TAMIL NADU DR. J JAYALALITHAAFISHERIES UNIVERSITY

Lr.No.5/DSA/EBCeSA/NADP 2019-20/TOC analyser+accessories/2020, dated 28.12.2020

THE SCHEDULE

I. GENERAL REQUIREMENT

Last date for submission of Tender is 18.01.2021 upto 5.00 PM. Date of opening of tender is on 19.01.2021 at 11.00AM. If the tender Opening date is declared as a Holiday by the Government, then the next working day will be the day for opening of tenders. Tenderers should state in the body of their letter whether they are:

i. Manufacturers (or)
ii. Manufacturers authorized agents (or)
iii. Holders in stock of the stores tendered for
iv. TNGST Number should be quoted
v. The offer should be submitted to two separate envelopes, one for technical bid and the other for commercial bid (marked on top of the envelope as TECHNICAL BID and COMMERCIAL BID). Both the bids should be submitted in sealed closed cover.
vi. The second cover (Commercial bid containing the Price quotation will be opened only if the technical bid found qualified).
vii. Indian agents of Foreign Principals should submit their offer / tender along with original proforma invoice from their Principals. Tender should be submitted as per detailed specification for the equipment / item with Earnest Money as specified in this document, through FDR / Demand Draft and should be enclosed.
viii. A certificate should be submitted to the effect that spares of the equipment will be available upto 7 years (3 years warranty, 2 year guarantee, 2 year comprehensive AMC) after warranty is over, otherwise the equipment will be replaced under buy back scheme at 50% of the original price of the item / equipment.
ix. The tenderer should furnish a list of supply of such instruments to reputed / accredited institution / industries in the last three years since January 2014 and should be working satisfactorily. Documentary evidence to this effect should be provided with the tender.
x. All the pages of the terms and conditions should be signed by the tenderer or his authorized signatory with seal

II. DEVIATION FROM SPECIFICATION

The tenderers are requested to study the specification stated below:

Tender for the **Supply of TOC Analyser +Accessories**– 1 No.

TOC/Total Carbon Analyser

Purpose : To analyse Total Carbon and Total Nitrogen in liquid samples

S.No	Specifications	Descriptions
1	General description	Microprocessor and PC based analyzer with facility for direct measurement of Total Carbon (TC), Inorganic Carbon (IC), Total Organic Carbon (TOC), Non-Purgeable Organic Carbon (NPOC) & An attachment for the TOC analyzer with facility for the direct measurement of Total Nitrogen (TN) in all types Aqueous Samples. Required Operating PC should be supplied to run TOC/TN analyzer.
2	Operating Principle/Measuring Methods	Sample oxidation using High Temperature (680^0C) or above Catalytic Combustion with Non-Dispersive Infrared (NDIR) detector system to analyze all the organic compounds including hard to decompose insoluble and Macro molecular organic compounds without salt interference. Measurement based on standard methods prescribed in ASTM 5310B, EN 1484, CPCB Guide Manual Page no 88 Item No 15. TN Measurement using Catalytic thermal decomposition / Chemiluminescence method according to EN 12260 & ASTM D 8083-16
3	Operation Method	Analyzer should be operated/controled with PC. Compatible PC and Printer should be provided along with Analyzer.
4	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.
5	Measuring Range	The system measuring range of TOC should be 0 -30,000 mg/L with automatic dilution. Total Nitrogen measuring range should be 0 -10,000 mg/L
6	Detection Limit	5 µg/L or below
7	Repeatability	±1.5% of the measuring range for TOC ±3% of the measuring range for TN
8	Sample Entry	Automatic capillary suction even without auto sampler and the System should accept aqueous samples having suspended solids up to 500-micron size with injection volume variable from 10 -

		2000 micro litre.
9	Measuring Time	3-5 minutes
10	Instrument background correction and check function	A Built-in zero blank check function is required to perform background correction/check function. The blank check function should evaluate system blanks by measuring ultrapure water processed automatically within the instrument.
11	Power Supply	220 to 240 ± 10% VAC, 50Hz Minimum 1 hr suitable power backup UPS should be provided. (3KVA)
12	Carrier Gas	Pure Zero Air, Cylinder with regulators and all tubing and connection should be provided.
13	Automatic selection of calibration curve	An option of selecting optimal calibration curve automatically for the given any 3 calibration curves set for sample is required. Multipoint calibration curves to be created with single stock solution
14	Future upgradations	The analyzer should have provision to add accessories to measure Solid samples.
15	Additional requirements	* Evident of Minimum 5 numbers of installations in the last 3 financial years with satisfactory performance certificates * Minimum 5 Performance satisfactory certificates from the previous supply
16	Installation & commissioning	The instrument should be installed, tested and commissioned by representative of supplier at **Erode Bhavanisagar Centre for Sustainable Aquaculture** premises to the satisfaction of user. Full installation kit and operational manual should be provided.

NUMBER REQUIRED :1 No.

Price Quote (Exclusive of Taxes) :

Taxes :

Warranty :

Validity :

Delivery Period :

Installation and Demonstration :

Signature of the supplier with Date

TENDER TERMS AND CONDITIONS

I. SERVICE CONDITION:

Warranty for three years and Guarantee for two years haveto be furnished.

II. AMC:

1. Comprehensive AMC for next two years to be quoted separately along with consumables.
2. In case of deviation or alteration the same should be brought out boldly and prominently in the offer made.
3. Any terms or conditions not brought out in the body of the offer will not be considered.
4. In case any condition or terms of contract applicable in the invitation of Tender is not acceptable to the Tendering firm they should specifically state deviation therein from the body of their tender.
5. In the body of the letter, the tenderer should specifically state that he/she agrees for sole arbitration by the Finance Officer, Tamil Nadu Dr. J. Jayalalithaa Fisheries University, Nagapattinam.

III. PRICE

a) Prices must be in terms of Rupees / equivalent currency
b) The unit prices should be for the equipment / accessories as indicated in the schedule of tender enquiry / items basically needed for Supply and Installation**TOC Analyser + Accessories**and not for any other equipment.
c) Prices quoted should be for delivery at site, as specified in the supply order inclusive of charges such as packing, forwarding and insurance on transit.
d) Discount if any, should be indicated prominently.
e) Prices quoted shall be firm in all respects and for each equipment/item.
f) Tenders with price variation basis will not be accepted.
g) The offer should be kept valid for six months from the date of tender and supply and installation is expected before **February - 2021**

The tenderer is solely responsible for the equipment till delivered and demonstration of the equipment to be conducted to the full satisfaction of the authority.

IV. EARNEST MONEY TO BE DEPOSITED ALONG WITH THE TENDER

Each tender should be accompanied by an Earnest Money Deposit of @ 1% of the estimated price offered by them in the form of Demand Draft, bankers cheque, specified small savings instruments or where the procuring entity deems fit, irrevocable bank guarantee in a prescribed form drawn in favour of **Director, Directorate of Sustainable Aquaculture, Thanjavur** failing which the tender will not be considered. Cheques will not be accepted. If for any reason the tenderer withdraws the tender before or after being selected or before being rejected by the competent authority, the Tamil Nadu Dr. J.

Jayalalithaa Fisheries University reserves the right to forfeit the deposit in part or in full. The Earnest Money deposited will be refunded to the unsuccessful tenderer. In the case of successful tenderer, the amount will be adjusted towards Security Deposit.

V. SECURITY DEPOSIT:

The successful tenderer (hereinafter referred to as contractor) shall also furnish a security deposit of not less than five per cent of the value of the orders placed in the form of Demand Draft, bankers cheque, specified small savings instruments or where the procuring entity deems fit, irrevocable bank guarantee in a prescribed form drawn in favour of the **Director, Directorate of Sustainable Aquaculture, Thanjavur**, within 15 days from the date of intimation of the acceptance of the tender. The Security Deposit will be inclusive of the Earned Money Deposit, already remitted.

The Security Deposit at 5% will be refundable only after the expiry of a period of One Year from the date of handing over the stores in working conditions/ completion of the work to the full satisfaction and upon the Tamil Nadu Dr. J. Jayalalithaa Fisheries University, issuing a Certificate that no amount is due from the contractor under the agreement and that the contract executed an agreement on a non-judicial stamp paper of the value to be fixed incorporating the terms and conditions of the contract within one month from the date of intimation of the acceptance of the tender. In case of default of these conditions i.e. remitting security deposit and executing agreement within the time allowed, the earnest money deposit will be forfeited without prejudice to any other right of the University service. The University will also be entitled to make other arrangement for obtaining these items from others and recover from the contractor any excess expenditure or cost incurred by the University over the contract price together with all charges, expenses and damages attending to such purchase, provided the **Director, Directorate of Sustainable Aquaculture, Thanjavur**, in specific application from the contract grant extension of time in specific circumstances in the matter of payment of security deposit and execution of agreement.

VI. DELIVERY

The supplies shall be subject to inspection and acceptance or rejection by the Director DSA, Tamil Nadu Dr. J. Jayalalithaa Fisheries University or such other person as the Director DSA, Tamil Nadu Dr. J. Jayalalithaa Fisheries University shall from time to time name and appoint for the purpose, the said person to be named and appointed being hereinafter referred to as the Inspection Officer.

The supplies made by the tenderer which in the opinion of the Director DSA, Tamil NaduDr. J. Jayalaithaa Fisheries University or the Inspecting Officer in bad order, unsound in quality or description or not in accordance with specifications as have been prescribed in that behalf or otherwise faulty or unfit for use, shall be rejected.

The supplies so rejected shall be removed by and that the expenses of tenderer within 15 days after he has been given notice of the rejection. If not taken away, the Director DSA, Tamil Nadu Dr. J. Jayalalithaa Fisheries University may cause the goods to be removed and

disposed off in the manner he may deem fit and recover from the tenderer the expenses incurred in such removal and disposal.

The substitution of supplies which have been rejected by the Tamil Nadu Dr. J. Jayalalithaa Fisheries University or the inspecting Officer in whole or in part under the provisions herein before contained the tender shall and will within the time permitted by the Tamil Nadu Dr. J. Jayalalithaa Fisheries University or the inspection officer after such rejection shall have been notified to him as aforesaid supply and delivery without causing any extra cost of expenditure. If not so supplied and delivered by the tenderer or substitution, as aforesaid and also in case of failure by the tenderer to supply and deliver supplies demanded from him under this tender within the period prescribed for supply and delivery, Tamil Nadu Dr. J. Jayalalithaa Fisheries University or the Inspecting Officer shall have the power to purchase from others in lieu of rejected or not delivered goods and any excess expenditure or cost incurred by the University over and above the tenderers price together with all charges and expenses attending to the purchase shall be recoverable from the tenderer. Nothing herein contained shall prejudice any other right of the University on that behalf under the tenderer or otherwise.

VII. PAYMENT:

The payment will be made in two parts as below:

90 per cent of the payment will be made on delivery of the goods at the place of installation and the submission of the documents. 10 per cent of payment will be made after the installation and inspection of performance of the equipment.

A guarantee towards the supply of spare parts if any when required on the agreed basis for on agreed price

VIII. THE TENDERER SHALL FURNISH THE FOLLOWING GUARANTEE

A guarantee to the effect that articles supplied shall be of the best quality and workmanship and shall be in with such quantities and such price. A guarantee for the period of one year or more from the date of handing over the equipment for the proper functioning of the equipment and systems and any defects in their proper function during the guarantee period should be rectified by the tenderer at free of charge. If during the guarantee period, the supplies are found not to the description and quality offered, the University will be entitled to reject the articles and the supplier shall replace or pay the tenderer, University such damages that may arise including the replacement of cost and towards delay and damages. Nothing herein contained shall prejudice any other right of the University on that behalf under the tender or otherwise.

IX.TRANSFER OF SUPPLY

The tenderer shall not transfer or assign the supply or any part there or any interest therein directly or indirectly to any person or persons whomsoever without the written consent of the University.

X. If the supply order is placed on a higher tenderer as a result of the inability of the tenderer then he will be liable to pay the University the difference between the supply rate and that the lowest acceptable tender and incorporated in the supply. This is in addition to and without prejudice to other rights under the terms of the tender.

XI. INSTALLATION AND TESTING

a) The time allowed for completion of supply and delivery as prescribed including demonstration under the conditions of the tender is the essence of the tender. The tender should include the installation, commissioning and trial.
b) Without prejudice to other rights under the terms of this tender or otherwise.
c) If the tenderer fails in the due performance of his supply within the time fixed in the supply or any extension thereof, the tenderer is liable to pay as liquidated damages up to 2% per month of the supply value of such portion of the materials as have not been delivered, installed and commissioned and having been delivered and commissioned cannot in consequence of the delay be used efficiently during each month between the appointed or extended time as the case may be and the actual time of delivery installation.

The tenderer is not entitled for any enhancement of the rates once accepted. It shall be lawful for the purchaser to set off any loss or expense or cost of damages sustained or incurred by the purchaser by reason of the cancellation of the tender form and out of any nominees for the time being payable or due to the tenderer from the University otherwise apart from forfeiting the security deposit furnished by the tenderer. All sums found due to the University under or by virtue of these presents shall be recoverable from the tenderer in any manner as the University may deem fit.

XII. Any notice or communication to the tenderer shall be deemed to be sufficiently served if given or left in writing at his usual or last known place of abode.

XIII. All questions disputes or differences arising under out of or in connection with the supply, if not concluded shall be subject to the exclusive jurisdiction of the place from which the acceptance of the tender is issued, is situated.

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Director
Directorate of sustainable Aquaculture
Soorakottai (PO)
Thanjavur – 614904