



# Indian Institute of Science

## Centre for Sustainable Technologies



To

**Dr.-Ing. Sreenivasan R.**  
Assistant Professor

**Whom it may concern**

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Web: <https://cst.iisc.ac.in>

30 December 2020

**Our reference: CST-SR-20201230**  
**To be quoted in your response**

**Call for Tenders for**  
**Total Organic Carbon (TOC) – Total Nitrogen (TN) analyser**  
**from Indian manufacturers**

SusPaani Lab at CST, IISc focuses on R&D of (waste)water treatment technologies. The Lab has to be equipped with a TOC-TN analyser suitable for measurement in wastewater samples. Quotations are invited from national manufacturers [ 'local suppliers' as defined by Public Procurement (Preference to Make in India) [Revised Order](#) (English) dated 16-09-2020 ] of TOC-TN analysers which would meet our requirements.

Quotations should be submitted via email (to [sreeni@iisc.ac.in](mailto:sreeni@iisc.ac.in)) before 5 PM of Friday, 15<sup>th</sup> January 2021.

**Technical Requirements:**

1	Capability for measuring	TC (total carbon), TIC (total inorganic carbon), TOC, NPOC (non-purgeable organic carbon), TN
2	In matrices such as	Water (including natural waters containing humic substances), wastewater, sea water and activated sludge
3	Oxidation method	High temperature (catalytic) combustion, temperature $\geq 900^{\circ}\text{C}$
4	Detector	Infrared detector for $\text{CO}_2$ , Electrochemical detector for NO
5	Compliance	The instrument must be suitable for determination of the parameters according to established Indian or international standard methods.
6	Measurement range	0.050 to 10,000 mg C/L                      0.10 to 100 mg TN/L
7	Analysis time	should be generally $\leq 10$ min per sample
8	Autosampler	having a capacity for at least 20 samples is required
9	Software	Suitable software should be provided without any added cost. Provision of a suitable computer (with appropriate configuration) is desirable.

## **Terms & Conditions:**

### Quotation format:

- The quotation must be addressed to The Chairman; Centre for Sustainable Technologies; Indian Institute of Science; Bangalore – 560012.
- Mention our reference number in your quotation without fail.
- The quotation should describe the technical specifications of the product. It should particularly address all the attributes considered in our technical requirements.
- Product brochure shall be enclosed (as PDF) with the quotation.
- The quotation must be valid for at least 90 days.

### Pricing, delivery, & payment:

- The price quoted should be all inclusive. The different components must be shown separately:
  - Base price for the components
  - Discounts (if any)
  - Transportation and insurance (up to site)
  - Installation charges (if any)
  - Taxes (as applicable).
- Free of cost installation & commissioning is desirable. Demonstration and necessary training shall be provided by your trained personnel without any added costs.
- IISc is eligible to get a concessionary rate of 5% for GST on goods for research purpose. You are required to facilitate the same, upon production of GST concessional certificate.
- Delivery period is to be specified. Delivery within 2 months or less will be given preference.
- Payment will be made only after satisfactory delivery of all goods and services (including installation and commissioning).

### Customer base, warranty & support:

- The instrument must have been supplied to laboratories in central government funded institutions (such as IITs, IISERs, NITs, CSIR Institutes, etc.). Please provide a list of 3 such references.
- Please provide details on the availability of trained service personnel in the country. Availability of technical support and issue redressal within 3 working days is desirable.
- Warranty period of (i) minimum 5 years on the furnace and IR detector, and (ii) minimum 1 year on other parts, from the date of installation is expected.

### Verification of local content:

- The percentage of local content should be indicated in the quotation.
- A self-certification should be provided that the item offered meets the stipulated local content requirement. Details on location(s) at which the local value addition was made, should also be furnished. Please refer “Public Procurement (Preference to Make in India) [Revised Order](#) (English) dated 16-09-2020” for more details.

Sincerely,

Sreenivasan Ramaswami