



सी एस आई आर -राष्ट्रीय पर्यावरण अभियांत्रिकी अनुसंधान संस्थान
CSIR- National Environmental Engineering Research Institute

नेहरु मार्ग, नागपुर ४४००२०, भारत

Nehru Marg, Nagpur – 440 020 (M.S.), India

टेलीफोन Telephone 0712- 2249746, 2249992, 2226705

ईमेल Email: spo.neeri@csir.res.in वैबसाइट Website: www.neeri.res.in



CORRIGENDUM

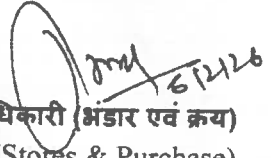
PUR-8/EP/SEAF/2025-26

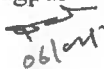
Date: 06.02.2026

Ref.: Tender ID No. 2026_CSIR_263972_1

After the Pre-Bid meeting held on 04.02.2026, Technical Specification 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.


अनुभाग अधिकारी (भंडार एवं क्रय)
Section Officer (Stores & Purchase)
CSIR-NEERI, Nagpur


06/02/2026

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

**Revised Technical Specifications for Procurement of Inductively
Coupled Plasma Mass Spectrometry (ICP-MS)**

Sr. No.	Items description
1.	Inductively Coupled Plasma Mass Spectrometry (ICP-MS): Analysis of trace metals to ppm, ppb and ppt level in diverse kind of samples like water, wastewater, sludge, soil and environmental matrices.
2.	Peristaltic pump : Three channels with 10/12 roller or more
3.	Spray chamber : Quartz, Temperature range $\leq -5^{\circ}\text{C}$ to $\geq +20^{\circ}\text{C}$
4.	Mass Range : 5 – 260 amu or better
5.	Mass Resolution : ≤ 0.7 amu
6.	Mass Stability : ≤ 0.050 amu
7.	Scan Speed : 3000 amu/sec or better
8.	Torch: Quartz torch
9.	Collision cell and Reaction cell (CRC): a) Operating in Standard (No gas) b) Collision (KED) and Reaction gas modes. c) Two mass flow controllers or electronic flow controllers, one for Helium and second for Oxygen, Hydrogen etc.
10.	Dwell Time: $\leq 100 \mu\text{S}$
11.	Sensitivity : $^7\text{Li} \geq 60000$ cps/ppb and $^{238}\text{U} \geq 300000$ cps/ppb
12.	Vacuum system : Three stage vacuum system or better
13.	Chiller : Compact and Temperature working range 5°C to 35°C
14.	RF Generator : 27/34 MHz or more. Power range 500W - 1500W or more
15.	Detector : Dual mode, Discrete dynode electron multiplier, Calibration linear range 11 orders of magnitude or more
16.	Auto sampler : With enclosure, minimum 180 samples position or more for 15mL vials
17.	The system should have integrated AGD or UHMI or AMS dilution capabilities for high total dissolved solids (TDS)
18.	Software: The ICPMS controlled by Licensed Software, Compatible for Data processing, calibration, report generation & Method development operating through computer
19.	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; System should be Wi-Fi enabled, Operating system: Licensed Windows 11 or higher with Licensed MS Office 21 or higher

20.	<p>Installation Commissioning & Training: All standard Accessories including test kits, Multi 33 elements Calibration standards Concentration 1000mg/L 100mL X 2 Nos., Single elements calibration standard (Arsenic, Aluminum, Vanadium, Molybdenum, Boron, Gold, Thorium and Mercury, concentration 1000mg/L 100mL each element), Gas manifold system for two cylinders (Two sets), Exhaust fume hood system, Two stage Regulators and gas purification panel for-Helium, Oxygen and Hydrogen should be provided by the supplier to make the instrument operational. Standard Tool kit should be provided for instrument maintenance. Three days operational and maintenance training at CSIR-NEERI, Nagpur. At least two minimum preventive maintenance visit shall be carried out annually, including supply of one PM Kit setup solution and tuning solution at every PM Visit free of cost during warranty period.</p>
21.	<p>Warranty: Three years comprehensive warranty (Three years warranty from the date of installation)</p>
22.	<p>Consumables</p> <ol style="list-style-type: none"> 1) Nickel Cones: Sampler cones, Skimmer cones and/or hyper skimmers) - 25 Nos. 2) Platinum Cones: sampler, Skimmer and/or hyper skimmers with all inserts- One set 3) Quartz Torch -04 Nos. 4) Nebulizer quartz - 10 Nos 5) Spray chamber Quartz- 10 Nos. 6) Assorted Peristaltic pump tubing - 100 Nos. 7) Pump oil – 2 L. 8) Autosampler Vials -500 Nos. 9) Autosampler probe with tubing -05 Nos. 10) Drain Tubing – 50 Nos. 11) Sample Tubing – 50 Nos. 12) Assorted Tubing - 100 Nos. 13) Assorted O-rings - 05 each 14) Standard Mode setup solution- 500mL X 5 Nos. 15) KED Mode setup solution- 500mL X 5 Nos 16) HF resistant kit (PFA) including nebulizer, spray chamber, torch, injector- one each 17) Chiller coolant – 5 L