



CSIR- National Environmental Engineering Research Institute Nagpur



CSIR- NEERI Innovation Hub

Sophisticated Environmental Analytical Facility (SEAF)

List of Facilities Available

S. No.	Facility	Type of Measurements
1.	High Resolution GC with Magnetic Sector Mass Spectrometer (HRGC-HRMS)	Analysis of organic compounds in air, water and solid samples
		Dioxin and Furan analysis (17)
2.	Ion Trap - Gas Chromatograph Mass Spectrometer (IT-GC/MS)	Analysis of organic compound in air, water and solid samples
3.	Quadrupole - Gas Chromatograph Mass Spectrometer (Q-GC/MS)	Analysis of organic compound in air, water and solid samples
4.	Gas Chromatograph (GC)	Pesticides-OC (17) Pesticides-OP (08) Synthetic Pyrethroids (05) PAH (17)
5.	High Pressure Liquid Chromatography (HPLC)	Analysis of non-volatile organic compounds
6.	Ion Chromatography (IC)	Ions analysis (6 cations or 6 anions)
		Additional anion/cation
7.	Inductively Coupled Plasma – Mass Spectrometer (ICP-MS)	Upto 10 elements per Sample
		Additional elements
8.	Inductively Coupled Plasma – Optical Emission Spectrometer (ICP-OES)	Upto 10 elements per Sample
		Additional elements
9.	Atomic Absorption Spectrometer (AAS)	Elemental concentration (per element)
10.	FTIR Spectroscopy	Liquid/Solid sample
11.	Fluorescence Spectrometer (FS)	Liquid /Solid sample

S. No.	Facility	Type of Measurements
12.	Protein Purification System (PPS)	IEC, size exclusion chromatography, HIC
13.	Total Organic Carbon Analyzer (TOCA)	Quantification of total organic, inorganic carbon Liquid/Solid sample
14.	CHNS Analyser	Elemental Characterization in CHNS mode
15.	Direct Mercury Analyser (DMA)	Mercury quantification for solid and liquid samples
16.	Scanning Electron Microscope (SEM)	Solid sample characterization
17.	Atomic Force Microscope (AFM)	Surface topology of micro/nanomaterials
18.	Thermogravimetric Analyser (TGA/STA)	Thermal properties of materials
	TGA with MS for analysis of flue gases	Flue gas characterization

How to submit the Sample

- **Kindly enquire about analysis charges by submitting the Analysis Request Form given as Annexure I at end of this file by sending the filled in form by email to seaf@neeri.res.in**
- **After receiving the charge details, samples can be submitted personally or by post/courier to following address along with sample submission form given as Annexure II at end of this file:**

Coordinator SEAF
CSIR-NEERI Innovation Hub
National Environmental Engineering Research Institute
Nehru Marg, Nagpur – 440020
Maharashtra, India

- All the users are required to submit MSDS (Material Safety Data Sheets) for each sample they submit and a certificate stating that the samples submitted are non- toxic / non-hazardous and that the sample does not require special precaution while handling.

Mode of payment

- **Analysis will be undertaken only after receipt of 100 % payment in advance**
- Payment is acceptable through online transfer (RTGS/NEFT) as per following details:

*Director, CSIR-NEERI, Nagpur,
SBI Saving Account No.30266513766,
IFS Code: SBIN0004224,
Swift Code:1172040995*

or

Demand Draft drawn in favour of 'Director, CSIR-NEERI, Nagpur' payable at SBI, CSIR-NEERI, Nagpur.

- GST will be charged extra (As per Government rules): *CSIR-NEERI GSTIN : 27AAATC2716R2ZE*
- These charges are only for analytical results excluding data analysis/interpretation. **In special cases data analysis/interpretation services can be provided on payment of extra charges on case to case basis.**
- Standard operating procedure will be followed for analysis. **Special method development may be undertaken as per the information provided by user on extra payment basis.**
- Courier charges extra @ actual. Digital copy of data will be charged Rs. 50.00 per sample (Excluding media cost)

Terms and Conditions

- All possible care will be taken in handling the samples. We will not be responsible for any damage during transit or handling. If analysis cannot be carried out on any sample, the same will be returned to the customer.
- Potentially hazardous samples may not be accepted for analysis.
- Collect unutilized samples if any, at the time of collecting report. Samples which are not collected within a week from the date of sample analysis will be disposed of immediately without any further notice.
- Any discrepancy in results has to be cleared in a week from date of dispatch of result.
- Analytical data/spectra will be provided either in printed or in digital format as applicable. CD/printable charges may be extra. Data will be archive for 30 days from date of acquisition and will not be available to user after that period.
- The analytical data/spectra are provided only for research/development purpose. These cannot be used as certificates in legal disputes.
- The facility timings are from 9.30 am to 6.00 pm. The facility is closed on Saturday, Sunday and government holidays.

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Analysis Request Form

(Use Separate form for each instrumental facility)

Date: _____

Name of the Applicant	
Institute/University/ Organization	
User Category	Industry/ Govt. Lab/R & D institution / University
Address for correspondence	
e-mail	
Phone / Mobile / Fax	

Sample Details

No. of Samples : _____

Instrument required for analysis	Details of Analysis to be carried out (<i>Refer Analysis charges table</i>)	Analytes* (See note below)	Toxic/ Non-toxic

*Elements to be analysed in case of ICP-AES/ICP-MS/AAS

*Anions/Cations in Case of IC

Signature of Researcher

Only for Official Use

Request Form Reference : _____

Review of test/analysis : Test Possible () Not Possible ()

Amount payable : _____

Remarks (if any). _____

Instrument In-Charge

Coordinator SEAF



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Nagpur**



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Sample Submission Form

Request form reference & date	
Name of the Applicant	
Institute/University/ Organization	
User Category	Industry/ Govt. Lab/R & D institution / University
Address for correspondence	
e-mail	
Phone / Mobile / Fax	
Billing Address	

Payment Details: (Any one mode)

Mode	DD/UTR/NEFT No.	Bank Details	Amount	Date
DD				
RTGS				
NEFT				

Sample Details:

No. of Samples:

S. No.	Sample ID	Instrument required for analysis	Details of Analysis to be carried out (<u>Refer Analysis charges table</u>)	Analytes* (See note below)	Storage condition	Toxic/ Non-toxic	Dispose / Retain

*Elements to be analysed in case of ICP-AES/ICP-MS/AAS

*Anions/Cations in Case of IC:

Signature of Researcher