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CORRIGENDUM

PUR-87/EP/SEAF/2022-23 Date: 21.10.2022

After the Pre-Bid meeting held on 19.10.2022, Technical specifications of TOC Analyzer is amended and revised specification is as per Annexure-A.

Qualification criteria, Terms & Conditions, Bid submission end date and Bid opening date will remain same.

भंडार एवं क्रय अधिकारी
Stores & Purchase Officer
CSIR-NEERI, Nagpur

Annexure-A

Revised Technical Specification for **TOC Analyzer.**

Revised Technical Specifications for Total Organic Carbon (TOC) analyzer		
Sr.No	**Parameters**	**Requirements**
1	**Method**	High Temperature Combustion using catalyst
2	**Usage**	Analyser should be suitable for TOC analysis in Liquid & Solid samples
3	**Compliance**	The offered instrument should be compliance with USEPA 9060, APHA 5310 B, USEPA 415.1, ISO 8245, EN 1484for TOC liquid, EN 13137 and ISO 10694 for TC/TOC solid.
4	**Combustion Temperature**	680 °C or more for liquid and 1200° C or more for solid in presence of catalyst to ensure complete combustion of all types of sample matrix
5	**Measuring parameters**	TC, TIC, and TOC for solid and TC, TIC, TOC, NPOC for liquid
6	**Measurement modes**	Fully PC controlled automated TOC Analyzer
7	**Measuring Range**	• TOC (Liquid): 10 ppb to 30,000 ppm or more sensitive with automatic sample dilution • TOC (Solid): 10 µg to 30 mg Carbon or better
8	**Calibration**	Automatic Multipoint Calibration with baseline auto correction. Automatic calibration from one stock solution by means of different injection volume
9	**Sample introduction**	Liquid samples: Automatic injection through PC controlled flow injection using auto samplers of minimum 60 positions or more and should have automatic acidification and Automatic purging facility.
10	**Gas requirements**	• Use oxygen/synthetic air as carrier gas as well as oxidant • please provide good quality complete carbon dioxide removal system and hydrocarbon trap between the gas source and instrument • Please offer appropriate gas regulator with connecting tubing's, tool kit for instrument etc
11	**Detector**	NDIR detector (wide range with extreme linearity over the whole working range)
12	**Repeatability**	CV - 2% maximum
13	**Computer and printer**	Instrument should be provided along with computer 12th gen Intel Core i7 processor with turbo boost technology. Display 31.5" diagonal or better, Internal memory 16 GB DDR4 3200 MHz. Total storage capacity: 1 TB SSD, On-board Intel UHD Graphics and preinstalled 64 bit licensed windows 11 home operating system and MS office 2016 package. Black and white laser printer of reputed brand, print speed minimum 30 pages per minute, Automatic 2 side printing, DPI: 1200x1200 or better, Connectivity: USB, Ethernet, wireless
14	**Instrument Control**	Instrument control and data collection through windows-based software (Automatic leak test, Aspiration, Measurement, Injection, self-diagnostics, warning of abnormality, timer for restarting from running conditions)
15	**Data Processing**	Linearization, Base Line correction, peak detection & area calculation
16	**Consumables**	Set of consumables for approximately 1,000 liquid samples and Set of consumables for approximately 1,000 solid samples. Please offer the following consumables additionally. Combustion tube for liquid (with filling) – 5 Combustion tube for Solid (with filling) – 5 Sample holder (crucible/boat) for solid sample – 200 Auto sampler Vials with septum - 1000
17	**Instrument Warranty**	One year standard warranty + two years extended warranty from the date of installation
18	**Warranty on NDIR Detector and Furnace**	Minimum 10 years free replaceable warranty from the date of installation