

# Tender Notice

Quotation Reference: SB/QEL/PUR/**KANDLA**/Instruments/2015

17-Mar-15

On behalf of the Spices Board, Ministry of Commerce, Govt. of India, Tenders are invited for the supply of **following equipment conforming to the specifications and other requirements given in the Annexure-I for the following instruments:**

## **1. Instruments for Chemistry and Residue Laboratories**

1. Atomic Absorption Spectrometer	7
2. UV-VIS Spectrophotometer	13
3. UPLC System	16
4. HPLC System	22
5. Centrifuge	28
6. Concentration workstation	33
7. Microwave Digester	37
8. Water Purification System	42
9. Recirculating Chiller	47
10. Balances 5 Digit	53
11. Balances 3 Digit	57
12. Rotary Evaporator	61
13. Muffle Furnace	66

## **2. Instruments for Microbiology Laboratory**

1. BOD Incubator	71
2. Bacteriological Incubator	75
3. Stomacher	79
4. Biosafety Cabinets	83
5. Water Bath Serological with stirrer	89
6. Hot Air Oven	93
7. Colony counter	96
8. Binocular Microscope	100
9. Autoclaves	104
10. pH Meter	108

The tenders have to be submitted in accordance with the terms and conditions given in pages 2 -4.

## Terms and Conditions

### (a) Instructions to the Bidder

1. Preparation of Bids : The tenders should be submitted under the two bid system, viz., **Technical bid** and **Financial bid**.
2. 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 the Terms and Conditions below.
3. 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 tenderers or their representatives as may choose to attend. The technical bids will be opened first and they will be examined by a Technical Committee, which will decide the suitability as per the specification and requirement. The financial offer bid will be opened only for those offers/bids, which technically meet all the requirements and specifications. The bidders, if interested, may also participate on the tender opening date and time. 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.
4. Rejection of Tenders: The Spices Board reserves the right to reject any or all of the tenders received without assigning any reason.
5. 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.

Secretary  
Spices Board, Kochi-25

### (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.

1. The last date for the submission of the tender will be at **5:00 pm on 24<sup>th</sup> April 2015** at the following Address:  
The Senior Scientist (QC)  
Sugandha Bhavan, Palarivattom PO,  
Ernakulam, Kerala-.  
Email: [sbqelkochi@gmail.com](mailto:sbqelkochi@gmail.com)
2. Tenders received after the due date and time for whatever reasons will not be considered. The offer/bids should be submitted in a manner of two bid system, i.e. [1] Technical Bid and [2] Financial Bid. **Tenders received with both the bids in the same cover shall be summarily rejected.** Tenders for each instrument has to be submitted independently and separately.

#### i. The Technical Bids:

While submitting the technical bid for for any of the instruments in Sections I and II below, the following rules must be followed :

1. The technical bid should consist of all technical details along with commercial terms and conditions.
2. The Tecnical bid should contain the following documents:
  - Details of the tender, filled in the **Section I** given in the specifications of each instrument.
  - Complaiance with tecnical specifications, filled in the **Section II** given in the specifications of each instrument.
  - In the technical bid, **Section III**, format for entering the financial details, **should be left blank. If financial details are found in the technical bid, the bid will be rejected.**
  - **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.
  - Technical bids recieved without filling in Section I and Section II, or without the signed *declaration of the bidder*, will be rejected.
3. 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.
4. Any technical literature, brochures, specification sheets etc relevant to the quoted model must be included.
5. The Technical Bid **of each instrument** should be submitted separately **in a sealed cover** superscribed **“Technical Bid – (Name of the Instrument), QEL Kandla, 2014-15”** and addressed to the Sr. Scientist (QC) (See 1 above).

ii. **Financial bid:**

1. Financial bid should indicate item wise price for the items mentioned in Technical Bid. Detailed pricing including all charges for accessories, supporting instruments, items, quoted in Indian Rupees, extended warranty, shipping, insurance, taxes, installation charges etc. should be clearly indicated. Unit rate along with split up para of the item quoted shall be given.
  2. The rates should be indicated clearly both in fugures and words. If there is any variation between the rates in figures and in words, the rates given in words will be considered for evaluation. The rates should be firm and valid for 90 days from the date of opening of financial bid. The tenderer should put full signature atleast any scoring off/corrections/or overwritings. The rates quoted should not be subject to any price variation clause.
  3. A summary of the financial bid should be submitted in the format given in **Section III** in the specifications of each instrument. This should be accompanied by the 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.
  4. *Financial bids recieved without filling Section III, or without the signed declaration of the bidder, will be rejected.*
  5. The Financial Bid should also be **in a sealed cover** superscribed **“Financial Bid –(Name of the Instrument) QEL Kandla, 2014-15”** and addressed to the Sr. Scientist (QC) (See 1 above).
- iii. Both the sealed covers viz., Technical and Financial Bids should be put into a bigger cover, along with EMD (See 3 below) and sealed. This cover should be superscribed **“Technical and Financial Bids for (Name of the Instrument) QEL Kandla, 2014-15”** and addressed to the Sr. Scientist (QC) (See 1 above).
- iv. The tenders will be opened at the Quality Evaluation Laboratory Spices Board, Kochi at **10 AM on 27<sup>th</sup> April 2015** . Only the Technical Bids will be opened on this date. The bidders who qualify in the Technical Bid will be informed of the date of opening of the Financial Bids.

3. **EMD:** (a) The tenderer should submit an EMD equal to 2% of the total quoted price along with the

tender by way of Demand Draft favouring “**Secretary, Spices Board**” and “**payable at Kochi**” from any nationalized bank valid for three months . (b) 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. (c) The EMD will be returned without any interest to the unsuccessful bidders after the award of the contract.

4. **Agreement Purchase Order forfeiture of EMD:** EMD will be forfeited if the tenderer
  - i. withdraws his tender or backs out after acceptance
  - ii. fails to remit the performance security
  - iii. violates any of the conditions prescribed in the tender notice
  - iv. revises any of the terms quoted, during the validity period
5. **Performance Security:** The successful bidder has to submit a Performance Security for an amount of 20% of the order value in the form of a **Bank Guarantee** from any nationalized bank and should be valid for 60 days beyond the date of completion of all contractual obligations including warranty obligation, and it will be released after 60 days beyond warranty period.
6. **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.
7. If an Indian Agent is involved, the following documents must be enclosed:
  - i. 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.
  - ii. Copy of the agency agreement with the foreign principal and the precise relationship between them and their mutual interest in the business.
  - iii. The enlistment of the Indian agent with Director General of Supplies & Disposals under the Compulsory Registration Scheme of Ministry of Finance.
8. 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 in Sl.No.IV. Tenders for a prototype machine will not be accepted.
9. Original catalogue (not any photocopy) of the quoted model duly signed by the principals must accompany the tender.
10. 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 in India, 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. 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 bidder's laboratory in case the need arises.
11. **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.

12. **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.
13. **Payment:** No Advance payment will be made for Indigenous purchase. Payment shall be made only after satisfactory installation is agreed to wherever the installation is involved.
14. **Warranty/Guarantee:** The offer should clearly specify five years warranty 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.
15. **User's List:** The offer should include a detailed list of users as required in the specifications of each equipment.
16. **Late offer:** The offers received after the due date and time will not be considered.
17. **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.
18. **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.
19. The tenderer must sign and affix seal on every page of the tender document and furnish a certificate acknowledgement as shown below:

**(c) 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

## **Part I**

### **Instruments for Chemistry and Residue Laboratories**

# Atomic Absorption Spectrophotometer

## Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/**KANDLA**/Instruments/14 dated 2-Jan-15

### 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 Plot No.22A, Sector -8, Near Income Tax Office Building Gandhidham, Kutch Gujarat, PIN:- 370 201
---

*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

### Atomic Absorption Spectrometer

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

	Required Specification	Complying (Yes/No)	Remarks	Documentary Evidence Enclosed?
<b>AAS</b>				
1	Operation in the wavelength range 190 - 800nm or better			
2	Integrated flame and graphite furnace instrument, with software controlled changeover of atomizer between the two facilities.			
3	Appropriate Background Correction for flame and graphite furnace			
4	Real time, double beam optical system, with simultaneous measurement of both sample and reference beams			
5	Background correction of at least 3.5 Absorbance			
6	Flame mode performance guarantee (please specify absorbance for 5ppm Cu solution)			
7	Lamp holder with facility for mounting at least 6 Hollow Cathode Lamps			
8	Software controlled lamp selection, alignment and energy optimization			
9	All Titanium burner head, with software controlled highprecision, reproducible burner adjustments			
10	Corrosion resistant nebuliser, capable of handling strong acids.			
11	PMT, Solid State Detector, or any other comparable detector with high sensitivity			
12	Complete control and monitoring of gas flows through software, with automatic gas flow adjustments during oxidant changeover			
13	Safety facilities safe shutdown in the case of sudden loss of air pressure.			
14	Flame and Graphite Furnace autosamplers, with facility for at least 100 samples, sample delivery up to 50ul, increment of 0.1ul and complete control through software.			
15	Lamps for the following elements. Wherever possible EDL lamps may be quoted, HCLs may be quoted where EDLs are not available. Please provide the type of lamps for each element in the quotation.			
	Lead			
	Chromium			
	Cadmium			



	Copper			
	Iron			
	Nickel			
	Mercury			
	Arsenic			
	Molybdenum			
	Zinc			
	Magnesium			
	Manganese			
	Nickel			
16	Hydride generation system for Hg and As, with all required accessories			
17	Recirculating chiller for coolant water circulation in graphite furnace mode			
18	Windows - based software with complete system control, facilities for method and data storage, calculations, reporting with custom report designer, and data processing.			
<b>Gas Supply System</b>				
1	A gas purification system, with filters capable of supplying all gases of required purity to the AAS system, should be quoted.			
2	One spare each of all installed filters in the purification system should be quoted.			
3	Two cylinder each of all required gases for operation of the system, including high purity Acetylene, Argon and Nitrous Oxide, to be quoted from local sources for supply at the installation site			
4	Regulators (Two each) for each required gas as above to be quoted.			
5	Air compressor for flame mode should be noiseless and portable.			
<b>Computer and Printer</b>				
1	Latest model computer with DVD writer and laser printer compatible with software to be quoted.			
<b>Accessories</b>				
1	A system for exhaust for the AAS with hood for flame mode, inclusive of installation charges, to be quoted.			
<b>UPS</b>				
1	A suitable UPS System of appropriate capacity (minimum 15 KVA) with tubular batteries, capable of providing a backup time of minimum 4 hours, and capable of withstanding the initial surge current during starting up of the graphite furnace, should be quoted.			
<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 <b>15 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 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**  
**Atomic Absorption Spectrometer**

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 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

## UV-VIS Spectrophotometer

### Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/**KANDLA**/Instruments/14 dated 2-Jan-15

#### 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 Plot No.22A, Sector -8, Near Income Tax Office Building Gandhidham, Kutch Gujarat, PIN:- 370 201
---

*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

### UV-VIS Spectrophotometer

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

	Required Specification	Complying (Yes/No)	Remarks	Documentary Evidence Enclosed?
<b>UV-Vis Spectrophotometer</b>				
1	Double beam spectrometer with concave holographic grating with 1050 lines / mm or more. Half-silvered mirror beam splitter.			
2	Pre-aligned D2 and W halogen lamps with automatic source change			
3	Silicon Photodiode detector			
4	Wavelength range 190- 1100nm			
5	Spectral band pass 2nm			
6	Stray light 0.05% or less			
7	Wavelength accuracy +/- 0.4nm			
8	Wavelength setting reproducibility +/- 0.2nm			
9	Photometric modes- Absorbance, Concentration, %Transmittance, Single Beam			
10	Baseline flatness with slit width 1nm must be +/- 0.001A			
11	Photometric repeatability +/- 0.001A at 1A			
12	Stability - must be minimum 0.00015 A/h (at 500nm, 2 s response) or better			
<b>Software</b>				
1	Windows based software capable of instrument control, spectral data recording, processing and reporting.			
2	Operating modes scan, fixed wavelength measurement, wavelength program calibration, concentration measurements, etc.			
<b>Computer and Printer</b>				
1	Latest model computer with DVD writer and laser printer compatible with software to be quoted.			
<b>Accessories</b>				
2	Quartz cuvette 10mm path length - 3 pairs. The item is to be supplied along with the instrument.			
<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 <b>15 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 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**  
**UV -VIS Spectrophotometer**

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 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

## UPLC System

### Technical Specifications

(To be submitted by the Bidder)

**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 Plot No.22A, Sector -8, Near Income Tax Office Building Gandhidham, Kutch Gujarat, PIN:- 370 201
---

*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

### UPLC 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>Pump</b>			
1	Number of solvents: Up to four			
2	Composition accuracy: +/- 0.5% , composition precision at least 0.15% RSD			
3	Suitable for nano, micro and semi-micro separations			
4	Flowrate setting: 0.001ml/min to 10.00ml/min			
5	Resolution : 3 nanoliter per step			
6	Flowrate accuracy: 1% minimum			
7	Flowrate precision Maximum 0.075% RSD			
8	Gradient curve selections			
9	Operation pressure 15,000 PSI			
10	Pulsation 0.1 MPa			
11	Safety functions like leak sensor, High pressure and low pressure limits			
	<b>Autosampler</b>			
1	Automated operation and controllable through Software			
2	Total volume sample injection, variable injection volume			
3	Injection volume setting range 0.1ul to 100ul			
4	Vials capacity at least 1.5ml			
5	Number of vials - at least 100			
6	Injection volume accuracy - 0.1% error maximum			
7	Injection volume precision - 0.3% RSD maximum, for 10ul injection			
8	cross-contamination limit - 0.003% maximum			
9	Number of repeat injections - 30 / sample			
10	Operating pH range 1 - 14			
11	Rinsing needle - settable through software, before and after injection			
12	Operating temperatuer range 4 - 35 C			
	<b>Degasser</b>			
1	Online membrane type degasser			
2	Minimum 4 lines - 4 mobile phases, inbuilt facility for autosampler rinsing			

3	degassed flowline capacity 380ul			
	Column Oven			
1	Temperature control from 4 - 85C			
2	Temperature control precision 0.1C max			
3	Controllable through MS/MS software			
4	Storage capacity - minimum 3 columns			
5	Safety functions like leak sensor, high temperature cut-off			
	<b>Columns</b>			
1	The following high resolution, end capped columns to be quoted:			
	UPLC Columns:			
	C-18 5cm x 2.1mm x 1.7um - 5 Nos.			
	C-8 5cm x 2.1mm x 1.7um - 5 Nos.			
	UPLC Guard Column c18 - 15 Nos			
	UPLC Guard columns c8 - 15 Nos.			
	Normal HPLC Columns:			
	C-18 5cm x 4.6mm x 5um - 2 Nos.			
	C-18 10cm x 4.6mm x 5um - 2 Nos.			
	C-18 25cm x 4.6mm x 5um - 1 Nos.			
	C-8 10cm x 4.6mm x 5um - 2 Nos.			
	C-8 25cm x 4.6mm x 5um - 1 Nos.			
	C-18 Guard Columns - 15 Nos			
	C-8 Guard Columns - 10 Nos.			
	<b>Diode Array Detector</b>			
1	Light source - D2 and/or W lamps			
2	Number of Diode elements - 1024			
3	Wavelength range 190nm - 800nm			
4	Bandwidth 1.2nm			
5	Slit width 8 nm			
6	l precision : 1 nm			
7	l accuracy : 0.1 nm			
8	Should support Contour plot, Peak Purity, Spectrum Library features			
	<b>Fluorescence Detector</b>			
1	Light source: Xenon lamp			
2	Wavelength range - 200nm 650nm			
3	Dual wavelength simultaneous monitoring			
4	Spectral bandwidth 20nm			
5	Wavelength accuracy +/- 0.2nm			
	<b>Software</b>			

1	The software should be capable of controlling all parts of the HPLC system.			
2	Multi-system capable. Licences required for adding additional systems/modules should be installed.			
3	Capable of acquiring data from a minimum of 4 channels from the LC System.			
4	Easy data processing, system suitability tests			
5	Full-fledged reporting facility with customized report designers should be available.			
6	Method development features in software will be desirable			
<b>Computer and Printer</b>				
1	Latest model computer with DVD writer and laser printer compatible with software to be quoted.			
	Accessories			
1	All required standards of calibration standards for the HPLC detectors, and any other material required to make the instrument functional should be provided			
2	Pack of 100 vials, complete with septa and cap, should be included			
3	One each of spare Xenon and D2 lamps should be provided			
4	Spare Solvent filters (0.25 micron), 10 Nos, and Spare Autosampler Syringe, 1 No, of the same type supplied with the system.			
<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 <b>15 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 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**  
**UPLC 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 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

## HPLC System

### Technical Specifications

(To be submitted by the Bidder)

**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  
 Plot No.22A, Sector -8,  
 Near Income Tax Office Building  
 Gandhidham, Kutch  
 Gujarat, PIN:- 370 201

*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

### HPLC 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>Pump</b>			
1	Number of solvents: Up to four			
2	Composition accuracy: +/- 0.5% , composition precision at least 0.15% RSD			
3	Suitable for nano, micro and semi-micro separations			
4	Flowrate setting: 0.001ml/min to 10.00ml/min			
5	Resolution : 3 nanoliter per step			
6	Flowrate accuracy: 1% minimum			
7	Flowrate precision Maximum 0.075% RSD			
8	Gradient curve selections			
9	Maximum operation pressure at least 6000 PSI			
10	Pulsation 0.1 MPa			
11	Safety functions like leak sensor, High pressure and low pressure limits			
	<b>Autosampler</b>			
1	Automated operation and controllable through Software			
2	Total volume sample injection, variable injection volume			
3	Injection volume setting range 0.1ul to 100ul			
4	Vials capacity at least 1.5ml			
5	Number of vials - 200			
6	Injection volume accuracy - 0.1% error maximum			
7	Injection volume precision - 0.3% RSD maximum, for 10ul injection			
8	cross-contamination limit - 0.003% maximum			
9	Number of repeat injections - 30 / sample			
10	Operating pH range 1 - 14			
11	Rinsing needle - settable through software, before and after injection			
12	Operating temperatuer range 4 - 35 C			
	<b>Degasser</b>			
1	Online membrane type degasser			

2	Minimum 4 lines - 4 mobile phases, inbuilt facility for autosampler rinsing			
3	degassed flowline capacity 380ul			
	Column Oven			
1	Temperature control from 4 - 85C			
2	Temperature control precision 0.1C max			
3	Controllable through MS/MS software			
4	Storage capacity - minimum 3 columns			
5	Safety functions like leak sensor, high temperature cut-off			
	<b>Columns</b>			
1	The following high resolution, end capped columns to be quoted:			
	HPLC Columns:			
	C-18 5cm x 2.1mm x 1.7um - 5 Nos.			
	C-8 5cm x 2.1mm x 1.7um - 5 Nos.			
	HPLC Guard Column c18 - 15 Nos			
	HPLC Guard columns c8 - 15 Nos.			
	Normal HPLC Columns:			
	C-18 5cm x 4.6mm x 5um - 2 Nos.			
	C-18 10cm x 4.6mm x 5um - 2 Nos.			
	C-18 25cm x 4.6mm x 5um - 1 Nos.			
	C-8 10cm x 4.6mm x 5um - 2 Nos.			
	C-8 25cm x 4.6mm x 5um - 1 Nos.			
	C-18 Guard Columns - 15 Nos			
	C-8 Guard Columns - 10 Nos.			
	<b>Diode Array Detector</b>			
1	Light source - D2 and/or W lamps			
2	Number of Diode elements - 1024			
3	Wavelength range 190nm - 800nm			
4	Bandwidth 1.2nm			
5	Slit width 8 nm			
6	l precision : 1 nm			
7	l accuracy : 0.1 nm			
8	Should support Contour plot, Peak Purity, Spectrum Library features			
	<b>Fluorescence Detector</b>			
1	Light source: Xenon lamp			
2	Wavelength range - 200nm 650nm			
3	Dual wavelength simultaneous monitoring			
4	Spectral bandwidth 20nm			
5	Wavelength accuracy +/- 0.2nm			



<b>Software</b>				
1	The software should be capable of controlling all parts of the HPLC system.			
2	Multi-system capable. Licences required for adding additional systems/modules should be installed.			
3	Capable of acquiring data from a minimum of 4 channels from the LC System.			
4	Easy data processing, system suitability tests			
5	Full-fledged reporting facility with customized report designers should be available.			
6	Method development features in software will be desirable			
<b>Computer and Printer</b>				
1	Latest model computer with DVD writer and laser printer compatible with software to be quoted.			
	Accessories			
1	All required standards of calibration standards for the HPLC detectors, and any other material required to make the instrument functional should be provided			
2	Pack of 100 vials, complete with septa and cap, should be included			
3	One each of spare Xenon and D2 lamps should be provided			
4	Spare Solvent filters (0.25 micron), 10 Nos, and Spare Autosampler Syringe, 1 No, of the same type supplied with the system.			
<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 <b>15 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 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**  
**HPLC 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 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

5  
**Centrifuge**

**Technical Specifications**

(To be submitted by the Bidder)

**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 Plot No.22A, Sector -8, Near Income Tax Office Building Gandhidham, Kutch Gujarat, PIN:- 370 201
---

*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

### Centrifuge

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

	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	Digital displays for speed (rpm / rcf), acceleration and braking rates			
4	Easy setting of parameters / programs through a push button interface			
5	Maintenance free brushless induction motor			
<b>Technical Requirements</b>				
6	Swingout and angle modes of operation			
7	Maximum speed 14000 rpm			
8	Speed set steps of 10rpm maximum			
9	Speed control accuracy +/- 20 rpm			
10	Timer 1-99 minutes, with holding time setting			
11	Timer set step 1 min			
12	Programmable methods, saving of minimum 5 methods			
13	Temperature range -9° to 40° C			
14	Temperature set step 1° C			
15	Temperature ramping at least 4°C at max speed			
16	Acceleration / Braking rates : 5 / 5			
Safety Systems				
17	Stainless steel chamber			
18	Electronic imbalance detection			
19	Locking of lid while in operation			
20	Motor over temperature protection			
21	Rotor overspeed protection			
22	Diagnostic system for possible errors, and display of errors			
<b>Accessories</b>				

23	Rotor arms for low and high speed centrifugation as required by the system should be quoted			
24	The rotor accessories for loading tubes of the following volumes should be quoted in required numbers			
25	100ml tubes			
26	50ml tubes			
27	15ml tubes			
28	5ml tubes			
29	Required number of tubes for each volume above should be quoted in required numbers.			
<b>Additional Terms and Conditions</b>				
30	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.			
31	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.			

***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**  
**Centrifuge**

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 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



## Concentration Workstation

### Technical Specifications

(To be submitted by the Bidder)

#### 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 Plot No.22A, Sector -8, Near Income Tax Office Building Gandhidham, Kutch Gujarat, PIN:- 370 201
---

*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, methylene 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 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

## Microwave Digester

### Technical Specifications

(To be submitted by the Bidder)

**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  
 Plot No.22A, Sector -8,  
 Near Income Tax Office Building  
 Gandhidham, Kutch  
 Gujarat, PIN:- 370 201

*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 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

## Water Purification System

### Technical Specifications

(To be submitted by the Bidder)

#### 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 Plot No.22A, Sector -8, Near Income Tax Office Building Gandhidham, Kutch Gujarat, PIN:- 370 201
---

*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 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

## Recirculating Chiller

### Technical Specifications

(To be submitted by the Bidder)

#### 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 Plot No.22A, Sector -8, Near Income Tax Office Building Gandhidham, Kutch Gujarat, PIN:- 370 201
---

*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.			
<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.			



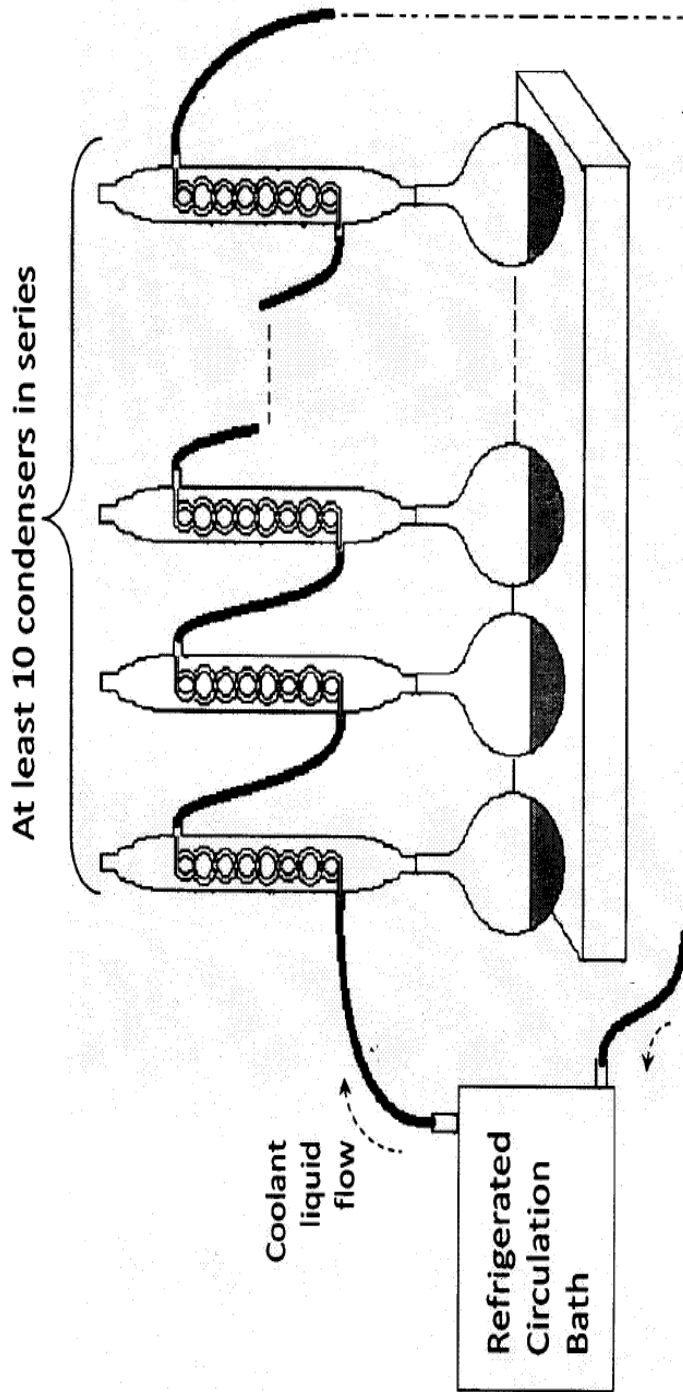
2	A minimum of 5 users of the quoted model in India should be available. The list of these users, with full details of contact persons, addresses, telephone, mobile and email should be provided in table form.			
---	--	--	--	--

**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.			

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 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**

## Electronic Balance - 5 Digit Precision

### Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/**KANDLA**/Instruments/14 dated 2-Jan-15

#### 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 Plot No.22A, Sector -8, Near Income Tax Office Building Gandhidham, Kutch Gujarat, PIN:- 370 201
---

*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.			

**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**  
**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 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**



## Electronic Balance - 3 Digit Precision

### Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/**KANDLA**/Instruments/14 dated 2-Jan-15

#### 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 Plot No.22A, Sector -8, Near Income Tax Office Building Gandhidham, Kutch Gujarat, PIN:- 370 201
---

*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 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**

## Rotary Evaporator

### Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/**KANDLA**/Instruments/14 dated 2-Jan-15

**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 Plot No.22A, Sector -8, Near Income Tax Office Building Gandhidham, Kutch Gujarat, PIN:- 370 201
---

*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 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**

## Muffle Furnace

### Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/**KANDLA**/Instruments/14 dated 2-Jan-15

**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 Plot No.22A, Sector -8, Near Income Tax Office Building Gandhidham, Kutch Gujarat, PIN:- 370 201
---

*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.			

*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 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**

## **Part II**

### ***Instruments for Microbiology Laboratory***

# BOD Incubator

## Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/**KANDLA**/Instruments/14 dated 2-Jan-15

### 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 Plot No.22A, Sector -8, Near Income Tax Office Building Gandhidham, Kutch Gujarat, PIN:- 370 201
---

*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

### BOD Incubator (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	Capacity: 324 Liters			
2	Temperature Range: 5°C above ambient to 60°C			
3	Controller: Digital Display Electronic Controller			
4	Control Accuracy: +/- 0.1°C			
5	External Chamber: Mild steel Powder Coated/stainless Steel			
6	Inner Chamber: Stainless Steel			
7	Inner Acrylic Door: Inner full size see through Acrylic 8mm thick			
8	Air Circulation: By motorized Recirculation/Forced Air for temperature homogeneity			
9	Should have illumination lamp to work on 220/230 VAC			
10	Should have inbuilt stabilizer with sufficient capacity			
11	Distribution accuracy/Uniformity throughout the chamber : ± 0.3°C or better			
12	Number of Shelves: Minimum 4 Nos (Detachable)			
<b>Additional Terms and Conditions</b>				
13	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.			
14	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 (as applicable).			
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**  
**BOD Incubator**

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 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**

## Bacteriological Incubator

### Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/**KANDLA**/Instruments/14 dated 2-Jan-15

**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 Plot No.22A, Sector -8, Near Income Tax Office Building Gandhidham, Kutch Gujarat, PIN:- 370 201
---

*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

### Bacteriological Incubator (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	Size of the Incubator should be 605 mm W; 605 mm D & 910 mm H with a total volume of 32 Ltrs and suitable for 8 racks.			
2	Double walled inside made of thick stainless steel and outside of Mild Steel duly painted with epoxy powder coating.			
3	The gap of 75mm between two walls should be fitted with pure mineral wool.			
4	Synthetic rubber gasket must be provided on the door for better grip.			
5	Door should have a glass window outside .			
6	Heating elements should be placed in ribs at the bottom and sides.			
7	Two adjustable air ventilators must be placed near the top of the sides.			
8	The temperature must be controlled by an Electronic Micro processed Temperature Controller cum Indicator from few °C above ambient to 70°C with sensitivity of $\pm 0.1$ °C supplied with two pilot lamps.			
9	Should have an air circulating fan to maintain uniform temperature throughout the incubator.			
10	Should have perforated quality stainless steel shelves (minimum 4 Nos.) adjustable at any level.			
11	Should have cord with plug to work on 220/230 volts A.C.			
<b>Additional Terms and Conditions</b>				
13	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.			
14	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**  
**Bacteriological Incubator**

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 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**

## Stomacher

### Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/**KANDLA**/Instruments/14 dated 2-Jan-15

**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  
 Plot No.22A, Sector -8,  
 Near Income Tax Office Building  
 Gandhidham, Kutch  
 Gujarat, PIN:- 370 201

*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

### Stomacher

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

	Required Specification	Complying (Yes/No)	Remarks	Documentary Evidence Enclosed?
1	Dimensions: 330mm wide x 355 mm deep x 300 mm high			
2	Voltage supply: 220-250V			
3	Supply frequency: 50-60 Hz			
4	Plug Top Fuse: F5A			
5	Insulation: Class 1 (Earthed)			
6	Installation: Over voltage Category II			
7	Pollution : Pollution degree II			
8	Duty Cycle: Continuous			
9	Rated Load: 140W			
10	Disposable bag size: 177mm x 304 mm			
11	Minimum capacity : 80 ml			
12	Maximum capacity: 400 ml			
13	Maximum sample temperature: 60°C			
14	Ambient Operating Temperature: 10-35°C			
15	Operating Relative Humidity range: 10-89%			
16	Adjustable timer settings : 0 seconds - 90 minutes			
17	Paddle speeds : 200 rpm; 230 rpm; 260 rpm			
18	Paddle Clearance : 0-10 mm			
	<b>Additional Terms and Conditions</b>			
19	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.			
20	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**  
**Stomacher**

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 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**

## Biosafety Cabinets

### Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/**KANDLA**/Instruments/14 dated 2-Jan-15

**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 Plot No.22A, Sector -8, Near Income Tax Office Building Gandhidham, Kutch Gujarat, PIN:- 370 201
---

*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**

**Biosafety Cabinets (CLASS II - Type B2)  
(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	<u>Cleanliness Level</u> : CLASS 100 (ISO 5 for particle sizes 0.5 μ < 3530 particles/M <sup>3</sup> of air at both at Rest & Operation Condition as per ISO 14644 –1(ISO 5 replaces Class 100 US-FS 209 E) Conforming to NSF/ANSI 49,USA & En12469 standards.			
2	<u>Size</u> : Ft (w x d x h) 3 x 2 x 2			
3	<u>Air Balancing</u> : 100% Exhaust & 0% Re-Circulation			
4	<u>Particle retention</u> : 0.3 micron particles with typical efficiency of >99.997%			
5	<u>Velocity</u> : 90 fpm at initial set point			
6	<u>Noise level</u> : 65 decibel on “A” scale ± 5 as per NSF 49			
7	Pressure Differential: 0-25 mm Magnehelic Gauge			
8	<u>Ultra violet lamp</u> : 3 feet, 30Watt - Original - Philips, Holland make - 1 No.			
9	<u>Illlumination</u> : 4 feet, 40 Watt, Fluorescent tube – 2 Nos (or) suitable CFL Lamps			
10	<u>Power supply</u> : 230 V, Single Phase, 50 Hz			
11	<u>Material of Construction</u> : Cabinet made from Galvanized Iron 18 SWG sheet metal with polyurethane paint coated finish and bottom will be supported with MS with PU coated modular stand which can be adjustable for height with leveling legs.			
12	<u>Working Table</u> : Removable type tabletop, made of perforated IS 304 Stainless Steel - satin finished, underneath provided with drain-pan to collect & dispose off liquid wastes			
13	<u>Working Area</u> : The entire working zone is lined with IS 304 grade stainless steel materials with joint free coving on corners for easy cleaning			
14	<u>Front door</u> : Made of clear 5 mm thick Acrylic / Polycarbonate sheet – vertical sliding, while opening the door UV Lamp will be cut “OFF” and while closing the door UV Lamp will be “ON” automatically.			

15	<u>Side Panels</u> : Both the sidewalls are made from double layered outer GI & inner stainless steel with return-air plenum in between. Edges are perforated to avoid entry of room air into the work zone and exit of contaminated air in to the room and such contaminated air is sucked through this full height perforation at the edges of the sidewalls.			
16	<b>HEPA Filter</b>			
17	Media Ultra clean glass fiber paper – imported			
18	Supply Air & Exhaust Type Mini-Pleated constructions			
19	Retention 0.3 micron			
20	Efficiency 99.997% to 0.3 microns as per IEST-RP-CC001.3 USA			
21	Pressure drop 12 mm WG			
22	Grade H14 rating			
23	<b>PRE Filter</b>			
24	Media Non woven - synthetic polyester			
25	Retention 10 - 15 micron			
26	Efficiency 90%			
27	Pressure drop 6mm WG			
28	Grade F7 rating			
29	Supply Air Blower: Which consists of dynamically & statically balanced aluminum centrifugal impeller driven by an Single phase, 1440-RPM motor, enclosed in a PU coated GI casing, suitably suspended in a pair of springs & connected to the filter chamber through flexible canvas duct inside the cabinet.			
30	Exhaust Blower: Suitable displacing capacity having a static of 60 mm WG and made of mild steel and directly driven by a single phase, 1440-RPM motor. The exhaust motor & blower unit will be connected to the cabinet through an exhaust duct made of rigid PVC pipe.			
31	Exhaust Duct: The exhaust air will be sending out through an exhaust duct made of 125 mm dia rigid PVC pipe. Suitable canopy will be provided at the end of the duct.			
32	ON/OFF Controls: “ON/OFF” soft touch switch controller for the blower, UV lamp, Day light lamp.			
33	UV / Door integration: Apart from an independent control switch, the closing / opening operation of front door is integrated with the UV on / off. The UV will automatically switch “off” when the front doors opened; likewise, the UV will switch “on” automatically when the door is closed. This will avoid accidental exposure of UV rays to the users’ as UV rays are harmful to the skin.			

34	<p>Note: The following test should be carried out at the time of installation and the corresponding calibration certificate should be provided.</p> <ol style="list-style-type: none"> <li>1. Laser Particle Count test to confirm the cleanliness level</li> <li>2. Velocity Measurement Test to adjust required velocity</li> <li>3. Differential pressure measurement to confirm the HEPA filter condition</li> </ol>			
35	<p>The following certificate should be provided with each unit:</p> <ol style="list-style-type: none"> <li>1. Design Qualification (DQ)</li> <li>2. Installation Qualification (IQ)</li> <li>3. Operational Qualification (OQ)</li> <li>4. Performance Qualification (PQ)</li> <li>5. Test Certificate for Mini-Pleat HEPA Filters</li> <li>6. Calibration Certificate for Pressure Gauge</li> <li>7. Calibration Certificate for Air Velocity Anemometer, Laser Particle Counter Test Certificate &amp; Report</li> <li>8. Warranty Certificate</li> </ol>			
<b>Additional Terms and Conditions</b>				
48	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.			
49	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.			
---	---	--	--	--

***Please sign the declaratio 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**  
**Biosafety Cabinets**  
**(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 : \_\_\_\_\_

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**



## Water Bath Serological

### Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/**KANDLA**/Instruments/14 dated 2-Jan-15

**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 Plot No.22A, Sector -8, Near Income Tax Office Building Gandhidham, Kutch Gujarat, PIN:- 370 201
---

*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 Bath Serological (3 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	Size of the bath should be 605 mm L; 300 mm W & 15mm D with a total volume of 32 Ltrs and suitable for 8 racks.			
2	Double walled inside, made of Stainless Steel and outside of Mild Steel Sheet duly painted with epoxy powder coating.			
3	Should have 25 mm mineral wool insulation on five sides .			
4	Heating element made of Copper Nickel plated tabular type and approximately extend to full length of the water bath.			
5	Temperature range above room temperature to 100° C with an accuracy of ±0.1°C.			
6	Temperature control by Electronic Digital Temperature Controller-cum-Indicator			
7	Control panel should consist of two neon pilot lights which indicates control cycles as well as the main heater switch and temperature control knob.			
8	The water bath should have perforated and removable diffuser shelves.			
9	Should have Stainless Steel cover, brass drain plug, cord with plug to work on 220/230 volts A.C.			
10	Must be provided with Stirrer of 1/20 H.P. Supported by High Speed motor with stainless steel stirring rod and blade provided with speed regulator.			
11	Lid of water bath should be made of Stainless steel of 304 quality.			
<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 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	Full warranty details for the instrument, with the list of items covered under the warranty, should be provided.			

*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 Bath Serological**  
**(3 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 : \_\_\_\_\_

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**

## Hot Air Oven

### Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/**KANDLA**/Instruments/14 dated 2-Jan-15

**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 Plot No.22A, Sector -8, Near Income Tax Office Building Gandhidham, Kutch Gujarat, PIN:- 370 201
---

*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

### 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 : \_\_\_\_\_

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**

## Colony Counter

### Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/**KANDLA**/Instruments/14 dated 2-Jan-15

**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 Plot No.22A, Sector -8, Near Income Tax Office Building Gandhidham, Kutch Gujarat, PIN:- 370 201
---

*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

### Colony Counter

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

	Required Specification	Complying (Yes/No)	Remarks	Documentary Evidence Enclosed?
1	Bench colony counter for the rapid and accurate counting of bacterial colonies with adjustable magnifier (120 mm), pressure operated hand held marking pen assembly for marking and non-marking counting.			
2	Counting modes: - Manual push button or pen probe click action count( Marking pen probe counting)			
3	Accepts petridishes up to 120mm diameter, with a centering adaptor for standard 90mm dishes			
4	Digital LED display up to 9999 with audible count and last count recall			
5	Illumination by fluorescent lamp 22W			
6	Zero reset button			
7	Dimensions 34 x 27 x 14cm			
8	Power supply at 240v 50 Hz			
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.			
11	The full warranty information with details of parts 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**  
**Colony Counter**

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 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**

## Binocular Microscope

### Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/**KANDLA**/Instruments/14 dated 2-Jan-15

**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 Plot No.22A, Sector -8, Near Income Tax Office Building Gandhidham, Kutch Gujarat, PIN:- 370 201
---

*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

### Binocular Microscope

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

	Required Specification	Complying (Yes/No)	Remarks	Documentary Evidence Enclosed?
1	Should have Maintenance-free, sealed brass shaft focus mechanism			
2	Shall have Siedentopf-design binocular head			
3	Should have Coaxial focus mechanism for intuitive control			
4	Shall be fitted with LED illumination, white light suitable for lower energy consumption with variable intensity control			
5	Should have good optical performance as a result of the illumination, objective, viewing tube, and eyepiece optimization system			
6	Shall have Spring-loaded, high-magnification objectives to prevent broken specimen slides			
7	E1 Achromat 4x, 10x, 40x, and 100x oil immersion objectives with 4-position nose-piece			
8	Size, 17" H x 12" W x 16" D			
9	A Nylon Dust Cover			
10	Should have the compatibility to attach to a digital camera to take photographs			
<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.			

### 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**  
**Binocular Microscope**

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 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**

## Autoclaves

### Technical Specifications

(To be submitted by the Bidder)

Quotation Reference: SB/QEL/PUR/**KANDLA**/Instruments/14 dated 2-Jan-15

**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 Plot No.22A, Sector -8, Near Income Tax Office Building Gandhidham, Kutch Gujarat, PIN:- 370 201
---

*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

### Autoclaves (3 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	Should be electrically operated, standard vertical pattern made of stainless steel.			
2	Boiler should be constructed of heavy stainless steel, outer is of heavy gauge mild steel painted in grey hammertone supplied with pedal lifting arrangement.			
3	Size: Inner Diameter x Height (550 X 750 MM); Volume in Ltrs: 187			
4	Rating: 6.0 KW			
5	Automatic with Digital Microprocessor based Temperature controller cum indicator to set the desired temperature and time needed for sterilization.			
6	Microprocessor based water level cut off and pressure cut off switch.			
7	Pressure Accuracy: 0.3 PSI			
8	Temperature Accuracy: $\pm 0.5^{\circ}\text{C}$			
9	Lid should be made of heavy stainless steel with steam tight joint containing stainless steel rings, pressure gauge, steam release cock and safety valve.			
10	The operating pressure should be 15 lb pressure/Sq. Inch.			
11	Should be electrically heated by means of superior quality immersion heater.			
12	Should provide suitable size perforated stainless steel work basket.			
13	The instrument should be supplied with plug and cord, ready for use on 220/230 V.			
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.			

### 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**  
**Autoclaves**  
**(3 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 : \_\_\_\_\_

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**

10  
**pH Meter**

**Technical Specifications**

(To be submitted by the Bidder)

**Quotation Reference: SB/QEL/PUR/KANDLA/Instruments/14 dated 2-Jan-15**

**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  
Plot No.22A, Sector -8,  
Near Income Tax Office Building  
Gandhidham, Kutch  
Gujarat, PIN:- 370 201

*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			
	<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.			

### 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, if applicable.			
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**  
**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 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**