



**INDIAN INSTITUTE OF TECHNOLOGY BOMBAY MATERIALS MANAGEMENT  
DIVISION  
Powai, Mumbai 400076.**

Ref No.(PR No. 1000036854)

(Rfx No. 6100001606)

**Technical Specifications for TOC Autosampler and Total Nitrogen Analyzer (Add on Components)**

Sr No.	Instrument/accessory Component description	Specifications	Quantity	Compliance (Yes/No)
TOC Autosampler and Total Nitrogen Analyzer: The systems should be compatible with TOC Analyzer for liquid samples, with NDIR detector. PC controlled with software, autosampler and Total Nitrogen Analyzer shall also be software controlled.				
1	Automatic Sample injection (ASI) unit	Vial capacity: 40 ml Vial number: 68 With vial septum, additional 1000 Glass vials with septum	1	
	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.		
	Measured Parameters	TOC, TIC, TC		
	Working temperature range	10-35 °C		
	PC with Software	Shall provide software compatible with TOC		
	Installation and training	The entire system should be installed and commissioned at IIT Bombay. Any additional requirements should be mentioned and provided		
2	Total Nitrogen Module	System to be configured with TOC analyzer with	1	

		Chemiluminescence based detector Measured Parameters: Total Nitrogen Reproducibility CV 3%, Measuring Range 0-10,000ppm, Detection Limit +5ppb		
	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.		
	Measured Parameters	TN		
	Working temperature range	10-35 °C		
	PC with Software	Shall provide software compatible with TOC		
	Installation and training	The entire system should be installed and commissioned at IIT Bombay. Any additional requirements should be mentioned and provided		
Terms and Conditions				
		<ul style="list-style-type: none"> <li>• All the system components supplied, should have warranty for three years from date of installations</li> <li>• System performance should be demonstrated with necessary standards and calibration kits which will be provided by the vendor as part of standard delivery</li> <li>• Under warranty all spares to be provided including consumables, maintenance kits, calibration kit etc as and when required</li> <li>• No conditional warranty will be accepted</li> <li>• Basic training for a period of one week after installation &amp; commissioning of the equipment to technical personnel to be provided at our site</li> <li>• On-site training of staff and students (at least twice in a year for 7 days each) during the first 3 years</li> <li>• Good technical support should be provided after the installation of the instrument and the service engineer</li> </ul>		

		<p>should be able to attend unlimited breakdown calls and should visit the installation site within 24 hours without fail</p> <ul style="list-style-type: none"><li>• Service support should be available for 6 days a week</li><li>• Training on troubleshooting the issues associated with instrumentation or application should be provided free of cost whenever required by the user</li><li>• Manufacturer should provide the service support details in Mumbai and India</li><li>• Details of the service engineers and application specialists should be provided along with their experience on these kinds of systems</li><li>• Details of the users (name, phone number and email ID) in India for the quoted instrument in the bid should be provided</li><li>• Instrument performance, quality of service and application support certificates from at least three existing users should be provided, mainly of user from IIT or CFTI or equivalent</li><li>• Maximum educational discounts should be applied</li><li>• The delivery period should be specifically stated. Earlier delivery may be preferred</li><li>• We may provide unknown samples to the vendors for analysis on the quoted models to verify their claims on technical specifications and reserve the rights to reject any or all quotations based on the results</li></ul>		
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