# सी एस आई आर -राष्ट्रीय पर्यावरण अभियांत्रिकी अनुसंधान संस्थान

## CSIR- National Environmental Engineering Research Institute नेहरु मार्ग, नागपुर ४४००२०, भारत

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#### **CORRIGENDUM**

PUR-189/EP/SEAF/2023-24

After the Pre-Bid meeting held on 09.02.2024, Technical Specifications and Qualification Requirement of Inductively Coupled Plasma Mass Spectrometry (ICP-MS) is amended.

Revised Technical Specifications and Qualification Requirement are as per Annexure-A and B.

All the Terms & Conditions, Bid submission end date and Bid opening date will remain same.

भंडार एवं क्रय अधिकारी

Date: 13.02.2024

Stores & Purchase Officer CSIR-NEERI, Nagpur

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

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

Spectrometry (ICP-MS)				
Sr. No.	Items description			
1.	Peristaltic pump: Three channels or more			
	Speed: Minimum 30 rpm or more			
2.	<b>Spray chamber :</b> Quartz, Temperature range ≤ -5 °C to ≥ +20°C			
	A TRACE Subsection To the Contract of the Con			
3.	Mass Range: 7 – 260 amu or better			
4.	Mass Resolution : ≤ 0.5 amu			
	La lieur de les Parties de la company de			
5.	Mass Stability : ≤ 0.050 amu			
	Control of the second section of the section of the second section of the sectio			
6.	Torch: Single piece Quartz torch with gas connectivity. Automatic Torch position			
	adjustment			
7.	Collision cell and Reaction cell (CRC):			
	a) Operating in Standard (No gas)			
	b) Collision (KED) and Reaction gas modes.			
	c) Gas mass flow controllers for reactive gases like as Helium, Hydrogen, Oxygen and			
	Methane			
8.	Dwell Time: ≤ 100 μS			
9.	Background (cps) : ≤ 1			
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10.	Sensitivity: $^{7}\text{Li} \ge 55000 \text{ cps/ppb or }^{9}\text{Be} \ge 6000 \text{ cps/ppb}$			
4.4	Y / LA Y L			
11.	Vacuum system (with Noise reduction enclosure):			
	a) Three stage vacuum system or better			
	b) The pumps should be a fume and acoustic free			
12.	Chiller: Compact and acoustic free suitable re-circulating chiller with Noise			
	reduction enclosure, Temperature working range 5°C to 35°C			
13.	RF Generator: 27 MHz or more, Power range 500W - 1600W or more			
14.	Detector: Dual mode (pulse counting and analog mode) Discrete dynode electron			
	multiplier, Calibration linear range over 10 orders of magnitude			
15.	Auto sampler: Minimum 200 samples position or more for 15mL vials with two probes			
16.	The system should have integrated AGD or UHMI or AMS dilution capabilities for high			
	total dissolved solids (TDS)			
17.	Software: The ICPMS controlled by Licensed Software, Compatible for Data			
	processing, calibration, report generation & Method development.			
18.	Data Station: Computer with following configuration should be gravily 1 December 1			
10.	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			
19.	Installation Commissioning & Training: All standard Accessories including test kits,			
1).	Multi elements minimum 25 elements Calibration standards, Gas manifold system for			
	two cylinders, Exhaust fume hood system, Two stage Regulators and gas purification			
	panel for- Helium, Oxygen, Hydrogen and CH4 should be provided by the supplier to			
	paner for Hennin, Oxygen, flydrogen and CH4 snould be provided by the supplier to			

	make the instrument operational. Three days operational and maintenance training at CSIR-NEERI, Nagpur		
20.	<b>Warranty:</b> One year standard + Two years extended warranty. (Three years warranty from the date of installation)		
21.	Additional Consumables		
	1) Nickel Cones: Sampler cones, Skimmer cones and/or hyper skimmers) - 03 sets each		
	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		

## Pre-Qualification & Eligibility Criteria

Sr. No.	Qualification requirement	Documents required	Complied /Agreed Submitted Document
1.	Vendors / supplier / manufacture / Indian agent should not be debarred /black listed by any government organization / GeM for any product for the past three years. If the same is detected at any stage the contract will be terminated.	Undertaking to be submitted on company letter head separately	
2.	Performance certificate or installation report and purchase order of 02 users from government organization or State government or Central University or PSU for the past two years.	Copies of the certificates	
3.	Installation, Operational and Performance qualification (IQ/OQ/PQ) must be performed at site CSIR-NEERI Nagpur	Undertaking to be submitted on company letter head separately	
4.	Bidder must Quote latest model complying the technical specification mentioned in chapter 4	Undertaking to be submitted on company letter head separately	
5.	Vendors should have their application lab in India	Undertaking to be submitted on company letter head separately	n Lag
6.	Vendors should have their application note on public domain and on their web site	Undertaking to be submitted on company letter head separately	