

सी एस आई आर -राष्ट्रीय पर्यावरण अभियांत्रिकी अनुसंधान संस्थान

CSIR- National Environmental Engineering Research Institute

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CORRIGENDUM

PUR-170/EP/SEAF/2023-24

Date: 10.10.2023

After the Pre-Bid meeting held on 09.10.2023, Technical specifications of CHNS Analyzer is amended and revised specification is as per Annexure-A.

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

भंडार एवं क्रय अधिकारी

Stores & Purchase Officer
CSIR-NEERI, Nagpur

10/10/2023

Technical specifications of CHNS Analyzer:**Revised Technical Specifications for CHNS Analyzer**

Sr.No	Items and discription
1	CHNS Determination Method: High temperature combustion 1100 °C or more
2	Operating Modes: CHNS or more
3	Detection Method: TCD /NDIR (Minimum 10 years warranty on the detector is a must)
4	Digestion Furnace: The analyzer must be equipped with two totally independent furnaces or a double furnace system. (Minimum 10 years warranty on the furnace is a must)
5	Gas Separation: Direct temperature programmed desorption or GC column separation
6	Carrier Gas: Helium (Do not quote cylinders)
7	Ash Removal: The Analyzer must have a suitable provision for ash removal
8	Sample weight: The instrument should able to handle soil samples up to 1 g or more
9	Standard Deviation/Accuracy for 0.10% standard: <0.1%
10	Analysis time in CHNS Mode: ≤ 12 minutes
11	Gas Flow Controller: The analyser must be equipped with a Mass flow controller
12	Autosampler for solid samples: 100 positions or above Autosampler should be fully electrical. (A Pneumatic autosampler is not required)
13	Software: Data handling software compatibility for Windows 10 or better.
14	Personal computer to run the data handling software : The latest Branded PC (all in one) has a minimum 13th Gen Intel® Core i7, Preinstalled legal OS: Windows 11 and MS Office 2016, 16 GB, DDR4, 3200 MHz, 512 GB, SSD storage, 60.5-cm. display Full HD (1920X1080), and the Latest compatible duplex monochrome in one Laser Printer of 29/30 ppm speed or better should be provided
15	Other Essential Requirements <ul style="list-style-type: none"> • The weighing balance of readability 0.001 mg should be provided along with the instrument for automatic read-out of weighing data.
16	Warranty: One year standard plus two years extended warranty
17	Installation, commissioning & Training: <ul style="list-style-type: none"> • All the standard accessories, consumables kit adequate to run 1000 samples, assorted tubings, Gas regulators for helium and oxygen cylinders, etc. should be provided by the vendor separately for the installation and sample analysis purposes. • Supplier has to provide operation Training at installation site CSIR-NEERI, Nagpur.