



Central Pollution Control Board

(Ministry of Environment & Forests, Govt. of India)

West Zone Office,

“Parivesh Bhavan”, Opp. VMC Ward Office No. 10

Subhanpura, Vadodara-390003.

Phone no. 0265- 2392831 – 33, Fax 2392987

EXTENSION OF TENDER SUBMISSION DATE

The date of tender document sale, submission and opening has been extended up to 18.07.2016 for the supply and installation of items for Ring Test Facility and Static Injection System in the Calibration Laboratory of CPCB, Vadodara against the tender floated on 11.05.2016. The other terms and conditions of the tender remain same.

(B.R. Naidu)
Zonal Officer



**TENDER DOCUMENT
FOR SUPPLY, INSTALLATION AND
COMMISSIONING OF COMPLETE RING
TESTING FACILITY AND STATIC
INJECTION SYSTEM**



**CENTRAL POLLUTION CONTROL BOARD
WEST ZONE OFFICE, PARIVESH BHAWAN
OPP. VMC WARD OFFICE NO.-10
SUBHANPURA
VADODARA- 390023
MAY-2016**



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ANNEXURES

Annexure I - APPLICATION FORM

Annexure – II

Annexure III - Technical bid Form

Annexure – IV – Under Taking

Annexure – V - General Specifications and Item Code Number

Site books/ Reports:

Furnishing of reports, statements, returns, etc. by Contractor:

Contractor to verify site measurements:

Materials and samples:

1. Materials to be new.
2. Approval of manufacturers:
3. Copies of Orders.
4. Samples of materials and work

Inspection and testing of materials:

Rejected materials:

List of proprietary materials:

Contractor to satisfy himself regarding all requirements:

Record drawings:

As-built drawings and completion photographs:

Care of works and properties:

First aid service:

Progress photographs:

Facilities, attendance, etc. on nominated subcontractors

Dispatch of material:

Item Codes

CHECK LIST FOR THE BIDDER



FIGURES

Figure 1: Schematic diagram of Gas mixing chamber with eight ports for ring test system.

Figure 2: Schematic diagram of Gas splinter with nozzles (Ring Test System).

Figure 3: Schematic diagram of 120 litre glass bottle with tripod stand

Figure 4: Schematic diagram of entire ring test facility



**CENTRAL POLLUTION CONTROL BOARD
WEST ZONAL OFFICE
(Ministry of Environment & Forests, Govt. of India)
Parivesh Bhavan, Opp. VMC Ward Office No 10, Subhanpura,
Vadodara - 390023, Gujarat.**

Ph: 0265 – 2392831 – 33, 2392985 – 86, Fax: 0265 - 2392987

No.: ZOW/Tech-211/2016-17/

Date: 11.05.2016

TENDER NOTICE

Subject : Invitation of Tender for supply, installation and commissioning of complete ring testing facility & static injection system at CPCB West Zone Office Vadodara

On behalf of Member Secretary, Central Pollution Control Board (CPCB), Zonal Officer West Zone Office, CPCB, Vadodara invites two bid (One technical and one price bid) system sealed tender from reputed bidders for developing the ring testing facility & Static Injection System at Central Pollution Control Board (CPCB), Zonal Office (West) Opposite VMC ward Office-10, Subhanpura, Vadodara.

Job description	Bid Security (EMD)	Quantity	Delivery
1	2	3	4
Supply, installation and commissioning of complete ring testing facility & Static Injection System at CPCB Zonal Office Vadodara	Rs. 30,000/- (Rupees thirty thousand only)	One complete system covering all items at mentioned location in column 1.	Consignee:- Central Pollution Control Board, Parivesh Bhawan Opp. VMC Ward Office No. 10, Subhanpura, Vadodara-390 023

The tender documents are available for sale from **11.05.2016** to **20.05.2016** at the cost of Rs. 500/- The tender document can also be downloaded from CPCB website www.cpcb.nic.in. In case the tender document is downloaded from CPCB website, the bidders shall have to submit the document fee of Rs. 500/- as DD in favour of CPCB Vadodara at the time of submission of tender.

The detailed specifications and number of equipments required to be supplied are enclosed in tender document. The terms and conditions are also given in the Tender Document. Please read the terms and conditions carefully and furnish relevant information and quote as per the enclosed tender document.

The bidder should submit their sealed tender on or before 27.06.2016 up to 6:00 PM and technical bid will be opened on the 28.06.2016 at 11.30AM.

(B.R. Naidu)
Additional Director & Zonal Officer



CENTRAL POLLUTION CONTROL BOARD
West Zone Office
(Ministry of Environment & Forests, Govt. of India)
Parivesh Bhavan, Opp. VMC Ward Office No 10, Subhanpura,
Vadodara- 390023, Gujarat.
Ph: 0265 – 2392831 – 33, 2392985 – 86, Fax: 0265 - 2392987

Tender Notice No.: ZOW/ Tech-211/2016-17/

Date 11.05.2016

Tender document for supply, installation and commissioning of complete ring testing facility & static injection system

1. The tender document with detailed specifications and terms & conditions can be obtained in person or through authorised representative on production of authority letter of the firm or by post from Central Pollution Control Board(CPCB), Zonal Office (W) Opposite VMC ward Office-10, Subhanpura, Vadodara. The cost of tender document may be paid in rupees by demand draft in favour of Central Pollution Control Board, Vadodara or in cash.
2. The bid must be submitted in English by the principal supplier only. The bid submitted by the agent/ representative will not be entertained in any case.
3. Earnest money as indicated in bid document must be submitted by the bidder along with the Tender in the form of Demand Draft only drawn in favour of Central Pollution Control Board Vadodara. It should be in Indian rupees. The Indian agent / representative should furnish an authorization letter from their foreign principal supplier authorizing them to deposit the EMD on their behalf.
4. The request for tender documents sent by post will be accepted up to 20.06.2016 at 02:00 PM. CPCB will not be responsible for any delay in receipt of tender document by post. A request received by post after mentioned date will not be entertained at any cost. Other details are as follows

Price of tender document

- | | |
|--------------|-------------|
| (i) By Hand | : Rs. 500/- |
| (ii) By post | : Rs. 700/- |

Date of sale of tender : 11.05.2016 to 20.06.2016 on all working days.

Last date & Time for submission of tender : 27.06.2016 up to 06:00PM

Earnest Money along with tender : As indicated in tender document

Opening of tender : 28.06.2016, at 11:30AM

5. Bidders using downloaded tender documents must submit separate tender fee by Demand Draft along with technical bid drawn in favour of Central Pollution Control Board Vadodara.

(B.R. Naidu)
Additional Director & Zonal Officer



1.0 GENERAL TERMS AND CONDITIONS

1.1 This document contains the following:

- i) Copy of the Tender Notice
- ii) General Terms and Conditions of Bid
- iii) Terms and Conditions for Submission of Bid
- iv) Payment Terms
- v) Settlement of dispute
- vi) Application Form
- vii) Undertaking
- viii) Bid Forms
- ix) Schedule of Earnest Money to be deposited alongwith tender
- x) Quantity of equipments and locations of delivery and installation
- ix) Detailed specification of the items.
- xii) Check List.

1.2 The Tender Document is not transferable. The bid form in the tender document at Annexure-II may be used for bidding. Documents/ forms downloaded from the net can also be used. Bid made in photocopy etc. will not be considered. However, the additional sheets containing the same pro forma may be used for item details. Each sheet including that provided by the Board with this document must be signed by the bidder. The price bid must be submitted in the form given in **Annexure-III**.

1.3 The tenders, document will be available for sale from 11.05.2016 to 20.06.2016 10:30 to 5.30 PM on all working days from in the office of CPCB Vadodara. Tender will not be accepted from the firm to whom tender document is not issued by the Board and in case the tender document is downloaded from the website, the bidder shall have to submit the document fee of Rs.500/- as D.D. in favour of Central Pollution Control Board, Vadodara at the time of submitting of the tender, failing which the tender will not be accepted.

1.4 The Board takes no responsibility for delay or non receipt of Tender Document sent by post either way and also reserves the right to accept or reject any or all the tenders in part or full without assigning any reason thereof.

1.5 No bid document will be sold after the last date of sale of Tender Document or between the extended period of opening date, if any.

1.6 The bidder is expected to examine all instructions, forms, terms and conditions and specifications mentioned in the bid document. Failure to furnish all information required by the bid documents or submission of incomplete bid will be at the bidder's risk and may result in the rejection of their bid.

1.7 This invitation of tenders does not bind the Central Pollution Control Board to place order. The tenders submitted in response to this invitation will be rejected without assigning any reason.

The bidder should be a manufacturer/ fabricator or their authorized Indian supplier of the items specified. The claim of bidder in this regard should be supported by self attested similar Work Order/ Purchase Order/ list of supplies to the reputed Indian organisations.



- 1.8 The Board at its discretion may extend the last date of submission of tender and opening of tenders. The final authority for the acceptance of a Tender will rest with the Chairman, Central Pollution Control Board, Vadodara who does not bind himself to accept the lowest tender and is vested with the authority to reject any or all of the tenders received without assigning any reason.
- 1.9 Documents, literature, diagrams/leaflets, etc., enclosed in the Tender shall become the property of the Central Board without any payment.
- 1.10 All the supplied, installed and commissioned items alongwith its performance shall have atleast one year warranty. Under this warranty upon the receipt of such notice supplier shall within the period specified, repair/replace the defective equipment at the site of installation. The supplier/agent shall take over the replaced parts/goods, in the event of any correction of defects or replacement of defective material. In such cases, the warranty for the corrected/ replaced materials shall be extended till the left over period of warranty. The Warranty/ Guarantee for the complete system for a period of one-year reckoned from the date of handing over the successfully commissioned both the system to CPCB. Being a specialised system and work, the successful bidder should also have to ensure the availability of spare parts for at least 05 years on as and when required basis at reasonable cost.
- 1.11 The Tender would be regarded as turned down, if no award of contract has been obtained till the expiry of the Tender validity. No separate communication will be made in this regard.
- 1.12 The items have to be supplied in standard packing.
- 1.13 If the last date for sale, submission and opening of Tenders falls on any Government declared holidays, the next working day at the same time will be considered as last dates of the same.
- 1.14 The bid shall contain no interlineations, erasures or overwriting words except as necessary to correct errors made by the bidder, in such case, correction shall be initialled by the person or persons signing the bid.
- 1.15 Late and delayed tenders will not be considered and shall be returned to the bidders as such.
- 1.16 It is advised that the bidders should send the Tender through Post or courier. The interested bidders should send the tender well in advance to avoid postal delay. CPCB will not be responsible for any postal delay.
- 1.17 Canvassing in any form will disqualify the Bid.
- 1.18 Request for the tender document for bidding through Telex, Telegram, telephone, Money Order and Tele-fax shall not be entertained.



1.19 The Tender Notice No. **ZOW/Tech-211/2016-17/** dated 11.05.2016 along with the item code number. (The item code number is given in the specification sheet against each items) must invariably be quoted in the bid and for further correspondence in this regard.

1.20 Correspondences: All the communication/ materials receipt should be in the name of **The Zonal Officer, Central Pollution Control Board, West Zonal Office, Parivesh Bhavan, Opposite VMC Ward Office -10, Subhanpura, Vadodara-390023.**

2.0 SUBMISSION OF BID

- 2.1 Language of bid, supporting documents and correspondences / literatures related to bid shall be English. Any printed literature/ brochure furnished by the Bidder written in another language shall accompany their English translation of its pertinent passages for the purpose of interpretation and English translation shall only be considered as final.
- 2.2 The bid must accompany Annexure-I, II and IV with Techno-Commercial part of Bid, tender fee in case of downloaded Document and Annexure- III along with 'Price' part of the Bid duly filled in and signed by the Bidder alongwith seal of the firm.
- 2.3 The Bidders are requested to quote the rates item-wise on FOR basis including total price of each item separately indicating the Govt. levies, and other expenditure item-wise. The freight charges and insurance shall also be borne by the bidder.

The entire responsibility / charges upto destination should be borne by the supplier. No C/D form will be issued against VAT / CST.

Bidder is expected to examine the bidding Documents carefully and are deemed to have received and read all documents. It shall be the responsibility of the bidder to request copies of any missing documents. Failure to do so will be at bidder's risk.

2.4 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 in to consideration. Prior to award of purchase order the buyer can call any details, explanation, regarding technical & financial aspect.

2.5 **IMPORTANT:-** BIDDER HAVE TO QUOTE RATES FOR ALL THE ITEMS ALONGWITH INSTALLATION, COMMISSIONING AND TESTING AGAINST ONE TENDER DOCUMENT. THE CENTRAL POLLUTION CONTROL BOARD RESERVES THE RIGHT TO ACCEPT THE TENDER IN FULL OR IN PART. THE SUCCESSFUL BIDDER SHALL BE RESPONSIBLE FOR SUPPLY, INSTALLATION, COMMISSIONING AND TESTING OF THE RING TESTING FACILITY AT THE CPCB LABORATORY LOCATED AT SUBHANPURA, VADODARA. ITEMWISE TECHNICAL SPECIFICATION AND PRICE SHOULD BE IN SEPARATE SHEETS i.e. THERE SHOULD BE SEPARATE ENVELOPE FOR EACH ITEMS CONTAINING TECHNICAL BID & EMD AND PRICE BID.



- 2.6 The Tender is to be submitted "single stage-2 envelope system" i.e. the first sealed envelope will contain the earnest money and full information required to judge pre-qualification, Complete details and specification of the equipments offered including the leaflets and catalogues, list of credentials with documentary evidence i.e., list of previous supplies etc., Income Tax Clearance Certificate, PAN Number, VAT/Sales Tax Registration No., self declaration for not being black listed, Commercial Terms & Conditions, EMD, etc. It shall be marked "Pre-qualifications, technical Bid No. **ZOW/Tech-211/2016-17/** dated 11.05.2016 due on 27.06.2016. The second envelope will contain only price quoted by the bidder in the form given at Annexure-III of this document and shall be clearly marked "Price Bid/ Financial Bid No. **ZOW/Tech-211/2016-17/** dated 11.05.2016. Both the above envelopes must be separately sealed and shall be kept in one envelope bearing the address of Central Pollution Control Board, Vadodara and super scribed with bold letter "**Tender for supply and commissioning of Ring Testing Facility & Static Injection System**" and mentioning our letter number and last date of submission of quotation. Unsealed tenders shall be summarily rejected. The senders address shall be mentioned in all envelopes. Otherwise tenders will not be considered.
- 2.7 Technical & Commercial part of the tender will be opened on due date i.e.28.06.2016 at 11:30 AM in the office of the Central Board Zonal Office Vadodara, in presence of the representative of the Tenderers who would like to present. Sealed Price part of technically and commercially qualified bid will be opened on a later date which will be decided by the Board on the same day or on a later date.
- 2.8 The bidders shall furnish as part of its bid, bid security in Annexure - IV for the amount mentioned below.
The bid security (EMD) shall be in form of Demand draft of Rs. 30,000/- (Rupees Thirty thousand only) from any nationalised bank of India in favour of Central Pollution Control Board payable at Vadodara. No Earnest money shall be accepted in any other form. The Indian agent/ representative should furnish an authorization letter from their foreign principal supplier (if any) to deposit the EMD on their behalf. The EMD shall be forfeited if a bidder withdraws or amends the tender in any respect within the period of validity of his tender or fails to supply, install and commission within the specified period in the tender document. Tender shall not entertained where a bidder has not furnished adequate EMD in the prescribed and acceptable form. In case, the instrument supplied is found defective and not attended by the supplier/ authorised agent, the EMD deposited by the supplier / their representative will be forfeited.
- 2.9 The Firm who seek exemption from depositing earnest money being small scale industry, being registered with NSIC, DGS&D and other Government agencies which entitle them for exemption must submit the valid Registration Certificate. The copy of Government Notification granting exemption from deposit of EMD must be submitted along with the Techno-commercial part of the bid EMD exemption will be granted to only to those items specified in the certificate of registration.
- 2.10 Unsuccessful bidders bid security (EMD) will be returned without any interest in the same form after the purchase is finalized or within two months whichever is earlier



and that of successful bidders will be discharged without interest within one month of the successful installation and commissioning of the equipment/ items and furnishing the Performance Bank Guarantee.

- 2.11 The validity of Tender would be for a minimum period of 90 days from the date of opening of Tenders. A Bid valid for a shorter period may be rejected by the Board as non-responsive. In case the validity is to be extended; the Board may solicit the Bidder's consent for an extension on the period of validity and the bid shall remain valid for the extended mutually agreed period.
- 2.12 The rates should be quoted both in words and figures.
- 2.13 Arithmetical errors will be rectified in following basis: If there is discrepancy between the unit price and total price that is obtained by multiplication of the unit price and quantity and inter item summations, the unit price shall prevail and the total price shall be corrected. If there is discrepancy between words and figures, the amount in words will prevail.
- 2.14 Tenders not in proper sealed cover or received through tele-graphically or E-mail fax/telex will be rejected.
- 2.15 Conditional Tenders will be rejected without assigning any reason.
- 2.16 The Bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person duly authorized to the Contract. The letter of authorization should bear the signatures of only the authorized person of the firm. All pages of the Bid, except for un-amended printed literature shall be initialled by the person or persons signing the bid.
- 2.17 To assist in the examination, evaluation and comparison of bids CPCB may, at its discretion, ask the Bidder for a clarification of its bid. However, no change in the price or substance of the bid shall be sought, offered, re-permitted.
- 2.18 Eventual suggestions for modification or subsidiary Tenders are principally not admissible.
- 2.19 The specifications are clearly mentioned in the document and the Bidder is requested to submit Bid only if their offer strictly comply these specifications. Please note that no deviation in the required specification will be permitted. The bidding for the items 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.
- 2.20 The placement of work order/ purchase order will be according to technical evaluation of the Tender and after consideration of its price worthiness.



- 2.21 The price to be given in the Tender are fixed prices, irrespective of rise in Materials prices and increase in taxes etc., till the delivery of the overall consignment. No request in regard to increase in the price of instruments or in taxes etc. will be entertained after the submission of the tender.
- 2.22 The supplier should attach a copy of financial bid/ Proforma invoice of the items quoted (without cost/ price figures) along with the technical bid to assess the items/ components quoted in the bid.
- 2.23 The nomenclature of the items will be invariably same in Proforma Invoice, Invoice, Packing list and all other relevant papers in case the Bidder is awarded with the purchase order for supply against its offer.
- 2.24 With the submission of his Tender the Bidder accepts all the conditions of the Tender.
- 2.25 If the items supplied are not in conformity with the specification other than asked for, it will have to be replaced at the risk and cost of the supplier. No Freight and other charges for export (if any) and re-shipment will be paid by the Board. Part supply will not be accepted.
- 2.26 The authorised Indian agent/ representative should have minimum two years continuous agency/ partnership / joint venture/ participation or collaboration with their principal foreign supplier. The documentary proof of such agency ship/ authorisation/ MOU should be submitted alongwith the technical bid. The bid if the firm does not contain the proof of such nomination/ authorisation as Indian agent will be rejected.
- 2.27 The installation of the instruments is the entire responsibility of the supplier. It must be done either by the supplier or their authorized agents within one month of the receipt of the instruments by the Board. The supplier or their authorized Agent should be in touch with the Zonal Officer, CPCB Vadodara to know the exact day of receipt of stores supplied/ dispatched by them.
- 2.28 The detailed specification of the instrument alongwith quantity is given in the tender document at **Annexure–V**. The quantity mentioned in the tender document may be increased or decreased at the discretion of the Competent Authority in the Central Board without assigning any reason.
- 2.29 Each and every folio of the Tender must be signed by the bidder.
- 2.30 The Bid shall be considered only for that supplier who quotes the rates for all the items. The Board further reserves the right to accept the Tender for all the items or some of the items for which the Tenderer has quoted the Bid. The bidder should provide a separate complete list of spares and consumables required for operation and maintenance of the facility atleast for three years alongwith the price list and manual (if any) for operation.



- 3.31 The bidder should provide a complete list of spares and consumables required for operation and maintenance of the facility separately alongwith price list.
- 2.32 The bidders should quote the charges for annual maintenance contract after the warranty period for the complete ring testing facility.
- 2.33 The materials to be used in the work (Ring Testing Facility& Static Injection System Development) for which Tenders are invited will have to be supplied within 60 days from the date of purchase order.
- 2.34 The after sales service is most important to be considered for comparison of the bids. Bid of those firms who do not have sufficient infrastructure facilities to provide after sales service during warranty period will not be considered.
- 2.35 The price should be quoted in Indian rupees and should be quoted on FOR CPCB basis and in case of any item imported; the price should be quoted on FOB basis.
- 2.36 The foreign bidder must indicate the following information in their pro forma invoice along with the price bid separately
- (a) Country of origin
 - (b) Port of shipment
 - (c) Name and address of beneficiary Bank, Branch name with Account No. & SWIFT No.
 - (d) Minimum delivery period
 - (e) Whether trans shipment/ partner shipment is required or not.
 - (f) Agency commission, if any payable to the Indian agent, their complete address, email, telephone and fax number.
- 2.37 The items have to be supplied in standard packing and the same nomenclature as being given in specification. The foreign supplier should use minimum possible packets and should reduce the size of packing in volume to avoid extra demurrage in the bonded warehouse in India, if any.
- Important for foreign bidders- Bank Charges:** Two months time for shipment and further 21 day time for negotiation will be given. All Bank charges inside the country (in India) will be byers account and all bank charges outside country should be borne by the supplier/ beneficiary. The bidders may note this and quote the price of the instrument/ equipment accordingly. In case of foreign suppliers, they will have to ensure shipment of the consignment as per the validity of letter of credit established in this regard. In case of extension of supply date is sought, the bank charges towards the amendment L.C. should be borne by the supplier/ beneficiary.
- 2.38. The foreign Principal/ their authorised Indian agent shall intimate the buyer regarding the shipment well in advance. A copy of the invoice documents, air way bill, packing list, certificate of country of origin may be forwarded to the purchaser by fax immediately after shipment of the consignment to clear from custom authorities so as to avoid demurrage charges.



- 2.39 At any time prior to the deadline for submission of bids the buyer may for any reason whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents by an amendment.
- 2.40. The amendment if any will be brought to the notice in writing or by fax to all concerned bidders who have purchased the bidding documents and will be binding on them.
- 2.41 In order to afford prospective bidder, reasonable time in which to take the amendment into account in preparing their bids, the purchaser may at its discretion, extend the deadline for submission of bids.
- 2.42 The prices quoted should include basic price, taxes, packing forwarding, handling installation, testing and training charges etc. The other charges must be quoted clearly and not in vague terms like "As Actual" "Approx" etc.
- 2.43 If according to the Bidder, the Tender Documents contain unclear points which could influence price calculations, the bidder has to inform the authority who is issuing the call of Tenders before submission of its Tender, either in writing or by fax, even if he has pointed out this earlier in any other form/reference.
- 2.44 The Packing, Forwarding, charges must be quoted clearly in financial bid. The supplier shall be liable for any damage, theft or loss during transit. In all the cases the entire items are to be dispatched to CPCB west zone Office at Parivesh Bhawan, Subhanpura, and Vadodara and to be installed there by the supplier under intimation to CPCB office at Zonal Office Vadodara.
- 2.45 The delivery to the stores in case of foreign suppliers shall be taken at CPCB Vadodara subject to the facilities of port and customs clearance in the designated locations (will be mentioned in purchase order). The price indicated should be on FOB basis. Please note that proforma invoice should be item wise.
- 2.46 The warranty/ guarantee of the instrument/equipment should be clearly mentioned in the technical part of the Bid.
- 2.47 **Most Important:** Please note that Annexure-I, Annexure II and Annexure IV of this document must be enclosed with the first part of bid i.e. technical and commercial bid and Annexure III will be kept in second part of bid i.e. price bid.
- 2.48. Please note that it is not necessary to enclose the entire tender document (supplied by the Board) with your bid. Only Annexure -I, II, III and IV need to be enclosed as per instructions stipulated in Para 2.6 and other relevant paragraphs of this bid.
- 2.49 Prior to placing purchase order, in case the buyer desires to inspect the stores/instrument-equipment including demonstration, the same should be arranged by the supplier or their authorized Indian agent in the premises of the Central Pollution Control Board on free of charges.



- 2.50 The site for the work shall be made available for inspection on all working days. If any modification suggested during the inspection of the site shall be carried out as per requirement.
- 2.51 On acceptance of the tender, the name of the accredited representative (s) of the bidder/ contractor who would be responsible for taking instructions from CPCB shall be communicated to Zonal Officer, CPCB, Vadodara.
- 2.52 Within fourteen days of issue of letter of intent from the CPCB of the acceptance of its tender the successful tenderer shall be bound to execute the contract by signing in accordance with the draft agreement and schedule of conditions but written acceptance by the Employer of a tender will constitute a binding contract between the employer and the tenderer whether such formal contract is subsequently entered into or not.
- 2.53 A schedule of probable quantities in respect of such work and specification accompany these special conditions. The schedule of probable quantities is liable to alterations omission, deductions or additions at the discretion of the Employer. Each tender should contain not only the rates but also the value of each item of work entered in a separate column and all the items should be totaled up in order to show the aggregate value of the entire tender.
- 2.54 Defect, if any, found within 12 months after completion of work shall be rectified by the firm free of cost.

3.0 PAYMENT CONDITIONS

- 3.1 No advance payments will be made. All the payments will be made through account payee cheque only and in Indian currency (rupees) after receipt of material satisfactorily as well as installation and commissioning and production of bills/ invoice in duplicate alongwith CST/GST numbers. The 90% of payments will be released after installation and balance 10% will be released after satisfactory performance after completion of one year if the successful bidder fails to give the bank guarantee. If the bank guarantee is given for 10% of contract value, 100% payment will be released after successful completion of the work/ commissioning. The defective, substandard and contrary to the specification of the equipments supplied have to be replaced by the supplier at their cost and responsibility. In case of indigenous equipment quoted by Indian firms/ representatives/ Indian agents of foreign supplier/ manufacturers in rupee terms, the payment will be made in Indian rupees directly after satisfactory installation and commissioning of equipment. For the Indian supplier, no proposal for document and payment through Bank will be considered.
- 3.2. Single bill against the order as per supply/ purchase order mentioning complete details as indicated in relevant paragraph will be accepted.

4.0 SETTLEMENT OF DISPUTE

- 4.1 The decision of the Chairman, CPCB shall be final binding up on both the parties for the settlement of all disputes and differences arising out of or in connection with the contract



and works of any nature assigned under the same (whether during the progress of the works or after their completion, determination, abandonment or breach of the contract)

4.2 FORCE MAJEURE

Vendor shall not be considered in default if delay in delivery occurs due to causes beyond his control such as acts of God, natural calamities, civil, wars, strikes, fire frost, floods, riots and acts of usurped power. Only those causes which have duration of more than 7 calendar days shall be considered cause of force majeure. A notification to this effect duly certified by the Local Chamber of Commerce/Statutory Authorities shall be given by the Vendor to the buyer by registered letter. In the event of delay due to such cases a length of time equal to the period of force majeure or at the option of the buyer, the order may be cancelled. Such cancellation would be without any liability whatsoever on the part of buyer. In the event of such cancellation the vendor shall refund any amount advanced by the Purchaser and deliver back any material issued to him by the Purchaser and release facilities, if any, provided by the Purchaser.

5.0 INJURY AND DAMAGE

5.1 Injury or death of persons: The supplier shall be liable for and shall indemnify the Board against any liability, loss claim or proceedings whatsoever arising under any statute or law in respect of personal injury death or any disability caused by carrying out the works unless due to any act or neglect of the Board or of any person for whom the Board is responsible.

5.2. Damage to property: The supplier shall be liable for and indemnify the Board against and insure and cause any manufacturers and subcontractors to insure against any expense, liability, loss claim or proceedings in respect of any damage whatsoever to any real or personal property for any one occurrence in so far as such damage arises out of or in the course of or by reason of the carrying out of the works and is due to negligence, omission or default of the supplier or any person for whom the supplier is responsible or any manufacturers and subcontractors or person whom the manufacturers and subcontractors are responsible.

6.0 ROYALTY AND PATENTS

6.1. The supplier shall pay all royalties and licences fee for the use of any patented item, whether it may be an invention, method, arrangement, article, process or appliance used in connection with the performance of the contract. The supplier shall indemnify and save harmless the Board against any and all costs, damages and expenses of any nature or kind whatsoever which may arise out of or result from a claim by any person, firm or corporation that the manufacture, purchase, use of sale of any of the inventions, methods, arrangements, article processes or appliance used in connection with the performance of the Board, defend the Board against any suit brought to enforce any such claim at the suppliers expense.



- 6.2 In case any such patented item used on or in conjunction with the works is in suit held to constitute an infringement of its use enjoined, the supplier shall either secure for the Board the right to continue using the said item by suspension of the enjoyment, by procuring for the Board a licence or otherwise, or will replace such items with a non-infringing item or modify it so that it becomes non-infringing or with the Board's approval remove such said enjoined item and refund to the Board the sum paid thereof.

7.0 EFFECTIVENESS

This Contract shall come into force and effect on the date of the Letter of Award and shall be in force until the Works have been completed and all the payments have been made to the Supplier, except the obligation of the warranty period by the Supplier.



APPLICATION FORM

(To be filled by the bidder)

1. Name and full address of the Bidder including :
Telegraphic Address/Telex No. and Fax No.
2. Name and Designation of the Head of the :
Firm/supplier and his Telephone No.
3. Name, Designation, Address, Telephone & Fax :
Numbers of the Authorized Person who may be
contacted during the process of the purchase
concerned under this document
4. Whether the items are quoted for complete :
facility
5. Whether Earnest Money Deposited :
6. If yes, Demand Draft No, Date and name of :
issuing Bank
7. Validity of Tender :
8. If the tender documents are :
accepted in full (Yes or No)
9. Income Tax Clearance Certificate :
attached (Latest) (Yes or No)
with PAN Number

Place:

Date :

Legally Binding Signature with stamp



ANNEXURE-II

TECHNICAL BID FORM

S. No.	Code No. of item	Name of the equipment	Total compliance with the specification (Yes/ No)
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11			
12			

Note: Separate technical specification brochure / leaflet must be attached for justification.

(Signature with Date & Stamp of the Bidder)



Annexure IV

UNDERTAKING

To,
The Zonal Officer
Central Pollution Control Board
Zonal Office (west)
Parivesh Bhawan
**Opposite VMC Ward Office -10, Hariom Nagar,
Subhanpura, Vadodara (Gujarat)**

Sir,
I/We have examined the conditions of Tender Document and specifications of the instruments/ equipment. I/We, offer to supply, delivery and successful installation and commissioning of the following equipment:

S. No.	Code No. of Item	Name of the instrument/equipment
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		

(Please add additional pages, if required).

The above supply, installation shall be in conformity with the specifications and conditions of supply.

We undertake to deliver & installation of the instruments quoted within the period indicated by us in our offer if bid is accepted.

We agree to abide by Terms & Conditions of bid with validity of quoted prices **upto** **2013** from the date of bid opening and it shall remain binding upon us and may be accepted any time before expiration of that period.

We are hereby submitting a **Demand Draft for Rs..... in favour of "Central Pollution Control Board", Vadodara** towards the **Earnest Money Deposit..**

This Bid, together with your written acceptance thereof in your notification of award shall constitute a bidding contract between us.

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

Dated

Signature of authorized Person, Name with Stamp & full Address.)



General Specifications and Item Code Number

The detailed specifications given herein after are for the items of works described in the schedule of quantities attached herein, and shall be guidance for proper execution of works to the required standards. It may also be noted that the specifications are of generalized nature and these shall be read in conjunction with the description of items in the schedule of quantities and drawings. The work also includes all minor details of construction which are obviously and fairly intended and which may not have been referred to in these documents, but are essential for the entire completion in accordance with standard engineering practices.

Unless specifically otherwise mentioned, all the applicable codes and standards published by the Bureau of Indian Standards, latest revision and all other standards that may be published by them before the date of receipt of tenders, shall govern in all respects of design, workmanship, quality and properties of materials and methods of testing, method of measurements etc. In case there is no ISI (BIS) specification for the particular work, such work shall be carried out in accordance with instructions in all respects, and requirements of the client/consultant.

The contractor shall maintain, in perfect condition, all works executed till the completion of the entire work allotted to him. Where phased deliveries are contemplated, this provision shall apply to each phase.

The contractor shall clear the site of all scaffolding materials and rubbish, etc., left out of this work to the satisfaction of the client, before the work is considered as complete.

In case of any difference or discrepancy between the specifications/drawings and the description in the schedule of quantities, the schedule of quantities shall take precedence. In case of any difference or discrepancy between specifications and drawing, the specifications shall take precedence.

Site books/ Reports:

For the purpose of quick communication between the client, and the contractor, or his agent or representative, site instruction books shall be maintained at site in the manner as described below.

Any communication, relating to the works, may be conveyed through records in the site instruction books. Such communication from the consultant to the contractor shall be deemed to have been adequately served in terms of the contract. Each site instruction book shall have machine numbered pages in triplicate and shall be carefully maintained and preserved by the contractor. Any instruction or other orders that the client, may like to issue to the contractor may be recorded by him in the site instruction book and one copy thereof issued to the contractor.

Furnishing of reports, statements, returns, etc. by Contractor:

All reports, statements, returns, diagrams, or drawings, etc., which the contractor is required to submit during the progress of the works to the client, shall unless otherwise directed, shall be furnished in triplicate and at expense of the contractor.



Contractor to verify site measurements:

The contractor shall check and verify all the site levels and measurements whenever requested by other specialized contractors to enable them to prepare their own shop drawings and pass on the information with sufficient promptness, so as to not delay the works in any way. A copy of all such information passed on, shall be given to the client.

Materials and samples:

1. Materials to be new.

All materials/fittings/equipment employed in connection with the permanent work shall be new and of the best quality and description of their respective kinds and shall conform to the relevant code (latest applicable standard) and to the approval of the client. The contractor shall be responsible to ensure that the materials used are suited to the specific conditions including the climate and environmental conditions prevailing at the site.

2. All proprietary material shall be of approved make and the type as stipulated. A list of approved makes is given at the end of the document. It will be deemed that the contractor has priced the respective items on the basis of those approved makes. However, it shall be the prerogative of the client to choose any particular make among the list as the most appropriate one and the contractor shall be bound to provide the same without any variation in the contract rate.

3. Approval of manufacturers:

Before ordering materials of any description, the contractor shall submit samples to the client along with the names of the manufacturers and/or supplier proposed and shall obtain approval thereof in writing from the client well in advance of commencement of work and procurement of materials for use at site.

4. Copies of Orders.

The contractor shall supply to the client in triplicate, copies of all orders placed by him for the supply of materials for any item of permanent work or materials for the fabrication thereof. The specialist sub-contractors also shall supply, through the main contractor, copies in triplicate of all orders they may place for items of work or materials for fabricating any article or thing for which they have been sub-contracted.

5. Samples of materials and work

a) Irrespective of the fact that some specific make or type of material has been specified, no material shall be supplied or used on permanent works until the samples of the same are prepared/submitted and have been approved in writing by the client.

b) In addition to special provision made hereinafter as to sampling and the testing of materials by particular methods, samples of all materials and work proposed to be employed in the execution of



the work may be called for at any time by the client and shall be submitted to the consultant for approval without delay by the contractor. The contractor shall arrange for the carriage of the same to enable the tests and analysis thereof to be made.

c) Samples of materials of all trades/disciplines supplied shall be such as to have a clear idea of the general type and characteristics of the whole of the materials to be used in the work. No plea regarding samples supplied being not representative of the whole of the material will be acceptable. In case it is not practical to bring or make the sample at the site office, the contractor shall arrange for inspection at the sub-contractor/ supplier's shop or works at his own cost. In the event of the contractor not submitting for the approval of the clients, samples of materials of satisfactory quality and workmanship, the client shall have the power to specify any particular manufacturer or merchant for the supply of such materials and the contractor shall, at no extra charge, obtain such materials from the said manufacturer or merchant. Before submitting samples for approval to the client, the contractor shall satisfy himself that it is in accordance with the requirement of the contract. The samples shall also be submitted sufficiently early for all procedures to be duly completed including rejection and resubmissions if required, so that the approved programmed construction is not adversely affected in any way.

d) Samples when approved will be retained by the client at the site office until the completion of the project and for this purpose, suitable labeled boxes for storage of samples shall be provided by the contractor.

e) The client shall be at liberty to reject all materials and workmanship at any stages, which are not at least equal in quality and character to such approved samples.

f) The contractor shall, when required by the client, furnish all information as to quality, weight, constituent substances, dimensions, levels, strength and description of the materials, test results, full and accurate records of the dimensions and positions of all new work and any other information necessary and works and give the consultant such other particulars as may be required promptly.

Inspection and testing of materials:

The client shall be kept informed as to the progress of all works being carried out or materials being manufactured, prepared or supplied so that he may be able to make such arrangements for inspection, testing and analysis as he may desire. Wherever considered desirable by the client, a representative shall be sent to contractor's, sub-contractor's and/or manufacturer's premises to test the materials or inspect their manufacture. The contractor shall attend to the client or his representative during such inspection to be carried out satisfactorily. Should the client decide not to send a representative to the said premises, the contractor shall obtain the manufacturer's certificate of test, proof sheets, mill sheets, showing that the materials have been tested satisfactorily in accordance with the requirements of the specification relating thereto, but neither omission of the client to send a representative, nor the production of the manufacturer's certificates of test shall affect the liberty of the client to reject after delivery of any material found not to be suitable or not in accordance with the specifications.



The contractor shall provide means of identification of the materials delivered at the site with the corresponding certificate of tests and manufacturing batch numbers.

As soon as the materials are delivered at the site, the client shall be informed. Notwithstanding any test that the client may direct to be carried out at the contractor's, sub-contractor's or manufacturer's premises, the client shall be at liberty to carry out any further test he may desire after delivery of materials at the site and may reject any or all materials which fail to comply with the approved sample or the required specification. Only after the approval of the materials delivered at the site, the same shall be used at the works and such approval shall not relieve the contractor for fulfilling his obligations under the contract.

The contractor shall prepare and provide such and as many test pieces of the various materials as the client may, from time to time, direct or as may be specified and the contractor shall analyze, test and weigh all materials in such manner and at such time or times and in such place or places as may be specified or directed by the client.

Materials shall be packed, transported, handled and stored on the site carefully and in a satisfactory manner so as to prevent any damage and deterioration of any kind, either during transit or storage. Certain perishable materials like cement, lime, fittings, doors, windows, glass etc., are stored in covered go downs to save them from sun, rain etc.

Rejected materials:

Should the client at any time condemn any material or goods intended for use in the works as:

- a) Being inferior to samples previously approved.
- b) Having deteriorated in transit or on storage or on the site so as to be no longer fit for incorporation in the permanent works.
- c) Not complying with the specification.

The contractor shall promptly remove all such material from the vicinity of the works to the satisfaction of the client and confirm in writing immediately after removal.

Should the client discover on the works, any material other than those approved, he may order their immediate removal from the site, and the contractor shall forthwith remove the un-approved materials from the site within 48 hours. Any works executed with inferior material is to be taken out and reinstated with approved material at the contractor's expense and within the contracted time period.

List of proprietary materials:

The contractor shall submit a comprehensive list of all proprietary articles and materials used in the works containing catalogues, reference numbers, colour shades, etc., and the manufacturer's and/or supplier's names, addresses, including a pricelist with effect to the site of works. This list in approved format shall be complete in all respects and shall be submitted together with the as-built drawings and operation and maintenance manuals.



Failure to submit the above list, shall defer issue of the completion certification.

Contractor to satisfy himself regarding all requirements:

The contractor shall satisfy himself as to the full extent and character of the works, supply and conditions affecting labour, materials and plant requirements of the Employer's safety and health regulations and all local conditions and restrictions affecting the works and provide for the same.

The responsibility of carrying out the works and the methods to be adopted under this contract shall rest solely with the contractor subject always to the approval by the consultant of the contractor's proposals. Such approvals shall not however relieve the contractor in any way of his responsibility for the proper execution of works in accordance with the contract.

Record drawings:

The client will issue two sets of drawings, site instructions, with sketches to the contractor for the items for which some changes have been made from the approved drawings. The contractor will mark the changes in the original drawings issued for the purpose earlier and keep record of all such changes including the changes in levels and dimensions as required at site and issued by written instructions of the client and shall keep the site drawings fully updated. Finally these drawings, with all revisions, shall be maintained as record drawings at site and all such revisions/corrections, shall be effectively reflected/incorporated in the as-built drawings to be submitted by the contractor as stated hereinafter and return these copies to the client for his approval. In case any revision is required, or the corrections are not properly marked, the client may point out the discrepancy to the contractor.

As-built drawings and completion photographs:

Two copies of the corrected as-built drawings shall be submitted to the client for his approval. The client shall return a copy of the same duly approved, if found satisfactory or advise the contractor on the changes required of discrepancies, if any. The contractor shall resubmit three copies after incorporating all the corrections, changes etc., as required. On receipt of the approved copy of these drawings, the contractor shall submit to the client, six prints/copies of the same along with one reproducible copy and as directed by the client for onward submission to the Employers unless otherwise stated. Before the works (or any section thereof) are completed in accordance with relevant provision of general conditions of contract and before submission of the last or final bill whichever is earlier, the contractor shall furnish to the client as-built drawings of the works as completed in sufficient details which in the opinion of the client will enable the Employer to maintain, dismantle, re-assemble and adjust all parts of the works. The contractor and his specialized sub-contractors shall submit as-built drawings for all the works including electrical and data cabling works and all other services if any, fabrications, installation equipments and their layouts, distribution systems and all other relevant information as required for approval of the client. On completion, the contractor shall engage a professional photographer to take external and internal views of the buildings/works. Four copies each (including negatives), of enlarged A4 size of these photographs shall be submitted to the client.



Care of works and properties:

The contractor shall so conduct his operations so as to not damage, close or obstruct any utility, highway, road or other property until permits thereof have been obtained. If facilities are closed, obstructed, damaged or rendered unsafe by contractors' operations, the contractor shall, at his own cost, make such repairs and provide such temporary guards, lights and other signals as necessary or required for safety and as will be acceptable to the client and/or the owner of the utility, highway, road or other property.

First aid service:

The contractor shall make his own arrangements for treatment of accident/casualties on the site in such first-aid units as may be thought necessary. The whole of the arrangements for the First Aid Service shall comply with local Health Authority Regulations and shall at all times be subject to the approval of the client and the contractor shall carry out any instruction given by the client in this respect.

Progress photographs:

The contractor shall arrange to take progress photographs fortnightly. The number and positions from which the photographs are to be taken shall be directed by the client.

Facilities, attendance, etc. on nominated subcontractors

Subletting of contract is not allowed. However for minor works, if any sub contractor is appointed, the contractors shall allow for the provision of facilities, attendance, etc., for the nominated subcontractors.

The facilities, attendance shall include:

- a) Storage facilities for plants, tools and equipment and products and materials
- b) The use of sanitary accommodation, medical and welfare facilities
- c) Facilities as described in clauses keeping site clean, providing drinking and construction water and proper lighting at worksite, access, scaffolding, hoist etc., thereof
- d) Watching and lighting and protection of their work as necessary.

Dispatch of material:

Material shall not be dispatched from the manufacturer's works or to the site without authority from the client. The client shall be informed prior to dispatching the materials.

Item Codes

The Ring test system is proposed to be developed in a room size of 15' x 15' (Ref. Fig. -5) and for this purpose following specified items are required. The successful bidder will have to assemble all the items as per plan. Actual quantity of the items shall be as per the site requirement, however estimated quantity of items for the Ring test sampling system shall contain the following item which is to be supplied and installed:-



Item Code	Name	Quantity	Specification
1	Gas Mixing Chamber with Ball cum Butt joint	01	Gas mixing chamber with 8 ports/nozzles and one ball cum butt joint for mixing the concentration gases in the ring test system (Ref. Figure -1)
2	L Glass Bend with Ball cum Butt joint at both ends	01	L- bend for ring test apparatus should have 23 cm and 40 cm butt joint on both ends (Figure-4).
3	Glass Splitter with ports and Ball cum Butt joint	06	Glass splitter of a total length 10 inch (250 mm) having 4 nozzles on one side and butt joint on another side for sampling purpose in ring test system (Figure -2)
4	Straight Glass Tube (Prices Per Feet)	44 meter	This is the approximate length. The actual length may be seen by visiting the CPCB Zonal Laboratory Vadodara. Straight glass tube of 1200mm length with butt joint on both sides and one butt T-joint after 28cm.
5	Ball cum Butt joint Male or Female (single)	50	Appropriate size to be fitted
6	Power Coated Clamps each set with SS Bolt & Nut.	30	
7	Teflon Ferrule with Lid for each Port	60	
8	SS Clamps for Holding Gas Mixing Chamber	01	
9	SS Clamps for Holding Glass Splitter	05	
10	SS Clamps for Holding Straight Glass Tube	40	
11	Wood Laminated Board 6''×8'(as used at Lucknow)	07	
12	MS Clamps for the board Mounting	10	
13	MS Clamps for wooden Board	20	
14	Glass Bottle of 120 Liter with Gas Injection System with metallic	01	A minimum of 120 litre capacity with gas Injection system and metallic stand for static volumetric dilution system. Glass bottle for static injection



	tripod stand (Static Injection System)		single neck on top, approximate volume 120 litre having centre neck to outer dia 184 mm, inner dia of 150mm buttress joint (glass ball should be properly annealed). The permissible recommended working pressure is 0.3 bar with stainless steel connector flange of 10mm thickness dully polished with five opening having centre hole of half Inch and sides four of 1/4 inch threading. One metal flange to hold the glass bottle and stainless steel plate with 6 nos. of nuts and bolts. The base of the glass bottle should be placed on the tripod metallic stand and should be fixed with the main metallic stand. The metallic stand/structure to hold the glass bottle shall be covered on all four sides with 10mm toughened glass for protection (Figure-3). The arrangement for glass bottle installation should be viewed together with figure 4 and 5.
15	Metallic Stand with Tripod	01	Appropriate size for holding the glass bottle. This may be seen in figure-3.
16	10mm Toughened Glass sheet	04	

- The straight glass tube, mixing chamber, L-bend, glass splitter should be joined with moulded powder coated clamps with suitable packing.
- S.S. clamp with S.S. nuts and bolts shall be used for holding the straight glass tube, mixing chamber, L- bend, glass splitter along the wall. Wherever required, SS or Powder Coated MS clamps should be used for Clamping.
- Proper threading shall be provided on all ports/nozzles of mixing chamber and glass splitter unit with Teflon ferule and plastic lid.
- The quantity estimated, specification and clamping provisions are indicative and not exhaustive. The schematic diagram in this regard is attached. Therefore, the bidders may visit CPCB Zonal Office Vadodara to obtain the clarity and calculate the exact quantity. The unit rates of above items may be quoted including supply and installation of ring test system.
- Medium Wall Boro-Silicate Glass Tube (outer diameter 42mm) to be used for the entire System.

Note: The tendering parties may like to see the same existing system in Air Lab of Central Pollution Control Board, Parivesh Bhawan, CBD Cum Office Complex, East Arjun Nagar, Delhi-110 032 or any other laboratory of CPCB Zonal Office before quoting the rates.



CHECK LIST FOR THE BIDDER

1. The firms should have past experience related to handing/fixing and installation of such type of Glass Tubes with leak checking system/facility.
2. Bid on original Tender form only.
3. EMD
4. Earnest money or necessary documentary proof for exemption of earnest money with the part 1 of the bid.
5. Price bid must be Part II of the bid in the form provided at Annexure III of the tender document.
6. The Basic Price, Taxes, Packing, Forwarding, Handling, Transportation Insurance, Installation charges etc. must be quoted clearly. Do not use vague terms like "As Actual, Approximately, etc".
7. Do not use the terms As per Specification of Tender Documents' in respect of instruments. There should be proper write up of production quoted for supported with printed leaflets literature.
8. With technical bid, the bidder should provide a copy of the price bid format (giving details of the items, accessories, spares etc.) without specifying the price other than one mentioned in annexure-III of this tender document.
9. Documents required to be attached by the bidder
10. Self-attested copies of following documents
 - (i) Self declaration as fabricator and or supplier of such type of items i.e. Ring Testing Facility and Static Injection System.
 - (ii) Evidence of atleast one similar type of installation in a reputed laboratory (list should be enclosed)
 - (iii) A copy of valid PAN No., Sale tax registration certificate, sale tax clearance certificate, etc.
 - (iv) Technical literature of the product offered.

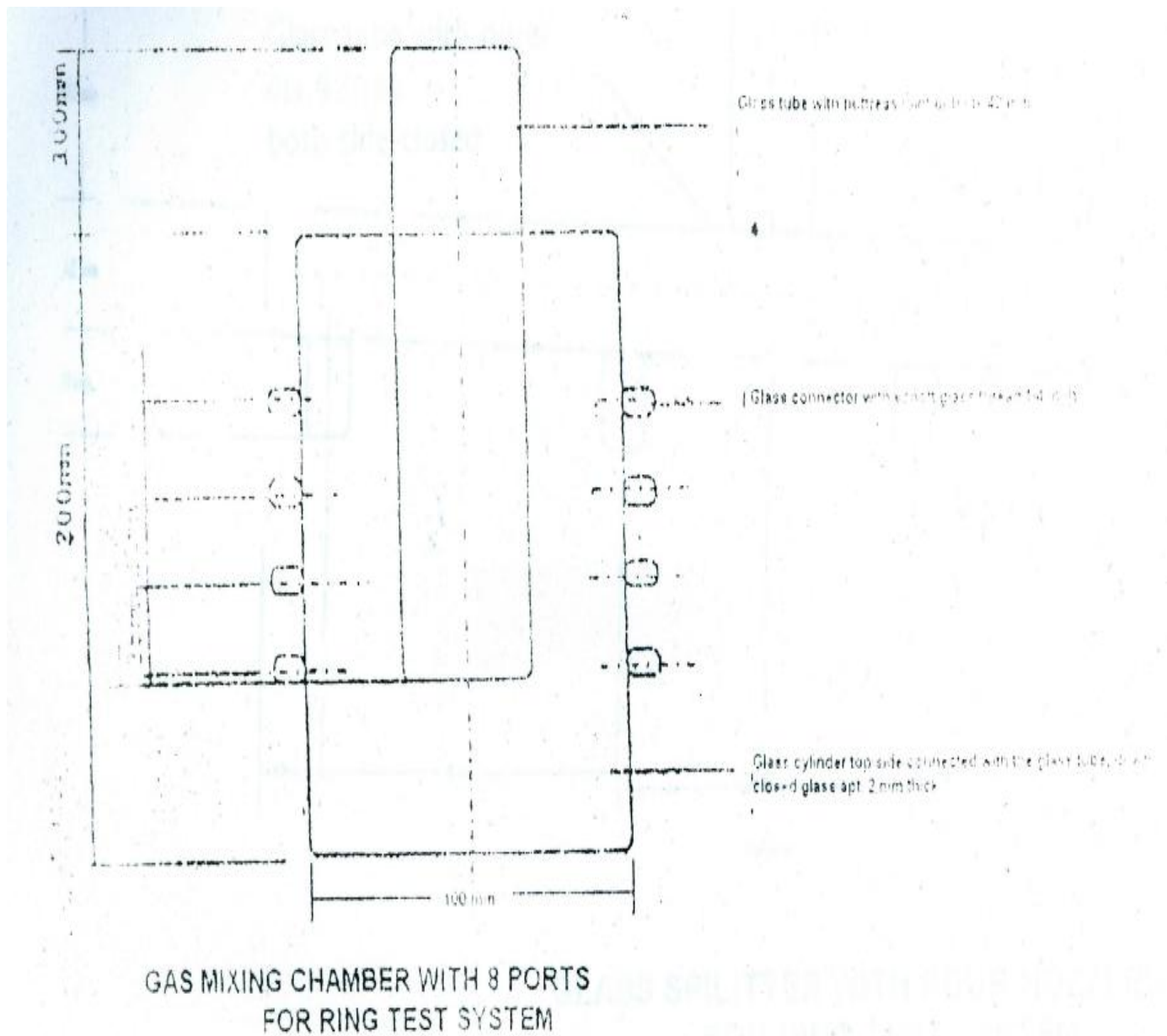


Figure 1. Schematic diagram of Gas mixing chamber with eight ports for ring test system.

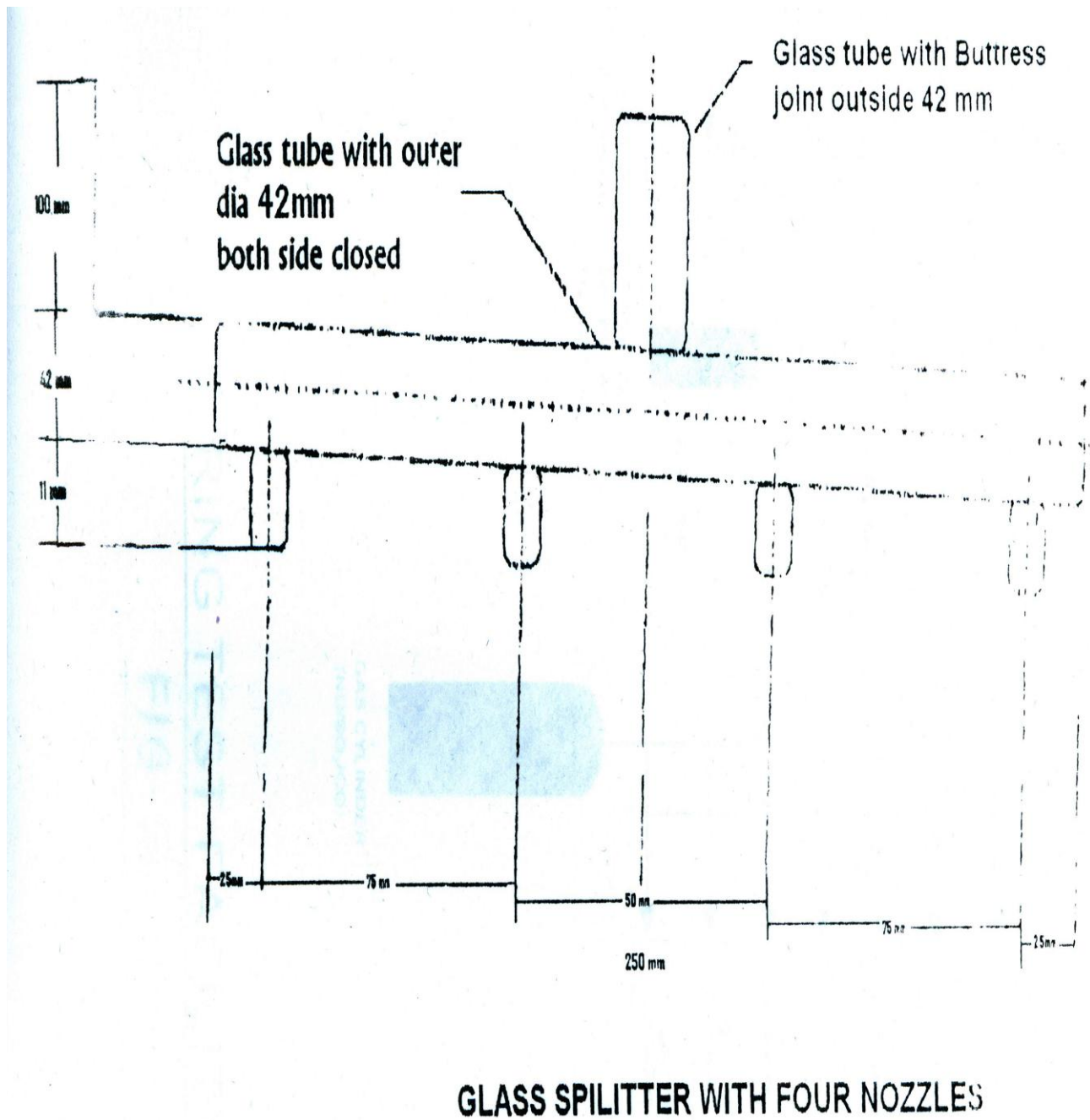


Figure 2. Schematic diagram of Gas splinter with nozzles (Ring Test System).

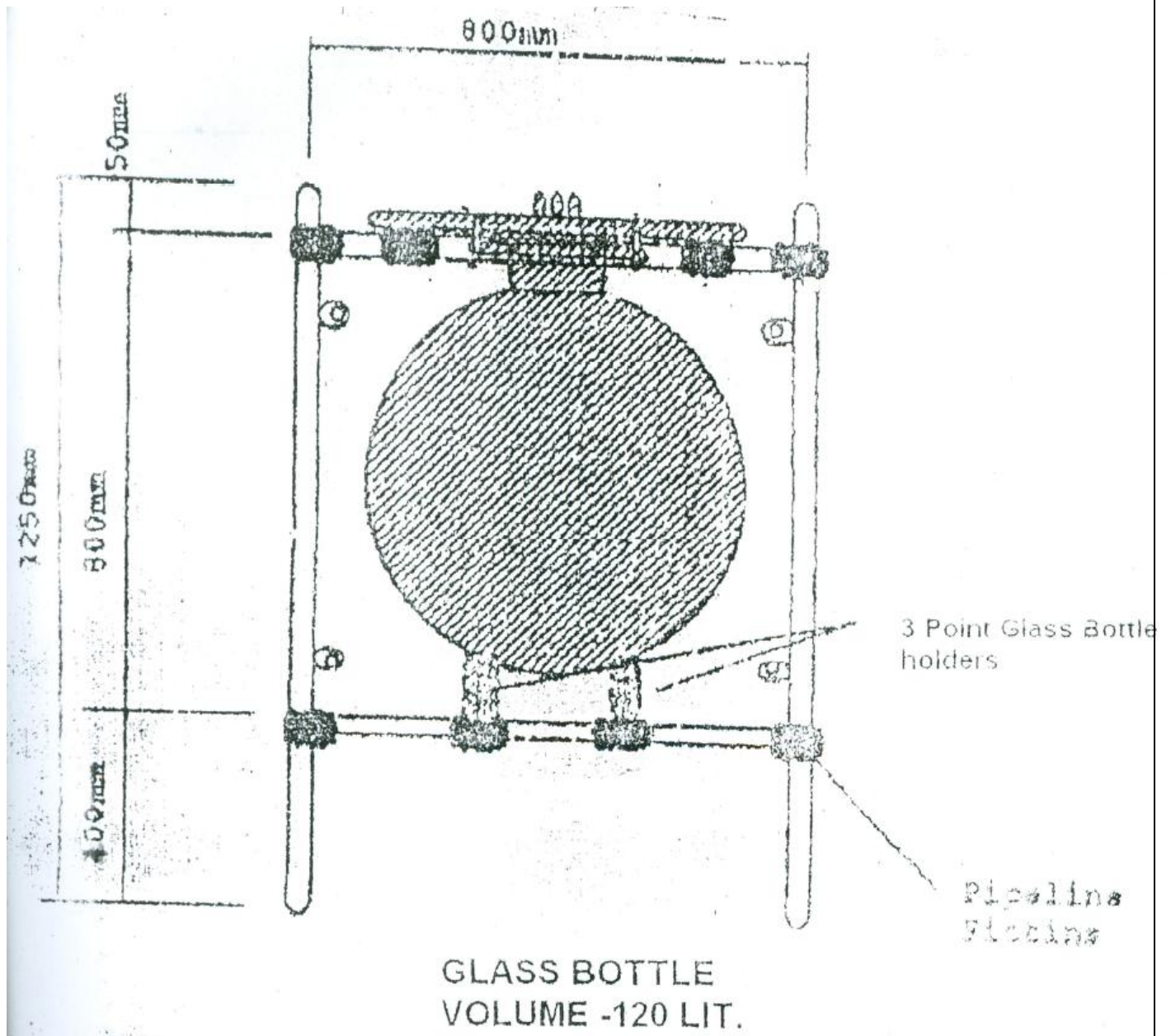


Figure 3. Schematic diagram of 120 litre glass bottle with tripod stand

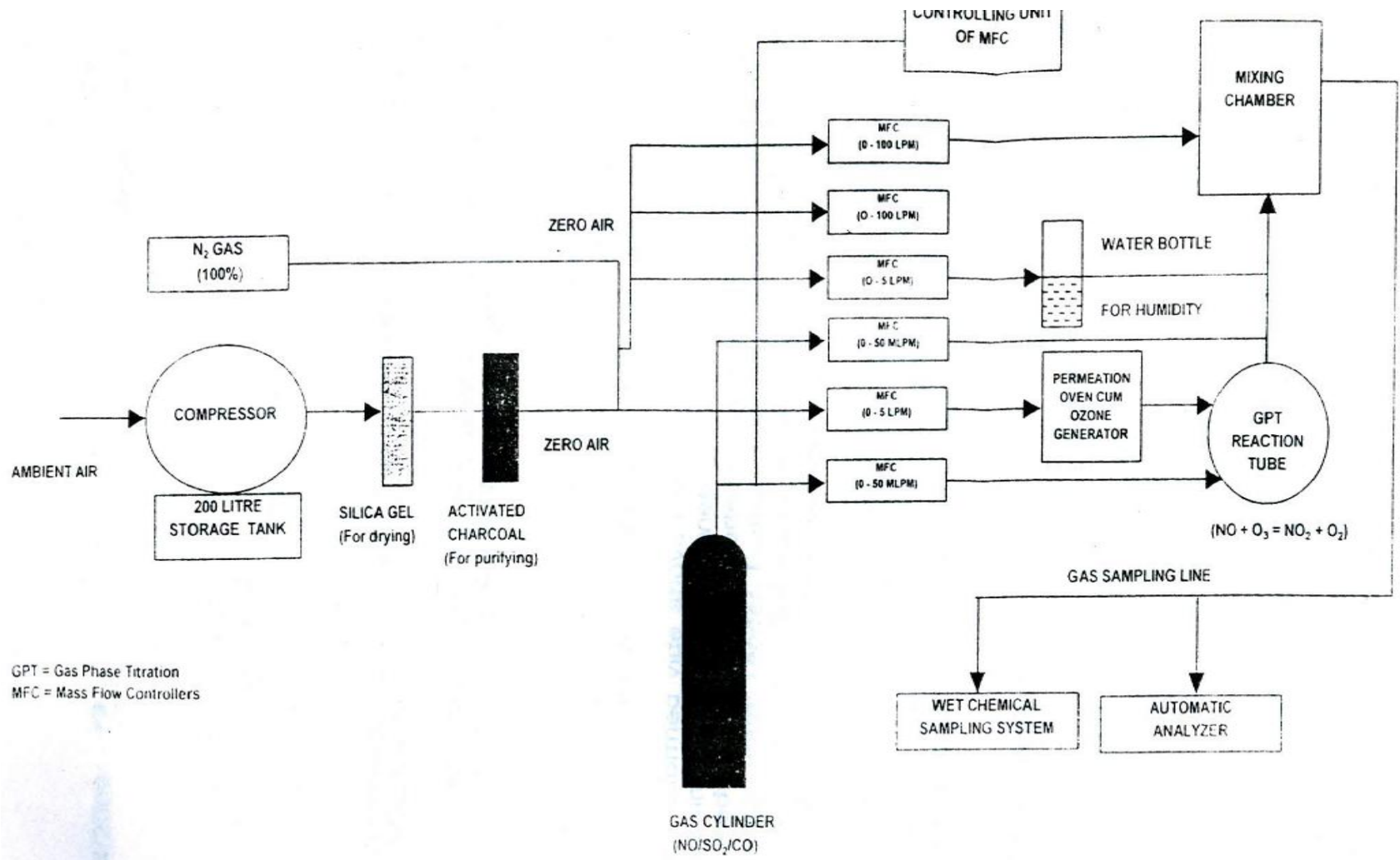


Figure 4. Schematic diagram of entire ring test facility

