Specification for TOC/TIC/N Analyzer

Sr. No	Instrument /accessory Component description	Specifications
1	TOC analyzer. The system sh	ould be able to analyses/estimate 1. Total Organic carbon (TOC) 2. Total
		POC in solid and liquid samples and 4. Total Nitrogen (TN) in liquid e equipped with autosampler and PC controlled with software and printer.
2	TOC analyzer unit	TOC, NPOC, TIC, TC:
		Reproducibility: ± 1.5% or better
	Measured parameters	Measuring range <5 ppb to-25,000 mg/L or more
		Detection limit: $\pm 4 \mu g/L$ or better
2		- Fig 2 of oottel
3	N analyzer	TN in bound form (if possible then with the capacity to calculate TO)
		and Till)
		Reproducibility: CV ≤ 3% max
		Measuring range: In between 0-10 000 mg/L (with outcometic 4:14.
4	Solid comple 1 1	Justice in infinit. I Justice in Deller
T	Solid sample module	With all the required accessories for TOC, NPOC, TIC, TC
5	Working temperature range	5 – 40°C or better
6	Data processing	Capable of performing linearization and linearization
		Capable of performing linearization, peak detection, calibration, area calculation, SD and CV calculation etc.
7	Instrument Controls	Automatic power shut down after furnace cooling.
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		Automatic leak detection (preferable)
		The software should be user friendly
	Automatic Sample Injection	• Vial capacity: 20, 30 ml with 50, 100 : 1
	(ASI) unit	 Vial capacity: 20-30 ml with 50-100 vial positions or better At least 1000 number of vials should be supplied with the
		instrument
		 Equipped with automatic stirring facility (preferable)
		• (preferable)
	PC, printer with Software	PC: i5 or higher, 2.8 GHz or more processor speed, with at least 8 GB
		Telli, 1 1D 11DD, CD/DVD read-write combo and 11CD DC
	£	and MS office (at least
		2010 Office Version)
)	Other requirements	Printer: LaserJet tank printer (with at least 1000-page capacity)
	Other requirements	Universal gas regulators and all the cylinders required for
		analysis along with tubing
		• Water purification system with following specifications:
		18.2 Meg Ohm.cm (@ 25 degree C
		< 0.055 µ S/cm
		TOC < 5 ppb
		Bacteria <1 cfu/mL
		Pyrogen <0.001Eu/mL

11	Warranty and AMC	Particulates >0.22µ<1 P/mL Flow Rate 2 L /min All the consumables required for water purification system should be supplied extra for at least 2 years duration. • Sufficient consumables for the analysis of at least 5000 samples should be supplied extra Supplier should provide 3-year warranty along with AMC after successful installation of the system.
12	Installation and training	The entire system should be installed and commissioned at GBP-NIHE, Almora, Uttarakhand. After successful installation of the system and its peripherals, selected scientific and technical personnel from GBP-NIHE, Almora, Uttarakhand should be provided hands-on and in-depth training on the operation