

NO. 15 -2008-09/LCB

LOCAL COMPETITIVE BIDDING

TENDER NOTICE

NO. ZOL/ADMN/01/VOL-VII/LCB/

DATED 15.12.2008

CENTRAL POLLUTION CONTROL BOARD
"NORTH ZONAL OFFICE"
PICUP BHAWAN,
Ground Floor, Vibhuti Khand,
Gomti Nagar, Lucknow - 226010

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CENTRAL POLLUTION CONTROL BOARD
“NORTH ZONAL OFFICE”
PICUP BHAWAN,
Ground Floor, Vibhuti Khand,
Gomti Nagar, Lucknow - 226010

TENDER NOTICE

LOCAL COMPETITIVE BIDDING
TENDER NOTICE NO. ZOL/Admn/01/Vol-VII/LCB
DATED 15.12.2008

For supply of Scientific/Technical Instrument/Equipment

Sealed tenders are invited on behalf of Central Pollution Control Board from manufacturer/authorised dealers/suppliers for the supply of equipments/instruments as detailed below (required quantity given in parenthesis)

- | | |
|--------------------------------------|-----------------------------------------------------------------------|
| 1. Spectrophotometer (02) | 11. pH Meter (03) |
| 2. Magnetic stirrer (03) | 12. Conductivity Meter (02) |
| 3. Heating Mental (Single) (05) | 13. Water Bath (02) |
| 4. COD Thermoreactor (01) | 14. Deep Freezer (01) |
| 5. COD Digestion Apparatus(02) | 15. Refrigerator (01) |
| 6. Muffle Furnace (01) | 16. SMF Batteries (12 V ; 26 AH) for
UPS (160) for CPCB P.O, Agra |
| 7. Bacteriological Incubator (01) | 17. SMF Batteries (12 V; 7 AH) for UPS
(14) |
| 8. Combustion Gas Analyzer (01) | |
| 9. UV Visible Spectrophotometer (01) | |
| 10. DO Meter (02) | |

- The tender document alongwith detailed specifications of the instruments/equipments can be obtained in person or on production of authority letter of the firm in DUPLICATE from the Office of the In-charge, Northern Zonal office, Central Pollution Control Board, PICUP Bhawan, Ground Floor, Vibhuti Khand, Gomti Nagar, Lucknow - 226010.
- The complete bid document will be available on the web site of the Board (WWW.cpcb.nic.in). Bidders desirous of submitting their bids on down- loaded document can submit as specified in the bid document on or before due date of submission of bid along with prescribed fee of Rs 200/- through DD in favour of Central Pollution Control Board and payable at Lucknow .
- The quantity given in parenthesis of items considered for purchase / procurement may alter on the basis of need and at the discretion of the Competent Authority in CPCB.
- The Earnest Money as indicated in bid document must be submitted by the bidder alongwith the Tender in the form of Demand Draft drawn in favour of CENTRAL POLLUTION CONTROL BOARD and payable at Lucknow (India).

Contd

:2:

- 6 The bids should be written in “ENGLISH/HINDI LANGUAGE” only.
- 7 The Board reserves the right to reject any or all the Tenders without assigning any reason, whatsoever. The Board will not be held responsible for any postal delay.
- 8 No Bid shall be accepted after the closing period The Board will not be held responsible for late delivery of Bid/Tender Document by Post.
- 9 The cost of tender document may be paid in cash (Indian Rupees). The request for Local Competitive Bidding document sent by post will also be accepted within stipulated time.
- 10 The other details are as follows:-

LOCAL COMPETITIVE BIDDING

Sale of Tender Document	: From 18.12.2008 to 19.01.2009 on all working days between 11:00 A.M to 5.00 P.M
Price of Tender Document	: By Hand Rs. 200./- (In cash) By Post Rs. 300/- (through demand draft in favour of Central Pollution Control Board, Lucknow)
Earnest Money	: As indicated in the Tender Document
Delivery Period	: 04 weeks from the issue of Purchase Order
Validity of Tender	: 90 days from the opening of Tender
Last date of submission	: Date 20. 01. 2009 at 3.00 PM
Date of Opening	: Date 20. 01. 2009 at 03:30 PM

(Incharge- ZO)

COMMITTED TO A CLEANER ENVIRONMENT

1.0 GENERAL TERMS AND CONDITIONS

This document contains the following:

- (i) Copy of the Local Competitive Bidding Notice
- (ii) General Terms & Conditions of Bid
- (iii) Terms & Conditions for submission of Bid
- (iv) Payment Terms
- (v) Settlement of Dispute
- (vi) Application Form
- (vii) Undertaking
- (viii) Bid Form
- (ix) Schedule of Earnest Money to be deposited alongwith Tender
- (x) Quantity of instruments/equipments and location of delivery & installation.
- (xi) Detailed specifications of the instruments/equipments.
- (xii) Checks list

- 1.1 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. The bidder must sign each sheet including provided by the Board with this document. **The price bid must be in the form provided herewith at Annexure-II.** The complete bid document will be available on the web site of the Board (www.cpcb.nic.in). Bidders desirous of submitting their bids on down- loaded document can submit as specified in the bid document on or before due date of submission of bid.
- 1.2 The tender will not be accepted from the firm to whom the document is not issued by the Board.
- 1.3 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.
- 1.4 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.
- 1.5 The bidder is expected to examine all instructions forming terms and conditions and specifications mentioned in the bidding document. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding document in every respect will be at the bidder's risk and result in the rejection of its bid.
- 1.6 This call of tender does not bind the Central Board to place order. The tenders submitted in response to this invitation may be rejected without assigning any reason.

- 1.7 The Board at its discretion may extend the last date of submission of bids and opening of bids. The final authority for acceptance of bids will rest with the Chairman, Central Pollution Control Board, who does not bind himself to accept the lowest bids and is vested with the authority to reject any or all of the bids received without assigning any reason.
- 1.8** Documents, literature, diagram/leaflets, samples etc. enclosed in the tender shall become the property of the Central Board without any payment.
- 1.9 The warranty period of instrument/equipment shall be two years starting from the date of successful commissioning of the instrument/equipment.
- 1.10 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.
- 1.11 The instruments/equipments have to be supplied in standard packaging only.
- 1.12** Instruments/equipments bearing ISI mark and CE certification will be given preference and priority. Also, manufacturer whose products are offered if they have ISO9001 or any other relevant certification will be given preference.
- 1.13** ***It is advised that bids should be properly signed, stamped and sealed failing which it is liable for rejection without assigning any reason.***
- 1.14 In case of the date of opening of tender is declared as Public Holiday, the tender shall be opened on the next working day at the same time.
- 1.15 The bid shall contain no interlineations, erasures or overwriting words except as necessary to correct errors made by the bidder in which case such correction shall be initialled by the person or person signing the bid.
- 1.16 Late and delayed tenders shall not be considered and may be returned un-opened to the bidder.
- 1.17 It is advised that the out side supplier should send the tender through Register Post/Courier. However, local supplier may drop their tender in tender box kept in Central Board for this purpose. In no case tender should be handed over to any employee of the Board.
- 1.18 Canvassing in any form will disqualify the Bid.
- 1.19 Request for the tender document for bidding through Telex, Telegram, Telephone, Money order and Telefax shall not be entertained.
- 1.20 The Tender Notice No. ZOL/Admn/01/Vol-VII/LCB dated 15.12.2008 item code numbers (the item code number is given in the specification sheet against each item) must be invariably quoted in the bid and further correspondence in this regard.

- 1.21 All the tenders should be addressed to:
IN-CHARGE
CENTRAL POLLUTION CONTROL BOARD
PICUP BHAWAN, Ground Floor, Vibhuti Khand,
Gomti Nagar, Lucknow - 226010

2.0 SUBMISSION OF BID

- 2.1 The bid prepared by the bidder and all correspondence and documents relating to the bid exchanged by the bidder and the purchaser shall be written both in Hindi and English languages provided that any printed literature furnished by the bidder may be written in another language so long as accompanied by Hindi/English translation of its pertinent passages in such case, for purpose of interpretation of the bid English translation shall govern.
- 2.2 The bid must accompany Annexure-I with Techno-Commercial Part of Bid and Annexure – III alongwith Price Part of the Bid duly filled in and signed by the bidder alongwith the seal of the firm.
- 2.3 The supplier should attach a copy of the financial bid (without cost/price figure) along-with technical bid to access the items/components quoted in the bid. The bid must accompany Annexure-I with Techno-Commercial Part of Bid and Annexure –III along-with Price Part of the Bid duly filled in and signed by the bidder along-with the seal of the firm.
- 2.4 The bidders are requested to quote the rates item-wise and total price of each instrument separately indicating the Govt. levies, transportation and other expenditure item-wise and FOR to our office at Lucknow/Agra.
- 2.5 Bidder can quote the rates for all the instruments/equipments or some of the instruments/equipments against one tender. However, separate price bid and technical bid should be submitted for each item clearly mentioning the name of the item, code number, original tender application form number with sender's name & address on the top of the envelopes containing techno-commercial bids. The Central Pollution Control Board reserves the right to accept the tender in full or in part.
- 2.6 The tender is to be submitted in the single stage envelopes. 03 envelopes system i.e. the first sealed envelope will contain the Earnest Money Deposit and should be marked EMD for laboratory instruments/equipments. The second sealed envelope will contain full information required to judge pre-qualification, complete details and specification of the instruments/equipments 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 Terms and Conditions etc. It should be marked Pre-qualification, Technical and Commercial Bid No.ZOL/Admn/01/Vol-VII due on 20.01.2009 for instruments/equipments. The third sealed envelope will contain only price quoted by the bidder in the form given at Annexure-II of this document and shall be clearly marked Price Bid No. ZOL/Admn/01/Vol-VII due on 20.01.2009. All the 03 envelopes must be separately sealed and shall be kept in one envelope bearing the address of Central Pollution Control Board and super-scribed with bold letter **'Tender For Laboratory instruments/equipments due on 20.01.2009'**.

- 2.7 Technical part of the tender will be opened on 20.01.2009 at 03.30 PM for LCB in the office of the Central Board in presence of the representatives of the tenderer who choose to be present. Sealed Price Part of Technically and Commercially acceptable tenders will be opened the next day.
- 2.8 The bidders are to deposit the amount as per schedule at Annexure IV depending upon the equipments/instruments quoted by him towards the earnest money alongwith tender in the form of Bank Draft only in favour of Central Pollution Control Board and payable at Lucknow. No earnest money shall be accepted in any other form. The earnest money may be forfeited if a bidder withdraws its bid validity specified in tender document or fails to supply the instruments within the specified period in tender document or at short notice by the Board. Tender shall not be entertained where a tenderer has not furnished adequate earnest money in 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.
- 2.9 The firm seeking exemption from depositing earnest money being small scale industry or being registered with DGS&D and other Government agencies which entitles them for exemption must submit the valid Registration Certificate covering the instrument offered by them alongwith the permissible value. The copy of Government Notification granting exemption from deposit of EMD must be submitted alongwith the first part of the tender alongwith the bid. (Proof of the exemption obtained against a particular item being quoted should be attached).
- 3.0 The earnest money as indicated at Annexure -IV of bid document must be submitted by the bidder alongwith tender through the Demand Draft only in favour of Central Pollution Control Board and payable at Lucknow.
- 3.1 The earnest money of the unsuccessful bidder will be refunded without any interest after the concerned purchase is finalised or within three months whichever is earlier and that of successful bidders will be refunded without any interest within one month of the successful installation and commissioning of the equipment /instrument or earlier as the case may be.
- 3.2 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 extension cases, the Board may solicit the bidder's consent for extension of the period of validity and the bid shall remain valid for the extended period mutually agreed for.
- 3.3 The rates should be quoted both in words and figures.
- 3.4 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 and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If there is discrepancy between words and figures, the amount in words will prevail.
- 3.5 Tenders not in proper sealed cover or received telegraphically will not be entertained.

- 3.6 Conditional tenders will be rejected without assigning any reason.
- 3.7 The bid shall be typed or written in indelible ink and shall be signed by the bidder or a person duly authorised for contract. The letter or authorization should bear the signatures of only for authorised person of the firm. All pages of the bid, except for unamended printed literature shall be initialled by the person or person signing the bid.
- 3.8 To assist in the examination, evaluation and comparison of bids the buyer may at its discretion ask the bidder for a clarification of its bids. However, no change in the price or substance of the bid shall be sought, offered, re-permitted.
- 3.9 Eventual suggestions for modification or subsidiary tenders are principally not admissible.
- 3.10 The specifications are clearly mentioned at Annexure VI of the document and the bidder are requested to submit Bid only if their offer strictly comply to these specifications. Please note that no deviation in the required specifications will be permitted. The bidding for the instruments having different specification will be on bidder's risk as the Board will not entertain such bids. BIDS CARRYING THE STATEMENT LIKE "SPECIFICATION AS PER TENDER DOCUMENT" SHALL NOT BE ENTERTAINED. THE PRODUCT SPECIFICATIONS SUPPORTED BY TECHNICAL LITERATURE AND LIST OF USER, MUST BE ENCLOSED.
- 3.11 The placement of purchase order will be according to technical evaluation for the tender and after consideration of its price worthiness.
- 3.12 The price/s to be given in the tender are fixed prices, irrespective of rise in material prices and increase in taxes etc. till the delivery of the overall consignment. No request in regard to increase in the price of instrument or in taxes etc. will be entertained after the submission of the tender. However, if there is decrease in taxes as a result of Govt. policy decision after finalization of the bids, in that circumstance, the benefit will go to the Board.
- 3.13 The nomenclature of the instrument and equipment will be invariable same in the Proforma Invoice, Packing list and in other relevant papers in case the bidder is asked to supply the instrument against this offer.
- 3.14 With the submission of his tender, the bidder accepts the conditions stipulated in the tender.
- 3.15 If the instrument/equipment supplied is of the specification other than asked for in the supply orders it will have to be replaced at their risk and cost. No freight and other charges will be paid by the Board. It may distinctively be noted, If there is any design defect in instruments/equipments, it should be replaced free of cost at any time.
- 3.16 The installation of the equipment/instrument is the entire responsibility of the supplier. It must be done either by the principal/supplier or their authorised agents within 02 week of the receipt of the equipments/instruments by the Board. The supplier or agent should be in touch with the Administration Section of the Board to know the exact day of receipt of stores supplied/despached by them.

- 3.17 The list of instruments/equipments, their approximate quantity is given at Annexure V and the detailed specifications of the equipment are given at Annexure VI of this document. The quantity mentioned in the tender document may be reduced or increased at the discretion of the Competent Authority in the Central Board without assigning any reason.
- 3.18 Each and every folio of the tender must be signed by the bidder.
- 3.19 Bidder can quote the rates for all the instruments/equipments or some of the equipments/instruments. The bid shall be considered only for those equipments/instruments for which the rates have been specifically quoted. The bidder should attach a separate rate list for consumables/spares required for smooth operation of the equipments at least for three years. The Board further reserves the right to accept the tender for all the equipments/instruments or some of the equipments/instruments for which the tenderer has quoted the bid.
- 3.20 The instruments/equipments for which tenders are invited will have to be supplied within 04 weeks from the date of issue of purchase order. In case of non-observance of delivery period of supply not in accordance with the purchase order the supplier has to pay default compensation at the rate of 1¼% of the total value of order per concluded week of the default but not exceeding 5% of the total value of order.
- 3.21 *The after sales services is most important to be considered for comparison of bids. The firm who do not have local agents to provide after Sales Services during warranty period will not be entertained.*
- 3.22 In case of proprietary item the proprietary article certificate (PAC) issued by the principal supplier should be attached. In that case, the bid of the sole distributor will only be considered. The price should be quoted on F.O.R. on site (CPCB) basis and in the case of imported equipment/instruments, the price should be quoted on FOB basis.
- 3.23 If the equipments/instruments supplied are found defective /unsatisfactory condition/short supply/other than specifications in the Purchase orders, the same will have to be replaced at the supplier's risk & cost. No freight & other charges will be paid by the Board.
- 3.24 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.
- 3.25 The amendment if any, will be brought to the notice in writing or by telex or cable to all concerned bidders who have received the bidding documents and will be binding on them.
- 3.26 In order to afford prospective bidder reasonable time in which to take the amendment into account in preparing their bids, the purchaser at its discretion may extend the deadline for the submission of bids.
- 3.27 The prices must be quoted item-wise i.e. basic price, taxes, packing & forwarding and transportation charges, insurance, installation charges etc. The charges must be quoted clearly and not in vague terms like "As Actual " Approx. Etc.

- 3.28 If according to the bidder, the tender document contains certain unclear points which could influence price calculations, the bidder has to inform the authority who is issuing the call of tender before submission of his tender either in writing or by cable even if he has pointed out this earlier in any other form/reference.
- 3.29 The packing, forwarding insurance and transportation charges must be quoted according to the place of delivery as mentioned in the schedule at Annexure-V. The supplier will be held liable for any damage theft or loss during transit. The instruments are to be despatched to the respective places directly and to be installed there by the supplier under intimation to the CPCB office at PICUP Bhawan, Vibhuti Khand, Gomti Nagar, Lucknow/04, Dhoulpur House, MG Marg, Agra. The price should be quoted as per schedule at Annexure-V.

MOST IMPORTANT

- 3.30 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 & ANNEXURE-III WILL BE KEPT IN THE SECOND PART OF BID i.e. PRICE BID.
- 3.31 PLEASE NOTE THAT THERE IS NO NEED TO ENCLOSE THE ENTIRE TENDER DOCUMENT (SUPPLIED BY THE BOARD) WITH OUR BID. ONLY ANNEXURE I,II & III NEED TO BE ENCLOSED AS PER INSTRUCTION STIPULATED IN PARA 3.30 OTHER RELEVANT PARAGRAPHS OF THIS BID.

4.0 PAYMENT CONDITIONS

- 4.1 100% payment will be released after receipt of the instrument in good & satisfactory condition and on installation /commissioning the instrument (to be certified by the concerned officer of the Board and on submission of bills in duplicate). No advance payment shall be allowed in any case. The defective, substandard and contrary to the specifications instruments supplied have to be replaced by the supplier at their cost and responsibility.
- 4.2 In case several bills are presented against one order, the reference of supply order and other details should be mentioned in each and every bills.

5.0 SETTLEMENT OF DISPUTE/ARBITRATION:

- 5.1 All disputes or difference arising out of or in connection with the contract and supply of material assigned under the same (whether during the progress of the work or after their completion, determination, abandonment or breach of the contract) shall be referred to a team of three member arbitrators appointed by the Chairman, Central Pollution Control Board. The arbitrators shall elect an umpire among them. In case of conflicting by the arbitrators the decision of the umpire shall be final and binding. It will not be an objection to any such appointment that the arbitrators are the Government servants and had any interest in the Board or the contract entered into directly or indirectly. In all cases the arbitrators shall state their decision in writing of amount of claim in dispute is Rs. 1,00,000/- and above,

subject as aforesaid. The provisions of the Arbitration Act 1996 or any statutory modification or re-enactment thereof and the rules made there under and for the time being in force shall apply to the arbitration proceeding under this clause. The cost and expenses of arbitration proceedings will be paid as determined by the Chairman, Central Pollution Control Board.

- 5.2 It is a term of the contract that the party invoking the arbitration shall specify the dispute or disputes to be referred to the arbitration under this clause together with the amount or amount claimed in respect of each such dispute.
- 5.3 It is also a term of the contract that if the supplier (s) do not make any demand for arbitration in respect of any claim (s) or dispute in writing within 45 days of submission of the final bill for payment the claim of the supplier will be deemed to have been waived and absolutely barred and the Board will be discharged of all liabilities under the contract in respect of these claims.
- 5.4 The courts in UP shall have exclusive jurisdiction to entertain and try all matters arising out of this contract.

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, flood, riots and acts of unsurpassed 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 owner 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 owner the order may be cancelled. Such cancellation would be without any liability whatsoever on the part of owner. In the event of such cancellation the vendor shall refund any amount advanced or period to the vendor by the Purchaser and deliver back any material issued to him by the Purchaser and release facilities, if any provided by the Purchaser.

APPLICATION FORM

(To be filled by the bidders)

1. Name and full address of the Bidder including Telegraphic Address Telex No. and Fax No. :
2. Name & Designation of the Head of the Firm/Supplier and his Telephone No. :
3. I. In case the supplier is located out of UP his contact Address/Authorised Distributor's Or Agents Address in UP, if any :

II. Name, Designation, Address, Telephone Number :
Of the Authorised Person who may be contacted during the process of the purchase concerned under this Documents (applicable for all the suppliers)
4. Whether earnest money deposited :
5. If yes, Demand Draft No. Date & 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.) with PAN No. :

Place:
Date:

Legally
Bidding
Signature
With Stamp

BID FORM

Details showing quantity, specification and other details of instruments/equipments offered (to be filled by the bidder)

Name of Items	The specifications offered by the Bidder	Difference in specifications of tender document and that of Bid, if any,	Quantity	Unit Price (in Rupees excluding rates col no.7)	Taxes and other expenditures (Sales Tax, C.S.T. Excise duty, freight etc)	Total Amount (in Rupees) (FOR Value)
(1)	(2)	(3)	(4)	(5)	(6)	(7)

Note : If this sheet is not sufficient to accommodate the bid, the additional sheet containing the same proforma but all such sheets including this one must be signed by the bidder alongwith the seal.

(Signature with date & Stamp of the Bidder)

UNDERTAKING

Date _____

Tender Notice No. _____

Incharge Zonal Office
CENTRAL POLLUTION CONTROL BOARD
(MINISTRY OF ENVIRONMENT AND FORESTS)
GOVERNMENT OF INDIA
PICUP BHAWAN, GROUND FLOOR,
VIBHUTI KHAND, GOMTI NAGAR,
LUCKNOW

Having examined the conditions of tender document and specifications of the instruments/equipments, the receipt of which is hereby acknowledged. We the undersigned, offer to supply, delivery the following:-

01

(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.

We undertake if our bid is accepted to deliver the instruments/equipments quoted by us we shall deliver and install within the period indicated by us in our offer.

We agree to abide by this bid for a period of 90days from the date fixed for Bid opening and it shall remain binding upon us and may be accepted at any time before expiration of that period.

We are submitting a Demand Draft for Rs.in favour of Central Pollution Control Board, Lucknow towards the Earnest Money .

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

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

Dated this day of2008/09.

(Signature of authorised Person, Name with Stamp, and Full Address.)

Schedule of Earnest Money

SN	Items Code	Name of Instruments/Equipments	Qty.	Earnest Money Amount
1	01	Spectrophotometer	02	3400.00
2	02	Magnetic Stirrer	03	500.00
3	03	Heating Mantle (Single)	05	500.00
4	04	COD Thermoreactor	01	2200.00
5	05	COD Digestion Apparatus	02	3600.00
6	06	Muffle Furnace	01	2000.00
7	07	Bacteriological Incubator	01	2000.00
8	08	Combustion Gas Analyzer	01	7500.00
9	09	UV Visible Spectrophotometer	01	9000.00
10	10	DO Meter	02	3600.00
11	11	pH Meter	03	3000.00
12	12	Conductivity Meter	02	2000.00
13	13	Water Bath	02	400.00
14	14	Deep Freezer	01	2000.00
15	15	Refrigerator	01	500.00
16	16	SMF Batteries (12 V : 26 AH)	160 Nos. (for UPS)	7100.00
17	17	SMF Batteries (12 V: 7 AH)	14 Nos. (for UPS)	200.00

Location of delivery and installation of instruments/equipments

SN	Items Code	Name of Instrument/Equipment	Qty.	Place of delivery & Installation
1	01	UV Visible Spectrophotometer	01	Lucknow
2	02	Magnetic stirrer	03	Lucknow
3	03	Heating Mantle (Single)	05	Lucknow
4	04	COD Thermoreactor	01	Lucknow
5	05	COD Digestion Apparatus	02	Lucknow
6	06	Muffle Furnace	01	Lucknow
7	07	Bacteriological Incubator	01	Lucknow
8	08	Combustion Gas Analyzer	01	Lucknow
9	09	Spectrophotometer	02	Lucknow
10	10	DO Meter	02	Lucknow
11	11	pH Meter	03	Lucknow
12	12	Conductivity Meter	02	Lucknow
13	13	Water Bath	02	Lucknow
14	14	Deep Freezer	01	Lucknow
15	15	Refrigerator	01	Lucknow
16	16	SMF Batteries (12 V : 26 AH)	160 Nos. (for UPS)	Agra
17	17	SMF Batteries (12 V: 7 AH)	14 Nos. (for UPS)	Lucknow

UV-Spectrophotometer

Wavelength Range	190-1100 nm
Source lamp	Xenon flash lamp
Technology	Stabilized single- beam spectrophotometer
Monochromator type	Grating monochromator with step motor
Wavelength calibration	Automatic
Reproducibility	±0.5nm (checkable, e.g. with holmium oxide filter)
Measuring mode	Concentration, absorbance, transmission, multi wave length, Scans+Kinetics in absorbance or transmission mode
Spectral Bandwidth	4nm
Wavelength resolution	1nm
Wavelength accuracy	±1nm
Photometric range	±3.3nm
Absorbance resolution	0.001A
Absorbance accuracy	0.003A at <0.600A 0.5% of the reading for 0.600 ≤ A ≤ 2.000
Scan	Scan in 1nm increments with free selectable wavelength range
Sensor	Photo diode ,Linearity:<1% for A< 2.000 in the range340 to 990nm
Cells	16 mm round, 10/20/50mm rectangular with automatic cell recognition
Test recognition	Automatic bar code reading system for round & rectangular cells
Display	Graphic display with back ground light
Methods and profiles	Programmed methods of all cell and reagent test, user-define methods,20 profiles for kinetics and absorption scans each
Method update	Via internet/PC or via USB stick
Instrument-supported quality assurance	Quality assurance support of standard parameters.
Communication interfaces	1USB-A, 1USB-B, 1RS 232
Data Storage	1000 Single measured value; 4MB for scan and kinetics, i.e. approx. 100 scans(300-900nm) and 400 kinetic curves with 150 single values each.
Languages	English
Protection class	IP 31 and drain device for spilled cell contents
Power Supply	India-specific power supply(230 Volt/50 Hz), Length of connection cable approx. 2.5-3.0meter
Power Requirements	100-240V/50Hz.
Temperature	Operating: +10°C to +35°C,Storage: -25°C to +65°C
Allowable relative Humidity	Annual:≤ 75%: 30days/year:95%: other days:85%
Accessories	Battery for portable use/automatic charging cable,10mm rectangular&16 mm round sample cell, Manual & other important accessories/spares
Warranty	At least 02 year from the date of installation
AMC Charge	After warranty may be quoted separately

-Warranty- 02 years from the date of installation

-AMC charges after warranty may be quoted separately

Magnetic Stirrer

- Teflon coated top should be provided.
- Speed regulator should be provided.
- Capacity : 01lit.Good quality heating element for heavy-duty purpose.
- Power requirement : 230 Volt/50Hz.
- Warranty : 02 years from date of installation.

Heating Mental

- Capacity : 01lit.
- Energy regulator (0to100) should be provided.
- Thermostat indication should provided.
- Power requitremnt:230 Volt/50Hz.
- Warranty: 2 years from date of installation

COD Thermoreactor

Display	:LCD for temperature & time(desired &actual)
Indicator	: Heater on/off display
Holes	16mm,25mm,26 mm (Quote separately for each)
Heating Blocks	: Two separate blocks individually programmable, setting & control for time & temp. for 12 samples each.
Temperature selection	: Room temp. to 170°C \pm 1.0°C
Own programs	:8 freely selectable (25-170 °C)
Pre-set Programme	: Pre-stored programmes for various temp like100°C ,120°C, 148°C(120min), 150°C for different times(20 to 120 minutes)
Control accuracy	: \pm 1 °C
Heat variation	: Within outer & inner bore block \pm 1.5° C
Safety	: Auto power switch off end of the heating time
Power supply	: 230 V/ 50 Hz (Single phase)
Timer	: 0 to 180min. freely selectable
Weight	: Light weight
Interface	: Temperature monitoring option via integrated serial Interface
Optional accessories	: Thermo sensor (To be quoted separately)
Casing	: Protective covering with case
Warranty	: Two years from the date of installation

COD DIGESTION APPARATUS

Specification

Heating block	: Solid metal block with 15 holes
Glassware	: 15 Reaction Vessels (Dia 40 mm approx.) & compatible Air Condensers
Temperature	: 150°C ± 1% (uniform heating)
Capacity	: 15 Samples at a time.
Vessel Capacity	: 200ml. (Without neck) for sample size 20ml.
Display	: Graphic LCD Module 128x64 dots with large font
Key board	: Soft touch membrane key board
Timer	: Programmable Timer with Buzzer
Power Requirement	: 230v /50Hz. Single phase

Accessories to be supplied with the digestion apparatus:

1. SS Holder for glass holding
2. Aluminum/Steel Stand for reaction vessels
3. Reaction vessel (Borosilicate glass)
4. Aluminum/Steel Stand for Condenser
5. FRP Water Tank

Warranty : 2 years from date of installation.

Separately quote for compatible reaction vessel & condenser.

Muffle Furnace

- Temperature range : Up to 1000°C
- Power requirement: 230 Volt Single Phase
- Digital temperature controller cum indicator should be provided.
- Digital timer of 99 hours should be provided
- Energy regulator should be provided
- Overload protection
- Construction should be lightweight with ceramic fiber Wool insulation.
- Outer body is made of thick M.S. with enamel painted.
- Size inner chamber- 8"x8"x18"(L x W x depth)
- Silver Fuse should be provided
- CE / ISO 9001 certified
- Warranty: Two years from date of installation.

Remark :Buy back price for Muffle Furnace (1994) may also be quoted.

Bacteriological Incubator

Size(Inner chamber)	: 605x605x910mm (approx)
Temperature Range	: Ambient to 70°C
Accuracy	: $\pm 0.2^{\circ}\text{C}$
Timer	: 99hrs/cotinuuous
Chamber/Body	:Tripple wall construction. Inner Chamber made of stainless steel SS-304 grade & middle wall made of G.I. sheet. Outer body made of M.S. painted in epoxy powder with perforated adjustable SS shelve 03No.
Power Supply	: 220/230Volt Single phase, 50Hz/AC

>Air Circulatory fan should be provided for circulation of hot air in between inner chamber.

>Digital Temperature Controller cum Indicator

Display: up to one decimal point

>Door with glass window should be provided.

>Wheel base should be provided.

Warranty: Two years from date of installation

Remark :Buy back price for Bacteriological Incubator (1994) may also be quoted.

Combustion Gas Analyser

Portable and advance type combustion analyzer, comprising sensor, pumps, supply unit, electronics, and key controlling panel. It should be handy and mobile for easy operation and record the measurement as CO₂, CO, SO₂, Temp., NO₂, NO, NO_x, HC, Combustion efficiency, Excess air and other supporting parameter. The detail specification as below:

Combustion Gas Analyzer

- | | | | |
|-----|------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Gases to be measured | : | CO, O ₂ , CO ₂ , SO ₂ , NO, NO ₂ , NO _x , HC and combustion efficiency |
| 2. | Sensors | : | IR or Electro-chemical Sensors with high accuracy and life span of 3 to 5 years |
| 3. | Gas Flow | : | 1 to 2.5 liter/min |
| 4. | Temperature Measurable | : | 600°C |
| 5. | Operating Temperature | : | 0-50 °C |
| 6. | Power Supply | : | Battery(Long Life) operated along with built in charger on Mains 230 V \pm 10 VAC, 50 Hz \pm 3% |
| 7. | Flue Gas Probe | : | Stainless Steel Shaft with rubber handle; length initially 01 meter and expandable upto 2 meter. The Probe should withstand high temperature of the order of 600°C |
| 8. | Pre Programming | : | For Natural Gas, light Oil, heavy Oil, LPGs, Propane, Butane, Coke, Coal etc. |
| 9. | Parameter wise Specification | : | Please see Annexure - 'A' |
| 10. | Software/Operator | : | Easy to handle Key Board operated and user friendly. Data format transferable to user software and print out facility |
| 11. | Weight | : | Light Weight/Portable With Qualitative Carrying Case |
| 12. | Certificate | : | Calibration and certificate of approval from recognized agency like EPA, TUV,NPL,NTSC, be provided. |
| 13. | Documents | : | Instruction manual for operation. Circuit details for each electronic card for repair and maintenance. |
| 14. | Calibration | : | Automatic |

- Spares of combustion analyzer should be available at least 10 years to the supplier company.
- Warranty should be provided for three years from the date of installation.
- AMC charges for service after warranty may be quoted separately

Annexure –A

Parameter	Sensor	Range	Res.	Accuracy
O ₂	ELECTROCHEMICAL	0 – 25%	0.1%	±0.1% vol
CO	ELECTROCHEMICAL	0 – 8000 ppm	1 ppm	<300 ppm= ±10ppm up to 2000 ppm= ±4% >2000ppm=+10%
CO	ELECTROCHEMICAL	0 – 20000 ppm	1 ppm	<300 ppm= ±10ppm up to 2000 ppm= ±4% >2000ppm=+10%
CO %	ELECTROCHEMICAL	10%	0.01%	±100 ppm<0.02% ±5% rdg. Or 10%
NO	ELECTROCHEMICAL	0 – 4000 ppm	1 ppm	<100 ppm= ±5ppm up to 3000 ppm= ± 4%
NO ₂	ELECTROCHEMICAL	0 – 1000 ppm	1 ppm	<100 ppm= ±5ppm up to 800 ppm= ± 4%
NO _x	Calculated	0 – 4000 ppm	1 ppm	
SO ₂	ELECTROCHEMICAL	0 – 4000 ppm	1 ppm	<100 ppm= ±5ppm up to 2000 ppm = ±4%
CO ₂	Calculated	0 – 99.9%	0.1%	
CO ₂	NDIR	0 – 200%	0.01%	±3% rdg. or ±0.3%
C _{XHY}	Pellistor	0 – 5.00%	0.01%	+ 5% F.S.
C _{XHY}	NDIR	0 – 50000ppm	1 ppm	±3% rdg. or ±10%
H ₂ S	ELECTROCHEMICAL	0 – 1000 ppm	1 ppm	±5ppm<100ppm ±4%rdg. or 1000ppm
T-air	Pt-100	-10 – 99.9 °C 14.0 – 212.0°F	0.1°C	±(0.2% rdg.+ 0.15°C)
T-GAS	Tc K	0 – 999.9 ° C 32.0 – 1830° F	0.2° F	±(0.3% rdg.+ 0.3°C)
Δ T	Calculated	0 – 999.9 °C 32.0 – 1830° F	0.1°C	(0.2% rdg.+ 0.15°C)
T _{flow} /T _{return}	Tc K	-10 – 99.9°C	0.2°F	±(0.3% rdg.+ 0.3°C)
Pressure/Draft	Bridge	±100h Pa	0.01 hPa	±3Pa <300Pa ±1% rdg. >300Pa
Excess air	Calculated	1.00 - INFINITY	0.01	
Gas velocity	Calculated	0-99.9 m/s	0.1m/s	
Efficiency	Calculated	1-99.9 %	0.1%	
Auxiliary Inputs	2 channels	4 – 20 mA		

Annexure-VI
Item Code No-09

Spectrophotometer

Wavelength Range	340 to 999nm
Accuracy	±2.0nm
Readout	1 nm step
Band width	5.0 nm
<u>Photometric</u>	
Range	-0.04 to 2.5 Abs
Accuracy	±0.01 Abs at 1.0 Abs
Repeatability	±0.005 abs
Resolution	0.1 in %T mode 0.01 A in ABS mode
Digital Readout	2 line 20 characters LCD
Drift	±0.003 Abs/hour at 340nm
Baseline Flatness	±0.005 A
Grating	600 lines/mm
Source	Tungsten-Halogen lamp
Detector	Silicon Photodiode
Sample Holder	Two position manual sample changer or factory installed single position holder for 20mm/50mm (max) path length cell.
Minimum Volume	1 ml in 4 ml cuvette
0,100%T, Order Cutoff Setting	Automatic
Operating Modes	a) Single wavelength b) Multi Wavelength c) Scan d) Concentration (with factor and curve fitting)
Measuring Modes	a) Absorbance b) % Transmittance c) Concentration (as above)
K-Factor Range	0.100 to 9999 with floating decimal point
Concentration Range	0.100 to 9999 with floating decimal point
Data Processing	a) Peak Pick (6 peaks in ABS value) b) Spectrum printout (on Epson compatible dot matrix printer)
Stray Light	Less than 0.3% T
Data Presentation Display	2 line 20 char. Alphanumeric LCD
Hard Copy	On printer (Graph and Data both) (Epson compatible dot matrix)
Standard Accessories	a) Two 10 mm glass cuvettes b) Instruction manual c) Printer port for DMP
Optional Accessories	Single position 20 m/50mm path length cell holder, factory installed. RS 232 interface Epson compatible printer
Dimension	400 (W) x 300 (D) x 110 (H) mm
Weight	Light weight
Power	230 V ± 10%, 50 Hz

-Warranty- 2 years from date of installation

-AMC charges after warranty may be quoted separately

D.O. METER

Range	: 0.00 to 19.99mg/L
Resolution	: 0.01mg/L
Temperature	: -0.5°C to 50°C
Accuracy	: $\pm 0.5\%$ of Value
Temperature Compensation	: Automatic temperature Compensation (ATC) for mg/L & % Saturation
Salinity Correction	: Automatic from 0 to 70
Calibration	:Rapid Calibration Facility
Sensor/Probe	:Galvanic type with 3mt. Cable(approx.)
Power	: Powered with Alkaline Battery
Size	: Light Weight/Portable
Certificate	: CE/UL/ISO
Warranty	: 03 Year from the date of installation.

pH Meter

pH Range	: 0.00 to 14.00
Resolution	: 0.01pH
Accuracy	: ± 0.01pH
Slope	: 80-120%
Calibration	: Up to 3 buffer values (pH 4.01,7.00,10.00)
Electrode	: Combination glass/reference, composed of epoxy, Ag/AgCl
Temperature Range:	: 0.0 to 100 °C
Resolution	: 0.1 °C
Accuracy	: +/-0.5°C
Millivolt Range	: +/-1999.9
Accuracy	: +/- 0.1mV
Resolution	: 0.1 mV
Buttons	: ON/OFF, pH/mV, CAL,ENTER,UP,DOWN
Inputs	: BNC, Temperature Probe, Power, Reference
Power	: 9V alkaline & line for 220 V
Size/weight	: Portable
Warranty	: 2 years from date of installation

Conductivity Meter

Range	: 0.0 to 199.9 μ S : 200 to 1999 μ S : 2.00 to 19.99 mS
Temperature Range	: 0.0 to 100°C
Temperature Accuracy	: +/- 0.5°C
Auto Ranging Resolution	: 0.1 μ S : 1 μ S : 0.01ms
Accuracy	: (+/- 2% Full scale)
Resolution	: 0.1°C
Calibration	: Up to 3points(push button; 1 point per range) (Offset 0.1°C increments)
Cell Constant	: 1
Facility	: Auto Shutoff (Approx. after 15 min.)
Automatic Temp. Comp.	: 0.0 to 50.0 °C
Reference Temperature	: Factory set at 25°C
Temperature Coefficient	: Factory set at 25°C
Keys	: For ON/OFF, Calibration & other functions
Power	: Batteries and AC 220V supply
Size/ weight	: Potable & Light weight
Warranty	: Two years from date of installation

Water Bath

- Double wall Water Bath Concentric ring Inner Chamber(Stainless Steel)
- Size: 405(L) x 300(W) x 100(D) mm with 12 holes of 75mm diameter
- Outer wall of mild steel should be provided.
- Thermostatic control of temperature up to 100°C should be provided.
- Good quality heating element for heavy duty purpose should be provided.
- Water Bath should be CE/ISO Certified .
- Warranty: 02 years from the date of installation.

Deep-Freezer

- Capacity : 400-425lit
- Temperature range : 2°C to +12°C
- Type of size : Chest type with 02 no. basket
- Power requirement : 230Volt/50Hz, Single phase
- Double lid facility should be provided.
- Strong wheel base should be provided.
- Lock and key facility should be provided.
- Inner tank material should be stainless steel.
- Warranty : 2 years from the date of installation.
- Buy-back price for deep freezer(1993) may also be quoted.

Refrigerator

- Capacity : 310Lit.
- Power requirement : 230Volt/50Hz, Single phase
- Double door facility should be provided
- Lock and key facility should be provided
- Frost free system should be provided
- Warranty: 2 years from the date of installation.

Annexure-VI
Item Code No-16

BATTERY FOR UPS

- Sealed Maintenance Free Battery (VRLA)
- 12 V - 26 AH
- Make: Exide/Panasonic
- Warranty : 02 years warranty from the date of installation
- Performance Bank Guarantee – 10% of the order value which shall be released after 2¼ years.

Annexure-VI
Item Code No-17

BATTERY FOR UPS

- Sealed Maintenance Free Battery (VRLA)
- 12 V - 07 AH
- Make: Exide/Panasonic
- Warranty : 01 years warranty from the date of installation
- Performance Bank Guarantee – 10% of the order value which shall be released after 1¼ years.

CHECK LIST FOR BIDDER

1. Bid on original Tender from only.
2. Earnest money or necessary documentary proof for exemption of earnest money with the part 1 of the bid.
3. Price bid must be with part III of the bid in the form provided at Annexure –II of the tender document.
4. The basis price, taxes, packing, forwarding, handling, transportation, insurance, installation charges etc. must be quoted clearly. Do not use vague terms like “As Actual, Approximately etc”.
5. Do not use the terms as per specification of tender document in respect of instruments. There should be proper write-up of product quoted for and supported with printed leaflets literature.
