VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, ODISHA



P.O: Engineering College Burla (Siddhi Vihar), Dist: Sambalpur Odisha- 768018, India

Website: www.vssut.ac.in, E-mail: registrar@vssut.ac.in, Ph:(0663)2430573,Fax-2430592

No. VSSUT/Civil/ 597/2023

Date: 06/03/2023

TENDER CALL NOTICE

Sealed tender are invited from intending reputed and experienced Manufacturer / Authorized Distributor / Dealer having valid license / certificates for the quoted item and the direct Importers holding valid Import License Manufacturer / Authorized Distributor / Dealer of the product for Supply and installation of 'TOC analyzer' for Civil Engineering Department under RPS - NDF-AICTE project. Last date and time for receipt of tender is 5 pm of 29th March 2023.

No. VSSUT/Civil/598/2023

Date: 06/03/2023

REGISTE

Copy to:

- 1. The Director, Department of I & PR, Govt. of Odisha, Bhubaneswar with request to publish the above advertisement in one issue of the all-Odisha daily edition of "THE SAMAJ" and English daily "THE NEW INDIAN EXPRESS (ALL ODISHA EDITION)" using minimum space at the I & PR approved/ lowest rate. The bill may be sent in triplicate along with a copy of the paper in which the publication is made
- 2. University Notice Board of VSSUT, Burla.
- 3. Comptroller of finance for information and necessary action.
- 4. PA to Vice Chancellor for information of the Hon'ble Vice Chancellor.
- 5. PA to Registrar for information and necessary action
- 6. The Dean F&P with a request to display the advertisement in University website.
- 7. Dean, SRIC for information

REGISTRAR VSSUMBURIA

SECTION -I: INVITATION FOR BIDS (IFB)

Sealed Bids (properly stitched separately) in two separate covers (Technical Bid and Price Bid) are invited by the "The Registrar, Veer Surendra Sai University of Technology, Odisha" from reputed and experienced Manufacturer / Authorized Distributor / Dealer having valid license / certificates for the quoted item and the direct Importers holding valid Import License Manufacturer / Authorized Distributor / Dealer of the product for Supply and installation of TOC analyzer (detailed technical specification given at Section IV) to VSSUT Burla, Odisha.

The Bidders may download the **Tender Documents** directly from the website available at http://www.vssut.ac.in and the Tender cost fee of Rs. 500.00 (Non-refundable) by way of separate Demand Draft drawn in favour of "The Registrar, Veer Surendra Sai University of Technology, Burla" payable at SBI, Burla should be enclosed along with the Bid. The Tender cost fee and the EMD amount should be submitted separately in separate demand drafts. The tender fee must be submitted along with the tender paper, otherwise the tender paper shall be rejected. In case of any bid clarification, responsibility lies with the bidders to collect the same from the website and the purchaser shall have no responsibility for any delay/omission on part of the bidder.

TIME SCHEDULE:

- a) Price of bidding document: Rupees 500.00 (Non-refundable)
- b) Date of commencement of downloading bidding document 17:00 Hours of 06th March 2023.
- c) Last date and time for Receipt of tender 5 pm of 29th March 2023.
- d) Time and date of opening of Tender and technical bid 11 AM 31st March 2023.
- e) Address for Receipt of Bid Documents

THE REGISTRAR,

VEER SURENDRA SAI UNIVERSITY OF TECHNLOGY, ODISHA
At- Burla, Po-Burla Engineering College, Dist-Sambalpur-768018,
Tel. No-0663-2430211, Fax No-0663-2430204

f) Contact. No - +91-8280122184 & mail ID: head_civil@vssut.ac.in

REGISTRATO VSSUT BUGS

SECTION-II: GENERAL TERMS AND CONDITIONS

GENERAL TERMS & CONDITIONS OF CONTRACT FOR SUPPLY, INSTALLATION AND DEMONSTRATION OF THE INSTRUMENTS REQUIRED FOR DEPARTMENT OF CIVIL ENGINEERING, VSSUT BURLA, ODISHA.

1. Document Establishing Bidder's Eligibility and Qualification

The Bidders shall furnish as part of the Bid the following Documents establishing Bidder's eligibility and qualification to the Purchaser's satisfaction.

- 1.1 Manufacturer / Authorized Distributor / Dealer having valid license / certificates for the quoted item and the direct Importers holding valid Import License Manufacturer / Authorized Distributor / Dealer of the product are eligible to participate in the Bid.
- 1.2 If the Bidder whether manufacturer/distributor/dealer, have experience of supply and installation of the quoted items in reputed Government Institutions/Public Undertakings/reputed Private Institutions within India and documentary proof must be submitted.
- 1.3 Bidder shall have to provide operational Training for **Instruments** to one Official at VSSUT at a date **suitable to Purchaser**.
- 1.6 The Bidder shall quote items of one reputed Brand/model with all specified accessories in complete to perform functionality of Instrument.

2. Document Establishing Goods Eligibility

The instruments and equipment offered against the schedule of requirement of instruments should be in accordance with the stipulated specifications and of one reputed brand/model.

- 2.1 The documentary evidence establishing the brand and the model may be in the form of literature, pamphlets, manuals, drawing, circuit diagram etc.
- 2.2 Detailed description of instruments with essential technical and performance characteristics may also be furnished.

3. Technical Bid (COVER - A)

The following document should be submitted in cover-A.

- 3.1 Earnest Money Deposit (EMD)
- 3.2 Technical details of the equipment and machineries as per Annexure-V.
- 3.3 Copy of the manufacturing license/ import license/ Authorized Distributor/ Dealer certificates
- 3.4 Copy of the authorization from the Manufacturing Company in case of Authorized Distributor /Dealer in **Annexure-III** along with Manufacturer Industry Registration and Tax Registration Certificate.
- 3.5 Copy of the IT PAN Card & GSTN.
- 3.6 The original bid document signed & sealed by authorized person in each page as a token of acceptance of all terms and conditions of the tender with original receipt.
- 3.7 Any deviation in the specification of the item including standard accessories / optional accessories in complete for functionality of Machine should be marked in **bold letters**. (NB: Variation in specification is allowed upto ±5% in case of Machineries/Equipments)
- 4. Price Bid (COVER B)
- 4.1 The hard copy of price bid giving the rates for various instruments and other items should be submitted. Price Bid (Cover B) of the bidders who qualify in Technical Bid (Cover A) will only be opened.
- 4.2 The price of the each item shall be quoted separately as per the prescribed Price Schedule Format at Annexure-I along with price break up of custom duty, GST, Packing, Forwarding and Handling charges, Insurance charges, ET, Freight up to destination including unloading, commissioning including testing and



training with total price per item at **FOR** destination. The bidders are required to submit the individual price of each instrument(s) and equipment(s) as indicated in the schedule of requirements.

- 4.3 Each quoted item and all accessories should cover the warranty / guarantee for minimum 1 (one) year from the date of commissioning (Annexure-II).
- 4.4 The cost of standard accessories shall be included in basic price and optional accessories/warranty/annual maintenance shall have to be quoted separately.

5 BID CONDITIONS

- 5.1 A copy of the original bid conditions and the schedules should be signed by the bidder at the bottom of each page with the office seal duly affixed and returned along with the bid. Bid schedule should be duly filled in with an index and page number for the documents, enclosures & EMD etc. Paging must be done for all the documents submitted.
- 5.2 Bids should be type written or Computerized and every correction/ over writing in the bid should invariably be attested with signature of the bidder with date before submission of the bids to the authorities concerned. No revision of price upward or downward will be allowed once the bid is opened. However the purchaser shall have the right for considering the exchange rate of foreign currencies on verification of documents.

5.3 Bid Price

- (a) The contract shall be for the full quantity as described above. Corrections, if any, shall be made by crossing out, initialing, dating and re-writing.
- (b) All duties, taxes, and other levies payable on the raw materials and components, job contract shall be included in the total price.
- (c) Taxes in connection with the sale shall be shown separately.
- (d) The rates quoted by the bidders shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- (e) The price shall be placed in Rupees only.

5.5 Tax clearance

Copies of valid Tax clearance Certificates shall be furnished by the Bidders and the originals of the above certificates shall be produced to the purchaser before placement of notification of award if asked for by the Purchaser.

5.6 EMD

All bidders are required to submit EMD not less than 2% of the quoted amount in shape of Demand draft drawn in favour of "The Registrar, Veer Surendra Sai University of Technology, Burla" payable at SBI, Burla only. The EMD shall be in Indian Rupees.

NOTE: Non-submission of EMD or submission of less EMD than the desired one or submission of EMD in any other form except Demand Draft shall result in rejection of Bid. The EMD deposited against other Bids cannot be adjusted or considered for this Bid. No interest is payable on EMD.

5.7 SUBMISSION OF BIDS

Sealing and Marking of Bids

Bid should be submitted in two Bid system containing two parts as detailed below.

Sealed Cover-A: Technical Bid.

Sealed Cover-B: Price Bid

Both the sealed envelopes should then be put in one outer cover and each cover should have the following indication:

marcation.	
i) Reference No of Bid	
ii) Bid regarding	
iii) Due date & time for submission of the Bid	
iv) Due date & time for opening of the Bid	
v) Name of the Firm	



NOTE:

A. Bids submitted without following two Bid system procedures as mentioned above will be summarily rejected.

B. Please Note that **prices should not be indicated in the Technical Bid**. The Prequalification documents required in the Bid should invariable be accompanied with the Technical Bid (**Cover A**). The outer envelope shall indicate the name and address of the bidders to enable the bid to be returned unopened in case it is declared "**late**". If the cover containing the outer envelope is not sealed and marked as required, **Purchaser** will assume no responsibility for the bid's misplacement or premature opening. The above procedure shall be adopted both for the Technical bid and price bid separately. Telex, cable, email or facsimile bids will be rejected.

5.8 Deadline for Submission of Bids

Bids must be received by the **Purchaser** at the address specified not later than the time and date specified in the Invitation of Bids. In the event of the specified date for the submission of bids being declared a holiday for the **Purchaser**, the bids will be received up to the appointed time on the next working day. The **Purchaser** may, at its discretion, extend this deadline for submission of bids by amending the bid document, in which case all previous rights and obligations of the purchasers and bidders will remain same till the extended date.

5.9 Modification and Withdrawal of Bids

No Modification and Withdrawal of Bids is allowed between the interval of time of submission and the last date and time of the bids. No bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the bidders on the bid form.

5.10 BID OPENING

The Purchaser will open all bids, in the presence of bidder's representatives who choose to attend at 11 AM 31st March 2023 at the Office of the "HOD, Civil Engineering, Veer Surendra Sai University of Technology, Burla".

- 5.11 The bidder's representatives who are present shall sign a register evidencing their attendance. In the event of the specified date of bid opening being declared a holiday for the Purchaser, the bids shall be opened at the appointed time and location on the next working day.
- 5.12 The bidder's names, and the presence or absence of the requisite EMD and such other details as the Purchaser, at its discretion, may consider appropriate will be announced at the opening. No bid shall be rejected at bid opening, except for late bids, which shall be returned unopened to the bidders, on demand.

5.13 Acceptance of the Bid

- (a) Bidders submitting bids would be considered who have considered and accepted all terms and conditions. No enquiries, verbal or written, shall be entertained in respect of acceptance or rejection of the bid.
- (b) Genuine equipment and instrument etc. should be supplied. Bidders should indicate the source of supply i.e. name and address of the manufacturers from whom the items are to be sourced.
- (c) Supply of equipment means Installation and Commissioning (except civil works), Demonstration as well as Training at site. No separate charges will be paid on this account.

5.14 Rejection of the Bid

The Bid document shall be out-rightly rejected under following stipulation and no correspondence will be entertained whatsoever.

- (a) If the Bidders has not furnished the required **Tender paper cost** and **EMD** or EMD exemption certificate from competent authority.
- (b) If the Bidders has not submitted the Price as per the prescribed format Annexure-I



- (c) Manufacturing Authorization Annexure-III and in case of Authorized Distributor / Dealer/Suppliers have to submit Manufacture authorization along with copy of above documents of Manufacture Industry.
- (d) If the bid is not supplemented with breakup of standard accessories / Optional accessories & cost of AMC separately for two years after completion of warranty period (In case of major machinery only).
- (e) Photo copy of the up-to-date valid manufacturing license/ import license (if it is imported) /dealership certificate/Distributor certificate of the product along with Tax registration Certificate of Manufacturer issued from competent authority.
- (f) If the bidders, whether manufacturer or authorized distributor/ dealer have not supplied the required quantity for qualification as per the eligibility criteria and not submitted the performance statement at Annexure-IV with supporting documents.
- (g) If the quoted product of the bidders not confirms to technical specification with complete accessories for functional Equipment/Machinery and standard of workmanship required by the Purchaser.
- (h) If the bidder has not furnished technical details of the equipments and machinery with one make and model as per Annexure-V.
- (i) If bidder will quote items of more than one make/model.
- (j) If the bidder has not furnished detailed mandatory drawings, catalogue/, Foundation drawings & schedule of supply of items, if required.
- (k) If the bidders have not agreed to give bid validity.
- (I) Furnishing of wrong/ambiguous information in the compliance statement may lead to rejection of bid and further black listing of the bidder, if prima-facie it appears that the information in the compliance statement was given with a malafide/fraudulent intent.

5.15 Purchaser's Right to accept any Bid and to reject any Bid

The Purchaser reserves the right to accept or reject any bid and to annul the bidding process and reject all the bids without assigning any reason thereof at any time prior to award of Contract, without thereby incurring any liability to the affected Bidders or Bidders on the grounds of such action of the purchaser. In case no bidder qualifies as per qualifying criteria and standards, purchaser may at his discretion relax qualification criteria for award of contract.

5.16 Evaluation and Comparison of Bids

The comparison shall be of FOR destination price basis including the price of all costs wherever applicable as well as duties and taxes paid or payable on Machineries, instruments and equipment incorporated or to be incorporated in the items including the warrantee/guarantee period from the date of installation.

- The Purchaser's evaluation of a bid will take into account, in addition to the bid price and the price of incidental services.
- The purpose of bid evaluation is to determine substantially responsive bid with the lowest evaluated cost, but not necessarily the lowest submitted price, which should be recommended for award.
- Evaluation of bids should be made strictly in terms of the provisions in the bid document to ensure compliance with the commercial and technical aspects.
- The past performance of the suppliers will be taken into account while evaluating the bids.
- Cost of the inland transportation, insurance and other costs within the Purchaser's Country incidental to delivery of the goods to their final destination;
- Alternative options of offer shall not be allowed.
- Each Bidder shall submit only one quotation with one make & model.
- The quotation would be evaluated separately for each item
- Negotiation may be made with the lowest evaluated bidder.
- Lowest evaluated price shall be taken in to consideration, but not the lowest quoted price.

6.0 Supply Conditions

6.1 Delivery of Goods

The delivery of goods shall be made by the supplier to the Consignee in accordance to the order placed as shall be detailed in the Schedule of requirements & technical specifications.

W/

6.2 Warrantee Period (comprehensive)

The Bidders must quote for a minimum period of 1 (One) year of comprehensive warranty from the date of completion of the satisfactory commissioning as per (Annexure-II). This also includes all accessories related to instruments & equipment quoted for.

6.3 Payment Terms

No advance payment will be made by the Purchaser to the supplier for performance of the contract. 100% of the contract price shall be paid within **30** (thirty) days after satisfactory supply, installation, demonstration, Commissioning & training and stock entry of bills of the goods within due date of delivery.

6.4 Transportation

The Supplier shall be required to meet all transport and storage expenses until commissioning of the instrument(s) / equipment covered in the contract.

6.5 Taxes and Duties

The Supplier shall be entirely responsible for payment of all Taxes, Duties etc. incurred until delivery of the contract goods to the Consignee subject to recovery afterwards in the bill as claimed in the Bid offer. Income Tax as applicable shall be deducted at source.

6.6 Period of Validity of Bids

- The bid rates should be kept open/ valid for a period of 180 days from the date the Bids are opened.
- A bid valid for a shorter period i.e less than 180 days shall be rejected, as nonresponsive.
- In absence of any indication of the date of validity in the bid, it will be presumed that the offer will remain valid for the minimum period i.e. 180 days as prescribed above.
- 6.7 Penalty against Non-Supply In case of non-supply of Stores within the due date i.e. within the date of delivery the EMD deposited by the bidder shall be forfeited.

6.8 Rejected items

No payment shall be made for rejected supplied items. Rejected items must be removed by the bidders within two weeks of the date of rejection at their own cost and replace immediately. In case these are not removed these will be auctioned by the purchaser (at the risk and responsibility of the suppliers) without any further notice.

6.9 Annual Maintenance Contract

The Cost of Annual maintenance contract for next 2 years after warranty period shall be submitted as per the **Annexure at I (b)**. The after sales service during and after the warranty / guarantee period should be available from companies own engineers.

6.10 Jurisdiction of the Court

The Purchaser and the Supplier shall agree that the competent Court at Sambalpur shall have the jurisdiction to try and decide anything between the parties and they may approach the Competent Court at Sambalpur if required at any time.

SECTION - III: FORMS AND ANNEXURE

ANNEXURE-I (a)

PRICE SCHEDULE (ITEM WISE) PRICE SCHEDULE (ITEM WISE)

Item Description (Country of origin with make & model) Item Description Quantity & Unit	/ (A1) Base Price/Unit	(A2) Freight Charge (if any)	(A3) Any Other (If any, Mention Details)	(A) Price excluding GST = A1+A2+A3 in INR	(B) GST in INR	Total = A+B in INR	IN WORDS
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Note-(i) Price Bid performa should be provided individually for all equipments.) Taxes like GST, Freight and or other taxes/ Charges, if any applicable must be explicitly mentioned in this price bid. Any type of correction/addition in price schedule shall not be permissible. Taxes mentioned elsewhere except this price bid will not be taken into consideration.

ANNEXURE-I (b)

PRICE SCHEDULE (ITEM WISE) - B

PRICE SCHEDULE FOR ANNUAL MAINTANCE CONTRACT AFTER COMPLETION OF WARRANTY PERIOD.

Sl. No.	Brief description of Goods Total annual	Quantity in nos.	1 st yr.	2 nd yr.	Annual Maintenance Contract cost	Remarks
	Total allitual		(a)	(b)	For 2 years	

^{**} After Completion of warranty period

Note:

- 1. In case of discrepancy between unit price and total prices, THE UNIT PRICE shall prevail.
- 2. The cost of Annual Maintenance Contract (AMC) which includes preventive maintenance including testing & calibration as per technical/ service/ operational manual, labour and spares, after satisfactory completion of warranty period may be quoted for next 2 years on yearly basis for complete equipment and turnkey (if any).
- 3. The cost of AMC may be quoted along with taxes applicable on the date of bid opening. The taxes to be paid extra, to be specifically stated. In absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
- 4. Cost of AMC will not be added for Ranking/Evaluation purpose. However, the cost of AMC for lowest evaluated bidder is subject to negotiation.
- 5. The payment of AMC will be made as per payment terms of the bid document.
- 6. The uptime warranty and down time penalty shall be as per the bid document.
- All software update should be provided free of cost during AMC period.
- 8. The stipulations in Technical Specification will supersede above provisions.
- 9. The supplier shall keep sufficient stock of spares require during Annual comprehensive Maintenance Contract period. In case the spares are required to be imported, it would be the responsibility of the supplier to import and get them custom cleared and pay all necessary duties.

Place:

Date:

Signature of Bidder Business Address Seal of the Bidder

ANNEXURE - II

WARRANTY MAINTENANCE CONTRACT AGREEMENT.

THIS	AGREEMENT	ma	de the	day of	2	0 be	etween the "	The F	Registra	ar, Vee	er Sur	endra
			Technology,									
M/s.					(nere in	after called	"the	Suppli	er") o	f the	other
part:												
WHE	REAS the Pu	rcha	car invited hide	for cort	ain Goods & a	ncillane	convices viz	cunn	lu and	comm	iccion	ing of

Name of the Equipment and machineries Qty

(To be filled in as per details of goods in the award of Contract)

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

- Maintenance Services shall consist of Preventive and Corrective maintenance of equipment specified above & will include repair and replacement of parts free of cost.
- Preventive maintenance, monthly once, which includes:
 - Check-up to ensure that device connection is proper, cabling is at proper condition etc.
 - Cleaning of the above instruments & equipments and checking the System Performance.
- The Supplier is to furnish the tentative schedule of the preventive maintenance of Warranty Maintenance Contract (WMC) to be carried out.
- 4. The parts replaced must be new parts or equivalent in performance to new parts.
- 5. The Supplier will also provide the same maintenance service in case of the movement of equipment from the place of original installation to a different place or location, if the equipment is shifted by the Purchaser to another place or location at the cost and risk of the purchaser.
- 6. Any complaint informed through telephone must be acknowledged with a Complaint No. by the Supplier which will be noted by Consignee. All further contact with the Supplier on such complaint will be initiated through that Complaint No. Once rectification done, that No. will be cancelled by both parties. A register is to be maintained by the Supplier where complaints are to be noted along with Complaint No.
- 7. The maintenance shall normally be done at the earliest.
- 8. The Service Engineer of the Supplier will be allowed to handle the respective plant & machineries only in presence of the officer in charge at the Consignee site.
- 9. The Supplier should ensure that maintenance job is not hampered/delayed due to paucity of spares/inadequate manpower etc.
- 10. The Supplier should submit the services call report, to the Consignee for each and every service call without fail.
- 11. The Supplier evaluation data format for the WMC of Consignee systems may be filled up for necessary action.
- 12. All formats after filled up should be signed at the end of each page by the Supplier.
- 13. After completion of the work/repair/maintenance, the Purchaser shall issue a certificate of completion to the supplier to that effect.

Signature For the Purchaser Name: Designation: Address: Telephone No:

Signature
For the Supplier
Name:
Designation:
Address:
Telephone No:

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ANNEXURE-III

MANUFACTURES' AUTHORISATION FORM

NO.	/ Date
16"	
The Registrar,	and the last of projection project between more a
VSSUT Odisha	A STATE OF THE RESIDENCE OF THE PARTY OF THE
Burla, Sambalpur.	
Dear Sir, Bid No	
We	who are established and
manufacturers of	who are established and reputablehaving factories at
M/s	(Name and address of Agent) to submit a bid and sign the
contract with you against the above bid.	gard, to submit a bid and sign the
So y	
No company or firm or individual other the conclude the contract in regard to this business	an M/s are authorized to bid and against this specific invitation for bid.
We hereby extend our full guaranty and warr services offered by the above firm against this b	anty as per general conditions of contract for the goods and id.
	Yours faithfully,
	(Signature for and on behalf of Manufacturers)
Note: This letter of authority should be on the	e letterhead of the manufacturer and should be signed by a

person, competent and having the power of attorney to bind the manufacturer. It should be included original by the Bidders in its bid.

• This para should be deleted for simple items where manufacturers sell the product through different

- stockiest.
- The Supplier/Managing Director of the Company (if the supplier is a Company) or the Power of Attorney Holder having specific power to sign the contract can only sign the contract/execute the agreement.

Oy/

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Details of the bidders

Bid Reference No.

Name and address of the Bidder:

- 1. Name of the bidder
 - a) Full postal address
 - b) Full address of the premises
 - c) Telegraphic address
 - d) Telephone number
 - e) Fax number
 - f) E mail:
 - g) PAN No
 - h) GST No
- 2. Total annual turn-over (value in Rupees)
- 3. Quality control arrangement details
- Test certificate held
 - a) Type test
 - b) BIS/ISO certification
 - c) Any other
- 5. Details of staff
 - a) Technical
 - b) Skilled
 - c) Unskilled
- 6. Branch Office/ Contact Person/ Liaisoning Office in Odisha.
 - a) Address
 - b) Telephone No.
 - c) e-mail,
 - d) Fax

Signature and seal of the Bidder

ANNEXURE-V

Technical details of the Instruments to be supplied by the bidder

Bid SI. No. of the item	Tender specification	Bidders Specification with make and model no (Enclose manufactures catalogue / brochure for each item)	

Signature and seal of the Bidder

SECTION-IV: SCHEDULE OF REQUIREMENTS AND TECHNICAL SPECIFICATIONS

1	TOC analyzer	Name & Specification of Instrument	Quantit
		ation & other conditions:	1
	 Description 	: Microprocessor / PC based analyzer with facility for direct measurement of Total Carbon (TC), Inorganic Carbon (IC) & Total Organic Carbon (TOC) in all types Aqueous Samples.	
*	Measuring Methods	: Sample oxidation using High Temperature 680°C or above Catalytic Combustion with Non-Dispersive Infrared (NDIR) detector system.	S IN
	Operation Method	: Should be able to operate/control with PC	
	 Applications 	: Suitable for Highly Pure Water to Highly Polluted Water viz., Source/Raw water (River water, ground water, lake water, sea water, Rainwater), Irrigation water, Drinking water, Treated Waters (DM Water, MF Water, RO Water, Desalinated Water), all Process Water, Recycled Water, Effluent Water etc.	
	Measuring Range	The system measuring range should be 0 -30,000 mg/L with automatic dilution	
	 Detection Limit 	: 5 μg/L	
	Accuracy	±5% max	
- Mari	Sample Entry :	Automatic capillary suction even without auto sampler and the System should accept aqueous samples having suspended solids up to 500-micron size	
•	Sample injection: volume		
-	Measuring Time :	Less than 8 minutes	
	Power Supply :	220 to 240 ± 10% VAC, 50Hz	
-	Carrier Gas :	Pure Zero Air, Cylinder with regulators	
G. 1	Data processing: Li SD and CV calculat dilution requireme	nearization, peak detection, calibration, area calculation, ion, automatic re-analyses of samples depending upon	
98	leakage check, time checks and correcti	s: Aspiration, measurement, injection, volume setting, arrier gas, self-diagnostics, warning for abnormalities, er for restarting from running conditions, Automatic blank on, Multipoint calibration, Baseline auto-correction, but down after furnace cooling.	
	TOC system should	be provided with 1 year warranty.	
	Arter succession inst	hould be installed and commissioned at our laboratory. callation of the system and its peripherals, personnel should be provided with hands-on and in-depth	

training.

 Should have experience of supplying the TOC analyzer of same Brand to minimum three central/ state government funded educational institutions/ organizations. Detailed list along Purchase order must be enclosed.

Optional Items to be quoted separately

- Branded Computer system with mouse and keyboard with i3 processor, 500GB hard disk, windows 8 or higher, RAM 4GB, 15" LED monitor configuration to run TOC should be quoted as optional.
- Universal double stage gas regulator & UHP grade gas cylinder (47ltr) as a carrier gas with purifier system, along with necessary fittings should be quoted as optional for the TOC system.
- Additional 1 year warranty can be quoted separately.
- Annual Maintenance charge for 2 years after 1 year of warranty can be quoted separately.