



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

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शीर्षक : Supply, Installation and Commissioning of Multi-Parameter Discrete Analyzer के लिए
ईओआई एवं मांगपत्र पूर्व सम्मेलन.

TITLE: Expression of Interest and pre-indent conference for Supply, Installation and Commissioning
of Multi-Parameter Discrete Analyzer

Supply, Installation and Commissioning of Multi-Parameter Discrete Analyzer उपकरण आपूर्ति के
लिए, यह संस्थान एक्सप्रेसन ऑफ इंटरैस्ट आमंत्रित करता है।

This Institute invites Expression of Interest (EOI) for Supply, Installation and Commissioning of Multi-
Parameter Discrete Analyzer.

एक्सप्रेसन ऑफ इंटरैस्ट दिनांक _____ तक इस संस्थान में पहुँच जाना चाहिए। राष्ट्रीय पर्यावरण अभियांत्रिकी अनुसंधान
संस्थान, नेहरु मार्ग, नागपुर-440020 के समिति कक्ष में दिनांक _____ सुबह _____ बजे माँग पूर्व संमेलन आयोजित किया गया है।

The EOI must reach this Institute latest by date **01.01.2025**. A Pre-indent Conference has been scheduled
to be held at **11.00 am** on **03.01.2025** 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,
डिजाइन, तकनीकी पैरामीटर, ग्राहकी तथा अन्य संबंधित मुद्दों पर तकनीकी समिति से चर्चा करने के लिए तकनीकी रूप से
सक्षम प्रतिनिधि नियुक्त कर सकते हैं। 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 : 01.01.2025 .

PIC : on 03.01.2025 , Time 11.00 AM

- 1) OEM/Suppliers/ Agent must :
 - a) Send Expression of Interest to participate in pre-indent Conference latest by date 01.01.2025 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 : 03.01.2025 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 समिति द्वारा उठाए गए बिन्दुओं की पुष्टि कर सकें। तकनीकी प्रतिनिधि नीरी तकनीकी समिति 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 Supply, Installation and Commissioning of Multi-Parameter Discrete Analyzer, addressed to the Director, CSIR-NEERI, Nehru Marg, Nagpur- 440 020 by email on st_pur@neeri.res.in, spo@neeri.res.in, p.ghorpade@neeri.res.in .

भंडार एवं क्रय अधिकारी /Stores & Purchase Officer
CSIR-NEERI, Nagpur

11/12/2024

Tentative Specifications / requirement (Annexure- I)

Supply, Installation and Commissioning of Multi-Parameter Discrete Analyzer

विस्तृत विवरण / Detailed specification: Mentioned Below.

1. Chemistries with lower ranges and upper ranges.
 - a. Ammonia from, 0.01 ppm to 10 ppm,
 - b. Chloride from, 1 ppm to 200 ppm,
 - c. Chromium VI from, 0.003 ppm to 2 ppm,
 - d. Fluoride from, 0.05 ppm to 10 ppm,
 - e. Silicate from, 0.25 ppm to 100 ppm,
 - f. Total Phosphorous from, 0.01 ppm to 5 ppm,
 - g. Total Iron from, 0.05 ppm to 10 ppm,
 - h. Magnesium from, 0.2 ppm to 50 ppm,
 - i. Manganese from, 0.04 ppm to 5 ppm,
 - j. Nitrite from, 0.0009 ppm to 3 ppm,
 - k. Phosphate from, 0.005 ppm to 5 ppm,
 - l. Sulphates from, 0.5 ppm to 100 ppm and
 - m. Nitrates (Cadmium coil) or Nitrates (Hydrazine) from, 0.01 ppm to 15 ppm.
2. Sample analysis throughput to be at least 120 or more, tests per hour.
3. Reagent loading capacity to be at least 24 or more, in numbers.
4. Sample loading capacity to be at least 60 or more, in numbers, in one single analytical cycle.
5. Photometer resolution: 0.0001 Abs.
6. Filter positions minimum 8 or more, in numbers.
7. Minimum reaction volume of 500 µl.
8. Automatic diluter for, pre and post, analyses.
9. Sample area should be protected by cover.
10. System should be compatible with chemicals and reagents of analytical grade.
11. Provision for sample and reagent, blank runs / rinse.
12. Automatic reagent level sensing.
13. The instrument should be fully controlled and operated by computerized system using dedicated software.
14. Required consumables, chemicals and reagents, to be provided for at least 1000 samples for all the 14 parameters listed above and with other consumables if any.

15. Operating system of the computer and operating software.
 - a. Microsoft Windows 11 Home with Product Key.
 - b. Microsoft .NET Framework 4.5.1.
 - c. SQLite .NET Data Provider.
 - d. VSP Driver for FTDI Chip (USB Driver).
 - e. Operating Software should be licenced and compatible with latest Microsoft Windows 11 or higher version.
 - f. Software for control and operation of the system should have full functionality of method development, calibration, data reporting etc.
 - g. L.I.M.S. connection for sample table import and result transfer.

16. Computer and Printer, Hardware.
 - a. CPU: Intel i7 and 13th Generation or latest.
 - b. RAM: 32 Gigabyte.
 - c. SSD: WD 2 TB and WD NVME M.2 SSD: 1 TB.
 - d. Monitor: 27".
 - e. Display resolution: 1920p x 1080p IPS Display.
 - f. Touch Screen: Projected Capacitive.
 - g. Wireless, Keyboard and Mouse.
 - h. I/O Ports: 2, Serial ports or USB ports (with a USB/serial converter) for the PC-Instrument connection, 1 USB port for the printer, 1 Ethernet port for the LIMS connection, 1 USB port for the touch screen, 1 USB port for the mouse, 1 USB port for the keyboard, 1 HDMI port for the monitor, 1 port for DP, 1 port for VGA and 1 port for C Type.
 - i. Multifunction Laser Printer: All-in-One Colour Printer with facility for Printing, Scanning and Copying, Wireless capability, Duplex printing, Print quality black: Up to 600 x 600 dpi, Print quality colour: Up to 600 x 600 dpi, Scan technology: Contact Image Sensor (CIS), Colour scanning: Yes, Compatible network operating systems: Memory: 512 MB NAND Flash and 512 MB DRAM, Warranty: 3 Years On Site and Cable included.

17. U.P.S. of 5 kVA with minimum 2 hours backup time on full load.

18. 1-year standard warranty and 2 years extended warranty, in which warranty will start from the date of installation.

19. Full set of digital copies of, instrument and software, operating manuals, parts list and all necessary accessories for complete installation to be included.

20. Installation at N.E.E.R.I., Nagpur, to be performed by, trained and certified technician who will meet all manufacturers installation specifications.

21. Training to be provided for at least 5 persons at site. Training will cover all aspects of theory, hardware, instrument maintenance, troubleshooting and software operation such as method set-up, sample analysis, report generation and data transfer as per the qualification documentation.

Annexure – II
Qualification Requirement

योग्यता का पैमाना, यदि कोई हो/Qualification criteria if any: Mentioned Below.

Number	Qualification requirement	Documents required	Complied/ Agreed/ Submitted document
1	Supplier shall provide spares after sales service at no cost during the standard & extended warranty.	Undertaking to be submitted on company letter head separately.	
2	Vendors/supplier/manufacturer/Indian agent should not be debarred /black listed by any Government organization/GeM for any product of past 3 years. If the same is detected at any stage the contract will be terminated.	Undertaking to be submitted on company letter head separately	
3	Performance certificate of 2 users of the quoted model from Government organization of at least past 3 years.	Copies of the certificates.	
4	To maintain the sanctity of tendering system one Indian agent cannot represent two different foreign principals in one tender.	Undertaking to be submitted on company letter head separately.	

Agreed & Submitted with Seal & Sign:-

Seal & Signature of the Principal / Indian Agent

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

स्थान / Place:

तारीख / Date:

निर्माता / बोलीदाता के हस्ताक्षर एवं सील

Signature and Seal of the Manufacturer/Bidder