

Tender Notice

Quotation Reference: SB/QEL/PUR/RAI BARELI/Instruments/2016

16-1-2016

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:**

Instruments for Mint Testing Laboratory, Rae Bareli:

1. Digital Polarimeter	6
2. Automatic Pensky – Martens Flash Point Apparatus	11
3. Automatic Refractometer	16
4. Digital relative density meter	20
5. Electronic Balance- 3 digit precision	25
6. Gas Chromatograph	30
7. Gas Chromatograph-Mass Spectrometer	36

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

Preparation of Bids : The tenders should be submitted under the two bid system, viz., **Technical bid** and **Financial bid**.

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.

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.

Rejection of Tenders: The Spices Board reserves the right to reject any or all of the tenders received without assigning any reason.

Terms of Delivery: The quoted instrument(s) and all accessories and supporting instruments should be supplied, and the installation/commissioning of the same should be completed as specified in the Terms and Conditions mentioned below. Signed copy of the Terms and Conditions should be submitted along with the Tender.

Secretary
Spices Board, Kochi-25

HINDI VERSION WILL FOLLOW

(b) Terms and Conditions of the Tender

Tender should be submitted in the prescribed tender format given in Annexure I (Sections I, II & III for each equipment being quoted for). The tenders submitted should strictly follow the instructions specified below, failing any of which the tenders would be deemed incomplete and liable for rejection.

The last date for the submission of the tender will be at **5:00 pm on 16^h February 2016** at the following Address:

Scientist D & Head
Spices Board
Sugandha Bhavan, Palarivattom PO,
Ernakulam, Kerala-682025
Email: sbqel_purchase@indianspices.com

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.

The Technical Bids:

While submitting the technical bid 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 Technical bid should contain the following documents:
3. Details of the tender, filled in the **Section I** given in the specifications of each instrument.
4. Compliance with technical specifications, filled in the **Section II** given in the specifications of each instrument.
5. 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.**
6. **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.
7. Technical bids received **without filling in Section I and Section II, or without the signed declaration of the bidder**, will be rejected.

8. 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.
9. Any technical literature, brochures, specification sheets etc relevant to the quoted model must be included.
10. The Technical Bid of each instrument should be submitted separately in a sealed cover superscribed “**Technical Bid – (Name of the Instrument), Mint Testing Laboratory, Rae Bareli, 2015-16**” and addressed to the Scientist D and Head (See 1 above).

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 price of the item quoted shall be given.
2. The rates should be indicated clearly both in figures 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 without any scoring off/corrections/or over-writings. 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 received without filling Section III, or without the signed declaration of the bidder, will be rejected.***
5. The Financial Bid should be in a separate sealed cover superscribed “**Financial Bid (Name of the Instrument), Mint Testing Laboratory, Rae Bareili, 2015-16**” and addressed to the Scientist D (See **b** above).
6. Both the sealed covers viz., Technical and Financial Bids should be put into a bigger cover, along with a third cover containing the EMD (See relevant section below) and sealed. This cover should be super scribed “**Technical and Financial Bids for (Name of the Instrument) Mint Testing Laboratory, Rae Bareli, 2015-16**” and addressed to the Scientist D & Head. (See 1 above).
7. The tenders will be opened at the Quality Evaluation Laboratory Spices Board, Kochi at **10 AM on 17 February 2016** . 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.

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.

Agreement Purchase Order forfeiture of EMD: EMD will be forfeited if the tenderer:

- withdraws his tender or backs out after acceptance
- fails to remit the performance security
- violates any of the conditions prescribed in the tender notice
- revises any of the terms quoted, during the validity period

Performance Security: If mentioned in Section III of the tender format of each instrument (Annexure I), 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.

Customs Clearance of instruments: The customs clearance charges if any for imported instruments has to be borne by the bidder and only the supporting documents to clear the items, and customs duty 'at actuals', shall be provided by Spices Board. The bidder has to arrange the clearance, delivery and installation of the equipment at the Board's Laboratory.

If an Indian Agent is involved, the following documents must be enclosed:

- Foreign principal's proforma invoice indicating the Commission payable to the Indian Agent and the nature of after sales service to be rendered by the Indian Agent.
- Copy of the agency agreement with the foreign principal and the precise relationship between them and their mutual interest in the business.
- The enlistment of the Indian agent with Director General of Supplies & Disposals under the Compulsory Registration Scheme of Ministry of Finance.

The offer/bids should be sent only for a machine that is available in the market and supplied to a number of customers. Tenders for a prototype machine will not be accepted.

Original catalogue (not any photocopy) of the quoted model duly signed by the principals must accompany the tender.

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 bidders laboratory in case the need arises.

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.

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.

Payment Terms: In case of imported equipments, the payment terms should be clearly mentioned in the tender. For instruments or accessories sourced in India, the payment will be made only after satisfactory installation of the instrument at the site.

Warranty/Guarantee: The instrument should be supplied with comprehensive warranty, which covers all spare and accessories required for the instrument. **The period of warranty required will be mentioned along with the technical specifications (Section II) of each instrument.** The offer should clearly specify the warranty period as per this requirement, including all the spares/accessories required for the smooth and continuous functioning of the equipment . If there is any item that is not covered under warranty then it should be explicitly mentioned. In case of consumables that are required an integral part of the system, a list of such items, with average life time and cost of replacement, should be provided.

User's List: A list of users for the quoted model in India with **name and designation of contact person, full address, email and phone number** should be furnished with the tenders . The minimum number of users, as mentioned in the requirements in Section II of each instrument, should be met by the quoted model.

Late offer: The offers received after the due date and time will not be considered.

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.

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.

The tenderer must sign and affix seal on every page of the tender document and furnish a certificate of acknowledgment as shown below:

(c) Acknowledgment by the Tenderer

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

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

DATE

ANNEXURE I

TENDER FORMATS

The formats for Technical and Financial Bids for each of the instruments in the tender are given in this annexure. Tenders not submitted in this format will be liable for rejection.

Digital Polarimeter

Technical Specifications

(To be submitted by the Bidder)

SB/QEL/PUR/RAI BARELI/Instruments/2016

16-1-2016

Location of Supply and Installation:

The Instrument(s) will be required to be delivered at the following location. The installation location will be intimated subsequently.

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

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

Section I: Details of the Quotation

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

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

Digital Polarimeter

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

	Required Specification	Complying (Yes/No)	Remarks	Documentary Evidence Enclosed?
Instrument Name- Digital Polarimeter				
1.	Measuring scales- °Optical Rotation, °Specific Rotation, % Concentration			
2.	Optical Rotation Specifications			
	a. Measuring Range: $\pm 89.9^\circ$			
	b. Resolution: 0.001°			
	c. Accuracy: $\pm 0.01^\circ$ for the entire measuring range			
	d. Repeatability: $\pm 0.01^\circ$			
3.	Wavelength- 589 nm. (Sodium Vapour lamp with mono chromatic light of 589 nanometer wave length).			
4.	Optical cell- Stainless steel cell with automatic detection feature.			
5.	Path Length- 100 mm with 2 ml volume.			
6.	Temperature Control- 20°C & 25°C automatically through Peltier for faster temperature control.			
7.	Temperature sensor- with temperature accuracy of $\pm 0.2^\circ\text{C}$ & temp resolution of 0.1°C .			
8.	Instrument Control- TFT touchscreen display.			
9.	Interfaces/PC- 3 USB ports, RS 232 port, CAN BUS port, Ethernet port, One no. latest compatible PC & Printer.			
10.	Up gradable- The polarimeter should be up gradable on the field for other wavelength filters with appropriate light source.			

11.	Manuals- The user manual should be provided along with the instrument in the form of hard copy as well as electronic copy.			
12.	Training- The supplier of the instrument will provide hands on operational as well as application training at the time of installation and support for the method standardization as and when required. Supplier should mention their training facilities in India.			
13.	After sales support- The supplier should provide prompt after sales support in terms of Instrument service as well as application support. Availability of accessories should be ensured for a period of at least 05 years from the date of purchase.			
Additional Terms and Conditions				
1	A complete compliance statement (this sheet filled in), stating the status of compliance with each point in the technical specification, should necessarily accompany the quotation.			
2	A minimum of 5 users of the quoted model in India should be available. The list of these users, with full details of contact persons, addresses, telephone, mobile and email should be provided in table form.			

Comprehensive Warranty

1	The warranty period should be 5 Years. All breakdown of the instrument should be addressed within 24 hours by an onsite visit.			
2	All parts of the instrument, accessories and supporting instruments should be covered under the warranty. If any accessory / spare part 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.			
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Declaration by the Bidder

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

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

DATE

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

Section III: Financial Bid

Digital Polarimeter

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

Performance bank guarantee is not required for this item.

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

Automatic Pensky – Martens Flash Point Apparatus

Technical Specifications

(To be submitted by the Bidder)

SB/QEL/PUR/RAI BARELI/Instruments/2016

16-1-2016

The Instrument(s) will be required to be delivered at the following location. The installation location will be intimated subsequently.

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

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

Section I: Details of the Quotation

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

the quotation	
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Section II: Compliance with Technical Specifications

Automatic Pensky – Martens Flash Point Apparatus

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

	Required Specification	Complying (Yes/No)	Remarks	Documentary Evidence Enclosed?
Instrument Name- Automatic Pensky – Martens Flash Point Apparatus				
1.	The apparatus should conform to test method ASTM D93 (A+B+C), EN 22719, DIN 51758, NF M07-019, IP 34 (A+B), ISO 2719 (A+B)			
2.	It should have Automatic microprocessor controlled operation.			
3.	Multi-Function-Head for easy one-hand simultaneous connection of all sensors and actuators such as shutter-actuator, stirrer, igniter and detector contacts.			
4.	Temperature range of ambient to + 405 °C			
5.	Apparatus should have program methods of ASTM, ISO and also should have facility of several rapid heating programs, user defined and search programs.			
6.	Apparatus should have adjustable stirring speeds from 60 to 250 rpm.			
7.	Apparatus should have adjustable heating rate from 1 to 10 °C per minute			
8.	Apparatus should have a differential-thermocouple method of sensing system			
9.	In-built memory for test results, operator & sample names			
10.	It should have Automatic Barometric pressure correction,			

	with built-in pressure sensor.			
11.	Large LCD display.			
12.	The Same device should be able to use with both electrical and gas ignition			
13.	Apparatus should have Integrated Automatic Fire Extinguishing System			
14.	Device should have Heating control with rapid heating stage and equipped with safety over-temperature shut-off.			
15.	Facility for Dynamic Calibration - Temperature probe can be calibrated inside the unit with a certified thermometer			
16.	The device should have power controlled/monitored for electric or gas igniter with Automatic re-ignition of flame.			
17.	Apparatus should have RS232 interface for data printer and computer connection with possibility of providing USB Converter			
18.	Connection to LIMS is a must (direct from unit, or via PC)			
19.	Apparatus can be placed on an bench Space			
20.	Cooling by in-built fan only.			
21.	Vendor to offer a calibration standard or a CRM as option.			
Additional Terms and Conditions				
1	A complete compliance statement (this sheet filled in), stating the status of compliance with each point in the technical specification, should necessarily accompany the quotation.			
2	A minimum of 5 users of the quoted model in India should be available. The list of these users, with full details of contact persons, addresses, telephone, mobile and email should be provided in table form.			

Comprehensive Warranty

1	The warranty period should be 5 Years. All breakdown of the instrument should be addressed within 24 hours by an onsite visit.			
2	All parts of the instrument, accessories and supporting instruments should be covered under the warranty. If any accessory / spare part 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

Automatic Pensky – Martens Flash Point Apparatus

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

Performance bank guarantee is not required for this item.

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

Automatic Refractometer

Technical Specifications

(To be submitted by the Bidder)

SB/QEL/PUR/RAI BARELI/Instruments/2016

16-1-2016

Location of Supply and Installation:

The Instrument(s) will be required to be delivered at the following location. The installation location will be intimated subsequently.

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

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

Section I: Details of the Quotation

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

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

Automatic Refractometer

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

	Required Specification	Complying (Yes/No)	Remarks	Documentary Evidence Enclosed?
Instrument Name- Automatic Refractometer				
1.	The refractometer should be digital, compact in design & with reliable optics.			
2.	RI measurement range: 1.30 to 1.72, 1,300-1,700 nD.			
3.	Brix measurement range: 0 to 100%			
4.	Temperature control: Automatic with built in Peltier Thermo Module			
5.	Temperature control range with Peltier : 10°C to 60°C.			
6.	Resolution (RI): 4 digits			
7.	Accuracy (RI): 4 digits			
8.	Light source: LED lamp with average lifetime of 100,000 h			
9.	Data Interfaces: RS 232 port for printer connection,USB port.			
10.	Recording of data on system's internal memory.			
11.	Automatic temperature correction.			
Additional Terms and Conditions				
1.	A complete compliance statement (this sheet filled in), stating the status of compliance with each point in the technical specification, should necessarily accompany the quotation.			

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

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

Declaration by the Bidder

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

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

DATE

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

Section III: Financial Bid
Automatic Refractometer

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

Performance bank guarantee is not required for this item.

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

Digital relative density meter

Technical Specifications

(To be submitted by the Bidder)

SB/QEL/PUR/RAI BARELI/Instruments/2016

16-1-2016

Location of Supply and Installation:

The Instrument(s) will be required to be delivered at the following location. The installation location will be intimated subsequently.

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

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

Section I: Details of the Quotation

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

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

Digital relative density meter

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

	Required Specification	Complying (Yes/No)	Remarks	Documentary Evidence Enclosed?
Instrument Name- digital relative density meter				
1	Measuring Technique: Oscillating U-tube method with integrated reference oscillator.			
2	Measuring Range: 0 – 3 g/cm ³			
3.	Accuracy: 0.001 g/cm ³ for the full measuring range.			
4.	Temperature Control & Range: Peltier Temperature Control from 15 to 40°C.			
5.	Temperature accuracy: 0.3°C for the full Temperature Range.			
6.	Automatic Bubble Detection: Operator Independent bubble detection system based on highly accurate evaluations of the oscillation patterns using high-precision optical pickups.			
7.	Traceability: Real time view of U-tube filling process with an integrated camera.			
8.	Viscosity Correction: The Instrument should automatically correct viscosity influences to obtain accurate and precise true density results over the entire density measurement range and not in parts of the density range.			
9.	Concentration Measurements: The Density meter should have the facility to input complex Concentration versus density curves and then use the curves to directly evaluate concentration of binary solutions/mixtures			

10.	Ambient Pressure Correction: The Instrument should have a built-in Pressure sensor for automatically determining the ambient air pressure & correct the density measurements influenced by ambient pressure variations.			
11.	Upgradability: Should be upgradable for attaching accessories/modules like Heated sample filling units, Viscosity measurement, pH measurement, Refractive index measurement ,Aerosol adapter, cooling kit or heating attachment & external measuring cell for high pressure/high temperature measurements.			
12.	Connectivity: The density meter should have a LAN interface to connect directly to Internet / Network printer and USB ports to connect Pen Drive/Keyboard/Mouse & should have a VGA port to connect VGA Monitor and printer.			
13.	Administration: The Instrument should send e-mails when calibration due directly to the Admin User reminding periodic calibration schedule.			
14.	Sample filling unit: System should have plug and play auto sample filling Unit, Sample filling unit should be capable of handling viscosity.			
15.	Inbuilt Battery of Minimum 2.00 AH to support mobile use for 2-3hrs.			
Additional Terms and Conditions				
1	A complete compliance statement (this sheet filled in), stating the status of compliance with each point in the technical specification, should necessarily accompany the quotation.			
2	A minimum of 5 users of the quoted model in India should be available. The list of these users, with full details of contact persons, addresses, telephone, mobile and email should be provided in table form.			

Comprehensive Warranty

1	The warranty period should be 1 Year. All breakdown of the instrument should be addressed within 24 hours by an onsite visit.			
2	All parts of the instrument, accessories and supporting instruments should be covered under the warranty. If any			

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

Declaration by the Bidder

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

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

DATE

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

Section III: Financial Bid
Digital relative density 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.

Performance bank guarantee is not required for this item.

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)

SB/QEL/PUR/RAI BARELI/Instruments/2016

16-1-2016

Location of Supply and Installation:

The Instrument(s) will be required to be delivered at the following location. The installation location will be intimated subsequently.

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

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

Section I: Details of the Quotation

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

the quotation	
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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?
Instrument Name- Electronic Balance- 3 digit precision				
1.	Readability of 0.001 g. (0.1 mg).			
2.	Compact design with sturdy chemical resistant body.			
3.	Weighing pan 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.	Standard RS232c interface to connect to external PC.			
20.	Hook for weighing below the balance.			
21.	Glass draft shield with sliding doors, with free access from right, left and above			
Additional Terms and Conditions				
1	A complete compliance statement (this sheet filled in), stating the status of compliance with each point in the technical specification, should necessarily accompany the quotation.			
2	A minimum of 5 users of the quoted model in India should be available. The list of these users, with full details of contact persons, addresses, telephone, mobile and email should be provided in table form.			

Comprehensive Warranty

1	The warranty period should be 5 Years. All breakdown of the instrument should be addressed within 24 hours by an onsite visit.			
2	All parts of the instrument, accessories and supporting instruments should be covered under the warranty. If any accessory / spare part 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.			
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Declaration by the Bidder

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

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

DATE

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

Section III: Financial Bid
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.

Performance bank guarantee is not required for this item.

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

GC-FID

Technical Specifications

(To be submitted by the Bidder)

SB/QEL/PUR/RAI BARELI/Instruments/2016

16-1-2016

Location of Supply and Installation:

The Instrument(s) will be required to be delivered at the following location. The installation location will be intimated subsequently.

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

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

Section I: Details of the Quotation

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

the quotation	
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Section II: Compliance with Technical Specifications

GC-FID

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

	Required Specification	Complying (Yes/No)	Remarks	Documentary Evidence Enclosed?
Instrument Name- GC-FID				
1.	<p><u>GC Control</u></p> <ul style="list-style-type: none"> -Fully PC controlled and provides all needed data, including all temperature and pressure/flow parameters, type of carrier gas, carrier gas column pressure, flow rates, split flow, detector gas flow rates and all detector parameters. -A dedicated function must allow unattended and automated system leak check. -A dedicated function must allow to automatically measure and store column parameters. 			
2.	<p><u>Column oven</u></p> <ul style="list-style-type: none"> - Compatible with standard capillary columns and Packed Columns, should have provision to install minimum two columns. - GC system should be able to accommodate in future with other detectors and injectors also. - The column oven must have an operating range from near ambient to 450 °C. - Temperature resolution: 0.1 °C - Max. Heating Rate: 120°C/minute or better - Cool-down time from 450 °C to 50 °C within 5 minutes 			

	<ul style="list-style-type: none"> - Should support 15/16 Ramps/Holds or better - System should have provision to install minimum two numbers of injectors and two numbers of detectors simultaneously. - Should have column over heat protection. 			
3.	<p><u>Pneumatic compartment</u></p> <ul style="list-style-type: none"> - The digital pressure and flow controller must be able to control and program pressures and flows up to 1000 Kpa. All gas flows should be controlled through software with no manual control - Pressure increment set point: 0.001psi 			
4.	<p><u>Injector – 02 no’s</u></p> <ul style="list-style-type: none"> - Injectors with split/split less compatibility . - The injector must be able to operate with capillary columns in split/split less mode - Temperature range: ≥ 400 °C. 			
5.	<p><u>Detector: FID – 02 no.s</u></p> <ul style="list-style-type: none"> - Detection Limit: < 1.4 pg C/s - Linear Dynamic Range: > 10⁷ - Temperature range: up to 400 °C or better - FID ignition should be through software, flame out detection and auto re-ignition should be possible. - Data collection rate: 500 Hz 			
6.	Auto-Sampler with minimum 100 sample vials positions. It should be capable of injecting in all installed injectors of GC with different methods without removal of AS tower. Compatible vials 1000 Nos.			
7.	<u>Columns:</u> Capillary columns 03 numbers each of Polar, Non-polar and Highly polar columns of dimension 30 meter X 0.25mm X 0.25μ should be quoted.			
8.	-Branded PC with licensed software and Color Laser-jet Printer.			
9.	<ul style="list-style-type: none"> - The software should be LIMS compatible, - Gas cylinders (02 no’s) each for Nitrogen, Hydrogen & Zero Air or any other gas required to fulfill the above application. 			

	-Regulators (03 no's) Gas Purification panel for the gases, tubing with complete fittings in the Lab			
10.	UPS: 10 KVA Online UPS with four hours back up with Exide EL Tubular Batteries.			
Additional Terms and Conditions				
1	A complete compliance statement (this sheet filled in), stating the status of compliance with each point in the technical specification, should necessarily accompany the quotation.			
2	A minimum of 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 is not covered under the comprehensive warranty, then the itemised list of such items, including their prices during the period 2014-15 and average lifetime of the items should be provided.			
3	The equipment should be installed at the proposed site, demonstrate the required objective of the test with the claimed limit of detection/quantification with the sample provided.			
4	Training should be given to the staff at the site, for the operation of the instrument on demand			
5	Any accessory system(s) other than those mentioned in the technical specifications, that are required for satisfactory installation of the system should be quoted and supplied with the instrument.			
6	Agency commission: Agency commission if any will be paid to the Indian agent in rupees on receipt of the equipment and after satisfactory installation.			
7	Agency commission will not be paid in foreign currency under any circumstances. The details should be explicitly shown in tender even in case of Nil commission. The tender should indicate the percentage of Agency commission to be paid to the Indian agent.			

Declaration by the Bidder

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

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

DATE

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

Section III: Financial Bid

GC-FID

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

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

Financial Summary for the Instrument model : _____

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

GC-MS

Technical Specifications

(To be submitted by the Bidder)

SB/QEL/PUR/RAI BARELI/Instruments/2016

16-1-2016

Location of Supply and Installation:

The Instrument(s) will be required to be delivered at the following location. The installation location will be intimated subsequently.

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

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

Section I: Details of the Quotation

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

the quotation	
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Section II: Compliance with Technical Specifications

GC-MS

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

	Required Specification	Complying (Yes/No)	Remarks	Documentary Evidence Enclosed?
Instrument Name- GC-MS				
1.	<p><u>Ion Source:</u></p> <ul style="list-style-type: none"> -The source should be made of solid, non-coated, inert material, conforming to international safety standards, designed and manufactured under a quality system registered to ISO 9001. -The Source block heater control should have user-selectable temperature set points up to 350°C. -The User definable electron energy should be adjustable from 0-150 eV. -The GC transfer line temperature should be programmable up to 400°C or better. -It should have dedicated EI source. 			
2.	<p><u>Quadrupole Mass Analyzer:</u></p> <ul style="list-style-type: none"> -Mass Range: 2 –1000u -Resolution: Unit mass resolution maintained over the entire mass range. -Scan Rate: up to 12,500 u/sec or better. -It should have pre-filter before the main analyzer which should be helium free to focus the ions. 			

3.	<p><u>Detection System:</u></p> <p>It should utilize new generation discrete dynode electron multiplier integrated with linear-log electrometer with maximum linear output.</p>			
4.	<p><u>Vacuum System:</u></p> <p>It should have turbo molecular pump with 250L/s capacity or better with EI source.</p>			
5.	<p><u>Instrument Control:</u></p> <p>-It should have ability to acquire data in centroid or profile mode.</p> <p>-It should have scan modes like full scan, SIM, and alternating full scan/SIM.</p> <p>-It should have ability to alternate between full scan MS and SIM target analysis on successive scans.</p> <p>-In full scan/SIM mode, the data should be acquired into a single file with the ability to be present into separate views by the data system.</p> <p>-It should have complete control for each scan segment of scan rate, scan range, ion polarity, centroid or profile data acquisition, emission current value, detector gain value and specific tune file used for acquisition.</p>			
6.	<p><u>Installation Specifications using helium as carrier gas:</u></p> <p>-EI full scan specs: 1 µL injection of 1 pg/µL OFN while scanning from 50-300u gives for mass 272 an S/N ≥ 600:1.</p> <p>-EI SIM instrument detection limit of 25 fg or better for OFN standard at nominal 272 u ion should be demonstrated.</p>			
7.	<p><u>GC Control</u></p> <p>Fully PC controlled and provides all needed data, including all temperature and pressure/flow parameters, type of carrier gas, carrier gas column pressure, flow rates, split flow, detector gas flow rates and all detector parameters.</p>			

	<p>A dedicated function must allow unattended and automated system leak check.</p> <p>A dedicated function must allow to automatically measure and store column parameters. The system should have a capability of replacement of GC column without venting MS vacuum.</p> <p>The GC should have a Retention Time Repeatability of <0.0008 min or better The Peak Area Resproducibility should be <0.5% RSD or better (Please provide data).</p>			
8.	<p><u>Column oven</u></p> <p>Compatible with standard capillary columns and should have provision to install minimum two columns. GC system should be able to accommodate in future with other detectors and injectors also. The column oven must have an operating range from near ambient to 450 °C. Temperature resolution: 0.1 °C Max. Heating Rate: 120 °C/minute or better Cool-down time from 450 °C to 50 °C within 5 minutes No. of ramps: Possible to program 15 temp ramps (16 plateaus) or better System should have provision to install minimum two numbers of injectors and two numbers of detectors simultaneously apart from MS. Should have column overheat protection.</p>			
9.	<p><u>Pneumatic compartment</u></p> <p>The digital pressure and flow controller must be able to control and program pressures and flows up to 1000 Kpa. All gas flows should be controlled through software with no manual control Pressure increment set point: 0.001psi</p>			
10.	<p><u>Injector – 02 no’s</u></p> <p>S/SL injector - 01 no. PTV injector – 01 no. The injector must be able to operate with capillary columns in split/splitless mode Temperature range: up to 400 °C.</p>			

.11.	<p>Detector: FID</p> <p>Detection Limit: < 1.4 pg C/s Linear Dynamic Range: > 10⁷ Temperature range: up to 400°C FID ignition should be through software Data collection rate: 500 Hz</p>			
12.	<p>Auto-Sampler with minimum 100 sample vials positions. It should be able to inject in both the injectors without removal of AS tower. Vials – 1000 no's.</p>			
13.	<p>Columns: Capillary columns 03 number each of Polar, Non-polar and Highly polar columns of dimension 30meter X 0.25mm X 0.25μ should be quoted. 02 Nos of Chiral columns suitable for essential oil analysis.</p>			
14.	<p>Branded PC with licensed software and Color Laser-jet Printer.</p> <p>The software should be LIMS compatible</p>			
15.	<p>Gas cylinders (02 no's) each for Helium, Hydrogen & Zero Air or any other gases required to fulfill above application</p>			
16.	<p>Regulators, Gas Purification panels, tubings with complete fitting in the lab.</p>			
17.	<p>UPS: 10 KVA Online UPS with four hours back up with Exide EL Tubular Batteries.</p>			
18.	<p>Latest NIST library and Wiley Library, Mass Spectra of flavors and fragrances of Natural and synthetic compounds, 3rd edition should be provided.</p>			
.Additional Terms and Conditions				

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

Comprehensive Warranty

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

Declaration by the Bidder

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

SIGNATURE OF TENDERER

SEAL OF THE COMPANY

DATE

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

Section III: Financial Bid

GC-MS

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

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

Financial Summary for the Instrument model : _____

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

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

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

Declaration by the Bidder

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SIGNATURE OF TENDERER

SEAL OF THE COMPANY

DATE