



Forest Survey of India

Ministry of Environment, Forest & Climate Change, Government of India

Kaulagarh Road, P.O. – IPE, Dehradun – 248195

CORRIGENDUM – 01

Dated: 29th September 2020

Refer Tender No: 26-09/2020-CFCA NATCOM-III, Dated: 14th September, 2020

1. Companies those are registered under Micro, Small & Medium Enterprise (MSME), Start-Ups or Udyog Aadhaar of Government of India; should submit the duly filled in proforma mentioned in Annexure III (Page 21) and Annexure IV (Page 22) along with supporting certificates of the competent authority. All Micro, Small & Medium Enterprises (MSME), Start-Ups or Udyog Aadhaar of Government of India are exempted from EMD and tender fee.
2. The Delivery of the goods should be made within a maximum of twelve (12) weeks instead of six (06) weeks from the date of placement of purchase order, in view of present COVID pandemic situation. This correction is done with respect to the point 3 (Page no. 41) mentioned in the 'TECHNICAL SPECIFICATIONS AND DETAILS' of the original tender.
3. In point number 19 mentioning '**Pre-Qualification Criteria for Bidders**' (page 29 of the original tender); the sl. number 8 which mentioned about the certification of CMMI level III has been omitted and its marks has been redistributed as follows:

(This compliance document duly filled in must be submitted by the bidder with the technical bid. Put page number in your technical bid document against each specification column in support of the compliance for verification by Technical Bid Evaluators)

S. No	DESCRIPTION	Parameters	Points	Compliance Y/N
1	The responder's average annual turnover should be at least ₹3.00 Crore (Rupees three crores only) during the last three years. The turnover refers to a company and not the composite turnover of its subsidiaries /sister concerns etc.	>= 3 crore	10	
		<3 crore	5	
2	Preferably the firm should be an OEM of Analytical Grade TC Analyzer. Proof – Factory details & ISO certification for manufacturing of electronics products in India. ISO certificate provided by dealer is also admissible.	Yes	5	
		No	0	
3	Minimum supply of 5 nos. of TC Analyzer to State Govt. or Central Govt./ Govt. aided Institutes/ Organizations in the last three years. (Documentary evidence as in Work Order/ Work Certificate / Proof of Supply documents to be provided)	>= 5	10	
		< 5	5	
4	Fully Windows based PC controlled TC analyser for measurement of TOC, and TC for solid samples. Solid samples include leaves, part of stem, part of root etc. automatically.	Complied	15	
5	The TC analyser should be able to detect the Carbon content automatically for more than 45 samples in a single batch process	>= 45	10	
		< 45	5	
6	High temperature combustion is necessary (more than 1000 °C) to ensure complete combustion of all type of samples.	>=1000 °C	10	
		<1000 °C	5	
7	Certification: Minimum ISO Certification in Electronics goods servicing. Proof – Copy of valid certification	Yes	10	
		No	0	
8	The analyser is required an automatic calibration	Automatic	10	
		Manual	5	
9	Vendor should quote with Synthetic Air Gas Cylinder of 99.99% purity with 01 (one) regulator, 03 (three) 1 ml pipettes and 01 (one) precision balance, 01 (one) Windows PC loaded with Carbon analysing and post-processing software with relevant hardware accessories for the said PC.	Yes	10	
		No	0	
10	A complete working demonstration of the Carbon Analyzer Instrument is required from the vendor, as a part of Technical Evaluation.	Yes	10	
		No	0	
Total Points			100	

4. The 'TECHNICAL SPECIFICATIONS AND DETAILS' of the original tender, has been revised as follows:

Point 2: About the Procurement (Page no. 40 of the original tender)

Total Organic Carbon (TOC) Analyzer for the determination of organically and inorganically bound carbon in solids. General features of Total Organic Carbon (TOC) Analyser for solid samples are as follows:

- ❖ **Measurement modes:** Fully PC controlled TOC analyser for measurement of TOC as well as TC and Direct determination of TOC or as difference from TC/TIC measurements should be possible.
- ❖ **Oxidation method:** High temperature combustion at min. 900°C and above to ensure complete combustion of all type of samples.
- ❖ **Measuring range:** Wide detection range of 0-100%
- ❖ **Detection range:** Minimum 0.5 mcg
- ❖ **Measurement Precision Range:** Standard Deviation: 1-2 %
- ❖ **Wide range NDIR detector** with extreme linearity over the whole working range.
- ❖ Instrument control and data collection through windows based software with LIMS possibility.
- ❖ Sufficient consumables to analyse at least 1000 samples in solid mode.
- ❖ Matrix separation system for long, uninterrupted operation even with difficult samples.
- ❖ Integrated maintenance software with free selectable cleaning cycles, automatic leak test, sleep/wakeup function, real-time control of all instrument parameters like pressure, temperature, gas flow, Advanced mathematical post processing functions like statistical evaluation, automatic or manual peak integration, direct data export to MS Excel.
- ❖ Nominal voltage: 230 / 110 VAC, 50/60 Hz.
- ❖ Vendor should quote for Synthetic Air Gas Cylinder of 99.99% purity with regulator- 1 No.
- ❖ **Price should be quoted for FSI, Dehradun in Indian Rupees only (INR).**

Point 4: Minimum Technical Specification of the TOC Analyzer:

(This compliance document duly filled in must be submitted by the bidder with the technical bid. Put page number in your technical bid document against each specification column in support of the compliance for verification by Technical Bid Evaluators)

S No	Features	Specification	Compliance (Y/N)
A	Analyzer		
1.	Concentration analysis of	TOC and TC	
2.	Operating modes	Solids	
3.	Design	Compact benchtop with single power supply	
4.	Sample introduction	Stepper-motor controlled auto-sampler	
5.	Furnace design	High temperature furnace	
6.	Detector type	Wide-range IR detection (CO ₂)	
7.	System control	Fully digital via external PC (no additional control panel required)	
B	Sample Introduction		
8.	Solid sampling system	Solid sampling system : automatic with 45 or more positions	
C	Furnace		
9.	Type	Resistive heater element with 900 °C and above	
10.	Control	Automatic power output adjustment (no hardware change required)	
11.	Combustion reactor	Quartz/Ceramic tube long life design with separated combustion and reduction tube	
12.	Ash removal	Quartz/Ceramic easy removal ash finger	
13.	Reactor stability	No need for cooling down during routine maintenance	
14.	Carrier gas	Synthetic air or oxygen	
15.	Connections	Quick swap clamp connections for fast changing with no tools required	
16.	Recovery rate	100 % according to high combustion temperature	
D	Detectors/electronics		
17.	Type	IR detector for wide measuring range	
18.	Calibration	Multipoint, multi-range, matrix-independent calibration, unlimited number of calibration sets	

S No	Features	Specification	Compliance (Y/N)
19.	Analysis time	~ 3 to 4 min per parameter measurement, self-optimizing according to element content and sample weight	
20.	Electronics	Fully digital, fully integrated in one unit, no external control panels	
21.	Security norms	As per ISO 9001 security norms or EU machinery directive 2006/42/EG	
E	Software		
22.	Operating system	Windows® 10, Windows® 8, Windows® 7, minimum XP, other systems upon request	
23.	Analyzer software	Software by the manufacturer	
24.	Features	<ul style="list-style-type: none"> • Automatic leak finding software • Error indicator • Auto sleep and wake-up • Statistical calculations • Indication service cycle • LIMS integration • 21 CFR part 11 compliant* • Comprehensive documentation for fast part identification 	
25.	Data Storage	Non manipulated storage of experimental raw data and peak graphics	
26.	Warranty	Calibration Certificate and 3 Years Comprehensive Warranty	

5. Online Bid Submission Last Date & Time has been extended from 05th October 2020 to 08th October 2020 up to 17:30 Hrs.
6. Last date of submission of cost of bidding document, EMD and other offline supporting documents to Director General, Forest Survey of India, Kaulagarh Road, P.O-IPE, Dehradun, Uttarakhand- 248195, has been extended from 05th October 2020 to 08th October 2020 up to 17:30 Hrs.
7. Date and time for opening online Technical bid has been extended from 06th October 2020 to 09th October 2020, at 15:00 Hrs.
8. Rest of the 'Terms and Conditions' remain unchanged and follows according to the floated tender no. 26-09/2020-CFCA NATCOM-III, Dated: 14th September, 2020.