

INVITATION OF BID

Local Competitive Bidding

Tender No. Laboratory Instrument (I/2006)

Dated : 25/1/2006

PURCHASE OF GAS CHROMATOGRAPH

MAHARASHTRA POLLUTION CONTROL BOARD

Kalpataru Point, 3RD & 4TH Floor,
Sion Matunga Scheme Road No.8
Opp. Sion Circle, Sion (East) , Mumbai-400 022.

Price Rs.5,000/- (Rupees Five Thousand Only)

MAHARASHTRA POLLUTION CONTROL BOARD**INDEX****PURCHASE OF GAS CHROMATOGRAPH**

Sr. No.	Content	Page No.
01.	Copy of advertisement	02
02.	Invitation of BID	03
03.	Time Schedule	04
04.	General Terms & Conditions	05
05.	Application Form (Annexure - I)	16
06.	Bid Form (Annexure - II)	17
07.	Undertaking (Annexure - III)	19
08.	Schedule "A" for Description of the items	20
09.	Schedule "B" for specification of the items	21

TENDER NOTICE

Maharashtra Pollution Control board, Kalpataru Point, 3rd & 4th Floor, Sion Matunga Scheme Road No.8 Opp. Sion Circle Sion (East) , Mumbai-400 022, intend to purchase Gas Chromatograph laboratory Instrument at Central Laboratory, Navi Mumbai, Sealed tenders from the manufactures are invited to reach to Central Laboratory, CIDCO Bhavan, 5th Floor, South Wing, CBD Belapur, Navi Mumbai by 14.00 hrs. on 27/02/06. Detailed tender terms & Conditions will be strictly as per the tender documents only. Tender documents shall be available at Central Laboratory on payment of Rs.5000/- by cash / demand draft in the name of Maharashtra Pollution Control Board from 27th January to 14th February 2006, during office hours. Documents are also available on website <http://www.mpcb.maha.nic.in> which can be downloaded for the purchase of submitting the bid. However in this case tender document fees of Rs.5000/- is to be attached with the bid in the form of demand draft in favor of Maharashtra Pollution Control Board, Mumbai.

**Sd/-
(Dr. D. B. Boralkar)
Member Secretary**

MAHARASHTRA POLLUTION CONTROL BOARD

**Kalpataru Point, 3RD & 4TH Floor,
Sion Matunga Scheme Road No.8
Opp. Sion Circle
Sion (East) , Mumbai-400 022.**

INVITATION OF BID LOCAL COMPETITIVE BIDDING TENDER NOTICE NO. LABORATORY INSTRUMENT (1/2006)

Dated : 25/1/2006

1. The Maharashtra Pollution Control Board invites sealed tenders from the manufactures for supplying of Laboratory instruments as described in Schedule "A" and specification given in Schedule "B".
2. The Bidder should have executed similar work during the last 5 years.
3. Interested eligible bidders may collect further information and collect the tender documents from Central Laboratory. M.P.C. Board, CIDCO Bhavan, 5th Floor, South Wing, CBD Belapur, Navi Mumbai-400 416.
4. The complete set of bidding documents may be purchased by eligible bidders on the submission of written application on payments, which is non refundable of Rs.5000/- (Rs.5500/- if required by post) Payment shall be made in the form of Demand Draft in favor of **Maharashtra Pollution Control Board** payable at Mumbai or by cash.
5. All bids must be accompanied by Tenders EMD and delivered on or before 22/02/2006 up to 15.00 hrs. At above address.
- 6. Bid will be opened in the presence of those tenders representative who choose to attend at 14.00 hrs. on 24/02/2006 at MAHARASHTRA POLLUTION CONTROL BOARD, KALPATARU POINT, 3rd & 4th FLOOR, SION MATUNGA SCHEME ROAD NO.8 OPP. SION CIRCLE SION (EAST), MUMBAI-400 022. Telephone Nos. 2401 0437, 2401 4701. 2402 0781, 2404 5589 & Fax : 2402 4068.**

Sd/-

Member Secretary

Maharashtra Pollution Control Board

MAHARASHTRA POLLUTION CONTROL BOARD

Kalpataru Point, 3RD & 4TH Floor,
Sion Matunga Scheme Road No.8
Opp. Sion Circle
Sion (East) , Mumbai-400 022.

LOCAL COMPETITIVE BIDDING TENDER NO. LABORATORY INSTRUMENT (I/2006)

Dated : 25/1/2006

NAME OF THE WORK : PURCHASE OF GAS CHIROMATOGRAPH

- | | |
|--|---|
| 1. Price of Tender Document | i) By hand : Rs. 5000/-
ii) By post : Rs. 5500/- |
| 2. Date of sale of tenders | 27/01/06 to 14/02/06 on all
working days between 11.00 a.m.
To 4.00 p.m. |
| 3. Date of Submission of tender | 22/02/06 up to 15.00 hrs. |
| 4. Date of opening of tenders | 27/02/06 at 14.00 hrs. |
| 5. Earnest Money Deposit | 1 % of the Tender Cost |
| 6. Security Deposit | 30 % of the Tender cost |

1.0 GENERAL TERMS & CONDITIONS :

- 1.1 This documents contain the following
- i) Copy of the Local Competitive Bidding Notice
 - ii) General Terms & Conditions of Bid
 - iii) Terms & Conditions of submission of Bid
 - iv) Payment terms
 - v) Application Form
 - vi) Bid Form
 - vii) Undertaking
 - viii) Schedule "A" for description of the items
 - ix) Schedule "B" for specifications
- 1.2 **The Tender Document is not transferable by the purchaser.**
- The Bid form supplied by the Board at Annexure-II in original only is to be used for bidding Bids made on photocopy etc. will not be considered. However the additional sheets containing the same proforma may be used. Each sheet is signed by the bidder. The price Bid must be in the form provided herewith at Annexure-II and be submitted along with the undertaking at Annexure - III.
- The Documentary evidence of the goods conformity to the bidding documents may be in the form of literature drawings and date and shall furnish.
- a) A details description to the goods should include essential technical and performance characteristics.
 - b) A list, giving full particulars, including available sources and current prices, of all spare part special tools etc. necessary for the proper and continuing functioning of the goods for a period of 2 years; and
 - c) A Clause-by-Clause commentary on the specifications, demonstrating the goods responsiveness to those specifications or a statement of deviations and exceptions of the provisions and specifications.
- 1.3 The Bid will not be accepted from the firm to whom the documents are not issued by the Board.
- 1.4 The Board undertakes 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 bid document or between the extended period of opening day, if any.
- 1.6 The bidder is expected to examine all instructions, forms, terms and conditions and specifications mentioned in the tender document. Failure to furnish all information required by the bidding document of submission of bid on substantially

responsive to the bidding document in every respect will be at the bidder's risk and may result in the rejection of tender. The bidder should have executed similar work during the last 5 years.

- 1.7 This call of bids does not bind the MPCB to place order. The bids submitted in response to this invitation may be rejected without assigning any reason.
- 1.8 The Board at its discretion may extend the last date of submission of bids and opening of bids. **The first authority for acceptance of a bid will rest with the Member Secretary, Maharashtra Pollution Control Board** who does not bind himself to accept the lowest bid and is vested with authority to reject any or all of the bids received without assigning any reason.
- 1.9 Documents, samples etc. enclosed in the bid shall become the property of the Maharashtra Pollution Control Board without any payment.
- 1.10 The warranty period is 12 months starting from the date of successful commissioning / working of the equipments.
- 1.11 The Technology of the instruments shall be current and shall continue to be operational for sufficient period to be mentioned in the offer. During this period, supplier shall give firm guarantee to supply spares on continuing basis. The bidder shall furnish an undertaking for uninterrupted and timely supply of spares on continuing basis. If spares are not supplied/made available and are required to be procured from market the difference in prices, if any on account of such risk purchase and loss of revenue to the Board on account of non-operation of the instrument due to delay in procuring spares shall have to be borne by the supplier. In case demand of compensation and/or extra cost to the Board is not made good within a period of one month it will be recovered as given in clause 2.28 of the bid document.
- 1.12 The items have to be supplied in standard packing.
- 1.13 In case of the date of opening of bid is declared as Public Holiday, the bid shall be opened on the next working day at the same time.
- 1.14 The bid shall contain no interlineations, erasures or overwriting of words except as necessary to correct errors made by the bidders, in which case such correction shall be initiated by the person or persons signing the bid.
- 1.15 Late and delayed bids shall not be considered and may be returned unopened to the bidder.
- 1.16 The bids may be dropped in the bid Box kept in MPCB Central Lab for the purpose. However the bidders may send the bids by registered A. D. at his risk as the bids not received within the day and time fixed shall be considered. In no case bid should be handed over to any employee of the Board.
- 1.17 Canvassing in any form will disqualify the bid.

- 1.18 Request for bid Document for bidder through Telex, Telephone, Money Order and Tele fax shall not be entertained.
- 1.19 The Bid Notice LABORATORY INSTRUMENTS (1/2006) Dated 25/01/2006 must be invariably quoted in bid and further correspondence in this regard.
- 1.20 All the bids should be addressed to THE MEMBER SECRETARY MAHARASHTRA POLLUTION CONTROL BOARD, KALPATARU POINT, 3RD & 4TH FLOOR, SION MATUNGA SCHEME ROAD NO. 8, OPP. SION CIRCLE. SION (EAST), MUMBAI - 400022. & be delivered at **Central Laboratory, M.P.C. Board, CIDCO Bhavan, 5th Floor, South Wing, CBD Belapur, Navi Mumbai.**

2.0 SUBMISSION OF BID

- 2.1 The bid prepared by the bidder and all correspondence and documents relating to the tender exchanged by the bidder and the MPCB, shall be written in English language, bid may be written in another language so long as accompanied by English, translation of its pertinent passage in such case for purposes of interpretation of the bid the English translation shall govern.
- 2.2 The bid must accompany Annexure-I with Techno Commercial part of bid and Annexure - II along with price part of the bid duly filled in and signed by the bidder along with the seal of the firm.
- 2.3 The bidders are requested to quote the rates item-wise and total price of each item separately indicating the Government taxes, levies, transportation (including packing, forwarding, loading and unloading) and other expenditure item-wise as free delivery at the place shown in Schedule "A". The bidder shall also indicate the annual maintenance charges for three consecutive years after warrantee period is over and details of services provided there of.
- 2.4 Bidder can quote the rate for all the items or some of the items. The Maharashtra Pollution Control Board reserves the right to accept the bid in full or in part.
- 2.5 The bid is to be submitted in Single stage - 2 envelopes system, i.e. the first sealed envelope will contain full information required to judge pre-qualification, earnest money, complete details and specification of the items offered including the leaflets and catalogues, list of credentials with documentary evidence, i.e. purchase/work order etc. Income tax Clearance Certificate, Sales Tax Registration No. Affidavit for not being black listed, commercial term and conditions etc. It shall be marked "Pre-qualification" technical and commercial Bid No. Laboratory Instruments (1/2006). The second envelope will contains only price quoted by the bidder in the form given Annexure - II of this documents and shall be clearly marked "Price Bid No. Laboratory Instruments (1/2006). Both the above envelope must separately be sealed and shall be kept in one envelope bearing the address of Maharashtra Pollution Control Board and super scribed with bold

letter **BID FOR SUPPLY OF LABORATORY INSTRUMENTS (1/2006). FOR CENTRAL LABORATORY (NOT TO BE OPENED BEFORE DTD. 27/02/2006)**

- 2.6 Technical and commercial part of the bid will be opened first and on due date, i.e. 27/02/2006. In the office of the Maharashtra Pollution Control Board in presence of the representative of the bidders who choose to be present. Sealed price part of technically and commercially acceptable bids will be opened on the same day if possible or on a later date which will be communicated by the Board on the same day or on a later day by post.
- 2.7 The Bidders are to deposit the amount 1% of the value of items quoted towards the Earnest Money along with bid in the form of Bank Draft only in favor of **“MAHARASHTRA POLLUTION CONTROL BOARD” payable at State Bank of India (Matunga Branch), Mumbai**. No Earnest Money shall be accepted in any other form. The Earnest Money shall be forfeited if a bidder withdraws its bid before validity specified in bid documents or fails to supply the instruments within specified period in bid document. Bid shall not be entertained where a Bidder has not furnished adequate Earnest Money in the prescribed acceptable form. In case the instrument delivered is found defective and not attended to by the supplier, the earnest money deposited by the supplier will also be forfeited. If supplier fails to supply the equipment so ordered within the specified time EMD will be forfeited.
- 2.8 The firm who seek exemption from depositing earnest money being small scale industry registered with DGS&D and other Government agencies which entitles them for exemption must submit the valid Registration Certificate covering the items offered by them along with the permissible value. The copy if Government Notification granting exemption from deposit of EMD must be submitted along with the first part of the tender along with the bid.
- 2.9 The Earnest Money of the unsuccessful bidder will be refunded without any interest after the concerned purchase if finalized or within three month.
- 2.10 Successful bidder will have to pay Security Deposit of 30% of the total cost of accepted bidding in the form of Bank Guarantee valid for twelve months. This Bank Guarantee can be invoked in case of delay in supply beyond period specified in the order, not conforming performance as per specifications given in the bid.
- 2.11 The validity of bid would be for a minimum period of 180 days from the date of opening of bids. A bid valid for a shorter period may be rejected by the Board as not responsive. In case of extension of validity period of the bid the Board may solicit the bidder's consent for extension of the period mutually agreed upon.
- 2.12 The rates should be quoted both in words and figures.

- 2.13 Arithmetical error will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying 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 Bids not in proper sealed cover or received telegraphically will not be entertained.
- 2.15 Conditional bids 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 or persons with due authorization should bear the signatures of only the authorized person of the firm. All pages of the tender except for unlamented printed literature shall be initiated by the person or persons signing the bid.
- 2.17 To assist in the examination, evaluation and comparison of bids the Board 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 The specifications are clearly mentioned in the documents and the bidders 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 risk as the Board will not entertain such bids. **BIDS CARRYING THE STATEMENT LIKE "SPECIFICATION AS PER BID DOCUMENT MAY NOT BE ENTERTAINED".**
- 2.19 The Placement of Purchase Order will be according to Technical evaluations of the bid and after consideration of its price worthiness.
- 2.20 The price to be given in the bids are fixed prices, irrespective of rises in material prices and increase in taxes or any statutory increase etc. till the receipt of the consignment to the Board. No request in regard to increase in the price of items or in taxes etc. or any statutory increase etc. will be entertained after the submission of the bid.
- 2.21 The nomenclature of the instruments and spares will be invariably same in Proforma invoice, Packing list and in other relevant papers.
- 2.22 With the submission of bid the bidder accepts the conditions of the bid.
- 2.23 If the item/s supplied is/are of the specification other than asked for and/or substandard quality to that mentioned in the supply order it will have to be replaced at their risk and cost. No freight and other charges for export/import and reshipment etc. will be borne by the Board.

- 2.24 The installation of the items is the entire responsibility of the supplier. It may be done either by the principal/supplier or their authorized agents within one week of the receipt of the items by the Board. The supplier or the agent should be in touch with the concerned authorities at the place of dispatch and in case of difficulties bidder may contact **LABORATORY INCHARGE SENIOR SCIENTIFIC OFFICER CENTRAL LABORATORY MAHARASHTRA POLLUTION CONTROL BOARD, CIDCO BHAVAN, 5TH FLOOR, SOUTH WING, CBD BELAPUR, NAVI MUMBAI - 400416. TELEPHONE 2751678, 27571054, 27570290 (Fax).**
- 2.25 The list of items quantity and places given in this document in Schedule "A" along with the detailed specification of the instruments in Schedule "B". The quantity mentioned in the bid documents may be reduced or increased at the discretion of the Maharashtra Pollution Control Board without assigning any reason. The Board may place order for only one piece for testing by the Committee of group of officers appointed by MPCB and place order for remaining quantity depending on report of the Committee. Bidder/list representative can remain present at the time of inspection but the decision taken by the Committee in this regard will be final.
- 2.26 Each folio of the bid must be signed by the bidder
- 2.27 Bidder can quote the rates for all the items or some of the items. The bid shall be considered only for those items for which the rates have been specifically quoted. The Board further reserves the right to accept the bid for all the items or some of the items or some of the items for which the bidder has quoted the bid.
- 2.28 The items for which offers are made and accepted will have to be supplied within 30 days from the date of issue of supply order. In case of nonobservance of delivery period of supply not in accordance with the supply order the supplier has to pay default compensation at the rate of 0.5 percent of the total value of order per concluded week and/or part of the week if the default, but not exceeding 5 percent of the total value of order. In addition, for delay in supply by weeks as calculated @ 5% beyond the stipulated period of 30 days from the date of placement of supply order, the Board reserves the right to cancel the order and/or purchase the balance quantity (items not supplied) from open market at the cost and risk of the supplier to whom initial order was placed and the difference in prices, if any, on account of such purchase, shall have to be borne by the supplier. In case demand of compensation and/or extra cost to the Board is not made good within a period of one month by the bidder, it will be recovered from the pending bills, E.M.D. and/or arrears of land revenue.
- 2.29 After sales-service is most important aspect to be considered for comparison of bid. The bidder having service centers all over Maharashtra will be given preference at the time of consideration of the bid. In case, the bidder is not an authorized agent of the

company for which the bid has been made the bidder should arrange for the installation, warranty service, operational training, after sales service, etc. including free training to the staff of the Board through the authorized agents. Confirmation of the above may be provided with the technical bid failing which the bid will not be considered. The details of after sales service after warranty period shall be given as mentioned in Annexure-II.

- 2.30 At any time prior to the deadline for submission of the bids the Board may for any reason whether at it's own initiative or in response to a clarification requested by a prospective bidder, modify the bidder documents by amendment.
- 2.31 The amendment if any will be brought to the notice in writing or by telex or cable to all concerned bids that have received the bidding documents and will be binding on them.
- 2.32 In order to afford prospective bidder reasonable time in which to take the amendment into account in preparing their bids, the Board may at its discretion, extend the date for the submission of bids.
- 2.33 The price must be quoted item wise i.e. basic price, taxes, packing, forwarding, handling and transportation charges, insurance, installation charges, etc. the charges must be quoted clearly and not in vague terms like "As actual", "Approx", etc.
- 2.34 If according to the bidder, the tendered documents contain transport charges must be quoted according to the place of delivery as mentioned in the Schedule-A. The supplier will be held liable for any damage, theft or loss during transit. The instruments are to be delivered and installed at the location given in Schedule-A under intimation to the

**LABORATORY INCHARGE SENIOR SCIENTIFIC OFFICER
CENTRAL LABORATORY MAHARASHTRA POLLUTION
CONTROL BOARD, CIDCO BHAVAN, 5TH FLOOR, SOUTH WING,
CBD BELAPUR, NAVI MUMBAI - 400416. TELEPHONE -
27571678, 27571054, 27570290 (FAX) .**

2.35 MOST IMPORTANT :

Please note that annexure-I of this document must be enclosed with the first part of bid, i.e. "Technical and commercial bid and annexure-II and III" will be kept in the second part of the bid i.e. price bid.

- 2.36 Please note that there is no need to enclose the entire bid document (supplied by the Board) with your bid only annexure-I, II, III need to be enclosed as per instruction stipulated.

3.0 PAYMENT CONDITIONS:

3.1.1 The payment will be made after 30 days of the receipt of report of competent authority about the satisfactory performance testing of the instrument(s) the material in good condition and its satisfactory installation and performance, if the material is found defective or of substandard or not to the satisfaction of the competent authority, the same will be replaced by the bidder at his own cost.

4.0 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, floods, riots, etc. In the event of delay due to such causes delivery schedule will be extended for a length of time equal to the period of force majeure at the option of to Board the order may be cancelled. Such cancellation would be without any liability whatsoever on the part of the Board.

5.0 WARRANTY: The materials supplied under this contract shall be of the best quality and workmanship and shall be strictly in accordance with the specifications and particulars mentioned in the clauses of the bid. The contractors will have to guarantee that the said material would continue to conform to the specification and perform satisfactorily for a period of 12 months from the date of installation/commissioning of the material and that notwithstanding the fact the Board may have inspected and/or approved the said material discovered not to conform to the description and quality mentioned in the bid or have deteriorated (decision of the Chairman of the Board will be final and conclusive), the Board will be entitled to reject the said material or such portion of the material which may be discovered not to conform to the specifications and quality mentioned in the bid. On such rejection the material will be at the Contractor's / Supplier's risk and of the provisions herein contained relating to rejection of goods etc. shall apply. The Contractor's / Supplier's if so called upon to do so, replace the material etc. or such portion thereof as is rejected by the Chairman of the Board free of cost at the ultimate destination, otherwise the Contractor / Supplier shall pay to the Board such damage as may arise by reason of breach of the condition herein contained. Nothing herein contained shall prejudice any other right of the Board in that behalf under this contract or otherwise. On failure to make the loss good to the Board, within 15 days from the date of demand, it will be recovered as arrears of Land Revenue.

6.0 JURISDICTION: In case of any dispute, the Mumbai Court alone will have the jurisdiction to try the suit on contract.

ANNEXURE - I
MAHARASHTRA POLLUTION CONTROL BOARD
Application form
(To Be Filed By the Bidder)

- 1) *Name and full address of Bidder Including telegraphic address/TelexNo. and Fax No. :*
- 2) *Name and designation of the Head of The Firm/Supplier and his Telephone No. :*
- 3) (i) *In case the supplier is located out of Mumbai, his contact address/ authorized distributors or agents address in Mumbai, if any. :*
(ii) *Name designation, address Telephone No. of the authorized person who may be contacted during the process of the purchase concerned under this document (applicable for all the suppliers) :*
- 4) *The total value of tender submitted :*
- 5) *Earnest Money Deposited (Reply in Yes or No) :*
- 6) *If yes, Demand Draft No., Date and Name of issuing Bank :*
- 7) *Validity of Tender :*
- 8) *If the Tender conditions are accepted in full (Reply in Yes or No) :*
- 9) *Income Tax clearance certificate attached (latest) (Reply in Yes or No) :*

Place :

Date :

Legally binding signature with stamp

ANNEXURE - II**BID FORM****DETAILS SHOWING QUANTITY, SPECIFICATION AND OTHER DETAILS OF THE ITEMS OFFERED.**

(To be filled by the bidder and must be kept in "Price Tender" part of the tender.)

Sr. No. of the Items as per Tender document	Name of items	Specification offered By the bidder	Difference in specification of tender document and that of bid, if any	Quantity in the tender	Rate	Cost	Taxes and other (Insurance and freight etc.) may be shown separately	Total Cost

Signature with seal of the firm

NOTE: If this sheet is not sufficient to accommodate the bid the additional sheets containing the same pro-forma may be used but all such sheets including this one must be signed by the bidder with the seal. In case of foreign bidder this Annexure must enclose pro-forma invoice item wise.

Commission/ Retainer fee to agent (in Rs. Only)
(Kind of services for commission paid)

Maintenannace charges after warranty period

1stYear 2nd Year 3rd Year

- 1) Service with components/Parts
- 2) Service without Components/Parts
- 3) Manner of service
- 4) Periodicity
- 5) Any other Condition

ANNEXURE – III**UNDERTAKING**

Date:

Tender Notice No.

To,**Member Secretary,**

Maharashtra Pollution Control Board
 KALPATARU POINT, 3rd & 4th floor,
 Sion Matunga Scheme Road No. 8
 Opp. Sion Circle, Sion (East),
 Mumbai – 400 022

Sir,

Having examined the conditions of Tender Documents and specifications of the instrument, the receipt of which is hereby acknowledged, we the undersigned offer to supply, deliver and install the following with successful working of instruments/equipments.

Sr.No.	Particulars	Type of Instrument	Calibrated from / Date of Calibration
---------------	--------------------	---------------------------	--

1

Please add additional pages, if required.

The above supply, installation shall be in conformity with the specifications and conditions of supply for a sum of Rs. _____/- (Rupees _____ only) we undertake if our tender is accepted to deliver the items quoted by us, we shall deliver and install within the period of supply indicated in the tender.

We agree to abide by this tender and it shall remain binding upon us.

We are submitting a Demand Draft for Rs. _____/- (Rupees _____ only) in favor of Maharashtra Pollution Control Board payable at State Bank of India, Matunga Branch, Mumbai, towards the Earnest Money.

This bid, together with your written acceptance thereof in your notification of reward shall constitute a tendering contact.

Date this _____ day of _____ 2006.

Signature of Authorized person
 With stamp & full address

*SCHEDULE - A***MAHARASHTRA POLLUTION CONTROL
BOARD**

Kalpataru Point, 3RD & 4TH Floor,
Sion Matunga Scheme Road No.8
Opp. Sion Circle
Sion (East) , Mumbai-400 022.

NAME OF WORK: SUPPLY OF INSTRUMENTS

Sr. No.	Instrument	Quantity Nos
01.	Gas Chromatograph	3 Nos.

Above items shall be supplied as shown in address given below.

- 1. Regional Laboratory (One Nos. of GC) -** Chiplun Parker Complex, 1st Floor, Near Chiplun Municipal Council Office, Chiplun, Dist. Ratnagiri.
- 2. Central Laboratory (Two Nos. of GC) -**
Plot No. P-3, Part 3, Sheel-Mahape Road, TTC
Industrial Area, Mahape, Navi Mumbai.

*SCHEDULE - B***MAHARASHTRA POLLUTION CONTROL
BOARD**

Kalpataru Point, 3RD & 4TH Floor,
Sion Matunga Scheme Road No.8
Opp. Sion Circle
Sion (East) , Mumbai-400 022.

SPECIFICATION OF GAS CHROMATOGRAPH

Gas Chromatograph should have a provision to mount up to two number capillary columns and two Nos. of injection detection system.

Pneumatic System should have electronic pressure control, which would allow setting of pressure and flow through keyboard. Should have features like carrier gas pressure programming, storing pneumatic settings as method so it can be changed in a keystroke.

Oven temperature rate from -30°C to 400°C adjustable in step of 1°C with microprocessor, temperature controller accuracy $\pm 0.05^\circ\text{C}$. Alphanumeric temperature readout with individual readout with selector key switches mounted on front panel of the oven, injection ports, Detectors and auxiliary detectors. Microprocessor temperature programmer with heating rate 0.1°C/min. to 50°C/min. 7 RAMPS and 8 Plateaus. Maximum temperature cut off with cooling initiation. 5 Time events & 50 method files.

System should have following facilities.

- Graphical display with soft touch keypad.
- Auto Diagnostics facility to checks, corrects operations and status of GC Control, CPU, ROM, RAM, Sensor, Keyboard, etc.
- Complete control of detector parameters through software settings.
- All detector parameters viz. Range, attenuation, polarity, detector current, etc. can be set through keyboard. Detector flow can be through keyboard. Auto zero facility for detectors.
- Setting Split Ratio through keyboard.

- Facility to lock the keyboard to avoid changes in the method parameters during the analysis, along with password protection.
- The Qualification standards with electronic signature for IQ/PQ/OQ
- Leak Test Method for leakage testing.
- Mounting wide range of detectors FID, TID, ECD, PID, FPD. Injection ports should have low dead volume with facility for direct on column injection or into the port.
- 21 CFR Part II compliance with built in computer interface.

FLAME IONIZATION DETECTOR: (Capillary)

Type: Solid-state linear Electrometer amplifier, single or differential.

FID Sensitivity should be 5×10^{-12} gram/sec. for C_9 hydrocarbon.

Range: x1, x10, x100.

Linear Dynamic range should be Better than 10^7

Should have Noise Less than 1%

Drift should be less than 1%

Should have Auto zero facility

Output provision for Recorder, Integrator & Computer.

ELECTRON CAPTURE DETECTOR (ECD)

ECD operation with electronic control using Modulated Frequency

Radioactive source: Nickel 63

ECD sensitivity should be around 10^{-13} gm/sec for lindane.

Linearity should be better than 10^4

Output provision for recorder, Integrator & Computer.

SOFTWARE: 32 Bit, Multichannel and multi-user software with facility for long file names. Should have system suitability test module, conversion module for data Import & Export facility.

Should also be provided with required columns, start up kit etc.

OPTIONAL ITEMS:

Spares and consumable for 3 years operations.

CONTROL UNIT : Latest computer P-IV, 3.0 GHz, 256 RDRAM, 80 GB HDD, 1.44 Mb FDD, 56x CD ROM, Preloaded WINDOWS Me/2000 with CD writer and user license, internet Key board, 17" color monitor (flat TFT), optical mouse and software. HP laser Jet color Printer

Gas Cylinder H₂, N₂ & zero Air, along with regulators with gas station.

5 KVA online UPS with one hour battery backup.

NOTE:

- (i) Please quote spare kits which include an assortment of commonly required replacement and consumables.
- (ii) Attach pamphlet & literature of equipment
- (iii) The manufacturer/supplier shall provide practical training course balanced with theoretical aspects to user.
- (iv) Should be **ISO 9001 / 9002 Certified manufacturer.**