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



टेलीफ़ोन Telephone 0712-2249992, 2249746, 2226705

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शीर्षक : Supply, Installation and Commissioning of <u>Inductively Coupled Plasma Mass Spectrometry</u> (ICP-MS) के लिए ईओआई एवं मांगपत्र पूर्व सम्मेलन.

TITLE: Expression of Interest and pre-indent conference for Supply, Installation and Commissioning of Inductively Coupled Plasma Mass Spectrometry (ICP-MS)

Supply, Installation and Commissioning of <u>Inductively Coupled Plasma Mass Spectrometry (ICP-MS)</u> उपकरण आपूर्ति के लिए, यह संस्थान एक्स्प्रेशन ऑफ इंटरेस्ट आमंत्रित करता है।

This Institute invites Expression of Interest (EOI) for Supply, Installation and Commissioning of Inductively Coupled Plasma Mass Spectrometry (ICP-MS).

एक्स्प्रेशन ऑफ इंटरेस्ट दिनांक _____ तक इस संस्थान में पहुँच जाना चाहिए। राष्ट्रिय पर्यावरण अभियांत्रिकी अनुसंधान संस्थान, नेहरू मार्ग, नागपुर-440020 के समिति कक्ष में दिनांक _____ सुबह ___ बजे माँगपूर्व संमेलन आयोजित किया गया है। The EOI must reach this Institute latest by date 08.04.2025. A Pre-indent Conference has been scheduled to be held at 11.00 am on 11.04.2025 in the Committee Room of National Environmental Engineering Research Institute, Nehru Marg, Nagpur-440 020. INDIA

ईच्छुक पार्टियां अपने उत्पाद / मॉडल के तकनीकी प्रस्तुतीकरण तथा उसकी उपयोगिता, प्रौद्योगिकी, सुविधा, साहित्य, डिज़ाइन, तकनीकी पैरामीटर, ग्राहकी तथा अन्य संबधित मुद्दों पर तकनीकी समिति से चर्चा करने के लिए तकनीकी रूप से सक्षम प्रतिनिधि नियुक्त कर सकते है। तकनीकी समिति मांग पूर्व संमेलन में भाग लेने वाले कंपनी / विक्रेताओं के क्रेडेंशियल्स / तकनीकी क्षमताओं / वित्तीय स्थिति का मूल्यांकन करेगी।

Interested parties may depute their competent technical representatives to make presentation of their product/ model(s) and discuss with the Technical Committee on the aspects of utility, technology, feature, literature, design, technical parameters, clientele and other related issues of the equipment. The Technical Committee shall also evaluate the credentials/ technical capabilities/ financial standings with track record of the companies/ vendors attending PIC.

Process of EOI and PIC:

Last date of submission of EOI: 08.04.2025.

PIC: on 11.04.2025, Time 11.00 AM

- 1) OEM/Suppliers/ Agent must:
- a) Send Expression of Interest to participate in pre-indent Conference latest by date **08.04.2025** through e-mail.

- i) Send Printed technical Literature duly indicating point to point NEERI requirement and offered point to point technical compliance, as per Annexure-III.
- **2)** Attend Pre-Indent Conference by fully Technical Competent personnel on : **11.04.2025** to present before CSIR-NEERI Technical Committee:
 - i) Specific Model and make: meeting CSIR-NEERI technical specifications.
 - ii) One printed copy of Supporting Technical Literature.
- 3) Tentative Technical Specification are as per Annexure I
- 4) Qualification requirement are as per Annexure-II

मांग पूर्व संमेलन में भाग लेने के लिए तकनीकी रूप से सक्षम प्रतिनिधि को अधिकृत किया जाना चाहिए जो जगह पर निर्णय ले सकें तथा सिमित द्वारा उठाए गए बिन्दुओं की पुष्टि कर सकें। तकनीकी प्रतिनिधि नीरी तकनीकी सिमिति द्वारा अंतिम रूप दिये गए तकनीकी विनिर्देशों पर हस्ताक्षर करने के लिए सक्षम होना चाहिए। Technically competent representative should be authorized for attending Pre-Indent Conference who can take on the spot decision and confirm on the points raised by Technical Committee. Technical representative should be able to sign the final technical specifications finalized by the NEERI Technical Committee.

Kindly note that post EOI & PIC, OTE/GTE shall be floated under two bid system and participation in the same shall not be restricted to participated bidders of EOI.

Interested parties may submit EOI regarding <u>Supply, Installation and Commissioning of Inductively Coupled Plasma Mass Spectrometry (ICP-MS)</u>, addressed to the Director, CSIR-NERI, Nehru Marg, Nagpur- 440 020 by email on <u>st_pur@neeri.res.in</u>, <u>spo@neeri.res.in</u>, <u>s_nimsadkar@neeri.res.in</u>.

<u>अंडार एवं क्रय अधिकारी</u> /Stores & Purchase Officer CSIR-NEERI, Nagpur

Tentative Specifications / requirement (Annexure- 1)

Supply, Installation and Commissioning of <u>Inductively Coupled Plasma Mass Spectrometry (ICP-MS)</u>

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

Sr. No.	Spectrometry (ICP-MS) Items description
1.	Peristaltic pump: Three channels or more
Jin 7	Speed: Minimum 30 rpm or more
	speed: William 50 rpm of more
2.	Spray chamber: Quartz, Temperature range ≤ -5 °C to ≥ +20°C
3.	Mass Range: 5 – 280 amu or better
4.	Mass Resolution : ≤ 0.7 amu
5.	Mass Stability : ≤ 0.050 amu
6.	Torch: Quartz torch
7.	Collision cell and Reaction cell (CRC):
	a) Operating in Standard (No gas)
	b) Collision (KED) and Reaction gas modes.
	c) Two mass flow controllers one for Helium and second for other reactive gases
8.	Dwell Time: ≤ 100 μS
9.	Sensitivity : $^7\text{Li} \ge 60000 \text{ cps/ppb}$ and $^{238}\text{U} \ge 300000 \text{ cps/ppb}$
10.	Vacuum system :
	Three stage vacuum system or better
11.	Chiller: Compact and Temperature working range 5°C to 35°C
12.	RF Generator: 27 MHz or more, Power range 500W - 1600W or more
13.	Detector : Dual mode, Discrete dynode electron multiplier, Calibration linear range 10 orders of magnitude or more
14.	Auto sampler: Minimum 200 samples position or more for 15mL vials
15.	The system should have integrated AGD or UHMI or AMS dilution capabilities for high total dissolved solids (TDS)
16.	Software: The ICPMS controlled by Licensed Software, Compatible for Data processing, calibration, report generation & Method development operating through computer
17.	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 21or higher
18.	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 and gas purification panel for- Helium, Oxygen, Hydrogen and CH4 should be provided by the supplier to make the instrument operational. Three days operational and maintenance training at CSIR-NEERI, Nagpur

19.	Warranty: One year standard warranty + Two years Extended warranty (Three years
	warranty from the date of installation)
20.	Additional Consumables
	1) Nickel Cones: Sampler cones, Skimmer cones and/or hyper skimmers) - 05 sets each
	2) Platinum Cones: sampler, Skimmer and/or hyper skimmers with all inserts- One set
	3) Torch -04 Nos.
	4) Nebulizer - 10 Nos
	5) Spray chamber - 10 Nos.
	6) Assorted Peristaltic pump tubing - 10 set each
	7) Pump oil – 2 L.
	8) Autosampler Vials -500 Nos.
	9) Autosampler probe -02 Sets
	10) Drain Tubing – 5 Sets
	11) Sample Tubing – 5 Sets
	12) Assorted Tubing - 10 sets each
	13) Assorted O-ring - 05 sets each
	14) Standard Mode setup solution- 500mL X 5nos
	15) KED Mode setup solution- 500mL X 5nos
	16) HF resistant kit (PFA) including nebulizer, spray chamber, torch, injector- one set
	each

Annexure – II Qualification Requirement

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 01 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	ı
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	
6.	Vendors should have their application note on public domain and on their web site	Undertaking to be submitted on company letter head separately	

Agreed & Submitted with Seal & Sign:-	
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Annexure - III

तकनीकी विनिर्देश अनुपालन एवं विचलन प्रपत्र

Technical Specification Compliance cum Deviation Form

नीरी निविदा सं के अनुसार तकनीकी अनुपालन / Technical Compliance against NEERI Tender No.

Sr. No. NEERI's Vendor In case of Deviations to Special Reasons Remarks if Technical Quoted Compliance, NEERI for Specifications Specification supporting specifications deviations any, printed if any, technical literature mentioning page no. Column & line has also to be highlighted 1. 2. 3. 4. 5. 6. 7.

तारीख / Date:

निर्माता / बोलीदाता के हस्ताक्षर एवं सील

Signature and Seal of the Manufacturer/Bidder