, Tuticorin, Narela)

### Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/TENDER/INST & ACCYS-1/2017

26-9-2017

#### Location of Supply and Installation:

The Instrument(s) will be required to be delivered and installed at the following locations:

1  
Spices Board Quality Evaluation Laboratory  
Near Satyawadi Raja Harishchandra Hospital,  
Behind Indian Oil petrol pump,  
Narela, New Delhi, India

2  
Spices Board Quality Evaluation Laboratory  
Plot No. R-11, SIPCOT Industrial Complex,  
North End Road, Gummidipoondi  
Chennai - 601 201.

3  
Spices Board Quality Evaluation Laboratory  
World Trade Avenue,  
Harbour Estate,  
New Port, TUTICORIN-628004

*The technical bid is to be submitted by filing in Section I and II, duly signed by the authorized signatory in the 'Declaration of the Bidder'. Section III is to be left blank. incompleteness in filling up this form or failure to attach the required supporting data or documents, may result in rejection of the quotation.*

### Section I: Details of the Quotation

Quotation Submitted By	
Quotation Reference No.	
Date of submission of quotation	
Details of EMD submitted (if any)	

Full Address	
Name of principal supplier (if not self)	
Authorized contact person	
Designation	
Contact details	
List of supporting documents submitted along with the quotation	

## Section II: Compliance with Technical Specifications

### GC MS/MS System

***Against each point in the technical specification, compliance must be marked as YES / NO***

All items required for the full-fledged function of an advanced, high sensitive GC MS/MS system, including all software, accessories and supporting instruments as outlined below are to be quoted.

#### 1. GENERAL REQUIREMENTS

	Required Specification	Complying (Yes / No)	Remarks	Documentary evidence enclosed?
1	All components of the GC MS/MS system should be from the same supplier.			
2	<b>Two</b> Systems to be quoted, to be installed at different laboratories of Spices Board, details given in 7 below.			

#### 2. GAS CHROMATOGRAPH SYSTEM:

##### a) Interface

	Required Specification	Complying (Yes / No)	Remarks	Documentary evidence enclosed?
1	All components of the GC Should be controllable through the MS/MS software.			
2	The GC must feature an external screen to provide easy accessibility to set and monitor all parameters of the GC. The screen should provided all needed data, including all temperature, pressure, flow parameters..			
3	The screen of the GC must provide all needed data, including all temperature and pressure/flow parameters, type of carrier gas, carrier gas			

	coloumn pressure, flow rates, split flow, detector gas flow rates and all detector parameters.			
4	GC should have routine automatic column evaluation procedure and storing the column pneumatic resistance. It should also allow an automated correction of the nominal column parameters			

**b) Oven**

	<b>Required Specification</b>	<b>Complying (Yes / No)</b>	<b>Remarks</b>	<b>Documentary evidence enclosed?</b>
1	The coloum oven should have an operating range from ambient to 450°C using the optional sub ambient oven accessory.			
2	Fast heat-up time of 100°C/min or more			
3	The oven temperature stability is within 0.01 °C of set temperature			
4	The operating temperature range should be 3°C above ambient to $\geq 450$ °C			
5	Oven Ramps /Pleatus/Cool down: the instrument should have number of ramps/plateaus: 20/21			

**c) Injector and Autosampler**

	<b>Required Specification</b>	<b>Complying (Yes / No)</b>	<b>Remarks</b>	<b>Documentary evidence enclosed?</b>
	<b>INJECTOR</b>			
1	One Split/Splitness as Standard			
2	One PTV injector as Standard			
3	The injectors should be able to operate with narrow bore capillary, normal capillary and wide bore and columns			
4	The injector should feature an optimized, modular thermal profile for split and splitless/PTV injection with a cold head.			
5	The injector should permit large volume splitless injection (up to 50 microliteres) without requiring pressure pulse to quantiatively recover the whole sample, and without any further hardware requirement.			
6	The injector should allow timed closure/ opening of the purge line			
7	Maximum Temperature should be $\geq 400$ degree C			
8	Split Ratio: $\geq 7000:1$			
9	Pressure in the range of range: 0-950 kPa			
	<b>Auto Sampler:</b>			



	The GCMS/MS should be supplied with atleast 100 vial auto sampler capable of injecting in all installed injectors of GC-MS/MS with different methods.			
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**d) Columns**

	Required Specification	Complying (Yes / No)	Remarks	Documentary evidence enclosed?
1	All columns quoted should be high efficiency, low bleed capillary columns, especially suitable for MS analysis. The columns should have performance certificates which should contain all relevant column parameters.			
2	The following columns should be quoted: <ol style="list-style-type: none"> <li>1. DB-1 MS or equivalent (2 Nos.)</li> <li>2. DB-5 MS or equivalent (2 Nos.)</li> <li>3. DB-35 MS or equivalent (1 No.)</li> <li>4. DB-17 MS or equivalent (1 No.)</li> <li>5. DB-225 MS or equivalent (1 No.)</li> <li>6. Capillary column suitable for determining enantiomeric composition of essential oils (2 No.)</li> <li>7. Capillary column suitable for analysis of mineral oils (1 No.)</li> <li>8. All columns should have dimensions: 30mx0.25mmx0.25 um (please mention if different)</li> </ol>			
3	Column Back flush technology is desirable for column and MS safety and life			

**e) GC Analytical Performance**

	Required Specification	Complying (Yes / No)	Remarks	Documentary evidence enclosed?
	<b>GC Analytical Performance:</b> The GC should have a Retention Time Repeatability of <0.0008 min or better The Peak Area repeatability should be <1% RSD or better (Please provide data)			<b>YES / NO</b>

**3. TRIPLE QUADRUPOLE MS/MS SYSTEM**

**a) Mass Analyzer**

	Required Specification	Complying (Yes / No)	Remarks	Documentary evidence enclosed?
1	<b>A high sensitivity Triple Quadrupole GC-MS/MS System.</b> Features for elimination of neutral noise and increasing sensitivity should be available. Should have high efficient ion transmission form Q1 to Q2 and Q2 to Q3.			
2	<b>Ionization:</b> <ol style="list-style-type: none"> <li>1. EI with dual filaments</li> </ol>			

	<ol style="list-style-type: none"> <li>2. CI +ve and -ve</li> <li>3. The calibration standards for EI and CI should be provided.</li> </ol>			
3	<b>Pumping Systems</b> <ol style="list-style-type: none"> <li>1. Dual stage, air cooled turbomolecular pump with capacity of 300L/Sec or higher for fast vacuum.</li> <li>2. Easy change over from EI to CI should be available.</li> <li>3. Should allow the system to withstand high carrier flow rates of 15 ml/min or higher.</li> <li>4. The pump should be covered under the comprehensive warranty clause (Section III)</li> </ol>			
4	<b>Electron Energy</b> The system should have user selectable electron energy from 10-150eV or higher.			
5	<b>Emission Current, dual filaments</b> It should have emission current up to 200 ua with improved regulation at low current.			
6	<b>Collision Cell:</b> Efficient collision cell for generation of daughter ions capable of providing high sensitivity MS/MS analysis.			
7	<b>Transfer Line Temperature</b> The temperature should be up to 400 degree C.			

**b) Operational Modes and other requirements**

	Required Specification	Complying (Yes / No)	Remarks	Documentary evidence enclosed?
1	The mass range should be 10-1000 a.m.u. or better.			
2	<b>Scan Speed:</b> The MS should have a scan speed of <b>at least 6,000 amu/second</b> or better. It should have the ability to acquire at least 50 scans per second in full scan mode.			
3	<b>Mode (MS)</b> It should have full scan, SIM, timed-SIM, combined full scan/SIM and combined full scan/timed-SIM modes.			
4	<b>Modes (MS/MS)</b> It should have MRM, timed-MRM, combined MRM/full scan, combined timed MRM/full scan product ion scan modes. The following features should be available: <ol style="list-style-type: none"> <li>1. Up to 500 MRM/second acquisition rate.</li> <li>2. Resolution of 0.7 Da with mass stability of</li> </ol>			

	+/- 0.1Da 3. User adjustable resolution with required selectable settings up to 4 Da on both Q1 and Q3 4. Minimum Dwell time of 1 ms			
5	<b>Scan Speed</b> The MS should have scan speed >6000 a.m.u./second or better. It should have an ability to acquire more than 50 scans/sec in full scan.			
6	MRM transitions-500 MRM transitions per second			

**c) Software Features and Data System**

	<b>Required Specification</b>	<b>Complying (Yes / No)</b>	<b>Remarks</b>	<b>Documentary evidence enclosed?</b>
1	It should have Automated MRM Development			
2	It should have Automated acquisition window adjustment based on retention time.			
3	It should have Compound based MRM Library			
4	It should have a software for controlling and acquiring all the MS and conventional detectors			
5	It should have software for reporting for environmental and food safety market as per international protocols.			
6	The latest version of the NIST, Wiley, PMW (licensed version) should be included.			
7	The software should be user friendly, capable of controlling the entire functions of GC and MS/MS, with required licenses for systems suitability calculations; all accessories required for its operation should be quoted.			
8	The software should have full fledged capability of calculating system suitability parameters, both for MS and GC			
9	Full-fledged reporting facility with capability of customized user-designed report format should be available.			
10	The software should necessarily have the following features:			
a.	Retention-time based programming/ monitoring of MRM scans, so that only desired MRMs and multiple MRM transition ions are monitored in desired retention time ranges.			
c.	Automated quantitative data processing features with database of Maximum number of molecules.			
d.	Option for naming MRM transitions.			

#### 4. COMPUTER AND PRINTER

	Required Specification	Complying (Yes / No)	Remarks	Documentary evidence enclosed?
1	Computer DVD writer and color laser printer suitable for operation with the software (specification mentioned above) should be quoted.			

#### 5. SYSTEM PERFORMANCE REQUIREMENTS

The requirements in this section pertain to the working requirements of the system. Any claims made in the compliance should be substantiated by giving suitable detailed outputs from the quoted model of the instrument generated at the applications labs of the supplier, in the form of report for easy reference. The reports should necessarily include the instrument output data, graphs and chromatograms. The claims in the compliance statement should be demonstrable, at the time of installation. The submitted data will need to be reproduced in the presence of Spices Board Officials, if necessary.

	Required Specification	Complying (Yes / No)	Remarks	Documentary evidence enclosed?
1	Sensitivity of the instruments: In EI MRM transition 272-222/241 at unit resolution (0.7+/- 0.1 a.m.u), 100 fg on -column GC injection of OFN should give an S/N ratio of at least 12,000:1. For ten injections % of RSD should be <5%. Chromatograms to be provided, with details of mobile phase, column and injection volume used.			YES / NO
2	Analysis of pesticide residues: A limit of quantitation of methyl parathion, Quinalphos and profenophos in chilli matrix of <b>at least 1 ppb</b> in MRM mode (please provide full extraction and instrument method details and chromatograms / spectrum. Also mention the lowest LOQ achievable)			YES / NO
3	Pre-configured and optimized methods, with reference standards, for analysis of pesticide residues (provide details)			YES / NO
4	MRM list and production spectra for a wide range of compounds including pesticide residues, screening and quantitation (provide details)			YES / NO

#### 6. SUPPORT SYSTEMS, PARES AND ACCESSORIES

##### a) UPS System

	Required Specification	Complying (Yes / No)	Remarks	Documentary evidence enclosed?
1	A 15KVA/suitable dedicated UPS sysem with Exide 6EL+, 150 AH tubular batteries capable of providing 5 hours back up to the GC MS/MS system should be quoted.			

**b) Gases / Gas Generators**

	<b>Required Specification</b>	<b>Complying (Yes / No)</b>	<b>Remarks</b>	<b>Documentary evidence enclosed?</b>
1	Two cylinders each of <u>all required gases</u> for operation of the system should be provided, to be quoted from local sources for supply at the installation site. Purity of the required Gases should be 99.9995%			
2	Gas generators, where quoted, should be covered under the comprehensive warranty clause (Section III)			
3	Two regulators of high quality (one for use, one spare) should be provided for each gas required for the system. The gas piping connections of high and appropriate quality, including any fitter and purification systems, should be provided and installed along with the system.			

**c) Accessories and spares**

	<b>Required Specification</b>	<b>Complying (Yes / No)</b>	<b>Remarks</b>	<b>Documentary evidence enclosed?</b>
1	All required standards of mass calibration and turning, and any other material required to make the instrument functional should be provided.			
2	Pack of 5000 vials, complete with septa and cap, should be included			
3	Filter – 2 Nos.			
4	Calibrated Digital Flow Meter- 1 No. With NABL Accredited certificate			
5	Calibrated Digital Temperature meter with probe-1 No. With NABL Accredited Certificate (-25-400)			
6	Septa for GC (400 Nos.)			
7	PTV Maintenance kit for GC-1 No.			
8	Syringes-Autosampler (10uL) 10 each			
9	Filament- 10 nos			
10	Spare SS inj module with Pneumatics for GC-1 No.			
11	2 ml vials and caps for auto sampler-3000 nos			
12	Graphite Ferrules for Capillary columns of 0.25 and 0.32 mm id – 20 each			
13	Inert Glass Liners with glass wool for Split injections 10 each			

14	Oil for vacuum pump-5L			
	<b>Essential Accessories</b>			
1	Shiortix Tubing Cutter-2 Nos.			
2	Standard installation Table and Chair with sufficient bech-top area to accomodate GC-MS/MS and data station should be quoted			

**7. TERMS AND CONDITIONS**

	<b>Required Specification</b>	<b>Complying (Yes / No)</b>	<b>Remarks</b>	<b>Documentary evidence enclosed?</b>
	A minimum of 5 operational installations of the quoted model in India should be available for the instrument to be considered for purchase			
	A comprehensive warranty for 5 years for the complete equipment including Spares and Accessories should be provided. Independent accessories like UPS and gas generators/ Cyliders also should be covered under 5 Years Warranty. The warranty should include mass calibration performed Quaterly with valid Standard provided by the vendor. In case of breakdown, service should be available onsite within 24 hours (See Section III below).			
	Upon installation, an LOQ of 1 ppb at S:N ratio 50:1 and other QA/QC checks of the Quoted Model for the following Pesticides in the spice matrix provided by the lab should be demonstrated: Profenophos, Iprobenphos, Triazophos, Quinalphos, Phorate, Chlorpyriphos, Bifenthrin, Cypermethrin, Methyl parathion, Malathion, Dithion and Imidachloprid.			

***Declaration 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.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

DATE

Please see section III below for financial bid. **Section III is not to be filled in the Technical Bid.**

**Section III: Financial Bid**  
**GC MS/MS System**

This sheet is to be attached as a covering sheet along with the formal technical bid of the quoted instrument. In case more than one instrument / model is quoted, separate sheets have to be attached with each quotation.

Financial Summary for the Instrument model : \_\_\_\_\_

Price Description		Price	Comments (if any)
Quoted Currency			
Total Instrument Cost	[a]		
Total cost of Supporting Instruments	[b]		
Comprehensive Warranty Charges	[c]		
Any other charges	[d]		
CIF Kolkata, Gujarat [a] + [b] + [c] + [d] =	[e]		
Conversion Factor to INR*	[f]		
Total Price in INR [e] x [f] =	[g]		
**Toal cost of Items quoted in INR =	[h]		
Final Price in INR = g + h =	[i]		

\* Use the conversion factor as on the date prior to the date of submission of the quotation and mention this date clearly.

\*\* Give full list of items quoted in Indian Rupees separately.

***Declaration 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.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

**DATE**

## Annexure 2 Recirculating Chiller

No. of Instruments required: 2 (Kochi, Kolkata)

### Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/TENDER/INST & ACCYS-1/2017

26-9-2017

**Location of Supply and Installation:**

**The Instrument(s) will be required to be delivered and installed at the following locations:**

Spices Board Quality Evaluation Laboratory  
C/o Project Site, District Headquarter of South 24, Paraganas at Baruipur,  
JL No. 48, LR Khatian No. 1311, Mouza-Chakarbar,  
PO&PS Baruipur District South 24-Paraganas  
West Bengal 700144

Spices Board Quality Evaluation Laboratory  
Sugandha Bhavan, Palarivattom PO,  
Near NH Bypass,  
Kochi  
Kerala 682025

*The technical bid is to be submitted by filing in Section I and II, duly signed by the authorized signatory in the 'Declaration of the Bidder'. Section III is to be left blank. incompleteness in filling up this form or failure to attach the required supporting data or documents, may result in rejection of the quotation.*

### Section I: Details of the Quotation

Quotation Submitted By	
Quotation Reference No.	
Date of submission of quotation	
Details of EMD submitted (if any)	
Full Address	
Name of principal supplier (if not self)	



Authorized contact person	
Designation	
Contact details	
List of supporting documents submitted along with the quotation	

## Section II: Compliance with Technical Specifications

### Recirculating Chiller

***Against each point in the technical specification, compliance must be marked as YES / NO***

	Required Specification	Complying (Yes / No)	Remarks	Documentary evidence enclosed?
1.	Heavy duty system, with sturdy design Compact and portable on wheels			
2.	Capable of circulating chilled coolant (water based or otherwise) through a minimum of ten soxhlet type Condensers connected in series			
3.	Coolant reservoir of sufficient capacity for recirculation and made of high grade SS			
4.	Digital display of set and actual temperature, control unit capable of setting coolant temperature in increments of 1°C			
5.	Durable and capable of operating at the set temperature for the entire range with a maximum permissible variation of $\pm 2.0^{\circ}\text{c}$ , for at least 10 hours continuously.			
6.	Working temperature range $-10^{\circ}$ to $35^{\circ}\text{C}$			
7.	The system should use CFC free refrigeration technology.			
8.	Protection for over temperature			
9.	Suitable coolant to be quoted in adequate amount. If water based, full details should be given			
10.	Suitable length of coolant tubes with proper insulation should be quoted. The length should be enough to connect ten soxhlet type condensers in series. As shown in Figure 1			
11.	A compliance statement with each point in the specification should compulsorily accompany the			

	quotation, without which the quotation will be considered incomplete.			
12.	User's list with contact numbers of the quoted model in India			
13.	Any breakdown of the systems during the warranty period has to be resolved in 48 hours.			
14.	A comprehensive warranty with all necessary spares for 5 years for the complete equipment should be provided.			

**Additional Terms and Conditions**

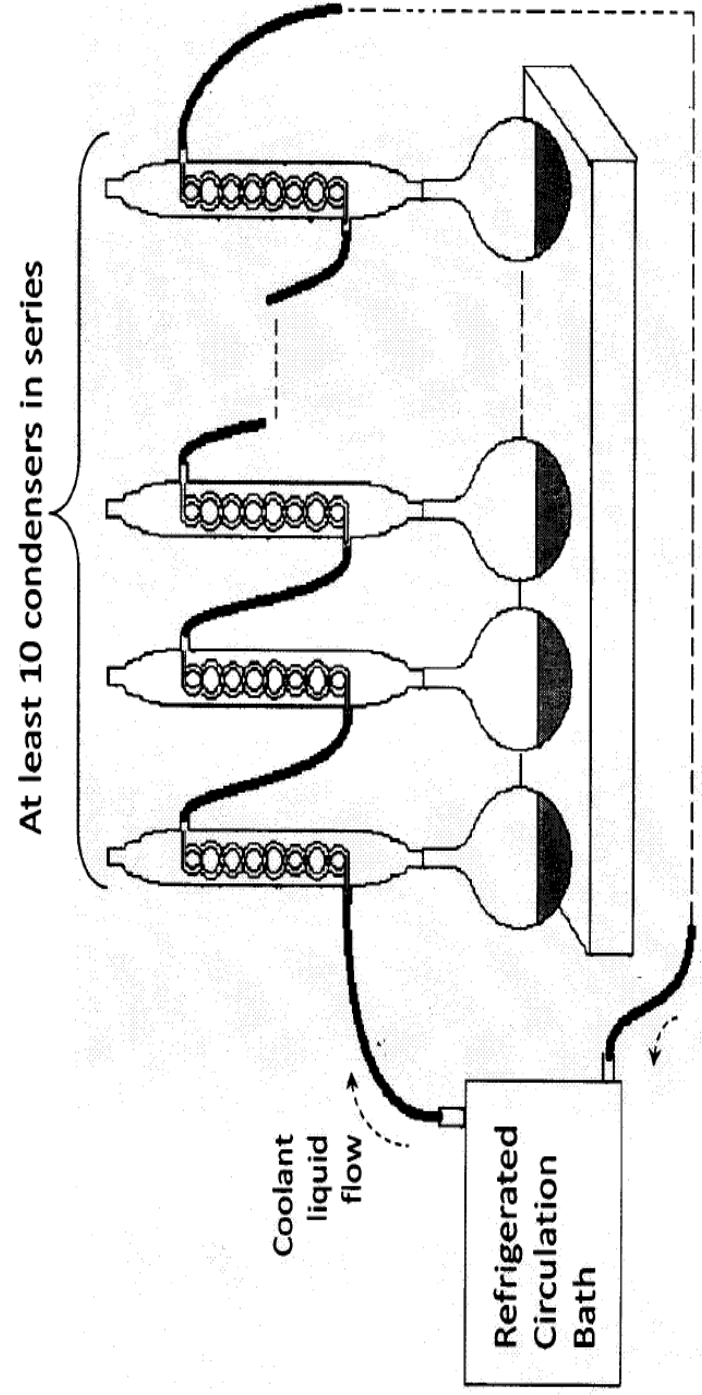
1	A complete compliance statement (this sheet filled in), stating the status of compliance with each point in the technical specification, should necessarily accompany the quotation.			
2	A minimum of 5 users of the quoted model in India should be available. The list of these users, with full details of contact persons, addresses, telephone, mobile and email should be provided in table form.			

**Comprehensive Warranty**

1	The warranty period should be 5 Years. All breakdown of the instrument should be addressed within 24 hours by an onsite visit.			
2	All parts of the instrument, accessories and supporting instruments should be covered under the warranty. If any accessory / spare part / consumable is not covered under the comprehensive warranty, then the itemised list of such items, including their prices during the period 2014-15 and average lifetime of the items should be provided.			
3	The equipment should be installed at the proposed site, demonstrate the required objective of the test with the claimed limit of detection/quantification with the sample provided.			
4	Training should be given to the staff at the site, for the operation of the instrument on demand			
5	Any accessory system(s) other than those mentioned in the technical specifications, that are required for satisfactory installation of the system should be quoted and supplied with the instrument.			
6	Agency commission: Agency commission if any will be paid to the Indian agent in rupees on receipt of the equipment and after satisfactory installation.			
7	Agency commission will not be paid in foreign currency under any circumstances. The details should be explicitly shown in tender even in case of Nil commission. The tender should indicate the percentage of Agency commission to be paid to the Indian agent.			

A Schematic drawing of the required instrument setup is given in the following figure.

**Schematic : Requirements for Refrigerated Circulation Bath**



**Fig. 1**

***Declaration 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.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

DATE

Please see section III below for financial bid. **Section III is not to be filled in the Technical Bid.**

**Section III: Financial Bid**  
**Recirculating Chiller**

This sheet is to be attached as a covering sheet along with the formal technical bid of the quoted instrument. In case more than one instrument / model is quoted, separate sheets have to be attached with each quotation.

Financial Summary for the Instrument model : \_\_\_\_\_

Price Description		Price	Comments (if any)
Quoted Currency			
Total Instrument Cost	[a]		
Total cost of Supporting Instruments	[b]		
Comprehensive Warranty Charges	[c]		
Any other charges	[d]		
CIF Kolkata, Gujarat [a] + [b] + [c] + [d] =	[e]		
Conversion Factor to INR*	[f]		
Total Price in INR [e] x [f] =	[g]		
**Toal cost of Items quoted in INR =	[h]		
Final Price in INR = g + h =	[i]		

\* Use the conversion factor as on the date prior to the date of submission of the quotation and mention this date clearly.

\*\* Give full list of items quoted in Indian Rupees separately.

***Declaration 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.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

**DATE**

# Annexure 3

## Rotary Evaporator

No. of Instruments required: 2 (Kochi, Kolkata)

### Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/TENDER/INST & ACCYS-1/2017

26-9-2017

#### Location of Supply and Installation:

The Instrument(s) will be required to be delivered and installed at the following locations:

Spices Board Quality Evaluation Laboratory  
C/o Project Site, District Headquarter of South 24, Paraganas at Baruipur,  
JL No. 48, LR Khatian No. 1311, Mouza-Chakarbar,  
PO&PS Baruipur District South 24-Paraganas  
West Bengal 700144

Spices Board Quality Evaluation Laboratory  
Sugandha Bhavan, Palarivattom PO,  
Near NH Bypass,  
Kochi  
Kerala 682025

*The technical bid is to be submitted by filing in Section I and II, duly signed by the authorized signatory in the 'Declaration of the Bidder'. Section III is to be left blank. incompleteness in filling up this form or failure to attach the required supporting data or documents, may result in rejection of the quotation.*

### Section I: Details of the Quotation

Quotation Submitted By	
Quotation Reference No.	
Date of submission of quotation	
Details of EMD submitted (if any)	
Full Address	

Name of principal supplier (if not self)	
Authorized contact person	
Designation	
Contact details	
List of supporting documents submitted along with the quotation	

## Section II: Compliance with Technical Specifications

### Rotary Evaporator

***Against each point in the technical specification, compliance must be marked as YES / NO***

	Required Specification	Complying (Yes/No)	Remarks	Documentary Evidence Enclosed?
1	The system must contain a) rotary evaporator b) diaphragm vacuum pump c) re-circulating chiller, all made by the same company. All the components of the system should be supplied together. The system should meet the following technical specifications:			
2	<b>Rotary Evaporator</b>			
3	Should be consisting of motorised lift with provision of automatic lift in case of electricity failure.			
5	Vertical condenser			
6	Rotation speed : Rotation speed 20 to 280 rpm or better			
7	Integrated/ non-integrated Digital display of all parameter i.e. rotation speed, bath temperature, vacuum, vapour temperature (both set and actual)etc. Control unit should be inbuilt.			
8	Evaporating flask: 50ml, 100ml, 500ml, 1000ml should be supplied.			
9	Receiving flask: 1000ml x 4 Nos.			
10	Heating bath capacity: 4.5 lit or above			
11	Heating (minimum)180 deg C or above			
12	Automatic over heat cut-off protection			
13	Must have USB Interface for data management with software			

14	Must be supplied along with woulff bottle.			
15	System should have capability to find boiling point and perform distillation automatically/Integrated solvent database of solvents for convenient setting of distillation conditions.			
16	Should be able to program the required vacuum change in a ramp			
17	Must have 'timer function' which can allow unattended operations.			
18	<b>Vacuum Pump</b>			
19	Ultimate vacuum less than 10mbar			
20	Should be controlled by controller attached or inbuilt in rotary evaporator			
21	Suction capacity 1.8 cubic metre /h or more			
22	Diaphragm made of chemically inert substance/PTFE			
23	Re-circulating chiller			
24	Compact and robust chiller with temperature range -10degC to unspecified			
25	Digital display of temperature			
26	Cooling capacity 400 watt at 15 deg C or more			
	<b>Additional Terms and Conditions</b>			
27	A complete compliance statement (this sheet filled in), stating the status of compliance with each point in the technical specification, should necessarily accompany the quotation.			
28	A minimum of 20 users of the quoted model in India should be available. The list of these users, with full details of contact persons, addresses, telephone, mobile and email should be provided in table form.			

#### **Comprehensive Warranty**

1	The warranty period should be 5 Years. All breakdown of the instrument should be addressed within 24 hours by an onsite visit.			
2	All parts of the instrument, accessories and supporting instruments should be covered under the warranty. If any accessory / spare part / consumable is not covered under the comprehensive warranty, then the itemised list of such items, including their prices during the period 2014-15 and average lifetime of the items should be provided.			
3	The equipment should be installed at the proposed site, demonstrate the required objective of the test with the claimed limit of detection/quantification with the sample provided.			
4	Training should be given to the staff at the site, for the operation of the instrument on demand			



5	Any accessory system(s) other than those mentioned in the technical specifications, that are required for satisfactory installation of the system should be quoted and supplied with the instrument.			
6	Agency commission: Agency commission if any will be paid to the Indian agent in rupees on receipt of the equipment and after satisfactory installation.			
7	Agency commission will not be paid in foreign currency under any circumstances. The details should be explicitly shown in tender even in case of Nil commission. The tender should indicate the percentage of Agency commission to be paid to the Indian agent.			

***Declaration 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.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

DATE

Please see section III below for financial bid. **Section III is not to be filled in the Technical Bid.**

**Section III: Financial Bid**  
**Rotary Evaporator**

This sheet is to be attached as a covering sheet along with the formal technical bid of the quoted instrument. In case more than one instrument / model is quoted, separate sheets have to be attached with each quotation.

Financial Summary for the Instrument model : \_\_\_\_\_

Price Description		Price	Comments (if any)
Quoted Currency			
Total Instrument Cost	[a]		
Total cost of Supporting Instruments	[b]		
Comprehensive Warranty Charges	[c]		
Any other charges	[d]		
CIF Kolkata, Gujarat [a] + [b] + [c] + [d] =	[e]		
Conversion Factor to INR*	[f]		
Total Price in INR [e] x [f] =	[g]		
**Toal cost of Items quoted in INR =	[h]		
Final Price in INR = g + h =	[i]		

\* Use the conversion factor as on the date prior to the date of submission of the quotation and mention this date clearly.

\*\* Give full list of items quoted in Indian Rupees separately.

**Declaration 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.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

**DATE**

# Annexure 4

## pH Meter

No. of Instruments required: 2 (Kochi, Kolkata)

### Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/TENDER/INST & ACCYS-1/2017

26-9-2017

#### Location of Supply and Installation:

The Instrument(s) will be required to be delivered and installed at the following locations:

Spices Board Quality Evaluation Laboratory  
C/o Project Site, District Headquarter of South 24, Paraganas at Baruipur,  
JL No. 48, LR Khatian No. 1311, Mouza-Chakarbar,  
PO&PS Baruipur District South 24-Paraganas  
West Bengal 700144

Spices Board Quality Evaluation Laboratory  
Sugandha Bhavan, Palarivattom PO,  
Near NH Bypass,  
Kochi  
Kerala 682025

*The technical bid is to be submitted by filing in Section I and II, duly signed by the authorized signatory in the 'Declaration of the Bidder'. Section III is to be left blank. incompleteness in filling up this form or failure to attach the required supporting data or documents, may result in rejection of the quotation.*

### Section I: Details of the Quotation

Quotation Submitted By	
Quotation Reference No.	
Date of submission of quotation	
Details of EMD submitted (if any)	
Full Address	

Name of principal supplier (if not self)	
Authorized contact person	
Designation	
Contact details	
List of supporting documents submitted along with the quotation	

## Section II: Compliance with Technical Specifications

### pH Meter

***Against each point in the technical specification, compliance must be marked as YES / NO***

	Required Specification	Complying (Yes/No)	Remarks	Documentary Evidence Enclosed?
1	pH Range: 0 to 14			
2	pH Resolution: 0.001 pH			
3	pH Stability : 0.002 pH per hour			
4	pH Relative Accuracy: $\pm 0.002$ pH $\pm 1$ Digit			
5	pH Slope: 85% to 115%			
6	pH Standard Buffers: 1.679, 4.004, 7.000, 9.183, 12.454 (NIST traceable)			
7	pH Buffer Deviation: $\pm 0.5$ pH			
8	mV Range: 0 to $\pm 1999.9$ mV			
9	mV Resolution: 0.1 mV			
10	mV Accuracy: $\pm 0.5$ mV $\pm 1$ Digit or $\pm 0.05\%$ of reading			
11	Temperature Compensation: Auto/Manual			
12	Temperature Range: 0 to 99°C			
13	Temperature Resolution: 0.1°C			
14	Temperature Accuracy: $\pm 0.5$ °C $\pm 1$ Digit			
15	Display: 2 line, 20 - Character alphanumeric LCD			
16	Annunciation: Individual LED with keys for calibration, pH, ABS mV REL mV and Print			

17	Printer Port: Suitable to connect to a digital Printer			
18	Power: 230 V AC $\pm$ 10% , 50 Hz			
19	Dimensions: 250 (W) X205 (D) X75(H) mm			
20	Accessories: pH Electrode (Combined); Temperature probe (PT-100 Sensor), Electrode Stand & Clamp			
Additional Terms and Conditions				
9	A complete compliance statement (this sheet filled in), stating the status of compliance with each point in the technical specification, should necessarily accompany the quotation.			
10	A minimum of 5 users of the quoted model in India should be available. The list of these users, with full details of contact persons, addresses, telephone, mobile and email should be provided in table form.			

#### **Warranty**

1	The warranty information for the instrument should be mentioned in the tender with full details, duration, terms and conditions and the parts covered.			
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#### ***Declaration 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.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

DATE

Please see section III below for financial bid. **Section III is not to be filled in the Technical Bid.**

**Section III: Financial Bid**  
**pH Meter**

This sheet is to be attached as a covering sheet along with the formal technical bid of the quoted instrument. In case more than one instrument / model is quoted, separate sheets have to be attached with each quotation.

Financial Summary for the Instrument model : \_\_\_\_\_

Price Description		Price	Comments (if any)
Quoted Currency			
Total Instrument Cost	[a]		
Total cost of Supporting Instruments	[b]		
Comprehensive Warranty Charges	[c]		
Any other charges	[d]		
CIF Kolkata, Gujarat [a] + [b] + [c] + [d] =	[e]		
Conversion Factor to INR*	[f]		
Total Price in INR [e] x [f] =	[g]		
**Toal cost of Items quoted in INR =	[h]		
Final Price in INR = g + h =	[i]		

\* Use the conversion factor as on the date prior to the date of submission of the quotation and mention this date clearly.

\*\* Give full list of items quoted in Indian Rupees separately.

***Declaration 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.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

**DATE**

## Annexure 5

### Electrochemical Derivatization System for Analysis of Aflatoxins

No. of Instruments required: 8 (Kolkata, Kochi, Mumbai, Kandla, Narela, Chennai, Tuticorin, Guntur)

#### Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/TENDER/INST & ACCYS-1/2017

26-9-2017

#### Location of Supply and Installation:

The Instrument(s) will be required to be delivered and installed at the following locations:

1 Spices Board Quality Evaluation Laboratory C/o Project Site, District Headquarter of South 24, Paraganas at Baruipur, JL No. 48, LR Khatian No. 1311, Mouza-Chakarbar, PO&PS Baruipur District South 24-Paraganas West Bengal 700144	5 Spices Board Quality Evaluation Laboratory Near Satyawadi Raja Harishchandra Hospital, Behind Indian Oil petrol pump, Narela, New Delhi, India
2 Spices Board Quality Evaluation Laboratory Sugandha Bhavan, Palarivattom PO, Near NH Bypass, Kochi Kerala 682025	6 Spices Board Quality Evaluation Laboratory Plot No. R-11, SIPCOT Industrial Complex, North End Road, Gummidipoondi Chennai - 601 201.
3 Spices Board Quality Evaluation Laboratory EL-184, Electronic Zone TTC Industrial Area, M I D C Navi Mumbai-400710	7 Spices Board Quality Evaluation Laboratory World Trade Avenue, Harbour Estate, New Port, TUTICORIN-628004
4 Spices Board Quality Evaluation Laboratory Plot NO. 22A, Sector 8, Gandhidham, Gujarat - 370201	8 Spices Board Quality Evaluation Laboratory Chuttugunta Centre, GT Road, Guntur-522004.

*The technical bid is to be submitted by filing in Section I and II, duly signed by the authorized signatory in the 'Declaration of the Bidder'. Section III is to be left blank. incompleteness in filling up this form or failure to attach the required supporting data or documents, may result in rejection of the quotation.*

### Section I: Details of the Quotation

Quotation Submitted By	
Quotation Reference No.	
Date of submission of quotation	
Details of EMD submitted (if any)	
Full Address	
Name of principal supplier (if not self)	
Authorized contact person	
Designation	
Contact details	
List of supporting documents submitted along with the quotation	

### Section II: Compliance with Technical Specifications Electrochemical Derivatization System for Analysis of Aflatoxins (8 Nos)

	Required Specification	Complying (Yes/No)	Remarks	Documentary Evidence Enclosed?
1	Post column electrochemical derivatization unit for derivatization of Aflatoxins B1 and G1 for analysis by HPLC			
2	Must be capable of increasing fluorescent signals of Aflatoxins to achieve a minimum quantification limit of 0.5 ug/kg (ppb) or less for analysis in HPLC with fluorescence detector. Proof to be provided including chromatograms and system suitability results.			
3	The system should be capable of bringing			



	about complete derivatization with minimum time. Full details to be provided.			
4	Must be officially recognized by internationally accepted methods / bodies like ASTA, AOAC or equivalent. Full details to be provided.			
5	All accessories for installation and operation of the system should be included in the quote. Two extra derivatization membranes for the system should be quoted. The shelf life and individual cost of these membranes should be mentioned in the tender document.			
6	Any accessories / consumables required for trouble free operation of the system for a period of two years to be quoted.			
7	Full warranty information should be provided.			
8	The quoted model should have a minimum of 5 users in India. The list of users should be provided in the format mentioned in the terms and conditions of this tender.			

*Declaration by the Bidder*

It is hereby declared that, the technical details given above are correct as pertaining to the quoted model, and all data and reports required for substantiation technical claims have been submitted.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY  
DATE

Please see section III below for financial bid. **Section III is not to be filled in the Technical Bid.**

**Section III**  
**Financial Bid**  
**Electrochemical Derivatization System for Analysis of Aflatoxins (8 Nos)**

This sheet is to be attached as a covering sheet along with the formal financial bid of the quoted instrument. In case more than one instrument / model is quoted, separate sheets have to be attached with each quotation.

Financial Summary for the Instrument model : \_\_\_\_\_

Price Description		Price	Comments (if any)
Quoted Currency			
Total Instrument Cost	[a]		
Total cost of Supporting Instruments	[b]		
Comprehensive Warranty Charges (if applicable)	[c]		
Any other charges	[d]		
CIF [a] + [b] + [c] + [d] =	[e]		
Conversion Factor to INR*	[f]		
Total Price in INR [e] x [f] =	[g]		
**Total cost of Items quoted in INR =	[h]		
Final Price in INR = g + h =	[i]		

\* Use the conversion factor as on the date prior to the date of submission of the quotation and mention this date clearly.

\*\* Give full list of items quoted in Indian Rupees separately.

***Declaration by the Bidder***

It is hereby declared that, the financial details given above are correct as pertaining to the quoted model, and all data and reports required for substantiation technical claims have been submitted.

SIGNATURE OF TENDERER  
 SEAL OF THE COMPANY  
 DATE

## Annexure 6

### Laboratory Bender for Extraction of Mycotoxins

No. of Instruments required: 8 (Kolkata, Kochi, Mumbai, Kandla, Narela, Chennai, Tuticorin, Guntur)

#### Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/TENDER/INST & ACCYS-1/2017

26-9-2017

#### Location of Supply and Installation:

The Instrument(s) will be required to be delivered and installed at the following locations:

1 Spices Board Quality Evaluation Laboratory C/o Project Site, District Headquarter of South 24, Paraganas at Baruipur, JL No. 48, LR Khatian No. 1311, Mouza-Chakarbar, PO&PS Baruipur District South 24-Paraganas West Bengal 700144	5 Spices Board Quality Evaluation Laboratory Near Satyawadi Raja Harishchandra Hospital, Behind Indian Oil petrol pump, Narela, New Delhi, India
2 Spices Board Quality Evaluation Laboratory Sugandha Bhavan, Palarivattom PO, Near NH Bypass, Kochi Kerala 682025	6 Spices Board Quality Evaluation Laboratory Plot No. R-11, SIPCOT Industrial Complex, North End Road, Gummidipoondi Chennai - 601 201.
3 Spices Board Quality Evaluation Laboratory EL-184, Electronic Zone TTC Industrial Area, M I D C Navi Mumbai-400710	7 Spices Board Quality Evaluation Laboratory World Trade Avenue, Harbour Estate, New Port, TUTICORIN-628004
4 Spices Board Quality Evaluation Laboratory Plot NO. 22A, Sector 8, Gandhidham, Gujarat - 370201	8 Spices Board Quality Evaluation Laboratory Chuttugunta Centre, GT Road, Guntur-522004.

*The technical bid is to be submitted by filing in Section I and II, duly signed by the authorized signatory in the 'Declaration of the Bidder'. Section III is to be left blank. incompleteness in filling up this form or failure to attach the required supporting data or documents, may result in rejection of the quotation.*

### Section I: Details of the Quotation

Quotation Submitted By	
Quotation Reference No.	
Date of submission of quotation	
Details of EMD submitted (if any)	
Full Address	
Name of principal supplier (if not self)	
Authorized contact person	
Designation	
Contact details	
List of supporting documents submitted along with the quotation	

### Section II: Compliance with Technical Specifications Laboratory blender for extraction of mycotoxins (8 Nos)

	Required Specification	Complying (Yes/No)	Remarks	Documentary Evidence Enclosed?
1	A laboratory blender for extraction of spice samples as per ASTA analytical manual method No. 24.2 should be quoted.			
2	The instrument should be solvent resistant and should be able to handle organic solvents like acetonitrile and methanol without safety issues or fire hazard.			
3	The jar should be stainless steel and should have a capacity should be minimum 750ml.			

4	In-built timer and speed control. Maximum time and speed setting should be specified.			
5	In built safety measures in case of leakage of solvents, preventing any seepage of organic solvent into electrical parts of the blender (provide details)			
6	One spare jar, and two sets of blade assembly should be quoted.			
7	Any other accessory required for the operation of the instrument should be quoted.			
8	Full warranty information should be provided.			
9	The quoted model should have a minimum of 5 users in India. The list of users should be provided in the format mentioned in the terms and conditions of this tender.			

*Declaration by the Bidder*

It is hereby declared that, the technical details given above are correct as pertaining to the quoted model, and all data and reports required for substantiation technical claims have been submitted.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

**DATE**

Please see section III below for financial bid. **Section III is not to be filled in the Technical Bid.**

**Section III**  
**Financial Bid**  
**Laboratory Blender for Analysis of Mycotoxins (8 Nos.)**

This sheet is to be attached as a covering sheet along with the formal financial bid of the quoted instrument. In case more than one instrument / model is quoted, separate sheets have to be attached with each quotation.

Financial Summary for the Instrument model : \_\_\_\_\_

Price Description		Price	Comments (if any)
Quoted Currency			
Total Instrument Cost	[a]		
Total cost of Supporting Instruments	[b]		
Comprehensive Warranty Charges (if applicable)	[c]		
Any other charges	[d]		
CIF [a] + [b] + [c] + [d] =	[e]		
Conversion Factor to INR*	[f]		
Total Price in INR [e] x [f] =	[g]		
**Total cost of Items quoted in INR =	[h]		
Final Price in INR = g + h =	[i]		

\* Use the conversion factor as on the date prior to the date of submission of the quotation and mention this date clearly.

\*\* Give full list of items quoted in Indian Rupees separately.

***Declaration by the Bidder***

It is hereby declared that, the financial details given above are correct as pertaining to the quoted model, and all data and reports required for substantiation technical claims have been submitted.

SIGNATURE OF TENDERER  
 SEAL OF THE COMPANY  
 DATE

**Annexure 7**  
**LC MS/MS System [under buy back]**  
**No. of Instruments required: 2 (Kochi, Kolkata)**

**Technical Specifications**  
(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/TENDER/INST & ACCYS-1/2017

26-9-2017

**Location of Supply and Installation:**

The Instrument(s) will be required to be delivered and installed at the following locations:

Spices Board Quality Evaluation Laboratory  
C/o Project Site, District Headquarter of South 24, Paraganas at Baruipur,  
JL No. 48, LR Khatian No. 1311, Mouza-Chakarbar,  
PO&PS Baruipur District South 24-Paraganas  
West Bengal 700144

Spices Board Quality Evaluation Laboratory  
Sugandha Bhavan, Palarivattom PO,  
Near NH Bypass,  
Kochi  
Kerala 682025

*The technical bid is to be submitted by filing in Section I and II, duly signed by the authorized signatory in the 'Declaration of the Bidder'. Section III is to be left blank. incompleteness in filling up this form or failure to attach the required supporting data or documents, may result in rejection of the quotation.*

**Section I: Details of the Quotation**

Quotation Submitted By	
Quotation Reference No.	
Date of submission of quotation	
Details of EMD submitted (if any)	
Full Address	
Name of principal supplier (if not self)	

Authorized contact person	
Designation	
Contact details	
List of supporting documents submitted along with the quotation	

## Section II: Compliance with Technical Specifications

### LC MS/MS System

***Against each point in the technical specification, compliance must be marked as YES / NO***

	Required Specification	Complying (Yes/No)	Remarks	Documentary Evidence Enclosed?
	The HPLC system and the MS/MS system should be manufactured, supplied and installed by a single manufacturer, to ensure seamless integration between the two systems.			
1	<b>Fast HPLC System</b>			
	The HPLC system should be amenable to control / data acquisition from the MS Software.			
	<b>Solvent delivery system</b>			
	Binary gradient system capable of providing stable, high precision flow to the MS/MS system.			
1	Flowrate setting: 0.01ml/min to 2.00ml/min			
2	Flow precision: 0.07 ml or better			
3	Flowrate accuracy: +/- 1% minimum at highest operating pressure			
4	Gradient curve selections			
5	Operating pressure should be minimum 18000 PSI or better			
6	Safety functions like leak sensor, High pressure and low pressure limits			
	<b>Autosampler</b>			
1	Automated operation controllable through MS/MS Software			
2	Automated autosampler purging through software			
3	Injection volume setting range 0.1ul to 40ul or better			
4	Carryover $\leq 0.004\%$			
5	Vials capacity at least 2ml			



6	Number of vials - at least 100			
7	Injection volume accuracy - 1% error maximum			
8	Injection volume precision - 0.3% RSD maximum, for 10ul injection			
9	Number of repeat injections - 30 / sample			
10	Operating pH range 1 - 14			
11	Rinsing / cleaning syringe - settable through software, before and after injection			
	<b>Degasser</b>			
1	Online membrane type degasser			
2	Minimum 5 lines - 4 mobile phases, 1 autosampler rinsing			
	Column Oven			
1	Temperature control from ambient to 85°C			
2	Temperature control precision 0.1°C max			
3	Controllable through MS/MS software			
4	Storage capacity - minimum 3 columns			
5	Safety functions like leak sensor, high temperature cut-off			
	<b>Column compartment and Columns</b>			
1	Column compartment should be integrated with column oven capable of maintaining column temperatures from 10 – 100°C, and should have capability to hold minimum 4 columns at a time, along with guard columns.			
2	The following high resolution, end capped columns suitable for analysis of pesticide residues and azo dyes and natural products using fast HPLC.			
	Fast HPLC C-18 endcapped column – 5cm x 10 Nos.			
	Fast HPLC C-18 endcapped column – 10cm x 5Nos.			
	C-18 25cm x 4.6mm x 5um - 2 No.			
	Fast HPLC C-8 endcapped column – 5cm x 10 Nos.			
	Fast HPLC C-8 endcapped column – 10cm x 5Nos.			
	C-8 25cm x 4.6mm x 5um - 1No.			
3	The columns should be supplied with certificates citing batch no, particle size distribution, Inertness, metal sensitivity, hydrophobic index and column performance checks			
4	20 Nos. each of C-8 and C-18 guard columns, from the same supplier as the columns, should be provided. Replaceable cartridge-type guard columns are desirable. In this case, two separate cartridge holders are to be quoted.			
	<b>MS/MS System</b>			
	Ion Sources			
1	Dual / Orthogonal or off-axis spray or any other equally efficient technology capable of avoiding interference from			

	solvents and other extraneous matter			
2	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.			
3	The source should have self-contained heating system for achieving desired operational temperatures.			
4	Sprayer position should be adjustable in vertical and horizontal directions with adjustment scales for easy optimization.			
5	Facility for visual examination of spray should be available.			
6	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.			
7	The source should be able to handle up to 2ml / min flow, without flow splitting.			
8	The source housing should be fully vented to avoid contaminating laboratory air.			
9	All source parameters to be adjustable through software.			
	<b>Vacuum System</b>			
1	A differentially pumped vacuum system, including air-cooled turbomolecular pump, capable of supplying the required vacuum to the instrument. The system should have vacuum safety features to prevent damage to the instrument in case of failure.			
2	All accessories required for the proper functioning of the vacuum system should be supplied.			
	<b>Mass Analyzer</b>			
1	Triple quadrupole MS/MS System			
2	Mass Range at least 10 - 2000 AMU or better			
3	Mass Accuracy 0.01% over the entire mass range			
4	Mass resolution – 0.5Da or better			
5	Mass Stability: 0.1 Da over 24 hours (please include data in compliance statement)			
6	Collision cell - high pressure collision cell for high sensitivity MRM studies without loss in sensitivity			
7	Scan speed 17000amu/sec or better			
8	Scan Types (minimum as given below):			
	Full Scan MS			
	Selected Ion Monitoring in both Q1 and Q3			
	Precursor Ion Scan			
	Product Ion Scan			

	Neutral Loss Scan			
	MRM			
10	Dwell time ≤ 0.7 millisecond			
11	Minimum Number of MRMs: 200 MRMs in a single time period, with no loss in sensitivity for co-eluting components at any one point of time.			
12	No significant crosstalk should be detectable for reserpine at the following conditions : Infusion of 0.2 pg/ul, for MRMs 609 <sup>®</sup> 195 and 100 <sup>®</sup> 195 at 2 milliseconds dwelltime (please provide graphical data)			
13	+ve / -ve polarity switching time between alternate MRM scans: 30ms or better			
14	A high sensitivity, high throughput detector with zero dead time, low noise and high accuracy at low level detections.			
	<b>Software</b>			
1	Latest model computer with DVD writer and laser printer, suitable for operation with the software, should be quoted.			
2	The software should be user friendly, capable of controlling the entire function of HPLC and MS/MS, with required licenses for system suitability calculations; all accessories required for its operation should be quoted.			
3	The software should have full-fledged capability of calculating system suitability parameters, both for MS and HPLC.			
4	Full-fledged reporting facility with capability of customized user-designed report formats should be available.			
5	The software should necessarily have the following features:			
	Retention-time based programming / monitoring of MRM scans, so that only desired MRMs are monitored in desired retention time ranges			
	Fragment interpretation tools			
	Automated quantitative data processing features			
	Option for naming MRM transitions			
	<b>System Performance Requirements</b>			
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. The data should be reproducible in the laboratory after installation of instrument.				
1	Sensitivity of the instrument: In ESI +ve MRM mode, 1pg on-column HPLC injection of Reserpine should give a S/N ratio of at least 90,000:1. In ESI-ve MRM mode, 1pg on column HPLC injection of chloramphenicol should give S/N at least 60000:1.  For both above cases, ten injections %RSD should be <5%.			

	Chromatograms to be provided, with details of mobile phase, column and injection volume used.			
2	Analysis of Mycotoxins: A limit of quantitation of Aflatoxin B1 in chilli matrix of at least 1ppb without using immunoaffinity column cleanup (please provide full method details and chromatograms. Also mention the lowest LOQ achievable.)			
3	Analysis of Illegal Dyes: A limit of quantitation of Para Red in chilli matrix of at least 0.5 ppb (please provide full method details and chromatograms. Also mention the lowest LOQ achievable.)			
4	Analysis of Pesticide Residues: A limit of quantitation of Methyl Parathion in chilli matrix of at least 0.5ppb (please provide full method details and chromatograms. Also mention the lowest LOQ achievable.)			
	<b>Desirable Features</b>			
1	Pre-configured and optimized methods, with reference standards, for analysis of Pesticide Residues and Mycotoxins			
2	MRM List and product ion spectra for a wide range of compounds including pesticide residues, mycotoxins and synthetic dyes for screening and quantitation.			
3	Accessories of the System			
	<b>Gas Generators</b>			
1	Gas Generators capable of supplying all necessary gases with the required purity, pressure and flow rate, as required for the LC MS/MS instruments should be provided. It should be complete with all necessary accessories.			
2	If Gas Generators for a required gas is not available, two cylinders each of all required gases for operation of the system should be provided, to be quoted from local sources for supply at the installation site.			
3	In case external compressors are required for the gas generators, the same should be portable, noiseless and highly durable.			
	<b>Spares and Accessories</b>			
1	All required standards of mass calibration and tuning, and any other material required to make the instrument functional should be provided			
2	Pack of 200 vials, complete with septa and cap, should be included			
3	An ultrasonic bath suitable for cleaning parts of HPLC and LC MS/MS should be included.			
	UPS			

	A 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.			
	Other accessories			
	A high quality ultrasonicator with water bath and temperature control should be quoted.			
	A suitable table and working chair for the instrument should be included.			
	<b>Terms and Conditions</b>			
1	A complete compliance statement, stating the status of compliance with each point in the technical specification, should necessarily accompany the quotation. Graphical data and chromatograms should be provided wherever mentioned in the specifications. The compliance against system performance requirements should necessarily include the necessary data, graphs and chromatograms. The claims in the compliance statement should be demonstrable at the time of installation.			
2	A comprehensive warranty for 5 years for the complete equipment including independent accessories like UPS and gas generators should be provided. The warranty should include mass calibration performed yearly with valid PPG solution provided by the vendor. In case of breakdown, service should be available onsite within 24 hours			
3	The quoted model should have a minimum of 5 users in India (installed and operational units). Complete users list for the quoted model in India, with contact addresses, emails and phone numbers should be provided.			
	<b>Buy Back Details</b>			
1	The quoted system should be offered under buyback of two numbers of <b>API 2000 with ESI and APCI probes</b>	The buyback discount should be indicated in the financial bid.		

***Declaration 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.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

DATE

Please see section III below for financial bid. **Section III is not to be filled in the Technical Bid.**

**Section III: Financial Bid**  
**LC MS/MS System**

This sheet is to be attached as a covering sheet along with the formal technical bid of the quoted instrument. In case more than one instrument / model is quoted, separate sheets have to be attached with each quotation.

Financial Summary for the Instrument model : \_\_\_\_\_

Price Description		Price	Comments (if any)
Quoted Currency			
Rate of one system	a		
Total Cost of 2 systems	$b = 2 \times a$		
Total cost of Supporting Instruments (for 2 systems)	c		
Comprehensive Warranty Charges (for 2 systems)	d		
Any other charges	e		
CIF Kochi, Kolkata =	$f = b+c+d+e$		
Conversion Factor to INR*	g		
Total Price in INR (2 systems)	$h = f \times g$		
**Toal cost of Items quoted in INR	i		
Discount offered under buyback of 2 AB Sciex API 2000 systems with ESI/APCI probes	k		
Final Price in INR (2 systems)	$h+i-k$		

\* Use the conversion factor as on the date prior to the date of submission of the quotation and mention this date clearly.

\*\* Give full list of items quoted in Indian Rupees separately.

**Declaration 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.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

**DATE**

**Annexure 8**  
**Microwave Digester**  
**No. of Instruments required: 1 ( Kolkata)**

**Technical Specifications**  
(To be submitted by the Bidder)

**Quotation Reference: SB/QEL/PUR/TENDER/INST & ACCYS-1/2017**

**26-9-2017**

**Location of Supply and Installation:**

**The Instrument(s) will be required to be delivered and installed at the following locations:**

Spices Board Quality Evaluation Laboratory  
C/o Project Site, District Headquarter of South 24, Paraganas at Baruipur,  
JL No. 48, LR Khatian No. 1311, Mouza-Chakarbar,  
PO&PS Baruipur District South 24-Paraganas  
West Bengal 700144

*The technical bid is to be submitted by filing in Section I and II, duly signed by the authorized signatory in the 'Declaration of the Bidder'. Section III is to be left blank.  
incompleteness in filling up this form or failure to attach the required supporting data or documents, may result in rejection of the quotation.*

**Section I: Details of the Quotation**

Quotation Submitted By	
Quotation Reference No.	
Date of submission of quotation	
Details of EMD submitted (if any)	
Full Address	
Name of principal supplier (if not self)	
Authorized contact person	
Designation	
Contact details	

List of supporting documents submitted along with the quotation	

## Section II: Compliance with Technical Specifications

### Microwave Digester

***Against each point in the technical specification, compliance must be marked as YES / NO***

	Required Specification	Complying (Yes/No)	Remarks	Documentary Evidence Enclosed?
	<b>Microwave Digester</b>			
1	Capable of carrying out complete, reproducible and fast digestion / extraction work for Analysis of heavy metals in spices and other food products using AAS technique.			
2	Built-in methods library, with adequate documentation, for extraction of heavy metal residues from various sample types as per pre-set standard procedures like EPA / ISO. The instrument should be able to handle extractions of heavy metals at ppb-ppm levels.			
3	At least 1400W power, with variable power settings for small or highly reactive samples			
4	Built-in forced air cooling system. Fast cooling to reduce cycle time.			
5	Continuous un-pulsed microwave power delivery, without power surges, to achieve even digestion			
6	At least 10 reaction vessels capable of use at the same time, chemical resistant and suitable for acid digestion work, with capacity up to 100ml. Optional handling of varying sample amounts should be provided.			
7	The cavity should be stainless steel and multilayer PTFE coated			
8	Integrated filtration devices enabling direct connection to the extraction vessels to obtain the extract.			
9	Designed for unattended operation after loading samples			
10	Temperature range up to 200°C at 40 bar with electronic display, feedback and settings.			
11	Pressure range up to 70 bar with electronic display, feedback and settings.			
12	Reaction vessels and pressure / temperature sensors should facilitate easy cleaning / replacement.			



13	The reaction vessels must have immersion temperature probes as well as remote IR sensor			
14	System should be capable of simultaneous pressure sensing in all vessels.			
15	Complete operational control and monitoring through control panel on the instrument.			
16	Capable of complete control, monitoring, data generation and event logging through external software control from PC.			
17	Detailed information on pressure and temperature for all the reaction vessels during the reaction process should be available as software readout.			
18	Sturdy and chemical-resistant body capable of withstanding harsh laboratory environments.			
19	Built-in safety systems to protect against rapid temperature and pressure changes during digestion, including auto cut-off and alarm.			
20	All accessories required for easily calibrating the pressure and temperature sensors, with the required software support, should be provided.			
<b>Accessories</b>				
1	All spares and accessories required for maintaining the entire system for a period of five years should be quoted. Itemized breakup list of the spares should be provided.			
<b>Additional Terms and Conditions</b>				
1	A complete compliance statement (this sheet filled in), stating the status of compliance with each point in the technical specification, should necessarily accompany the quotation.			
2	A minimum of 5 users of the quoted model in India should be available. The list of these users, with full details of contact persons, addresses, telephone, mobile and email should be provided in table form.			

### Comprehensive Warranty

1	The warranty period should be 5 Years. All breakdown of the instrument should be addressed within 24 hours by an onsite visit.			
2	All parts of the instrument, accessories and supporting instruments should be covered under the warranty. If any accessory / spare part / consumable is not covered under the comprehensive warranty, then the itemised list of such items, including their prices during the period 2014-15 and average lifetime of the items should be provided.			
3	The equipment should be installed at the proposed site, demonstrate the required objective of the test with the claimed limit of detection/quantification with the sample provided.			
4	Training should be given to the staff at the site, for the			

	operation of the instrument on demand			
5	Any accessory system(s) other than those mentioned in the technical specifications, that are required for satisfactory installation of the system should be quoted and supplied with the instrument.			
6	Agency commission: Agency commission if any will be paid to the Indian agent in rupees on receipt of the equipment and after satisfactory installation.			
7	Agency commission will not be paid in foreign currency under any circumstances. The details should be explicitly shown in tender even in case of Nil commission. The tender should indicate the percentage of Agency commission to be paid to the Indian agent.			

***Declaration 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.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

DATE

Please see section III below for financial bid. **Section III is not to be filled in the Technical Bid.**

**Section III: Financial Bid**  
**Microwave Digester**

This sheet is to be attached as a covering sheet along with the formal technical bid of the quoted instrument. In case more than one instrument / model is quoted, separate sheets have to be attached with each quotation.

Financial Summary for the Instrument model : \_\_\_\_\_

Price Description		Price	Comments (if any)
Quoted Currency			
Total Instrument Cost	[a]		
Total cost of Supporting Instruments	[b]		
Comprehensive Warranty Charges	[c]		
Any other charges	[d]		
CIF Kolkata, Gujarat [a] + [b] + [c] + [d] =	[e]		
Conversion Factor to INR*	[f]		
Total Price in INR [e] x [f] =	[g]		
**Toal cost of Items quoted in INR =	[h]		
Final Price in INR = g + h =	[i]		

\* Use the conversion factor as on the date prior to the date of submission of the quotation and mention this date clearly.

\*\* Give full list of items quoted in Indian Rupees separately.

**Declaration 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.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

DATE

**Annexure 9**  
**Water Purification System**  
**No. of Instruments required: 1 (Kolkata)**

**Technical Specifications**  
(To be submitted by the Bidder)

**Quotation Reference: SB/QEL/PUR/TENDER/INST & ACCYS-1/2017**

**26-9-2017**

**Location of Supply and Installation:**

**The Instrument(s) will be required to be delivered and installed at the following locations:**

Spices Board Quality Evaluation Laboratory  
C/o Project Site, District Headquarter of South 24, Paraganas at Baruipur,  
JL No. 48, LR Khatian No. 1311, Mouza-Chakarbar,  
PO&PS Baruipur District South 24-Paraganas  
West Bengal 700144

*The technical bid is to be submitted by filing in Section I and II, duly signed by the authorized signatory in the 'Declaration of the Bidder'. Section III is to be left blank. incompleteness in filling up this form or failure to attach the required supporting data or documents, may result in rejection of the quotation.*

**Section I: Details of the Quotation**

Quotation Submitted By	
Quotation Reference No.	
Date of submission of quotation	
Details of EMD submitted (if any)	
Full Address	
Name of principal supplier (if not self)	
Authorized contact person	
Designation	
Contact details	

List of supporting documents submitted along with the quotation	

## Section II: Compliance with Technical Specifications

### Water Purification System

***Against each point in the technical specification, compliance must be marked as YES / NO***

	Required Specification	Complying (Yes/No)	Remarks	Documentary Evidence Enclosed?
1	System should be capable of producing type II (10-15Megaohm resistivity ) and type I (18.2 megaohm resistivity)with pretreatment cartridge, Reverse Osmosis, Electro Deionization Module, Mixed bed ion exchange resin, inbuilt TOC monitor and final membrane filter with feed water acceptance upto 2000micro Siemens conductivity .			
<b>STAGE 1</b>				
2	2 stage pretreatment system			
3	5 micron and 1 micron wrapped type depth filter			
4	Pressure gauges for display of pressure at each stage, Automatic low/high pressure cut off			
<b>STAGE 2</b>				
5	Pretreatment cartridge with antiscaling compound			
6	Mixed bed ion electro deionisation module with auto regeneration by a weak electric current, eliminating the need for chemical regeneration or replacement of DI resin cartridges .			
7	Carbon beads at cathode of the EDI module to prevent scaling of the module			
8	Coaxial resistivity cell with a flow through design and a cell constant of 0.01cm-1			
<b>STAGE 3</b>				
9	A blow molded, cylindrical PE reservoir with a conical bottom and opaque walls with a 30 liter capacity			
10	The tank should fill from the bottom .			

11	Application Specific cartridges to remove ionic and organic contaminants to trace levels			
12	Built in TOC monitor with a 0.5mL Quartz cell and UV lamp which accurately measures TOC online from 1-999ppb .			
13	Water production unit that can be placed either on the bench , under the bench or on the wall			
14	Point of delivery unit with the polishing filters at the point of use . Option of connecting 3 units with the main water producing unit			
<b>STAGE 4</b>				
11	Stand alone point of delivery unit with			
12	1. Adjustable height and rotating arm - adjustable to any glassware.			
13	2. Multi colour monitor displaying : resistivity,TOC,level of water in reservoir,volume dispensed and other alarms, printing to be directly accessible from the point of delivery unit			
14	<b>Dispensing unit</b>			
15	Final Filters: Pharmaceutical grade , final filter with 0.22micronmembrane filter in stack disc configuration			
16	Less than 50 Db noise levels during operation			
<b>Additional Terms and Conditions</b>				
17	A complete compliance statement (this sheet filled in), stating the status of compliance with each point in the technical specification, should necessarily accompany the quotation.			
18	A minimum of 10 users of the quoted model in India should be available. The list of these users, with full details of contact persons, addresses, telephone, mobile and email should be provided in table form.			

#### **Comprehensive Warranty**

1	The warranty period should be 5 Years. All breakdown of the instrument should be addressed within 24 hours by an onsite visit.			
2	All parts of the instrument, accessories and supporting instruments should be covered under the warranty. If any accessory / spare part / consumable is not covered under the comprehensive warranty, then the itemised list of such items, including their prices during the period 2014-15 and average lifetime of the items should be provided.			
3	The equipment should be installed at the proposed site, demonstrate the required objective of the test with the claimed limit of detection/quantification with the sample provided.			

4	Training should be given to the staff at the site, for the operation of the instrument on demand			
5	Any accessory system(s) other than those mentioned in the technical specifications, that are required for satisfactory installation of the system should be quoted and supplied with the instrument.			
6	Agency commission: Agency commission if any will be paid to the Indian agent in rupees on receipt of the equipment and after satisfactory installation.			
7	Agency commission will not be paid in foreign currency under any circumstances. The details should be explicitly shown in tender even in case of Nil commission. The tender should indicate the percentage of Agency commission to be paid to the Indian agent.			

***Please sign the declaration on the next page.***

***Declaration 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.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

DATE

Please see section III below for financial bid. **Section III is not to be filled in the Technical Bid.**

**Section III: Financial Bid**  
**Water Purification System**

This sheet is to be attached as a covering sheet along with the formal technical bid of the quoted instrument. In case more than one instrument / model is quoted, separate sheets have to be attached with each quotation.

Financial Summary for the Instrument model : \_\_\_\_\_

Price Description		Price	Comments (if any)
Quoted Currency			
Total Instrument Cost	[a]		
Total cost of Supporting Instruments	[b]		
Comprehensive Warranty Charges	[c]		
Any other charges	[d]		
CIF Kolkata, Gujarat [a] + [b] + [c] + [d] =	[e]		
Conversion Factor to INR*	[f]		
Total Price in INR [e] x [f] =	[g]		
**Toal cost of Items quoted in INR =	[h]		
Final Price in INR = g + h =	[i]		

\* Use the conversion factor as on the date prior to the date of submission of the quotation and mention this date clearly.

\*\* Give full list of items quoted in Indian Rupees separately.

***Declaration 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.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

DATE



**Annexure 10**  
**Electronic Balance 3 Digit Precision**  
**No. of Instruments required: 1 (Kolkata)**

**Technical Specifications**  
(To be submitted by the Bidder)

**Quotation Reference: SB/QEL/PUR/TENDER/INST & ACCYS-1/2017**

**26-9-2017**

**Location of Supply and Installation:**

**The Instrument(s) will be required to be delivered and installed at the following locations:**

Spices Board Quality Evaluation Laboratory  
C/o Project Site, District Headquarter of South 24, Paraganas at Baruipur,  
JL No. 48, LR Khatian No. 1311, Mouza-Chakarbar,  
PO&PS Baruipur District South 24-Paraganas  
West Bengal 700144

*The technical bid is to be submitted by filing in Section I and II, duly signed by the authorized signatory in the 'Declaration of the Bidder'. Section III is to be left blank. incompleteness in filling up this form or failure to attach the required supporting data or documents, may result in rejection of the quotation.*

**Section I: Details of the Quotation**

Quotation Submitted By	
Quotation Reference No.	
Date of submission of quotation	
Details of EMD submitted (if any)	
Full Address	
Name of principal supplier (if not self)	
Authorized contact person	
Designation	
Contact details	

List of supporting documents submitted along with the quotation	

## Section II: Compliance with Technical Specifications

### Electronic Balance – 3 Digit Precision

*Against each point in the technical specification, compliance must be marked as YES / NO*

	Required Specification	Complying (Yes / No)	Remarks	Documentary evidence enclosed?
1	Readability of 0.001 g. (0.1 mg).			
2	Compact design with sturdy chemical resistant body.			
3	Weighing pan $\varnothing$ at least 90 mm or equivalent.			
4	Calibration of a frequently used weighing range using external weights.			
5	Digital panel with backlit display.			
6	Overload protection feature.			
7	calibration certificate with F1 / E2 class calibration weights traceable to NPL should be provided with the balance.			
8	The supplier should have the capability to provide calibration of the balance once in six months with NPL certified weights. Full details of this service should be provided.			
9	One spare power adapter should be provided			
10	Full operation manual should be provided.			
11	User list for the quoted model in India with full contact information should be provided.			
12	Full warranty information should be provided.			
13	A compliance statement with each point in the specification should compulsorily accompany the quotation, without which the quotation will be considered incomplete.			
14	Internal adjustment weight for precise result.			
15	Maximum Capacity at least 200g.			
16	Capability of displaying weighing result in different units.			
17	Features like Taring and % weighing feature should be available.			

18	Repeatability at least 0.03 mg.			
19	High grade, chemical resistant housing.			
20	Backlit display.			
21	Standard RS232c interface to connect to external PC.			
22	Hook for weighing below the balance.			
23	Glass draft shield with sliding doors, with free access from right, left and above			
<b>Additional Terms and Conditions</b>				
1	A complete compliance statement (this sheet filled in), stating the status of compliance with each point in the technical specification, should necessarily accompany the quotation.			
2	A minimum of 5 users of the quoted model in India should be available. The list of these users, with full details of contact persons, addresses, telephone, mobile and email should be provided in table form.			
3	Full details of the warranty of the system, with coverage of all parts of the system, should be clearly mentioned in the tender.			

***Declaration 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.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

DATE

Please see section III below for financial bid. **Section III is not to be filled in the Technical Bid.**

**Section III: Financial Bid**  
**Electronic Balance 3 Digit Precision**

This sheet is to be attached as a covering sheet along with the formal technical bid of the quoted instrument. In case more than one instrument / model is quoted, separate sheets have to be attached with each quotation.

Financial Summary for the Instrument model : \_\_\_\_\_

Price Description		Price	Comments (if any)
Quoted Currency			
Total Instrument Cost	[a]		
Total cost of Supporting Instruments	[b]		
Comprehensive Warranty Charges	[c]		
Any other charges	[d]		
CIF Kolkata, Gujarat [a] + [b] + [c] + [d] =	[e]		
Conversion Factor to INR*	[f]		
Total Price in INR [e] x [f] =	[g]		
**Toal cost of Items quoted in INR =	[h]		
Final Price in INR = g + h =	[i]		

\* Use the conversion factor as on the date prior to the date of submission of the quotation and mention this date clearly.

\*\* Give full list of items quoted in Indian Rupees separately.

***Declaration 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.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

**DATE**

**Annexure 11**  
**Electronic Balance 5 Digit Precision**  
**No. of Instruments required: 1 (Kolkata)**

**Technical Specifications**  
(To be submitted by the Bidder)

**Quotation Reference: SB/QEL/PUR/TENDER/INST & ACCYS-1/2017**

**26-9-2017**

**Location of Supply and Installation:**

**The Instrument(s) will be required to be delivered and installed at the following locations:**

Spices Board Quality Evaluation Laboratory  
C/o Project Site, District Headquarter of South 24, Paraganas at Baruipur,  
JL No. 48, LR Khatian No. 1311, Mouza-Chakarbar,  
PO&PS Baruipur District South 24-Paraganas  
West Bengal 700144

*The technical bid is to be submitted by filing in Section I and II, duly signed by the authorized signatory in the 'Declaration of the Bidder'. Section III is to be left blank. incompleteness in filling up this form or failure to attach the required supporting data or documents, may result in rejection of the quotation.*

**Section I: Details of the Quotation**

Quotation Submitted By	
Quotation Reference No.	
Date of submission of quotation	
Details of EMD submitted (if any)	
Full Address	
Name of principal supplier (if not self)	
Authorized contact person	
Designation	
Contact details	

List of supporting documents submitted along with the quotation	

## Section II: Compliance with Technical Specifications

### Electronic Balance – 5 Digit Precision

***Against each point in the technical specification, compliance must be marked as YES / NO***

	Required Specification	Complying (Yes / No)	Remarks	Documentary evidence enclosed?
1	Readability of 0.00001 g. (0.01 mg).			
2	Compact design with sturdy chemical resistant body.			
3	Weighing pan $\varnothing$ at least 90 mm or equivalent.			
4	Calibration of a frequently used weighing range using external weights.			
5	Digital panel with backlit display.			
6	Overload protection feature.			
7	calibration certificate with F1 / E2 class calibration weights traceable to NPL should be provided with the balance.			
8	The supplier should have the capability to provide calibration of the balance once in six months with NPL certified weights. Full details of this service should be provided.			
9	One spare power adapter should be provided			
10	Full operation manual should be provided.			
11	User list for the quoted model in India with full contact information should be provided.			
12	Full warranty information should be provided.			
13	A compliance statement with each point in the specification should compulsorily accompany the quotation, without which the quotation will be considered incomplete.			
14	Internal adjustment weight for precise result.			
15	Maximum Capacity at least 200g.			
16	Capability of displaying weighing result in different units.			
17	Features like Taring and % weighing feature should be available.			

18	Repeatability at least 0.03 mg.			
19	High grade, chemical resistant housing.			
20	Backlit display.			
21	Standard RS232c interface to connect to external PC.			
22	Hook for weighing below the balance.			
23	Glass draft shield with sliding doors, with free access from right, left and above			
<b>Additional Terms and Conditions</b>				
1	A complete compliance statement (this sheet filled in), stating the status of compliance with each point in the technical specification, should necessarily accompany the quotation.			
2	A minimum of 5 users of the quoted model in India should be available. The list of these users, with full details of contact persons, addresses, telephone, mobile and email should be provided in table form.			
3	Full details of the warranty of the system, with coverage of all parts of the system, should be clearly mentioned in the tender.			

***Declaration 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.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

DATE

Please see section III below for financial bid. **Section III is not to be filled in the Technical Bid.**

**Section III: Financial Bid**  
**Electronic Balance 5 Digit Precision**

This sheet is to be attached as a covering sheet along with the formal technical bid of the quoted instrument. In case more than one instrument / model is quoted, separate sheets have to be attached with each quotation.

Financial Summary for the Instrument model : \_\_\_\_\_

Price Description		Price	Comments (if any)
Quoted Currency			
Total Instrument Cost	[a]		
Total cost of Supporting Instruments	[b]		
Comprehensive Warranty Charges	[c]		
Any other charges	[d]		
CIF Kolkata, Gujarat [a] + [b] + [c] + [d] =	[e]		
Conversion Factor to INR*	[f]		
Total Price in INR [e] x [f] =	[g]		
**Toal cost of Items quoted in INR =	[h]		
Final Price in INR = g + h =	[i]		

\* Use the conversion factor as on the date prior to the date of submission of the quotation and mention this date clearly.

\*\* Give full list of items quoted in Indian Rupees separately.

***Declaration 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.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

**DATE**



# Annexure 12

## Muffle Furnace

No. of Instruments required: 1 (Kolkata)

### Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/TENDER/INST & ACCYS-1/2017

26-9-2017

#### Location of Supply and Installation:

The Instrument(s) will be required to be delivered and installed at the following locations:

Spices Board Quality Evaluation Laboratory  
C/o Project Site, District Headquarter of South 24, Paraganas at Baruipur,  
JL No. 48, LR Khatian No. 1311, Mouza-Chakarbar,  
PO&PS Baruipur District South 24-Paraganas  
West Bengal 700144

*The technical bid is to be submitted by filing in Section I and II, duly signed by the authorized signatory in the 'Declaration of the Bidder'. Section III is to be left blank. incompleteness in filling up this form or failure to attach the required supporting data or documents, may result in rejection of the quotation.*

### Section I: Details of the Quotation

Quotation Submitted By	
Quotation Reference No.	
Date of submission of quotation	
Details of EMD submitted (if any)	
Full Address	
Name of principal supplier (if not self)	
Authorized contact person	
Designation	
Contact details	

List of supporting documents submitted along with the quotation	

## Section II: Compliance with Technical Specifications

### Muffle Furnace

***Against each point in the technical specification, compliance must be marked as YES / NO***

	Required Specification	Complying (Yes/No)	Remarks	Documentary Evidence Enclosed?
	A Muffle furnace is required for obtaining high temperature. This furnace should have the following features:			
1	Internal Dimensions of the furnace (minimum): Height = 15cm, width = 15cm, depth = 35cm.			
2	Working Temperature range : ambient to 1350°C or better			
3	Heating Element : Silicon Carbide (SiC)			
4	Temperature Accuracy : $\pm 2^{\circ}\text{C}$ or better			
5	Temperature Control : Through microprocessor based PID controller with minimum 30 steps			
6	Furnace Insulation : Ceramic wool			
7	Temperature settings & Display : Digital and double display			
8	Power source : 220 V ,50Hz single phase			
9	Out body and inner body : Stainless Steel			
	Accessories required			
10	Stainless Steel Tongs (15-20 Inch)- 02 No			
11	Furnace gloves-02 Pairs			
	<b>Additional Terms and Conditions</b>			
9	A complete compliance statement (this sheet filled in), stating the status of compliance with each point in the technical specification, should necessarily accompany the quotation.			
10	A minimum of 5 users of the quoted model in India should be available. The list of these users, with full details of contact persons, addresses, telephone, mobile and email should be provided in table form.			

11	Full details of the warranty of the system, with coverage of all parts of the system, should be clearly mentioned in the tender.			
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***Please sign the declaration in the next page.***

***Declaration 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.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

DATE

Please see section III below for financial bid. **Section III is not to be filled in the Technical Bid.**

**Section III: Financial Bid**  
**Muffle Furnace**

This sheet is to be attached as a covering sheet along with the formal technical bid of the quoted instrument. In case more than one instrument / model is quoted, separate sheets have to be attached with each quotation.

Financial Summary for the Instrument model : \_\_\_\_\_

Price Description		Price	Comments (if any)
Quoted Currency			
Total Instrument Cost	[a]		
Total cost of Supporting Instruments	[b]		
Comprehensive Warranty Charges	[c]		
Any other charges	[d]		
CIF Kolkata, Gujarat [a] + [b] + [c] + [d] =	[e]		
Conversion Factor to INR*	[f]		
Total Price in INR [e] x [f] =	[g]		
**Toal cost of Items quoted in INR =	[h]		
Final Price in INR = g + h =	[i]		

\* Use the conversion factor as on the date prior to the date of submission of the quotation and mention this date clearly.

\*\* Give full list of items quoted in Indian Rupees separately.

**Declaration 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.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

**DATE**

## Annexure 13

### Hot Air Oven

No. of Instruments required: 1 (Kolkata)

#### Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/TENDER/INST & ACCYS-1/2017

26-9-2017

**Location of Supply and Installation:**

**The Instrument(s) will be required to be delivered and installed at the following locations:**

Spices Board Quality Evaluation Laboratory  
C/o Project Site, District Headquarter of South 24, Paraganas at Baruipur,  
JL No. 48, LR Khatian No. 1311, Mouza-Chakarbar,  
PO&PS Baruipur District South 24-Paraganas  
West Bengal 700144

*The technical bid is to be submitted by filing in Section I and II, duly signed by the authorized signatory in the 'Declaration of the Bidder'. Section III is to be left blank. incompleteness in filling up this form or failure to attach the required supporting data or documents, may result in rejection of the quotation.*

#### Section I: Details of the Quotation

Quotation Submitted By	
Quotation Reference No.	
Date of submission of quotation	
Details of EMD submitted (if any)	
Full Address	
Name of principal supplier (if not self)	
Authorized contact person	
Designation	
Contact details	

List of supporting documents submitted along with the quotation	
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## Section II: Compliance with Technical Specifications

### Hot Air Oven (2 Nos.)

***Against each point in the technical specification, compliance must be marked as YES / NO***

	Required Specification	Complying (Yes/No)	Remarks	Documentary Evidence Enclosed?
1	Inner Chamber Dimensions: 450 × 450× 450mm			
2	Inner Chamber Construction: Stainless steel			
3	No. of Shelves Minimum 3 (Detachable stainless steel)			
4	Temperature Range: Ambient to 250°C			
5	Temperature Sensitivity: ±1°C			
6	Electric Supply: Single Phase 220 Volts, AC Supply			
7	Heater Supply:1000 watt Single Phase			
8	Overall Dimension of the Unit: 622(W) × 660(D) × 889(H)mm			
9	It should have Digital Temperature Indicator cum controller and timer			
10	Should be provided with air circulating fan			
11	Provision for inserting thermometer and air ventilation			
Additional Terms and Conditions				
12	A complete compliance statement (this sheet filled in), stating the status of compliance with each point in the technical specification, should necessarily accompany the quotation.			
13	A minimum of 5 users of the quoted model in India should be available. The list of these users, with full details of contact persons, addresses, telephone, mobile and email should be provided in table form.			
14	Complete warranty information along with the list of items covered under the warranty should be provided.			

***Declaration 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.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

DATE

Please see section III below for financial bid. **Section III is not to be filled in the Technical Bid.**

### **Section III: Financial Bid**

#### **Hot Air Oven (2 Nos.)**

This sheet is to be attached as a covering sheet along with the formal technical bid of the quoted instrument. In case more than one instrument / model is quoted, separate sheets have to be attached with each quotation.

Financial Summary for the Instrument model : \_\_\_\_\_

<b>Price Description</b>		<b>Price</b>	<b>Comments (if any)</b>
Quoted Currency			
Total Instrument Cost	[a]		
Total cost of Supporting Instruments	[b]		
Comprehensive Warranty Charges	[c]		
Any other charges	[d]		
CIF Kolkata, Gujarat [a] + [b] + [c] + [d] =	[e]		
Conversion Factor to INR*	[f]		
Total Price in INR [e] x [f] =	[g]		
**Toal cost of Items quoted in INR =	[h]		
Final Price in INR = g + h =	[i]		

\* Use the conversion factor as on the date prior to the date of submission of the quotation and mention this date clearly.

\*\* Give full list of items quoted in Indian Rupees separately.

#### ***Declaration 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.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

**DATE**



# Annexure 14

## GC with FID

No. of Instruments required: 1 (Mint Park, Rae Bareli)

### Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/TENDER/INST & ACCYS-1/2017

26-9-2017

#### Location of Supply and Installation:

The Instrument(s) will be required to be delivered and installed at the following locations:

Spices Board  
1006, Opp. Adarsh Naveen Hostel,  
Near Apex Academy, Manika Cenema Road,  
Gandhi Nagar, Rae Bareli  
Uttar Pradesh 229001  
Ph. 0535-2000627, 09889785677  
spicesboardrbly@gmail.com

*The technical bid is to be submitted by filing in Section I and II, duly signed by the authorized signatory in the 'Declaration of the Bidder'. Section III is to be left blank. incompleteness in filling up this form or failure to attach the required supporting data or documents, may result in rejection of the quotation.*

### Section I: Details of the Quotation

Quotation Submitted By	
Quotation Reference No.	
Date of submission of quotation	
Details of EMD submitted (if any)	
Full Address	
Name of principal supplier (if not self)	
Authorized contact person	
Designation	

Contact details	
List of supporting documents submitted along with the quotation	

## Section II: Compliance with Technical Specifications

### GC-FID

*Against each point in the technical specification, compliance must be marked as YES / NO*

	Required Specification	Complying (Yes/No)	Remarks	Documentary Evidence Enclosed?
<b>Instrument Name- GC-FID</b>				
1.	<p><b>GC Control</b></p> <p>-Fully PC controlled and provides all needed data, including all temperature and pressure/flow parameters, type of carrier gas, carrier gas column pressure, flow rates, split flow, detector gas flow rates and all detector parameters.</p>			
2.	<p><b>Column oven</b></p> <ul style="list-style-type: none"> <li>- Compatible with standard capillary columns and Packed Columns, should have provision to install minimum two columns.</li> <li>- GC system should be able to accommodate in future with other detectors and injectors also.</li> <li>- The column oven must have an operating range from near ambient to 450°C.</li> <li>- Temperature resolution: 0.1°C</li> <li>- Max. Heating Rate: 130°C/minute or better</li> <li>- Cool-down time from 450°C to 50°C within 3 minutes</li> <li>- Should support 15/16 Ramps/Holds or better</li> <li>- System should have provision to install minimum two numbers of injectors and two numbers of detectors simultaneously.</li> </ul>			

	- Should have column over heat protection.			
3.	<b>Pneumatic compartment</b> - The digital pressure and flow controller must be able to control and program pressures and flows up to 1000 Kpa. All gas flows should be controlled through software with no manual control - Pressure increment set point: 0.1psi			
4.	<b>Injector – 02 no's</b> - Injectors with split/split less compatibility . - The injector must be able to operate with capillary columns in split/split less mode - Temperature range: ≥ 400°C.			
5.	<b>Detector: FID – 02 no,s</b> - Detection Limit: < 3pg C/s - Linear Dynamic Range: > 10 <sup>6</sup> - Temperature range: up to 400°C or better - FID ignition should be through software, flame out detection and auto re-ignition should be possible. - Data collection rate: 500 Hz			
6.	Auto-Sampler with minimum 15 sample vials positions. Compatible vials 1000 Nos.			
7.	<b>Columns:</b> Capillary columns 03 numbers each of Polar, Non-polar and Chiral columns for seperation of D and L mentha			
8.	-Branded PC with licensed software and Color Laser-jet Printer.  - The software should be LIMS compatible,			
9.	-Gas cylinders (02 no's) each for Nitrogen, Hydrogen & Zero Air or any other gas required to fulfill the above application. -Regulators (03 no's) Gas Purification panel for the gases, tubing with complete fittings in the Lab			
10.	UPS: 10 KVA Online UPS with four hours back up with Exide EL Tubular Batteries.			
<b>Additional Terms and Conditions</b>				
1	A complete compliance statement (this sheet filled in), stating the status of compliance with each point in the technical specification, should necessarily accompany the quotation.			
2	A minimum of 10 <b>users</b> of the quoted model in India should be available. The list of these users, with full details of contact persons, addresses, telephone, mobile and email should be provided in table form.			

### Comprehensive Warranty

1	The warranty period should be 5 Years. All breakdown of the instrument should be addressed within 24 hours by an			
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	onsite visit.			
2	All parts of the instrument, accessories and supporting instruments should be covered under the warranty. If any accessory / spare part is not covered under the comprehensive warranty, then the itemised list of such items, including their prices during the period 2014-15 and average lifetime of the items should be provided.			
3	The equipment should be installed at the proposed site, demonstrate the required objective of the test with the claimed limit of detection/quantification with the sample provided.			
4	Training should be given to the staff at the site, for the operation of the instrument on demand			
5	Any accessory system(s) other than those mentioned in the technical specifications, that are required for satisfactory installation of the system should be quoted and supplied with the instrument.			
6	Agency commission: Agency commission if any will be paid to the Indian agent in rupees on receipt of the equipment and after satisfactory installation.			
7	Agency commission will not be paid in foreign currency under any circumstances. The details should be explicitly shown in tender even in case of Nil commission. The tender should indicate the percentage of Agency commission to be paid to the Indian agent.			

***Declaration 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.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

DATE

Please see section III below for financial bid. **Section III is not to be filled in the Technical Bid.**

### **Section III: Financial Bid**

#### **GC-FID**

This sheet is to be attached as a covering sheet along with the formal technical bid of the quoted instrument. In case more than one instrument / model is quoted, separate sheets have to be attached with each quotation.

**Performance bank guarantee is required for this item. Please see the Tender Terms and Conditions for details.**

Financial Summary for the Instrument model : \_\_\_\_\_

<b>Price Description</b>	<b>Price</b>	<b>Comments (if any)</b>
Quoted Currency		
Total Instrument Cost [a]		
Total cost of Supporting Instruments [b]		
Comprehensive Warranty Charges [c]		
Any other charges [d]		
CIF Amount [a] + [b] + [c] + [d] = [e]		
Conversion Factor to INR* [f]		
Total Price in INR [e] x [f] = [g]		
**Toal cost of Items quoted in INR = [h]		
Final Price in INR = g + h = [i]		

\* Use the conversion factor as on the date prior to the date of submission of the quotation and mention this date clearly.

\*\* Give full list of items quoted in Indian Rupees separately.

#### ***Declaration 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.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

DATE

# Annexure 15

## GC MS System

No. of Instruments required: 1 (Mint Park, Rae Bareli)

### Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/TENDER/INST & ACCYS-1/2017

26-9-2017

#### Location of Supply and Installation:

The Instrument(s) will be required to be delivered and installed at the following locations:

Spices Board  
1006, Opp. Adarsh Naveen Hostel,  
Near Apex Academy, Manika Cenema Road,  
Gandhi Nagar, Rae Bareli  
Uttar Pradesh 229001  
Ph. 0535-2000627, 09889785677  
spicesboardrbly@gmail.com

*The technical bid is to be submitted by filing in Section I and II, duly signed by the authorized signatory in the 'Declaration of the Bidder'. Section III is to be left blank. incompleteness in filling up this form or failure to attach the required supporting data or documents, may result in rejection of the quotation.*

### Section I: Details of the Quotation

Quotation Submitted By	
Quotation Reference No.	
Date of submission of quotation	
Details of EMD submitted (if any)	
Full Address	
Name of principal supplier (if not self)	
Authorized contact person	
Designation	

Contact details	
List of supporting documents submitted along with the quotation	

## Section II: Compliance with Technical Specifications

### GC-MS System

*Against each point in the technical specification, compliance must be marked as YES / NO*

	Required Specification	Complying (Yes/No)	Remarks	Documentary Evidence Enclosed?
<b>Instrument Name- GC-MS</b>				
1.	<p><b><u>Ion Source:</u></b>            -The source should be made of solid, non-coated, material, conforming to international safety standards, designed and manufactured under a quality system registered to ISO 9001.            -The Source block heater control should have user-selectable temperature set points up to 350°C.            -The User definable electron energy should be adjustable from 10-100 eV.            -The GC transfer line temperature should be settable up to 350°C            -It should have dedicated EI source.</p>			
2.	<p><b><u>Quadrupole Mass Analyzer:</u></b>            -Mass Range: 2 –1100u or better            -Resolution: Unit mass resolution maintained over the entire mass range.            -Scan Rate: up to 12,500 u/sec or better.            -The quadrupole design should be such that it allows better transmission of ions and resolution. It should have a feature which prevents contamination due to condensation and never requires cleaning</p>			
3.	<p><b><u>Detection System:</u></b>            It should utilize new generation discrete dynode electron multiplier</p>			
4.	<p><b><u>Vacuum System:</u></b>            It should have turbo molecular pump with 250L/s</p>			

	capacity or better with EI source.			
5.	<p><b>Instrument Control:</b></p> <p>-It should have scan modes like full scan, SIM, and simultaneous full scan/SIM.</p> <p>-It should have ability to simultaneously acquire SIM and scan data in a single run.</p>			
6.	<p><b>Installation Specifications using helium as carrier gas:</b></p> <p>-EI full scan specs: 1 µL injection of 1 pg/µL OFN while scanning from 50-300u gives for mass 272 an S/N ≥ 550:1.</p> <p>-EI SIM instrument detection limit of 25 fg or better for OFN standard at nominal 272 u ion should be demonstrated.</p>			
7.	<p><b>GC Control</b></p> <p>Fully PC controlled and provides all needed data, including all temperature and pressure/flow parameters, type of carrier gas, carrier gas column pressure, flow rates, split flow, detector gas flow rates and all detector parameters.</p> <p>A dedicated function must allow unattended and automated system leak check.</p> <p>A dedicated function must allow to automatically measure and store column parameters.</p> <p>The system should have a capability of replacement of GC column without venting MS vacuum.</p> <p>The GC should have a Retention Time Repeatability of &lt;0.0008 min or better The Peak Area Resproducibility should be &lt;0.1% RSD or better (Please provide data).</p>			
8.	<p><b>Column oven</b></p> <p>Compatible with standard capillary columns and should have provision to install minimum two columns. GC system should be able to accommodate in future with other detectors and injectors also.</p> <p>The column oven must have an operating range from near ambient to 450°C.</p> <p>Temperature resolution: 0.1°C</p> <p>Max. Heating Rate: 130°C/minute or better</p> <p>Cool-down time from 450°C to 50°C within 3 minutes</p> <p>No. of ramps: Possible to program 15 temp ramps (16 plateaus) or better</p> <p>System should have provision to install minimum two numbers of injectors and two numbers of detectors simultaneously apart from MS.</p> <p>Should have column overheat protection.</p>			
9.	<p><b>Pneumatic compartment</b></p> <p>The digital pressure and flow controller must be able to control and program pressures and flows up to 1000 Kpa. All gas flows should be controlled through software with no manual control</p>			



	Pressure increment set point: 0.1psi			
10.	<b>Injector – 02 no's</b> S/SL injector - 01 no. PTV injector – 01 no. The injector must be able to operate with capillary columns in split/splitless mode Temperature rate of 800°C or better and minimum 5 ramps			
.11.	<b>Detector: FID</b> Detection Limit: < 3 pg C/s Linear Dynamic Range: > 10 <sup>6</sup> Temperature range: up to 400°C FID ignition should be through software Data collection rate: 500 Hz			
12.	Auto-Sampler with minimum 15 sample vials positions. Vials – 1000 no's.			
13.	<b>Columns:</b> Capillary columns 03 number each of Polar, Non-polar and Chiral column for seperation of D& L mentha. 02 Nos of Chiral columns suitable for essential oil analysis.			
14.	Branded PC with licensed software and Color Laser-jet Printer. The software should be LIMS compatible			
15.	Gas cylinders (02 no's) each for Helium, Nitrogen, Hydrogen & Zero Air or any other gases required to fulfill above application			
16.	Regulators, Gas Purification panels, tubings with complete fitting in the lab.			
17.	UPS: 10 KVA Online UPS with four hours back up with Exide EL Tubular Batteries.			
18.	Latest NIST library and Wiley Flavor and Fragrance of Natural and Synthetic compounds library, latest edition should be provided.			
<b>Additional Terms and Conditions</b>				
1	A complete compliance statement (this sheet filled in), stating the status of compliance with each point in the technical specification, should necessarily accompany the quotation.			

2	A minimum of 5 <b>users</b> of the quoted model in India should be available. The list of these users, with full details of contact persons, addresses, telephone, mobile and email should be provided in table form.			
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### **Comprehensive Warranty**

1	The warranty period should be 5 Years. All breakdown of the instrument should be addressed within 24 hours by an onsite visit.			
2	All parts of the instrument, accessories and supporting instruments should be covered under the warranty. If any accessory / spare part is not covered under the comprehensive warranty, then the itemised list of such items, including their prices during the period 2014-15 and average lifetime of the items should be provided.			
3	The equipment should be installed at the proposed site, demonstrate the required objective of the test with the claimed limit of detection/quantification with the sample provided.			
4	Training should be given to the staff at the site, for the operation of the instrument on demand			
5	Any accessory system(s) other than those mentioned in the technical specifications, that are required for satisfactory installation of the system should be quoted and supplied with the instrument.			
6	Agency commission: Agency commission if any will be paid to the Indian agent in rupees on receipt of the equipment and after satisfactory installation.			
7	Agency commission will not be paid in foreign currency under any circumstances. The details should be explicitly shown in tender even in case of Nil commission. The tender should indicate the percentage of Agency commission to be paid to the Indian agent.			

### ***Declaration 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.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

DATE

Please see section III below for financial bid. **Section III is not to be filled in the Technical Bid.**

**Section III: Financial Bid**  
**GC-MS System**

This sheet is to be attached as a covering sheet along with the formal technical bid of the quoted instrument. In case more than one instrument / model is quoted, separate sheets have to be attached with each quotation.

**Performance bank guarantee is required for this item. Please see the Tender Terms and Conditions for details.**

Financial Summary for the Instrument model : \_\_\_\_\_

Price Description	Price	Comments (if any)
Quoted Currency		
Total Instrument Cost [a]		
Total cost of Supporting Instruments [b]		
Comprehensive Warranty Charges [c]		
Any other charges [d]		
CIF Kandla, Gujarat [a] + [b] + [c] + [d] = [e]		
Conversion Factor to INR* [f]		
Total Price in INR [e] x [f] = [g]		
**Toal cost of Items quoted in INR = [h]		
Final Price in INR = g + h = [i]		

\* Use the conversion factor as on the date prior to the date of submission of the quotation and mention this date clearly.

\*\* Give full list of items quoted in Indian Rupees separately.

***Declaration 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.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

DATE

# Annexure 16

## Laboratory Freezer

No. of Instruments required: 8 (Kolkata, Kochi, Mumbai, Kandla, Narela, Chennai, Tuticorin, Guntur)

### Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/TENDER/INST & ACCYS-1/2017

26-9-2017

#### Location of Supply and Installation:

The Instrument(s) will be required to be delivered and installed at the following locations:

1 Spices Board Quality Evaluation Laboratory C/o Project Site, District Headquarter of South 24, Paraganas at Baruipur, JL No. 48, LR Khatian No. 1311, Mouza-Chakarbar, PO&PS Baruipur District South 24-Paraganas West Bengal 700144	5 Spices Board Quality Evaluation Laboratory Near Satyawadi Raja Harishchandra Hospital, Behind Indian Oil petrol pump, Narela, New Delhi, India
2 Spices Board Quality Evaluation Laboratory Sugandha Bhavan, Palarivattom PO, Near NH Bypass, Kochi Kerala 682025	6 Spices Board Quality Evaluation Laboratory Plot No. R-11, SIPCOT Industrial Complex, North End Road, Gummidipoondi Chennai - 601 201.
3 Spices Board Quality Evaluation Laboratory EL-184, Electronic Zone TTC Industrial Area, M I D C Navi Mumbai-400710	7 Spices Board Quality Evaluation Laboratory World Trade Avenue, Harbour Estate, New Port, TUTICORIN-628004
4 Spices Board Quality Evaluation Laboratory Plot NO. 22A, Sector 8, Gandhidham, Gujarat - 370201	8 Spices Board Quality Evaluation Laboratory Chuttugunta Centre, GT Road, Guntur-522004.

*The technical bid is to be submitted by filing in Section I and II, duly signed by the authorized signatory in the 'Declaration of the Bidder'. Section III is to be left blank.*

*incompleteness in filling up this form or failure to attach the required supporting data or documents, may result in rejection of the quotation.*

### Section I: Details of the Quotation

Quotation Submitted By	
Quotation Reference No.	
Date of submission of quotation	
Details of EMD submitted (if any)	
Full Address	
Name of principal supplier (if not self)	
Authorized contact person	
Designation	
Contact details	
List of supporting documents submitted along with the quotation	

### Section II: Compliance with Technical Specifications Laboratry Freezer (8 Nos)

	Required Specification	Complying (Yes/No)	Remarks	Documentary Evidence Enclosed?
	A high quality upright-model laboratory freezer, with the following technical specification, for storage of reference standards and sensitive laboratory samples, is to be quoted:			
1	Capacity: 300L minimum			
2	Temperature rangeL -10°C to -25°C, with digital temperature indicator.			
3	Easy setting of temperature through pushbutton interface.			

4	Facility for computerized retrieval of temperature control history.			
5	Microprocessor and calibrated thermocouple based temperature control, with facility for detection and avoidance of ice formation and optimum defrosting.			
6	Rapid cool-down and very fast recovery after opening, with fan assistance. Forced air design preferred.			
7	High quality stainless steel interior			
8	Adequate number of racks and shelves for storing test tubes, reference standard containers and samples efficiently should be available.			
9	Internal, chemical safe and non-flammable lighting			
10	Lockable wheels for easy relocation or movement			
11	All accessories for installation and operation of the system should be included in the quote.			
12	Any accessories / consumables required for trouble free operation of the system for a period of two years to be quoted.			
13	Full warranty information should be provided.			
14	The quoted model should have a minimum of 5 users in India. The list of users should be provided in the format mentioned in the terms and conditions of this tender.			

*Declaration by the Bidder*

It is hereby declared that, the technical details given above are correct as pertaining to the quoted model, and all data and reports required for substantiation technical claims have been submitted.

SIGNATURE OF TENDERER  
SEAL OF THE COMPANY  
DATE

Please see section III below for financial bid. **Section III is not to be filled in the Technical Bid.**

**Section III**  
**Financial Bid**  
**Laboratory Freezer (8 Nos)**

This sheet is to be attached as a covering sheet along with the formal financial bid of the quoted instrument. In case more than one instrument / model is quoted, separate sheets have to be attached with each quotation.

Financial Summary for the Instrument model : \_\_\_\_\_

Price Description		Price	Comments (if any)
Quoted Currency			
Total Instrument Cost	[a]		
Total cost of Supporting Instruments	[b]		
Comprehensive Warranty Charges (if applicable)	[c]		
Any other charges	[d]		
CIF [a] + [b] + [c] + [d] =	[e]		
Conversion Factor to INR*	[f]		
Total Price in INR [e] x [f] =	[g]		
**Total cost of Items quoted in INR =	[h]		
Final Price in INR = g + h =	[i]		

\* Use the conversion factor as on the date prior to the date of submission of the quotation and mention this date clearly.

\*\* Give full list of items quoted in Indian Rupees separately.

***Declaration by the Bidder***

It is hereby declared that, the financial details given above are correct as pertaining to the quoted model, and all data and reports required for substantiation technical claims have been submitted.

SIGNATURE OF TENDERER  
SEAL OF THE COMPANY  
DATE

## Annexure 17

### Variable Volume Micropipettes - SET

No. of Instruments required: 8 (Kolkata, Kochi, Mumbai, Kandla, Narela, Chennai, Tuticorin, Guntur)

#### Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/TENDER/INST & ACCYS-1/2017

26-9-2017

#### Location of Supply and Installation:

The Instrument(s) will be required to be delivered and installed at the following locations:

1 Spices Board Quality Evaluation Laboratory C/o Project Site, District Headquarter of South 24, Paraganas at Baruipur, JL No. 48, LR Khatian No. 1311, Mouza-Chakarbar, PO&PS Baruipur District South 24-Paraganas West Bengal 700144	5 Spices Board Quality Evaluation Laboratory Near Satyawadi Raja Harishchandra Hospital, Behind Indian Oil petrol pump, Narela, New Delhi, India
2 Spices Board Quality Evaluation Laboratory Sugandha Bhavan, Palarivattom PO, Near NH Bypass, Kochi Kerala 682025	6 Spices Board Quality Evaluation Laboratory Plot No. R-11, SIPCOT Industrial Complex, North End Road, Gummidipoondi Chennai - 601 201.
3 Spices Board Quality Evaluation Laboratory EL-184, Electronic Zone TTC Industrial Area, M I D C Navi Mumbai-400710	7 Spices Board Quality Evaluation Laboratory World Trade Avenue, Harbour Estate, New Port, TUTICORIN-628004
4 Spices Board Quality Evaluation Laboratory Plot NO. 22A, Sector 8, Gandhidham, Gujarat - 370201	8 Spices Board Quality Evaluation Laboratory Chuttugunta Centre, GT Road, Guntur-522004.

*The technical bid is to be submitted by filing in Section I and II, duly signed by the authorized signatory in the 'Declaration of the Bidder'. Section III is to be left blank. incompleteness in filling up this form or failure to attach the required supporting data or documents, may result in rejection of the quotation.*

#### Section I: Details of the Quotation



Quotation Submitted By	
Quotation Reference No.	
Date of submission of quotation	
Details of EMD submitted (if any)	
Full Address	
Name of principal supplier (if not self)	
Authorized contact person	
Designation	
Contact details	
List of supporting documents submitted along with the quotation	

**Section II:  
Compliance with Technical Specifications  
Variable Volume Micropipettes - SET (8 Nos)**

	<b>Required Specification</b>	<b>Complying (Yes/No)</b>	<b>Remarks</b>	<b>Documentary Evidence Enclosed?</b>
	A set of high quality, pre-calibrated, variable volume micropettes and assorted tips for use in high precision chemical analysis and research is to be quoted which meet the following specifications			
1	The micropipettes should be lightweight, durable and ergonomically designed.			
2	Should facilitate easy and reproducible setting of desired volumes, low-force and high accuracy pipetting, and easy tip-release.			
3	Each unit in the set should come with a unique code and calibration certificate			

	which indicate the systematic error and random error at the high and low volume limits of the unit.			
4	The SET should have variable volume micropipettes in the following ranges: <ul style="list-style-type: none"> <li>• 2-20 microliters</li> <li>• 20-200 microliters</li> <li>• 100-1000 microliters</li> <li>• 1-10 milliliters</li> </ul>			
5	The pipettes should be fully autoclavable.			
6	The pipettes should be supplied with certificates citing the unique pipette code and should meet the systematic errors in the following limits <u>or better</u> : <ul style="list-style-type: none"> <li>• 2-20 microliters: (<math>\pm 6\%</math> at 2ul and <math>\pm 1.2\%</math> at 20ul)</li> <li>• 20-200 microliters (<math>\pm 3\%</math> at 20ul and <math>\pm 1\%</math> at 200ul)</li> <li>• 100-1000 microliters (<math>\pm 4\%</math> at 100ul and <math>\pm 1\%</math> at 1000ul)</li> <li>• 1-10 milliliters (<math>\pm 4\%</math> at 1ml and <math>\pm 1\%</math> at 10ml)</li> </ul> The random errors at each limit for each pipette should be indicated			<b>YES / NO</b>
7	A set of 500 tips for each pipette should be quoted.			
8	Pipette stands (combined or separate) that can hold all four pipettes should be quoted			
9	The vendor should be able to provide onsite calibration services for the pipettes in the volume ranges indicated above.			
10	The price of onsite calibration of the four pipettes, twice a year for a period of two years should be quoted.			
11	Any accessories / consumables required for trouble free operation of the instruments for a period of two years to be quoted.			
12	Full warranty information should be provided.			
13	The quoted model should have a minimum of 5 users in India. The list of users should			

	be provided in the format mentioned in the terms and conditions of this tender.			
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*Declaration by the Bidder*

It is hereby declared that, the technical details given above are correct as pertaining to the quoted model, and all data and reports required for substantiation technical claims have been submitted.

SIGNATURE OF TENDERER  
SEAL OF THE COMPANY  
DATE

Please see section III below for financial bid. **Section III is not to be filled in the Technical Bid.**

**Section III**  
**Financial Bid**  
**Variable Volume Micropipettes - SET(8 Nos)**

This sheet is to be attached as a covering sheet along with the formal financial bid of the quoted instrument. In case more than one instrument / model is quoted, separate sheets have to be attached with each quotation.

Financial Summary for the Instrument model : \_\_\_\_\_

Price Description		Price	Comments (if any)
Quoted Currency			
Total Instrument Cost	[a]		
Total cost of Supporting Instruments	[b]		
Comprehensive Warranty Charges (if applicable)	[c]		
Any other charges	[d]		
CIF [a] + [b] + [c] + [d] =	[e]		
Conversion Factor to INR*	[f]		
Total Price in INR [e] x [f] =	[g]		
**Total cost of Items quoted in INR =	[h]		
Final Price in INR = g + h =	[i]		

\* Use the conversion factor as on the date prior to the date of submission of the quotation and mention this date clearly.

\*\* Give full list of items quoted in Indian Rupees separately.

***Declaration by the Bidder***

It is hereby declared that, the financial details given above are correct as pertaining to the quoted model, and all data and reports required for substantiation technical claims have been submitted.

SIGNATURE OF TENDERER  
 SEAL OF THE COMPANY  
 DATE

# Annexure 18

## Concentration Workstation

No. of Instruments required: 7 (Kolkata, Kochi, Mumbai, Narela, Chennai, Tuticorin, Guntur)

### Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/TENDER/INST & ACCYS-1/2017

26-9-2017

#### Location of Supply and Installation:

The Instrument(s) will be required to be delivered and installed at the following locations:

1 Spices Board Quality Evaluation Laboratory C/o Project Site, District Headquarter of South 24, Paraganas at Baruipur, JL No. 48, LR Khatian No. 1311, Mouza-Chakarbar, PO&PS Baruipur District South 24-Paraganas West Bengal 700144	4 Spices Board Quality Evaluation Laboratory Near Satyawadi Raja Harishchandra Hospital, Behind Indian Oil petrol pump, Narela, New Delhi, India
2 Spices Board Quality Evaluation Laboratory Sugandha Bhavan, Palarivattom PO, Near NH Bypass, Kochi Kerala 682025	5 Spices Board Quality Evaluation Laboratory Plot No. R-11, SIPCOT Industrial Complex, North End Road, Gummidipoondi Chennai - 601 201.
3 Spices Board Quality Evaluation Laboratory EL-184, Electronic Zone TTC Industrial Area, M I D C Navi Mumbai-400710	6 Spices Board Quality Evaluation Laboratory World Trade Avenue, Harbour Estate, New Port, TUTICORIN-628004
	7 Spices Board Quality Evaluation Laboratory Chuttugunta Centre, GT Road, Guntur-522004.

*The technical bid is to be submitted by filing in Section I and II, duly signed by the authorized signatory in the 'Declaration of the Bidder'. Section III is to be left blank.*

*incompleteness in filling up this form or failure to attach the required supporting data or documents, may result in rejection of the quotation.*

### Section I: Details of the Quotation

Quotation Submitted By	
Quotation Reference No.	
Date of submission of quotation	

Details of EMD submitted (if any)	
Full Address	
Name of principal supplier (if not self)	
Authorized contact person	
Designation	
Contact details	
List of supporting documents submitted along with the quotation	

## Section II: Compliance with Technical Specifications

### Concentration Workstation

***Against each point in the technical specification, compliance must be marked as YES / NO***

	Required Specification	Complying (Yes/No)	Remarks	Documentary Evidence Enclosed?
1	A high quality, durable nitrogen based bench top evaporation workstation should be quoted, with the following features:			
2	At least 50 nozzles for appropriate numbers of sample loading			
3	Volume ranges should be 1ml to 30ml			
4	Digital display of parameters: At least temperature, time and nitrogen pressure			
5	Bath temperature with range from ambient to 99°C with temperature accuracy of at least +/- 3C and resolution of +/- 1C should be available			
6	Timer range 1min - 99 min at least. Timer accuracy should be 0.1%			
7	Settable pressure ranges from 0 to 30PSI with precise pressure control			

8	The system should have a push button based interface for entering / setting parameters			
9	Facility to connect to a computer or printer for printing out records is desirable.			
10	The system should be able to handle / evaporate solvents like water, acetone, acetonitrile, ethyl acetate, hexane, methanol, metylene chloride and toluene.			
11	The system should have CE certification.			
12	<b>Accessories</b>			
13	The evaporation tubes and racks for the following volumes should be quoted: 30ml, 10ml and 4ml. If the above volumes are not available exactly, the nearest volumes should be quoted. Facility for easy changing of racks for different volumes should be available.			
14	One nitrogen cylinder of required purity, along with regulators, tubes and any other accessory needed to connect the cylinder to the system, should be quoted from sources at the site where the instrument is to be installed.			
15	<b>Additional Terms and Conditions</b>			
16	A complete compliance statement (this sheet filled in), stating the status of compliance with each point in the technical specification, should necessarily accompany the quotation.			
17	A minimum of 5 users of the quoted model in India should be available. The list of these users, with full details of contact persons, addresses, telephone, mobile and email should be provided in table form.			

### Comprehensive Warranty

1	The warranty period should be 5 Years. All breakdown of the instrument should be addressed within 24 hours by an onsite visit.			
2	All parts of the instrument, accessories and supporting instruments should be covered under the warranty. If any accessory / spare part / consumable is not covered under the comprehensive warranty, then the itemised list of such items, including their prices during the period 2014-15 and average lifetime of the items should be provided.			
3	The equipment should be installed at the proposed site, demonstrate the required objective of the test with the claimed limit of detection/quantification with the sample provided.			
4	Training should be given to the staff at the site, for the operation of the instrument on demand			
5	Any accessory system(s) other than those mentioned in the			

	technical specifications, that are required for satisfactory installation of the system should be quoted and supplied with the instrument.			
6	Agency commission: Agency commission if any will be paid to the Indian agent in rupees on receipt of the equipment and after satisfactory installation.			
7	Agency commission will not be paid in foreign currency under any circumstances. The details should be explicitly shown in tender even in case of Nil commission. The tender should indicate the percentage of Agency commission to be paid to the Indian agent.			

***Declaration 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.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

DATE

Please see section III below for financial bid. **Section III is not to be filled in the Technical Bid.**



**Section III: Financial Bid**  
**Concentration Workstation**

This sheet is to be attached as a covering sheet along with the formal technical bid of the quoted instrument. In case more than one instrument / model is quoted, separate sheets have to be attached with each quotation.

Financial Summary for the Instrument model : \_\_\_\_\_

Price Description		Price	Comments (if any)
Quoted Currency			
Total Instrument Cost	[a]		
Total cost of Supporting Instruments	[b]		
Comprehensive Warranty Charges	[c]		
Any other charges	[d]		
CIF Kolkata, Gujarat [a] + [b] + [c] + [d] =	[e]		
Conversion Factor to INR*	[f]		
Total Price in INR [e] x [f] =	[g]		
**Toal cost of Items quoted in INR =	[h]		
Final Price in INR = g + h =	[i]		

\* Use the conversion factor as on the date prior to the date of submission of the quotation and mention this date clearly.

\*\* Give full list of items quoted in Indian Rupees separately.

***Declaration 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.

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

DATE

# Annexure 19

## Portable Nitrogen Generator

No. of Instruments required: 8 (Kolkata, Kochi, Mumbai, Kandla, Narela, Chennai, Tuticorin, Guntur)

### Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/TENDER/INST & ACCYS-1/2017

26-9-2017

#### Location of Supply and Installation:

The Instrument(s) will be required to be delivered and installed at the following locations:

1 Spices Board Quality Evaluation Laboratory C/o Project Site, District Headquarter of South 24, Paraganas at Baruipur, JL No. 48, LR Khatian No. 1311, Mouza-Chakarbar, PO&PS Baruipur District South 24-Paraganas West Bengal 700144	5 Spices Board Quality Evaluation Laboratory Near Satyawadi Raja Harishchandra Hospital, Behind Indian Oil petrol pump, Narela, New Delhi, India
2 Spices Board Quality Evaluation Laboratory Sugandha Bhavan, Palarivattom PO, Near NH Bypass, Kochi Kerala 682025	6 Spices Board Quality Evaluation Laboratory Plot No. R-11, SIPCOT Industrial Complex, North End Road, Gummidipoondi Chennai - 601 201.
3 Spices Board Quality Evaluation Laboratory EL-184, Electronic Zone TTC Industrial Area, M I D C Navi Mumbai-400710	7 Spices Board Quality Evaluation Laboratory World Trade Avenue, Harbour Estate, New Port, TUTICORIN-628004
4 Spices Board Quality Evaluation Laboratory Plot NO. 22A, Sector 8, Gandhidham, Gujarat - 370201	8 Spices Board Quality Evaluation Laboratory Chuttugunta Centre, GT Road, Guntur-522004.

*The technical bid is to be submitted by filing in Section I and II, duly signed by the authorized signatory in the 'Declaration of the Bidder'. Section III is to be left blank. incompleteness in filling up this form or failure to attach the required supporting data or documents, may result in rejection of the quotation.*

### Section I: Details of the Quotation

Quotation Submitted By	
Quotation Reference No.	
Date of submission of quotation	
Details of EMD submitted (if any)	
Full Address	
Name of principal supplier (if not self)	
Authorized contact person	
Designation	
Contact details	
List of supporting documents submitted along with the quotation	

**Section II:  
Compliance with Technical Specifications  
Portable Nitrogen Generator (8 Nos)**

	<b>Required Specification</b>	<b>Complying (Yes/No)</b>	<b>Remarks</b>	<b>Documentary Evidence Enclosed?</b>
	A portable nitrogen generator system capable of delivering analytical grade nitrogen gas for use in evaporation system for high sensitivity residue analysis in laboratory should be quoted, with the following features:			
1	Nitrogen should be generated from atmospheric air. The system should be capable of trouble free automatic operation.			
2	Compact and portable. Should be suitable for indoor installation.			
3	The model should have a built in, oil-free,			

	noiseless compressor (55db or less) which is suitable for indoor operation in the laboratory.			
4	Modular design.			
5	Should employ membrane technology. Purity of Nitrogen gas delivered should be suitable for operation in LC MS/MS and GC MS/MS systems of leading vendors. Certificate of such usability should be provided.			
6	Should be capable of outlet pressure of 6.5-7 bar and flowrate at least 32L/min and ambient outlet temperature			
7	Should have in-built requisite filters			
8	Suspended particles in generated nitrogen should be less than 0.01microns			
9	Should have in-built safety systems, alarm and service-due intimation.			
10	All accessories for installation and operation of the system should be included in the quote.			
11	Any accessories / consumables required for trouble free operation of the system for a period of two years to be quoted.			
12	Full warranty information should be provided.			
13	The quoted model should have a minimum of 5 users in India. The list of users should be provided in the format mentioned in the terms and conditions of this tender.			

*Declaration by the Bidder*

It is hereby declared that, the technical details given above are correct as pertaining to the quoted model, and all data and reports required for substantiation technical claims have been submitted.

SIGNATURE OF TENDERER  
SEAL OF THE COMPANY  
DATE

Please see section III below for financial bid. **Section III is not to be filled in the Technical Bid.**

**Section III**  
**Financial Bid**  
**Portable Nitrogen Generator (8 Nos)**

This sheet is to be attached as a covering sheet along with the formal financial bid of the quoted instrument. In case more than one instrument / model is quoted, separate sheets have to be attached with each quotation.

Financial Summary for the Instrument model : \_\_\_\_\_

Price Description		Price	Comments (if any)
Quoted Currency			
Total Instrument Cost	[a]		
Total cost of Supporting Instruments	[b]		
Comprehensive Warranty Charges (if applicable)	[c]		
Any other charges	[d]		
CIF [a] + [b] + [c] + [d] =	[e]		
Conversion Factor to INR*	[f]		
Total Price in INR [e] x [f] =	[g]		
**Total cost of Items quoted in INR =	[h]		
Final Price in INR = g + h =	[i]		

\* Use the conversion factor as on the date prior to the date of submission of the quotation and mention this date clearly.

\*\* Give full list of items quoted in Indian Rupees separately.

***Declaration by the Bidder***

It is hereby declared that, the financial details given above are correct as pertaining to the quoted model, and all data and reports required for substantiation technical claims have been submitted.

SIGNATURE OF TENDERER  
SEAL OF THE COMPANY  
DATE

## Annexure 20

### Refrigerated centrifuge for Residue Analysis

No. of Instruments required: 8 (Kolkata, Kochi, Mumbai, Kandla, Narela, Chennai, Tuticorin, Guntur)

#### Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/TENDER/INST & ACCYS-1/2017

26-9-2017

#### Location of Supply and Installation:

The Instrument(s) will be required to be delivered and installed at the following locations:

1 Spices Board Quality Evaluation Laboratory C/o Project Site, District Headquarter of South 24, Paraganas at Baruipur, JL No. 48, LR Khatian No. 1311, Mouza-Chakarbar, PO&PS Baruipur District South 24-Paraganas West Bengal 700144	5 Spices Board Quality Evaluation Laboratory Near Satyawadi Raja Harishchandra Hospital, Behind Indian Oil petrol pump, Narela, New Delhi, India
2 Spices Board Quality Evaluation Laboratory Sugandha Bhavan, Palarivattom PO, Near NH Bypass, Kochi Kerala 682025	6 Spices Board Quality Evaluation Laboratory Plot No. R-11, SIPCOT Industrial Complex, North End Road, Gummidipoondi Chennai - 601 201.
3 Spices Board Quality Evaluation Laboratory EL-184, Electronic Zone TTC Industrial Area, M I D C Navi Mumbai-400710	7 Spices Board Quality Evaluation Laboratory World Trade Avenue, Harbour Estate, New Port, TUTICORIN-628004
4 Spices Board Quality Evaluation Laboratory Plot NO. 22A, Sector 8, Gandhidham, Gujarat - 370201	8 Spices Board Quality Evaluation Laboratory Chuttugunta Centre, GT Road, Guntur-522004.

*The technical bid is to be submitted by filing in Section I and II, duly signed by the authorized signatory in the 'Declaration of the Bidder'. Section III is to be left blank. incompleteness in filling up this form or failure to attach the required supporting data or documents, may result in rejection of the quotation.*

### Section I: Details of the Quotation

Quotation Submitted By	
Quotation Reference No.	
Date of submission of quotation	
Details of EMD submitted (if any)	
Full Address	
Name of principal supplier (if not self)	
Authorized contact person	
Designation	
Contact details	
List of supporting documents submitted along with the quotation	

### Section II: Compliance with Technical Specifications Refrigerated centrifuge for Residue Analysis

	Required Specification	Complying (Yes/No)	Remarks	Documentary Evidence Enclosed?
	A high quality refrigerated table-top centrifuge meeting high and low speed centrifugation requirements in quality control laboratories should be quoted.			
1	The system should have microprocessor control for accurate and reliable centrifugation			
2	System should have ergonomic design, and should be easily portable, compact and stable			
3	Easy setting of parameters / programs through a push button interface			

4	Maintenance free brushless induction motor			
5	Refrigeration - CFC free, pre cooling facility Set temperature range -9°C to ambient or better			
6	Maximum speed: 18,000 RPM or better based on rotor settings (see below). Speed set steps of 10 rpm maximum Speed control accuracy +/- 20 rpm			
7	Programmable runtime and temperature settings, with digital display, capable of unattended operation.			
8	Acceleration and deceleration profiles pre-set and programmable			
9	In-built safety measures, minimum the following: load balancing indicators, alarms and error displays Locking of lid while in operation Motor over temperature protection Rotor overspeed protection			
10	Digital displays for speed (rpm / rcf), acceleration and braking rates			
11	<b>Rotors -1</b> <ul style="list-style-type: none"> <li>• 8 x 50ml fixed angle rotor, capable of achieving 5000 rpm</li> <li>• Should accommodate 50ml conical bottom centrifuge tubes</li> <li>• 8 Nos. of suitable adapters for using 15ml conical bottom centrifuge tubes</li> <li>• 32 Nos. of 50ml and 15ml centrifuge tubes with cap, of high quality material suitable for high sensitivity pesticide residue analysis should be provided.</li> </ul>			
12	<b>Rotors -2</b> <ul style="list-style-type: none"> <li>• 24 x 2ml fixed angle rotor, capable of achieving minimum 18000rpm.</li> <li>• Should be able to accommate 2ml centrifuge tubes.</li> <li>• 120 nos. of 2ml centrifuge tubes with cap of high quality material suitable for high sensitivity</li> </ul>			



	<p>pesticide residue analysis should be provided.</p> <ul style="list-style-type: none"> <li>In this case, slight variation in the tube volume is permissible, according to the configuration of the machine.</li> </ul>			
13	Facility for easy and hassle-free installation (tool-free preferred) by the user of the above two rotors in the machine should be available.			
14	Timer 1-99 minutes, with holding time setting, Timer set step 1 min			
15	The rotor accessories for loading tubes of the following volumes should be quoted in required numbers			
16	All accessories for installation and operation of the system should be included in the quote.			
17	Any accessories / consumables required for trouble free operation of the system for a period of two years to be quoted.			
18	Full warranty information should be provided.			
19	The quoted model should have a minimum of 5 users in India. The list of users should be provided in the format mentioned in the terms and conditions of this tender.			

*Declaration by the Bidder*

It is hereby declared that, the technical details given above are correct as pertaining to the quoted model, and all data and reports required for substantiation technical claims have been submitted.

SIGNATURE OF TENDERER  
SEAL OF THE COMPANY  
DATE

Please see section III below for financial bid. **Section III is not to be filled in the Technical Bid.**

**Section III**  
**Financial Bid**  
**Refrigerated centrifuge for Residue Analysis (8 Nos)**

This sheet is to be attached as a covering sheet along with the formal financial bid of the quoted instrument. In case more than one instrument / model is quoted, separate sheets have to be attached with each quotation.

Financial Summary for the Instrument model : \_\_\_\_\_

Price Description		Price	Comments (if any)
Quoted Currency			
Total Instrument Cost	[a]		
Total cost of Supporting Instruments	[b]		
Comprehensive Warranty Charges (if applicable)	[c]		
Any other charges	[d]		
CIF [a] + [b] + [c] + [d] =	[e]		
Conversion Factor to INR*	[f]		
Total Price in INR [e] x [f] =	[g]		
**Total cost of Items quoted in INR =	[h]		
Final Price in INR = g + h =	[i]		

\* Use the conversion factor as on the date prior to the date of submission of the quotation and mention this date clearly.

\*\* Give full list of items quoted in Indian Rupees separately.

***Declaration by the Bidder***

It is hereby declared that, the financial details given above are correct as pertaining to the quoted model, and all data and reports required for substantiation technical claims have been submitted.

SIGNATURE OF TENDERER  
 SEAL OF THE COMPANY  
 DATE

**Annexure-21**  
**REQUIREMENT OF IMMUNOAFFINITY COLUMNS AND ACCESSORIES**  
**2017-18**

Supply to: 8 QELs (Kolkata, Kochi, Mumbai, Kandla, Narela, Chennai, Tuticorin, Guntur)

**Technical Specifications**  
 (To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/TENDER/INST & ACCYS-1/2017

26-9-2017

**Location of Supply and Installation:**

**The items(s) will be required to be delivered at the following locations:**

1 Spices Board Quality Evaluation Laboratory C/o Project Site, District Headquarter of South 24, Paraganas at Baruipur, JL No. 48, LR Khatian No. 1311, Mouza-Chakarbar, PO&PS Baruipur District South 24-Paraganas West Bengal 700144	5 Spices Board Quality Evaluation Laboratory Near Satyawadi Raja Harishchandra Hospital, Behind Indian Oil petrol pump, Narela, New Delhi, India
2 Spices Board Quality Evaluation Laboratory Sugandha Bhavan, Palarivattom PO, Near NH Bypass, Kochi Kerala 682025	6 Spices Board Quality Evaluation Laboratory Plot No. R-11, SIPCOT Industrial Complex, North End Road, Gummidipoondi Chennai - 601 201.
3 Spices Board Quality Evaluation Laboratory EL-184, Electronic Zone TTC Industrial Area, M I D C Navi Mumbai-400710	7 Spices Board Quality Evaluation Laboratory World Trade Avenue, Harbour Estate, New Port, TUTICORIN-628004
4 Spices Board Quality Evaluation Laboratory Plot NO. 22A, Sector 8, Gandhidham, Gujarat - 370201	8 Spices Board Quality Evaluation Laboratory Chuttugunta Centre, GT Road, Guntur-522004.

*The technical bid is to be submitted by filing in Section I and II, duly signed by the authorized signatory in the 'Declaration of the Bidder'. Section III is to be left blank. incompleteness in filling up this form or failure to attach the required supporting data or documents, may result in rejection of the quotation.*

**Section I: Details of the Quotation**

Quotation Submitted By	
Quotation Reference No.	
Date of submission of quotation	
Details of EMD submitted (if any)	
Full Address	

Name of principal supplier (if not self)	
Authorized contact person	
Designation	
Contact details	
List of supporting documents submitted along with the quotation	

## Section II

### Ochratoxin Immunoaffinity Columns and Accessories

**Supply to: 8 QELs**

**(Kolkata, Kochi, Mumbai, Kandla, Narela, Chennai, Tuticorin, Guntur)**

The following items I to IV maybe quoted collectively (with breakup prices) or separately (item wise). All technical claims should be substantiated by data.

**The vendors quoting for immunoaffinity columns must necessarily quote for filter papers given below.**

#### I. Immunoaffinity columns for Ochratoxin A

##### Specification for IAC columns for Ochratoxin A

No	Specifications	Technical Requirement	Complying (Yes/No)
1	Immunoaffinity monoclonal-antibody columns for analysis and Quantification of Ochratoxin A at ug/kg (ppb) levels ( 1 ppb to 300 ppb)	Immunoaffinity monoclonal- antibody columns for analysis and Quantification of Ochratoxin A at ug/kg (ppb) levels	
2	Number of columns required	1000 columns	
3	Mode of supply	Staggered supply in batches as required, over the year. Order will be placed in batches as per requirement, over the 2017-18 period.	
4	Place of Supply	Anywhere in India, as intimated from Head Office during the supply of each batch.	
5	Recovery from spiked samples for Ochratoxin A using HPLC with fluorescence detector	At least 85%. Should be substantiated by analytical data (include the same with the quotation).	
6	Background interference in HPLC fluorescence detector	<0.5 ug/kg	
7	Sensitivity	Better than 0.1 ug/kg with a wide range. The	

		high limit for the column has to be specified.	
8	Shelf life	At least 15 months shelf life at room temperature (20 - 25°C).	
9	Compatibility requirement	Should be compatible with Vicam 12-position pump stand or equivalent	
10	Certification	Columns should have AOAC collaborative test approval/ AOAC performance test approval / approval from an equivalent international technical Body. Proof should be submitted along with the quotation.	
11	Certificate of confirmative from USDA or any other equivalent international regulatory agency should be available. Proof should also be submitted along with the quotation.	Certificate of confirmative from USDA or any other equivalent international regulatory agency should be available. Proof should also be submitted along with the quotation.	
12	Other Requirements/Traceability	Columns should be supplied with certificate of analysis, % of recovery for Ochratoxin A and <u>batch-wise expiry date</u> , with a min. of 85% recovery	
13	Details of full validation of Ochratoxin A Analysis using the post column derivatization system, including chromatograms and LOQ confirmation at 0.5 ppb using HPLC - Fluorescence Detector, should be provided.	Validation Data to be included with the quotation.	
14	Chemicals required	Any <u>buffer solution</u> or <u>other chemicals</u> required for use with the columns for HPLC - FD analysis should be included in the quotation	
15	Users' List	A complete users list, with <u>user contact, phone numbers and email id</u> , for the quoted brand of columns in India should be included along with the quotation	
16	<u>Undertaking of Quality Assurance</u> : Any batch of columns, which proves to be unsuitable due to low recovery, slow elution rate ( <u>not more than 3 minutes maximum for 10 ml elution</u> ) etc., should be replaced immediately without charge.	Undertaking to be provided along with the quotation.	

17	Other requirements	Any other accessory required for using the columns should be quoted in required numbers and should be made available along with the columns.	
18	Sample Columns	<u>Ten numbers</u> of sample columns, which is proposed to be supplied against the tender, need to be included with the quotation for evaluation, along with necessary accessories required (if any) for the elution.	
19	Bank Guarantee	<u>A Bank Guarantee of 10% of the order value for each batch of columns</u> will be required for the supply of the columns before releasing the purchase order.	
20	Compliance statement	A duly signed statement of compliance, by authorised company representative, with each point in this technical specification should be provided	

**II. Filter papers for Aflatoxins and Ochratoxin-A Analysis.**  
**Parties quoting for filter papers only should necessarily produce a certificate of compatibility from at least one reputed aflatoxin / ochratoxin immunoaffinity column manufacturer along with the quotation.**

1	<ul style="list-style-type: none"> <li>a) Fluted filter paper with 240mm diameter, suitable for mycotoxin analysis.</li> <li>b) Glass micro fibre filter papers as per the standard procedure (ASTA 24.1) should be quoted even if not required as per the normal procedure for usage of the quoted columns.</li> </ul>	Equal to the number of columns (1000 for Ochratoxin A) should be supplied. Itemised price should be quoted for each type of filter paper.	
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*Declaration by the Bidder*

It is hereby declared that, the technical details given above are correct as pertaining to the quoted model, and all data and reports required for substantiation technical claims have been submitted.

SIGNATURE OF TENDERER  
SEAL OF THE COMPANY  
DATE

Please see section III below for financial bid. **Section III is not to be filled in the Technical Bid.**

**Section III**  
**Ochratoxin Immunoaffinity Columns and Accessories**  
**Supply to: 8 QELs**  
**(Kolkata, Kochi, Mumbai, Kandla, Narela, Chennai, Tuticorin, Guntur)**

This sheet is to be attached as a covering sheet along with the formal financial bid of the quoted instrument. In case more than one instrument / model is quoted, separate sheets have to be attached with each quotation.

Financial Summary for the tender : \_\_\_\_\_

Price Description		Price	Comments (if any)
Quoted Currency			
Total Instrument Cost	[a]		
Total cost of Supporting Instruments	[b]		
Comprehensive Warranty Charges (if applicable)	[c]		
Any other charges	[d]		
CIF [a] + [b] + [c] + [d] =	[e]		
Conversion Factor to INR*	[f]		
Total Price in INR [e] x [f] =	[g]		
**Total cost of Items quoted in INR =	[h]		
Final Price in INR = g + h =	[i]		

\* Use the conversion factor as on the date prior to the date of submission of the quotation and mention this date clearly.

\*\* Give full list of items quoted in Indian Rupees separately.

***Declaration by the Bidder***

It is hereby declared that, the financial details given above are correct as pertaining to the quoted model, and all data and reports required for substantiation technical claims have been submitted.

SIGNATURE OF TENDERER  
SEAL OF THE COMPANY  
DATE

## Annexure 22

### Custom QuEChERS Kits

Supply to: 8 QELs (Kolkata, Kochi, Mumbai, Kandla, Narela, Chennai, Tuticorin, Guntur)

#### Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/TENDER/INST & ACCYS-1/2017

26-9-2017

#### Location of Supply and Installation:

The Instrument(s) will be required to be delivered and installed at the following locations:

1	Spices Board Quality Evaluation Laboratory C/o Project Site, District Headquarter of South 24, Paraganas at Baruipur, JL No. 48, LR Khatian No. 1311, Mouza-Chakarbar, PO&PS Baruipur District South 24-Paraganas West Bengal 700144	5	Spices Board Quality Evaluation Laboratory Near Satyawadi Raja Harishchandra Hospital, Behind Indian Oil petrol pump, Narela, New Delhi, India
2	Spices Board Quality Evaluation Laboratory Sugandha Bhavan, Palarivattom PO, Near NH Bypass, Kochi Kerala 682025	6	Spices Board Quality Evaluation Laboratory Plot No. R-11, SIPCOT Industrial Complex, North End Road, Gummidipoondi Chennai - 601 201.
3	Spices Board Quality Evaluation Laboratory EL-184, Electronic Zone TTC Industrial Area, M I D C Navi Mumbai-400710	7	Spices Board Quality Evaluation Laboratory World Trade Avenue, Harbour Estate, New Port, TUTICORIN-628004
4	Spices Board Quality Evaluation Laboratory Plot NO. 22A, Sector 8, Gandhidham, Gujarat - 370201	8	Spices Board Quality Evaluation Laboratory Chuttugunta Centre, GT Road, Guntur-522004.

*The technical bid is to be submitted by filing in Section I and II, duly signed by the authorized signatory in the 'Declaration of the Bidder'. Section III is to be left blank. incompleteness in filling up this form or failure to attach the required supporting data or documents, may result in rejection of the quotation.*

#### Section I: Details of the Quotation



Quotation Submitted By	
Quotation Reference No.	
Date of submission of quotation	
Details of EMD submitted (if any)	
Full Address	
Name of principal supplier (if not self)	
Authorized contact person	
Designation	
Contact details	
List of supporting documents submitted along with the quotation	

**Section II:**  
**Custom QuEChERS Kits**  
**Supply to: 8 QELs**  
**(Kolkata, Kochi, Mumbai, Kandla, Narela, Chennai, Tuticorin, Guntur)**

**Table 1**

	<b>Required Specification</b>	<b>Complying (Yes/No)</b>	<b>Remarks</b>	<b>Documentary Evidence Enclosed?</b>
1	Saches of the two sets of QuEChERS chemicals, with compositions as detailed in Table 2 below, is to be quoted.			
2	No. of sachets required (will have to be supplied in staggered batches as per order): Set 1: 2400 Nos. Set 2: Composition 1: 500 Nos. Composition 2: 1500 Nos. Composition 3: 200 Nos. Composition 4: 200 Nos.			

3	Each sachet should be made from highest grade, chemical resistant, leak proof, non sticky material, which is <u>water and UV resistant</u> can be easily opened for dispensing, and packed under nitrogen (not vacuum).			
4	All chemicals in the kits should be of purity suitable for use in high precision pesticide residue analysis. Clumping of salts in the sachets should be avoided. The material should be free-flowing for easy dispensing.			
5	The weighing should be accurate up to 5% of required weight.			
6	Labeling requirements: Each sachet should be <u>printed</u> with the sachet name as mentioned in table 2 below, batch number, and name / weight of the items.			
7	Certificates for every batch, with indicated batch numbers, with sachet name, name of contents and respective weights should be provided.			
8	Desirable accessories: Any desirable accessory which will facilitate the use of the sachets should be quoted as optionals separately.			
9	The supply for each order should be undertaken in staggered manner to the respective QELs as defined in the Purchase order.			
10	If any defect is found in any supplied satchet / batch, same has to be replaced.			
11	Sample sachets of both sets as in Table 2 below (ten numbers each) should be provided along with the quotation for evaluation.			

**Table 2 (a)**

SET 1	Composition	
	MgSO4	NaCl
SACHET NAME		
PACK-1	4g	1g

**Table 2(b)**

<b>SET 2 (d-SPE sorbents)</b>		<b>Compositions</b>			
<b>SACHET NAME</b>		<b>PSA</b>	<b>End capped C18</b>	<b>MgSO4</b>	<b>GCB</b>
Cardamom & Chilli	GC MSMS	25mg	100mg	0	10mg
Cumin	GC MSMS	75mg	100mg	0	0
Cardamom	LC MSMS	75mg	75mg	150mg	0
Cumin	LC MSMS	150mg	75mg	450mg	75mg

*Declaration by the Bidder*

It is hereby declared that, the technical details given above are correct as pertaining to the quoted model, and all data and reports required for substantiation technical claims have been submitted.

SIGNATURE OF TENDERER  
SEAL OF THE COMPANY  
DATE

Please see section III below for financial bid. **Section III is not to be filled in the Technical Bid.**

**Section III**  
**Custom QuEChERS Kits**  
**Supply to: 8 QELs**  
**(Kolkata, Kochi, Mumbai, Kandla, Narela, Chennai, Tuticorin, Guntur)**

This sheet is to be attached as a covering sheet along with the formal financial bid of the quoted instrument. In case more than one instrument / model is quoted, separate sheets have to be attached with each quotation.

Financial Summary for the items : \_\_\_\_\_

Price Description		Price	Comments (if any)
Quoted Currency			
Rate per sachet for pack-1	a		
Rate per sachet for pack-2	b		
Any other charges	c		
Total Amount = [a] + [b] + [c] =	d		
Conversion Factor to INR*	e		
Total Price in INR [d] x [e] =	f		
**Any other charges quoted in INR	g		
Final Price in INR = f + g =			

\* Use the conversion factor as on the date prior to the date of submission of the quotation and mention this date clearly.

\*\* Give full list of items quoted in Indian Rupees separately.

***Declaration by the Bidder***

It is hereby declared that, the financial details given above are correct as pertaining to the quoted model, and all data and reports required for substantiation technical claims have been submitted.

SIGNATURE OF TENDERER  
 SEAL OF THE COMPANY  
 DATE

## Annexure 23

### Water Activity Meter

Supply to: 7 QELs (Kolkata, Mumbai, Kandla, Narela, Chennai, Tuticorin, Guntur)

#### Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/TENDER/INST & ACCYS-1/2017

26-9-2017

#### Location of Supply and Installation:

The Instrument(s) will be required to be delivered and installed at the following locations:

1 Spices Board Quality Evaluation Laboratory C/o Project Site, District Headquarter of South 24, Paraganas at Baruipur, JL No. 48, LR Khatian No. 1311, Mouza-Chakarbar, PO&PS Baruipur District South 24-Paraganas West Bengal 700144	4 Spices Board Quality Evaluation Laboratory Near Satyawadi Raja Harishchandra Hospital, Behind Indian Oil petrol pump, Narela, New Delhi, India
2 Spices Board Quality Evaluation Laboratory EL-184, Electronic Zone TTC Industrial Area, M I D C Navi Mumbai-400710	5 Spices Board Quality Evaluation Laboratory Plot No. R-11, SIPCOT Industrial Complex, North End Road, Gummidipoondi Chennai - 601 201.
3 Spices Board Quality Evaluation Laboratory Plot NO. 22A, Sector 8, Gandhidham, Gujarat - 370201	6 Spices Board Quality Evaluation Laboratory World Trade Avenue, Harbour Estate, New Port, TUTICORIN-628004
	7 Spices Board Quality Evaluation Laboratory Chuttugunta Centre, GT Road, Guntur-522004.

*The technical bid is to be submitted by filing in Section I and II, duly signed by the authorized signatory in the 'Declaration of the Bidder'. Section III is to be left blank. incompleteness in filling up this form or failure to attach the required supporting data or documents, may result in rejection of the quotation.*

#### Section I: Details of the Quotation

Quotation Submitted By	
Quotation Reference No.	
Date of submission of quotation	

Details of EMD submitted (if any)	
Full Address	
Name of principal supplier (if not self)	
Authorized contact person	
Designation	
Contact details	
List of supporting documents submitted along with the quotation	

**Section II:  
Water Activity Meter  
Supply to: 7 QELs  
(Kolkata, Mumbai, Kandla, Narela, Chennai, Tuticorin, Guntur)**

**Table 1**

	<b>Required Specification</b>	<b>Complying (Yes/No)</b>	<b>Remarks</b>	<b>Documentary Evidence Enclosed?</b>
	Instrument which is capable of accurate measurement of water activity in all kinds of food products is to be quoted, with the following technical specifications:			
1	The instrument should be ergonomic and portable.			
2	Sensors: Infrared sample surface temperature Chilled mirror dew point technology			
3	Instrument should have a minimum operational range of temperature from ambient to 43C, and relative humidity 20-85%.			
4	Measurement time less than ten minutes			
5	Accuracy of +/- 0.01aw and resolution of 0.001aw or better			

6	Measurement range should be 0.050 to 1.000aw			
7	Sample temperature accuracy should be +/- 0.2C or better.			
8	The instrument should also be supplied NIST traceable verification standards of different values to calibrate the instrument			
9	The instrument should also be supplied with a cleaning kit			
	<b>Additional Terms and Conditions</b>			
12	A complete compliance statement (this sheet filled in), stating the status of compliance with each point in the technical specification, should <b>necessarily</b> accompany the quotation.			
13	A minimum of 10 users of the quoted model in India should be available. The list of these users, with full details of contact persons, addresses, telephone, mobile and email should be provided in table form.			
14	Complete warranty information along with the list of items covered under the warranty should be provided.			

*Declaration by the Bidder*

It is hereby declared that, the technical details given above are correct as pertaining to the quoted model, and all data and reports required for substantiation technical claims have been submitted.

SIGNATURE OF TENDERER  
SEAL OF THE COMPANY  
DATE

Please see section III below for financial bid. **Section III is not to be filled in the Technical Bid.**

**Section III**  
**Water Activity Meter**  
**Supply to: 7 QELs**  
**(Kolkata, Mumbai, Kandla, Narela, Chennai, Tuticorin, Guntur)**

This sheet is to be attached as a covering sheet along with the formal financial bid of the quoted instrument. In case more than one instrument / model is quoted, separate sheets have to be attached with each quotation.

Financial Summary for the items : \_\_\_\_\_

Price Description		Price	Comments (if any)
Quoted Currency			
Total Instrument Cost	[a]		
Total cost of Supporting Instruments	[b]		
Comprehensive Warranty Charges	[c]		
Any other charges	[d]		
CIF Kolkata, Gujarat [a] + [b] + [c] + [d] =	[e]		
Conversion Factor to INR*	[f]		
Total Price in INR [e] x [f] =	[g]		
**Toal cost of Items quoted in INR =	[h]		
Final Price in INR = g + h =	[i]		

\* Use the conversion factor as on the date prior to the date of submission of the quotation and mention this date clearly.

\*\* Give full list of items quoted in Indian Rupees separately.

***Declaration by the Bidder***

It is hereby declared that, the financial details given above are correct as pertaining to the quoted model, and all data and reports required for substantiation technical claims have been submitted.

SIGNATURE OF TENDERER  
 SEAL OF THE COMPANY  
 DATE