

TENDER NOTICE

For

**Supply, Installation & Commissioning and
Comprehensive Annual Maintenance Contract of
Field Olfactometer with Air Supply Unit and
Accessories for Kerala State Pollution Control
Board**



**KERALA STATE POLLUTION CONTROL
BOARD**

Pattom

Thiruvananthapuram-695004

www.keralapcb.nic.in

Kerala State Pollution Control Board

TENDER NOTICE

INTERNATIONAL COMPETITIVE BIDDING

Supply, Installation & Commissioning and Comprehensive Annual Maintenance Contract of Field Olfactometer with Air Supply Unit and Accessories for Kerala State Pollution Control Board

File No: PCB/HO/SEE-2/OML-TVM/2019

Sub: Inviting Tender for

- 1. Purchase of Field Olfactometer with Air Supply Unit (3 no.s) and accessories (2 sets)**

Kerala State Pollution Control Board (KSPCB) intends to install **Field Olfactometer with portable Air Supply Unit** at Central Lab, Ernakulam, **Field Olfactometer with portable Air Supply Unit and accessories** for Regional Office, Trivandrum and Regional Office, Kozhikode. On behalf of the **Member Secretary** Kerala State Pollution Control Board **Pattom P.O. Thiruvananthapuram - 695 004** invite bids from the manufacturer/supplier in India or Abroad for the Supply, Installation, Comprehensive Annual Maintenance Contract and application training of Field Olfactometer with Air Supply Unit and accessories. The minimum warrantee period for the entire system shall be for two years. The warranty period starts from the date of successful installation of the equipment for two years and the next consecutive three years for CAMC.

A. Scope of the Project:

- 1. To setup odour measurement laboratory having dynamic Olfactometer with accessories.**

Supply, Installation & Commissioning of **Field Olfactometer with portable Air Supply Unit** at Central Lab, Ernakulam, **Field Olfactometer with portable Air Supply Unit and accessories** for Regional Office, Trivandrum and Regional Office, Kozhikode.

B. Eligibility Criteria for Submission of Bid/Quote:

- 1. The bidder shall be Original Equipment Manufacturer (OEM) or authorized dealer / supplier/ distributor in India or Abroad for which supporting documents shall be attached.**
- 2. Preference will be given to those who have minimum one year of experience in operation, maintenance of Field Olfactometer.**

3. Should have supplied and installed at least 2 no of Field Olfactometer with Air Supply Unit either in the country or outside the country in the last 3 years from the date of tender opening. (copy of supply orders shall be enclosed)
4. In case bidder is not Original Equipment Manufacturer (OEM), the bidder must attach the OEM authorization certificate to quote/submit the bid on behalf of OEM. The bidder must also submit certificate of equipment support from OEM.
5. The bids will be rejected in case, bidders do not meet all the above qualifying conditions without any further processing.

C. Schedule of Downloading of Bid Documents and Submission:

1. Complete set of bidding documents, tender forms, schedule of requirements, technical specifications, compliance sheet and formats shall be downloaded from <https://etenders.kerala.gov.in> and also available in official web site of Kerala State Pollution Control Board i.e. www.keralapcb.nic.in from the date of publishing tender. Bids/Quotes shall be submitted only through online.
2. Intending bidders are advised to see <https://etenders.kerala.gov.in> and www.keralapcb.nic.in regularly till the closing date of submission of tender for any corrigendum /addendum/ amendment
3. An amount of Rs 2500/- shall be paid through online towards tender fee.
4. The Quote shall be submitted in Two Parts, viz., Technical Bid and Price/commercial Bid separately through **online only**. The detailed technical specification of the scope of the project is enclosed in Annexure-I .
5. The Technical Bid documents shall be uploaded in the e-portal and hard copy of the same shall also be submitted to this office by post/person before the last date of submission as mentioned in the schedule of Critical Date in the e-portal.
6. The technical specifications compliance format also enclosed in Annexure –III_ which shall be duly filled and signed by the bidder and submitted. Schedule of requirements in Annexure-IV shall be submitted.
7. All the pages of Technical Specifications, Supporting documents/ Brochures of the bid must be signed and sequentially numbered by the bidder irrespective of nature of content of the

documents before uploading. The offers submitted by Telegram/Fax/email shall not be considered.

8. Intending Bidder should submit the entire formats attached herewith in Annexure- II to VI duly filled with supporting documents.
9. The compliance sheet of price bid enclosed in Annexure-V shall be filled up and uploaded along with the tender documents
10. Rates and applicable taxes and other charges shall be mentioned separately. No other charges will be accepted later other than mentioned in the financial quote.
11. Specifications which meet the requirements shall be considered for technical comparison and preference will be given to those who submit superior specifications.
12. The quantity mentioned in the tender document may be increased or decreased at the discretion of the Competent Authority in the Kerala State Pollution Control Board without assigning any reason.
13. The validity of bid is 120 days from the date of financial bid opened.
14. The bidders shall strictly follow the general terms and conditions of tendering through e-procurement. For any technical clarification Member Secretary, Kerala State Pollution Control Board may be contacted for further information.(e mail id: ms.kspcb.gov.in , rulespcb@gmail.com)
15. In the event of any dispute, the decision of Chairman, Kerala State Pollution Control Board will be the final and binding upon both the parties.

Section-1

1. Introduction

Kerala State Pollution Control Board (KSPCB) is in the process of setting up of Odour Measurement Laboratory and has planned for procurement of Field Olfactometer with portable Air Supply Unit in Central lab, Ernakulam (1 set), Field olfactometer with portable Air Supply Unit and accessories for Regional Offices at Thiruvananthapuram and Kozhikode (2 sets). Tenders are invited on behalf of the Member Secretary, Kerala State Pollution Control Board from Manufacturer/Suppliers in India and Abroad for the supply of Field Olfactometer with Air Supply Unit and accessories.

2. General Terms and Conditions

- i. The Tender Document is not transferable by the purchaser. Documents/forms downloaded from the net can also be used. Bids made on photocopy etc. will not be considered. Each sheet submitted by the bidder need to be signed including annexure provided by the Board with this document.
- ii. Bidders shall submit the **tender fee of Rs. 2,500/- (Rupees Two thousand and five hundred only) online** with the technical bid of the tender. The tender without requisite tender fee will be rejected.
- iii. The bidder shall remit **Earnest Money Deposit Rs. 50,000/- (Rupees Fifty thousand only)** online. Supporting documents shall be uploaded if EMD exemption is applicable at store purchase Rules.
- iv. Bidders shall upload separately the duly filled format of "Qualifications Criteria as mentioned in Annexure -II, duly filled Format of Technical Specification Compliance Criteria as mentioned in Annexure –III, schedule of requirements in Annexure-IV. And format of duly filled Price/Commercial Bid compliance sheet as mentioned in Annexure – V for supply of Field Olfactometer with portable Air Supply Unit and accessories.
- v. The Bidder shall submit full information required to judge qualification, specification of instrument offered for which supporting leaflets and catalogues, list of credentials with documentary evidence .ie. copies of purchase/ work order etc. Income tax clearance certificate, PAN No, Vat/ Sales Tax Registration No., Affidavit for not being black listed, commercial terms and conditions etc.

- vi. Documents, literature, diagrams/leaflets, or any supporting documents etc., enclosed in the bid shall become the property of the KSPCB without any payment.
- vii. The price bid (BOQ) shall be submitted online in excel format as BOQ .
- viii. The Board takes no responsibility for delay or non receipt or partial submission of Tender Document and also reserves the right to accept or reject any or all the tenders in part or full without assigning any reason thereof.
- ix. Tender documents uploaded before the last date of specified period and time shall only be accepted. Submission/Uploading of tender document after the last date and time shall not be accepted.
- x. The bidder is expected to examine all instructions, forms, terms and conditions and specifications mentioned in the bidding document. Failure to furnish all information required as per the bidding documents or submission of a bid substantially irresponsive to the bidding document in every respect will be at the bidder's risk and may result in the rejection of its bid.
- xi. This call of tender does not bind the KSPCB to place order. The tenders submitted in response to this invitation may be rejected without assigning any reason.
- xii. The Board at its discretion may extend the last date of submission of tender and opening of tenders.
- xiii. The final authority for acceptance of a tender will rest with the Chairman, Kerala State Pollution Control Board who does not bind himself to accept the lowest tender and is vested with this authority to reject any or all of the tenders received without assigning any reason.
- xiv. In case, the date of opening of Tender is declared as Public Holiday, the Tender shall be opened on the next working day at the same time. The bidders shall strictly follow the general terms and conditions of tendering through e-procurement
- xv. The bidder is expected to examine the bidding documents carefully and is deemed to have received and read all documents. It shall be the responsibility of the bidder to request the copies of any missing documents. Failure to do so will be at bidder's risk.
- xvi. It may be noted that mere quoting lowest rates will not entitle any firm to get the order. The quality of the item being offered, the past performance supply etc. will also be taken into consideration. Prior to award of purchase order, the buyer can call for any details or explanation regarding technical & financial aspect.

3. Submission of Bid/Quote

- I. There shall be a three bid in single stage submission.
- II. The bid must accompany duly filled in the format of Qualifications Criteria as mentioned in Annexure -II, duly filled Format of Technical Specification Compliance Criteria as mentioned in Annexure –III and duly filled compliance format of Price/Commercial Bid as mentioned in Annexure –V and signed by the Bidder along with the seal of the Firm.
- III. The supplier should submit technical bid without mentioning any cost/price to assess the item/components based on merits of technical specifications quoted in the bid.
- IV. The price bid shall be quoted separately in which it is requested to quote excise duty, import duty and total price of each instrument separately indicating tax, freight, insurance, transportation charges and their installation charges. Necessary excise duty exemption certificate as applicable will be supplied.
- V. The price to be given in the Tender are fixed prices, irrespective of rise in Material prices till complete the delivery of items. No request in regard to increase in the price of instruments will be entertained after the submission of the tender. Taxes shall be at prevailing rate at the time of supply of the material.
- VI. Based on the qualifying criteria mentioned and technical specifications, the bidders may be called for a presentation as part of proof of technology and its capability before opening the financial bid.
- VII. A prebid meeting shall be arranged by the Board on a scheduled date published in the site. The meeting link is as follows: meet.google.com/hkz-psip-dsb
- VIII. Arithmetical error will be rectified on the following basis: - If there is discrepancy between the unit price and total price that is obtained by multiplying the Unit Price and quantity, the unit price shall prevail and the total price shall be corrected. If there is discrepancy between words and figures, the amount mentioned in words will prevail.
- IX. The specifications are clearly mentioned in the document and the Bidder are requested to submit Bid only if their offer strictly comply with these specifications. Please note that no deviation in the required specification will be permitted. The bidding for the instruments having different specification will be on Bidder's risk as the Board will not entertain such Bids. Bids carrying the statement like "specification as per tender document" shall not be

entertained. The product specifications supported by technical literature and list of users must be enclosed.

4. Responsibility of Bidder:

- I. The placement of work order/purchase order will be according to technical evaluation of the Tender and after consideration of its price worthiness.
- II. Supply, install, establish and maintain Field Olfactometer with portable Air Supply Unit at Central Lab, Ernakulam, Field Olfactometer with portable Air Supply Unit and accessories for Regional Office, Trivandrum and Regional Office, Kozhikode.
- III. The bidder should provide a complete list of spares, consumables required for the trouble free operation and maintenance of the instruments.
- IV. The bidder should be attentive for any call to rectify the fault occurring in the equipment system immediately and ensure trouble free operation of the system. The Bidder should provide full information of its local agents/censors if available in India.
- V. Bidder shall provide calibration certificate along with the instrument.
- VI. The bidder seller/local representative shall have full responsibility to transport the equipment and accessories monitoring system at the proposed locations by KSPCB. All the local taxes and duties will be paid by the bidder/supplier.
- VII. The foreign bidders must indicate the following information in the technical bid offered:
 - Country of Origin
 - Port of Shipment
 - Name & Address of beneficiary Bank, Branch Name with Account No.
 - Minimum delivery period
 - Whether transshipment /partner shipment is required or not.
- VIII. Foreign Principals/their authorized Indian Agent shall intimate the buyer regarding the date of shipment well in advance. A copy of the invoice documents, airway bill, packing list, certificate of country of origin may be forwarded to the purchaser by fax/ E-mail immediately after shipment of the consignment to clear from custom authorities so as to avoid demurrage charges.
- IX. The prices must be quoted item wise i.e. basic price as per the price bid schedule enclosed. The charges must be quoted clearly and not in vague terms like “As Actual”, “Approx” etc.
- X. For imported items :-

- 1) The package should be properly marked, insured to destination Central Lab, Ernakulam and despatch as per the letter of credit (LC) on freight paid basis to the Chief Environmental Scientist, Central Lab, Kerala State Pollution Control Board, Gandhi Nagar, Ernakulam-682020.
- 2) The packages marked for installing at Regional Office, Trivandrum and Regional Office, Kozhikode shall be transported by the supplier on cost free basis to the following address.

Sl.No	Office Name	Designation
1	Regional Office, Kerala State Pollution Control Board, Plamoodu, Pattom, Trivandrum, Kerala 695004	Chief Environmental Engineer
2	Regional Office, 3 rd floor, Zamorins Square, Link Road, Kozhikode - 673002	Chief Environmental Engineer

- XI. In case of Indian Suppliers, the instruments are to be dispatched to the respective places directly and to be installed there, by the supplier under intimation to respective officials of KSPCB, Thiruvananthapuram. The Supplier shall be liable for any damage, theft or loss during the transit. Please note that Performa Invoice must be separate for each instrument /item.
- XII. In the case of proprietary item, the proprietary certificate issued by the principal/ manufacturer should be attached along with the technical bid. In that case, the bid of the sole distributor will only be considered.
- XIII. A copy of the latest supply order (showing details of price) executed to any other Govt Departments in India or abroad should be submitted along with the technical bid.
- XIV. If the instrument supplied is found defective/unsatisfactory condition/short supply/ other than specifications in the Purchase Order, the same will have to be replaced at the suppliers risk and cost. No freight and other charges for replacement will be paid by the Board.
- XV. The minimum warranty period expected is two years.
- XVI. An Earnest Money Deposit of (Rs 50,000 (Rupees Fifty thousand only) shall be paid through online.
- XVII. The earnest money of unsuccessful bidder/firms will be refunded automatically into their own account

- The earnest money deposit of successful firm may be returned after the successful installation and commissioning of the system
- XVIII. Security Deposit –The successful bidder shall remit a security deposit of 5% of the Bid value within 15 days of award of contract.
- XIX. Agreement – The successful bidder shall execute an agreement on a non judicial Kerala Stamp paper of value Rs.500 (stamp duty to be paid by the bidder) within 15 days from the date of information that the bids has been accepted.
- XX. Successful bidder shall ensure that the supply and installation shall be completed within a period of 4 months from the date of signing the agreement. Any delay in commissioning beyond this period shall result in imposition of a penalty of a sum equivalent to 1% of the delivered price for each week of delay until completion of installation, up to a maximum of 10% of the contract prices after which the KSPCB may consider termination of the contract at the risk and cost of the bidder.

5. Training to the officials of KSPCB:

The manufacturer / supplier should provide training to the officials including installation and demonstration.

6. Warranty And Maintenance

The manufacturer should provide a comprehensive warranty of at least two years from the date of commissioning of the system.

7. Comprehensive Annual Maintenance Contract (CAMC)

The total period of CAMC is five years including warrantee (2 years) and non warrantee (3 years). Vendor must quote for the CAMC separately. In case of imported items the LC shall be opened by KSPCB if the supplier provides the required documents.

8. Payment condition

For indigenous items

- a. On Delivery:** Ninety (90) percent of the Contract Price including material cost, transport and installation and commissioning shall be paid on receipt of the goods and upon submission of the required documents:

b. On Installation and Commissioning: The remaining ten (10) percent of the Contract Price shall be paid to the Supplier after successful installation and commissioning of CAAQMS.

For Imported items

On Shipment: 100 percent of the Contract Price of the Goods shipped shall be paid through irrevocable confirmed letter of credit opened in favour of the Supplier in a bank in its country, upon submission of the required documents

9. Documentation

1. The manufacturer should provide detailed manuals for operation, trouble shooter, preventive materials, servicing and maintenance including all block diagrams and detailed circuit diagrams, components used in the system should also be provided.
2. The bidder is expected to examine all instructions, forms, terms and specification in the bidding documents. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in rejection of its bid.

10. Language of the Bid

1. The bid prepared by the bidder, as well as correspondence and documents relating to the bid exchanged by the bidder and purchaser shall be written in English language only.
2. The bidder shall bear all costs of translation, if any, to the English language to all risk of the accuracy of such translation, for documents provided by the bidder.

All related correspondence and documents should be written in English language. Supporting documents and printed literature furnished by the applicant may be in any other language provided that these are accompanied by appropriate translations of the pertinent passages in the English language. Supporting material, which are not translated into English, may not be considered. For the purpose of interpretation and evaluation of the application, the English language translation shall prevail.

11. Bid form and price schedule

The bidder shall complete the Bid Form and annexures furnished in the bidding documents. These forms must be completed without any alterations to its format and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested.

12. Responsibility of the prices

- a) Negotiation with bidders after the opening the tender is similarly discouraged. Therefore the bidders are advised in their own interest to quote their best competitive / discounted offer in the first instances or maximum discount may be indicated in the quote/offer.
- b) The quoting bidder should give a certificate to the effect that the quoted prices are the minimum and they have not quoted the same item on lesser rates than those being offered to KSPCB to any other customer nor they will so do till the validity of offer or execution of the purchase order, whichever is later.

13. Annual Maintenance Charge

In the price bid, the bidder should mention the cost of annual maintenance charge for three years after expiry of warranty including details of the service provider by the supplier.

14. Bid currencies

Prices shall be quoted in Indian rupees for offers received for supply within India and in freely convertible foreign currency in case of offer received for supply from foreign countries.

In all cases where the original figure is in foreign currency partial conversion option shall be selected in the Currency Conversion column in the financial bid (B.O.Q.).

15. Compliance / Non-Compliance Statement

1. The tenderer shall submit a detailed item-wise compliance / non-compliance statement in Annexure III given along with this document, for quick evaluation of tender and for any future reference. The page number of the submitted document shall also be referred in.
2. The compliance statement shall be supported by original brochure(s) of the equipment or sub component from the manufacturer. In case the original brochure is silent on any part

of tender specification, it shall be supported by an undertaking by the manufacturer, if claimed complied.

3. The technical specifications and other requirements contained in this document are essentially required by the indenter. However, reasons for non-compliance, if any, for certain limited paras, or even sub-paras of the document may also be given by the tenderer.
4. Silence on any part of the technical specification or failure / omission to provide any such details will be treated as non-compliance. All non-compliance of specifications, even of small nature, should be clearly brought out.

16. Reliability

In general, it is desired that Field Olfactometer should be capable of operating for 3 years without physical technical intervention. Olfactometer should have built-in performance checks and indicators which should be utilized whenever possible.

17. Roles & Responsibilities, Obligations:

17 (a). Kerala State Pollution Control Board (KSPCB)

1. The Field Olfactometer with portable air supply unit and accessories after the procurement will be owned by KSPCB, though the supply, installation and maintenance etc. are carried out by the successful bidder.
2. KSPCB also retains the right to require the successful bidder to adhere to certification by any certified or accredited by any national / international organization later if required.
3. Providing service line for electricity at the time of installation is the responsibility of KSPCB. However, insurance shall be within the scope of the successful bidder.
4. Where delivery of the goods is required by the purchaser on CIF/CIP basis the supplier shall arrange and pay for cargo insurance, naming the purchaser as beneficiary an initiate and pursue claims till settlement, on the event of any loss or damage.
5. With a view to ensure that claims on insurance companies, if any, are lodged in time, the bidders and/or the Indian agent shall be responsible for follow up with their principals for

ascertaining the dispatch details and informing the same to the purchaser and he shall also liaise with the Purchaser to ascertain the arrival of the consignment after clearance so that immediately thereafter in his presence the consignment could be opened and the insurance claim be lodged, if required, without any loss of time. Any delay on the part of the bidder/Indian Agent would be viewed seriously and he shall be directly responsible for any loss sustained by the purchaser on the event of the delay.

17 (b). Successful Bidder:

1. All the equipments shall be installed and brought into suitable conditions for operation by the supplier at the sites designated by the Board.
2. The supplier shall make all the necessary and proper adjustments and arrangements, including the utility supplies and connections, in order to install the Equipment in adequate conditions for operation.
3. Only the best installation practices are to be applied, and all the installation works must be done to the satisfaction of the Board and the supplier shall carry out his works in a neat and proper workman manner.
4. The installation shall be planned and carried out in such a way so as not to damage installation materials and the Equipment. All the installing Equipments, tools, materials, labour, logistics and all the other requirements for installation shall be provided by the Supplier.
5. Bidder shall depute Engineer/supervisor for onsite assembly, installation, commissioning and start up of the supplied equipment. Bidder should offer the complete system with complete turnkey implementation including installation testing and commissioning to the satisfaction of KSPCB officers.
6. Provide technological, leadership, administrative and managerial support as the Partner in an open and transparent manner to produce mutually agreed outcomes.
7. Warranty period for the equipment shall be minimum two year from the date of successful commissioning of the entire system. The bidder should provide details of comprehensive AMC and operation support including arrangement for consumables.

8. The bidder shall bear all expense of packaging, forwarding, freight, insurance in connection with delivery, replacements made within warranty period.
9. The vendor shall be responsible for any loss, damage, breakage etc in transit site.

18. Clarifications:

Organization requiring any clarification on the tender document may notify KSPCB in writing at:

ATTN. OF: Member Secretary
Kerala State Pollution Control Board , Head Office
ADDRESS: Plamood, Pattom P.O., Thiruvananthapuram 695004
Phone: 0471 2318153, 54, 55
Fax: 0471-2318152,2318134
E mail: ms.kspcb@gov.in, rulespcb@gmail.com

The website <https://etenders.kerala.gov.in> may be regularly visited for any addendum in the tender document/ any news pertaining to the tender.

Section – II: Bidding Data Sheet (BDS)

The following specific data for the goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

A. General	
The Purchaser is: Member Secretary, Kerala State Pollution Control Board , Head Office Plamood, Pattom P.O., Thiruvananthapuram 695004 Kerala, India website: http://www.keralapcb.nic.in	
The name of the Project is: Supply of Field Olfactometer with portable Air Supply Unit with accessories and Comprehensive Annual Contract which include O & M	
B. Contents of Bidding Documents	
For Clarification of bid purpose only, the Purchaser's address is:	
Attention:	Member Secretary
Address:	Kerala State Pollution Control Board, Head Office, Plamoodu, Pattom P.O., Thiruvananthapuram - 695 004
Telephone:	Tel: 0471 - 2318153, 54, 55, 56, 2312910
Email address:	ms.kspcb@gov.in , rulespcb@gmail.com
C. For bid submission purposes,	
The bids shall be submitted through etender site and hardcopy of the same shall be submitted to the following address with a title DON'T OPEN - TENDER DOCUMENT	
Attention:	Member Secretary,
Address:	Kerala State Pollution Control Board, Head Office, Pattom P.O., Thiruvananthapuram - 695 004
City:	Thiruvananthapuram
D. Award of Contract	
The award of work is to supply of complete Field Olfactometer with Air Supply Unit and accessories.	

Section III**Technical Specifications of Remote Standalone Field Olfactometer with
Air Supply Unit and Accessories****The Field Olfactometer with portable Air Supply Unit and Accessories for Central Lab,
Ernakulum****A. Technical Specification for Field Olfactometer**

Sl.No	Parameter	Specification
1	Air Supply Capacity	15 min
2	Number of samples per tank refill	10-15
3	Dilution range	2-30,000 (2 ¹⁵)
4	Dilution Principle	Stainless Steel Eductor
5	Number of Dilution Steps:	≥15 (adjustable range)
6	Selectable Ranges	2-101;4-678;44-656; 2-3600; 2000-30,000
7	Pres. Flow Rate: (l/min)	20
8	Presentation Face Velocity (m/s)	0.3
9	Face Mask	Half-face PTFE
10	Wetted Material	Stainless steel and PTFE
11	Tank material	Carbon fibre
12	Dimensions (inches)	16 X 6 X 6
13	Weight Kg (lb)	3.5 (8)

Supply with all accessories including face mask, PTFE tubings, high pressure carbon fibre tank, carrying case and carry bags etc.

B. Technical Specifications: High Pressure Portable Breathing Air Compressor

Sl No.	Item	Specification
1	FAD	100 Litres Per Minute
2	Operating Pressure	300 bar
3	Max Pressure	330 bar (final safety valve set pressure)
4	Prime Mover	Petrol Engine 4.0 kW, Rope start, manual stop
5	No of Stages	3
6	No of Cylinders	3
7	Drive	V-belt
8	Weight of the equipment	50 kgs. Portable Compressor
9	Lubrication Type	Splash Type Lubrication System
10	Lubricating Oil Capacity	0.38 lit
11	Filtration	Triplex Filter set with Active Carbon & Molecular Sieve
12	Air Outlet Temperature	10-15°C above ambient 'Air Temperature'
13	Breathing Air Quality	Final Air Quality As per EN – 12021
14	Inter Coolers	Provided after each stage of compression The coolers are individually detachable from the compressor and are located directly in the cooling fan's air blast.
15	After Coolers	Provided after the final stage of compression
16	Intermediate Safety Relief	One sealed SRV provided per stage. All the three Valve per stage stages are equipped with Safety Relief Valve.
17	Oil & Water Separator	Provided after 2 nd & 3 rd stage with manual drain
18	Filling Valve with final Pr.	Provided with 1 m with Thermoplastic filling hose with Pressure Gauge mounted on the filling valve

	Gauge	
19	Compressor Oil Change	Not less than 2000 working hours or 2 years, whichever is earlier
20	Compressor	<ul style="list-style-type: none"> • With micronic type intake filter, intercoolers, aftercooler, inter-stage separator 2nd & 3rd stage, inter-pressure safety valves with manual drains; manual start/ stop of compressor, pressure maintaining valve and non-return valve in the discharge line. • V belt-driven • Compressor block & motor mounted on a common base frame.
21	TRIPLEX-Filter System	<ul style="list-style-type: none"> • Consisting of TRIPLEX-Filter System with TRIPLEX long-life cartridge, pressure maintaining valve and final safety valve.

C.Specification of accessories

Sl.No	Accessories	Description
1	Vacuum chamber	Vacuum chamber of size which may fit bags of upto 10 L, 25 L or 50 L
2	Static Hood	Stainless steel construction
		0.25 m ² or 0.5m ² model
		PTFE coating
		Removable stack
3	Diluting Sampler	Completely stainless steel wetted surface
		Flue gas treated probe
		Should include Nitrogen micro tank with filter and regulator
		One Push sampling operation
		Grab and time sampling from 0-17 lpm
		Light weight and easy to carry up stacks
		High temperature compatibility of 400C
4	Flux chamber	100% stainless steel construction
		Stainless steel chain and hoist ring
		Custom size fitting
5	Sensitivity kit	The Sensitivity kit should be designed to provide accurate N-butanol mixtures of 5 to 50 ppm from a liquid n-butanol source.
6	Sample Bags (50 pieces) 10L	Either PTFE sampling bags or Tedler bags
		Leak tested and purged to ensure zero background odours.
7	Onsite Installation and Training	Installation and demonstration

Annexure-II

Format to be duly filled by Bidders and Submitted for evaluation in Qualification Criteria

Sl.No.	Qualification Criteria	To be filled and submitted by the Bidder (page no of the document to be specified)
1	Letter of Application	
2	Are you a manufacturer	
3	Complete address(with email) of manufacturing site	
4	Address of the office in India	
5	Enclose copy of Authorization obtained from manufactures	
6	Are you partially importing and fabricating locally	
7	Address from where Imported and address of local fabrication	
8	Years of experience in this field of Supply of Field Olfactometer with Air Supply Unit	
9	How many such Field Olfactometer with Air Supply Unit supplied, if so list of the name of customers(Attach copy of latest supply order with price bid)	
10	Years of Operation and Maintenance Contract experience	
11	Name of customers and period with whom O&M contracts executed (Attach List with copy of contract)	
12	Enclose at least one satisfactory performance certificate from customers with whom O & M Rendered	
13	Enclose Affidavit for not being black listed	
14	Have you attached Tender Fee/EMD as mentioned in the tender, if so details & amount	
15	Have you submitted Technical and price bid separately as per the format provided	
16	Have you submitted duly filled Technical Specifications compliance sheet(Annexure II)	
17	Certificate as per item no. 13 (b)	
18	Copy of latest supply order as per item no. 4(XIV)	

Compliance Sheet

A. Format of Compliance for Technical Specifications for Field Olfactometer with Air Supply Unit and Accessories to be submitted by bidder (Supporting documents like Brochures , undertakings are to be attached)

Sl.No	Parameter	Specification	Compliance Statements to be filled by bidder (if yes, detail your spec and page no of the document)
1	Air Supply Capacity	15 min	
2	Number of samples per tank refill	10-15	
3	Dilution range	2-30,000 (2 ¹⁵)	
4	Dilution Principle	Stainless Steel Eductor	
5	Number of Dilution Steps:	≥15 (adjustable range)	
6	Selectable Ranges	2-101;4-678;44-656; 2-3600; 2000-30,000	
7	Pres. Flow Rate: (1/min)	20	
8	Presentation Face Velocity (m/s)	0.3	
9	Face Mask	Half-face PTFE	
10	Wetted Material	Stainless steel and PTFE	
11	Tank material	Carbon fibre	
12	Dimensions (in)	16 X 6 X 6	
13	Weight Kg (lb)	3.5 (8)	

Supply with all accessories including face mask, PTFE tubings, high pressure carbon fibre tank, carrying case and carry bags etc.

C. High Pressure Portable Breathing Air Compressor

Sl No.	ITEM	Specification	Compliance Statements to be filled by bidder (if yes, detail your spec and page no of the document)
1	FAD	100 Litres Per Minute	
2	Operating Pressure	300 bar	

3	Max Pressure	330 bar (final safety valve set pressure)	
4	Prime Mover	Petrol Engine 4.0 kW, Rope start, manual stop	
5	No of Stages	3	
6	No of Cylinders	3	
7	Drive	V-belt	
8	Weight of the equipment	50 kgs. Portable Compressor	
9	Lubrication Type	Splash Type Lubrication System	
10	Lubricating Oil Capacity	0.38 lit	
11	Filtration	Triplex Filter set with Active Carbon & Molecular Sieve	
12	Air Outlet Temperature	10-15°C above ambient 'Air Temperature'	
13	Breathing Air Quality	Final Air Quality As per EN – 12021	
14	Inter Coolers	Provided after each stage of compression The coolers are individually detachable from the compressor and are located directly in the cooling fan's air blast.	
15	After Coolers	Provided after the final stage of compression	
16	Intermediate Safety Relief	One sealed SRV provided per stage. All the three Valve per stage stages are equipped with Safety Relief Valve.	
17	Oil & Water Separator	Provided after 2 nd & 3 rd stage with manual drain	
18	Filling Valve with final Pr. Gauge	Provided with 1 m with Thermoplastic filling hose with Pressure Gauge mounted on the filling valve	
19	Compressor Oil Change	Not less than 2000 working hours or 2 years, whichever is earlier	
20	Compressor	<ul style="list-style-type: none"> • With micronic type intake filter, intercoolers, aftercooler, inter-stage 	

		<p>separator 2nd & 3rd stage, inter-pressure safety valves with manual drains; manual start/ stop of compressor, pressure maintaining valve and non-return valve in the discharge line.</p> <ul style="list-style-type: none"> • V belt-driven • Compressor block & motor mounted on a common base frame. 	
21	TRIPLEX-Filter System	<ul style="list-style-type: none"> • Consisting of TRIPLEX-Filter System with TRIPLEX long-life cartridge, pressure maintaining valve and final safety valve. 	

D. Accessories

Sl.No	Accessories	Description	Compliance Statements to be filled by bidder (if yes, detail your spec and page no of the document)
1	Vacuum chamber	Vacuum chamber of size which may fit bags of upto 10 L, 25 L or 50 L	
2	Static Hood	Stainless steel construction	
		0.25 m ² or 0.5m ² model	
		PTFE coating	
		Removable stack	
3	Diluting Sampler	Completely stainless steel wetted surface	
		Flue gas treated probe	
		Should include Nitrogen micro tank with filter and regulator	
		One Push sampling operation	
		Grab and time sampling from 0-17 lpm	

		Light weight and easy to carry up stacks	
		High temperature compatibility of 400C	
4	Flux chamber	100% stainless steel construction	
		Stainless steel chain and hoist ring	
		Custom size fitting	
5	Sensitivity kit	The Sensitivity kit should be designed to provide accurate N-butanol mixtures of 5 to 50 ppm from a liquid n-butanol source.	
6	Sample Bags (50 pieces) 10L	Either PTFE sampling bags/Tedler bags	
		Leak tested and purged to ensure zero background odours.	
7	Onsite installation and training	Installation and demonstration	

Section IV: Schedule of Requirements
(Attach documents for item no. 2)

Sl.NO	Name of Items & Its description	
1	Supply of Field Olfactometer with Air Supply Unit and Accessories as per the specifications	
2	Manual for O & M and technical literature both hard and soft copies	

Section V: Schedule of Price Form

Sl.No.	Name of Items & Its Description	Compliance
1	Cost for supply of Field Olfactometer	
2	Cost of Air Supply Unit	
3	Cost of Vaccum Chamber	
4	Cost of Diluting Sampler	
5	Cost of Flux Chamber	
6	Cost of sensitivity Kit	
7	Cost of Sample Bags(50 pieces)	
8	Installation and training charges	
9	Cost for CAMC during warranty period of first year	
10	Cost for CAMC during warranty period of second year	
11	Cost for CAMC during post warranty period for first year	
12	Cost for CAMC during post warranty period for second year	
13	Cost for CAMC during post warranty period for Third year	

SECTION VI
BIDDING FORMS

Bidder Information Form

*[The Bidder shall fill in this Form in accordance with the instructions indicated below.
No alterations to its format shall be permitted and no substitutions shall be accepted.]*

Date: *[insert date (as day, month and year) of Bid Submission]*

No.: *[insert number of bidding process]*

1. Bidder's Legal Name <i>[insert Bidder's legal name]</i>
2. In case of JV, legal name of each party: <i>[insert legal name of each party in JV]</i>
3. Bidder's actual or intended Country of Registration: <i>[insert actual or intended Country of Registration]</i>
4. Bidder's Year of Registration: <i>[insert Bidder's year of registration]</i>
5. Bidder's Legal Address in Country of Registration: <i>[insert Bidder's legal address in country of registration]</i>
6. Bidder's Authorized Representative Information Name: <i>[insert Authorized Representative's name]</i> Address: <i>[insert Authorized Representative's Address]</i> Telephone/Fax numbers: <i>[insert Authorized Representative's telephone/fax numbers]</i> Email Address: <i>[insert Authorized Representative's email address]</i>
1. attached are copies of original documents of: <i>[check the box(es) of the attached original documents]</i> Articles of Incorporation or Registration of firm named in 1, above, In case of JV, letter of intent to form JV or JV agreement, In case of government owned entity from the Purchaser's country, documents establishing legal and financial autonomy and compliance with commercial law,

Bid Submission Form

[The Bidder shall fill in this Form in accordance with the instructions indicated No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date: *[insert date (as day, month and year) of Bid Submission]*
No.: *[insert number of bidding process]*
Invitation for Bid No.: *[insert No of IFB]*

To: *[insert complete name of Purchaser]*

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda No.: *[insert the number and issuing date of each Addenda]*;
- (b) We offer to supply in conformity with the Bidding Documents and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods and Related Services ___*[insert a brief description of the Goods and Related Services]*;
- (c) The total price of our Bid, excluding any discounts offered in item(d)below, is:
_____ *[insert the total bid price in words and figures, indicating the various amounts and the respective currencies]*;
- (d) The discounts offered for their application are:
Discounts. If our bid is accepted, the following discounts shall apply. _____
[Specify in detail each discount offered and the specific item of the Schedule of Requirements to which it applies.]
- (e) Our bid shall be valid for the period of time specified, from the date fixed for the bid submission deadline, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (f) If our bid is accepted, we commit to obtain a performance and for the due performance of the Contract;
- (g) We, including any subcontractors or suppliers for any part of the contract, have nationality from eligible countries ___*[insert the nationality of the Bidder, including that of all parties that comprise the Bidder, if the Bidder is a JV, and the nationality each subcontractor and supplier]*
- (h) We have no conflict of interest;
Our firm its affiliates or subsidiaries—including any subcontract or suppliers for any part of the contract—has not been declared ineligible by the Bank, under the Purchaser’s country laws or official regulations,
- (i) The following commissions, gratuities, or fees have been paid or are to be paid

with respect to the bidding process or execution of the Contract: *[insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity]*

(If none has been paid or is to be paid, indicate —none.))

- (j) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed.

We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

Signed: _____ *[insert signature of person whose name and capacity are shown]*

In the capacity of _____ *[insert legal capacity of person signing the Bid Submission Form]*

Name: _____ *[insert complete name of person signing the Bid Submission Form]*

Duly authorized to sign the bid for and on behalf of: *[insert complete name of Bidder]*

Dated on _____ day of _____, _____ *[insert date of signing]*