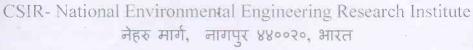
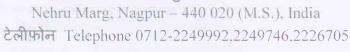
सी एस आई आर -राष्ट्रीय पर्यावरण अभियांत्रिकी अनुसंधान संस्थान





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CORRIGENDUM

PUR-189/EP/SEAF/2023-24

After the Pre-Bid meeting held on 02.11.2023, Technical specifications of Inductively Coupled Plasma Mass Spectrometry (ICP-MS) 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

Date: 06.11.2023

Stores & Purchase Officer GSIR-NEERI, Nagpus

Revised Technical specifications of Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Sr. No.	Items description
1.	Peristaltic pump: Three channels or more Speed: Minimum 30 rpm or more
2.	Spray chamber: Quartz, Temperature range ≤ -5 °C to ≥ +20°C
3.	Mass Range: 7 – 260 amu or better
4.	Mass Resolution : ≤ 0.5 amu
5.	Mass Stability : ≤ 0.050 amu
6.	Torch: Single piece Quartz torch with gas connectivity. Automatic Torch position adjustment
7.	Cones: Sample Cone orifice diameter 1.1 mm or less, Skimmer cone orifice diameter 0.5 mm or less
8.	Collision cell and Reaction cell (CRC): a) Operating in Standard (No gas) b) Collision (KED) and Reaction gas modes. c) Two gas mass flow controllers one for Helium gas and other for Hydrogen, Oxygen,
6	Methane and Ammonia gas
9.	Dwell Time: ≤ 100 μS
10.	Background (cps) : ≤ 1
11.	Sensitivity : $^{7}\text{Li} \ge 55000 \text{ cps/ppb}$ or $^{9}\text{Be} \ge 6000 \text{ cps/ppb}$
12.	Vacuum system (with Noise reduction enclosure): a) Three stage vacuum system or better b) The pumps should be a fume and acoustic free
13.	Chiller: Compact and acoustic free suitable re-circulating chiller with Noise reduction enclosure, Temperature working range 5°C to 35°C
14.	RF Generator: 27 MHz, power range 500W - 1600W or better
15.	Detector : Dual mode (pulse counting and analog mode) Discrete dynode electron multiplier, Calibration linear range over 10 orders of magnitude
16.	Auto sampler with diluter: Minimum 200 samples position or more for 15mL vials with two probes
17.	Software: The MS & UPLC controlled by single Licensed software, Compatible for Data processing, calibration, report generation & Method development with 21 CFR Compliance
18.	Data Station : Computer with following configuration should be provided Processor: i7 or higher; SSD:1TB; RAM: 32GB DDR5 or better, Monitor: 27" LED or better; Operating system: Licensed Windows 11 or higher with Licensed MS Office 21 with all in one printer
19.	Gas Purification Panel: Argon, Helium, Oxygen, Hydrogen, CH4 and NH3 with all required fittings

Installation Commissioning & Training: All standard Accessories including test kits, Multi elements minimum 25 elements Calibration standards. Gas manifold system for two cylinders, Exhaust fume hood system, Two stage Regulators - Helium, Oxygen, Hydrogen, CH4 and NH3 (Each one) should be provided by the supplier to make the instrument operational. Three days operational and maintenance training at CSIR-NEERI, Nagpur Warranty: One year standard + Two years extended warranty. (Three years warranty 21. from the date of installation) 22. Additional Consumables to be quoted separately 1) Nickel Cones: Sampler cones, Skimmer cones and/or hyper skimmers) - 03 sets 2) Platinum Cones: sampler, Skimmer and/or hyper skimmers with all inserts- One set 3) Torch -03 Nos. 4) Nebulizer - 03 Nos 5) Spray chamber - 03 Set 6) Assorted Peristaltic pump tubing - 10 set each 7) Pump oil -2 L. 8) Autosampler Vials -500 Nos. 9) Autosampler probe -02 Sets 10) Assorted Tubing - 05 sets each 11) Assorted O-ring - 05 sets each 12) HF resistant kit (PFA) including nebulizer, spray chamber, torch, injector- one set