



# National Centre for Earth Science Studies

(An Autonomous Institute under Ministry of Earth Sciences, Government of India)

Thuruvikkal P.O. Akkulam, Thiruvananthapuram – 695 011

Tel: + 91-471-2511666/1670/1662 (XRF); 2511667/1660 (XRD)

Website: <http://cess.res.in/facilities/central-laboratories>

## XRF / XRD ANALYSIS REQUEST FORM

Please submit your request by filling out the form below to the respective lab. Details of the sample (format attached) like sample number, name, type, locality etc. should invariably accompany this request.

Date:.....

Name : \_\_\_\_\_

Address : \_\_\_\_\_

Project: \_\_\_\_\_

Email Address: \_\_\_\_\_ Number of Samples \_\_\_\_\_

Sample type: \_\_\_\_\_ Soil \_\_\_\_\_ Rock \_\_\_\_\_ Sediment \_\_\_\_\_ Mineral \_\_\_\_\_ Others (Please Specify)

XRF Analysis	XRD Analysis
<input type="checkbox"/> Major Elements (Si, Ti, Al, Mn, Fe, Mg, Ca, Na,K,P)	Scan Angle (2θ) required .....
<input type="checkbox"/> Trace elements (Please specify from the following)	Step Size .....
<input type="checkbox"/> V <input type="checkbox"/> Cr <input type="checkbox"/> Co <input type="checkbox"/> Ni <input type="checkbox"/> Cu <input type="checkbox"/> Zn <input type="checkbox"/> Ga <input type="checkbox"/> Rb <input type="checkbox"/> Sr	Crystallography: Yes/No
<input type="checkbox"/> Y <input type="checkbox"/> Zr <input type="checkbox"/> Nb <input type="checkbox"/> Ba <input type="checkbox"/> Ce <input type="checkbox"/> La <input type="checkbox"/> Nd <input type="checkbox"/> Sm	Search & Match using ICSD/JCPDS software Yes/No (additional service)
<input type="checkbox"/> Pb <input type="checkbox"/> Th	

### Category of Request\* (✓ tick one)

<input type="checkbox"/> I: Commercial	<input type="checkbox"/> II: R&D Institute	<input type="checkbox"/> III: Research Student	<input type="checkbox"/> IV: NCESS Projects
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\*: Categories I to III are on payment basis. Category IV is for NCESS users. Please check for eligible category and applicable rates.

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Name and Signature of Indenter	Head (Group/Division/Institute/Dept)	Group Head (XRF-XRD Lab, NCESS)
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### For Office Use Only

Please collect Rs ..... (In words.....) towards XRF/XRD analytical charges of .....samples under category..... including service tax @ 12.36%.

Scientist In-Charge/Group Head  
XRF/XRD laboratory

**Samples for XRF:** Ten grams of finely ground and dried sample powders (at least –230 mesh size) are to be supplied with Loss on Ignition (LOI) values. Samples suspected to contain higher than normal concentration of lead, tin, Arsenic & sulphur should be indicated in the remarks column. Analysis will not be taken up if samples are not as per the requirement.

**Samples for XRD:** Supply three to five grams of finely ground and dried sample powders or as coated slide.

Sr No	Sample No	Sample Name	Location	LOI	Remarks
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

Arrange similar type of samples in a continuous serial order. For XRF analyses provide Loss on Ignition (LOI) values. Indicate abnormal concentration of any element, if known or suspected. Duplicate this page for more samples.

#### Analytical Charges under different Categories:

**XRD:** Rs 2000/- per sample; Rs 400/- additional charge per hour of use of search & Match analysis using ICSD/JCPDS software.

**XRF:** Rs 2000/- per sample for 10 major elements; Rs 200/- additional per trace element. Min charge per sample is Rs 2000/-

Category	User	Charge
I: Commercial	Users from Industry/private/commercial organisation/consultancy projects	Full
II: R&D projects	Users from Government organisation/Universities, R&D projects of NCESS with grant in-aid funding	2/5
III: Research Students	Students from outside NCESS, pursuing PG/PhD. programmes	1/5
IV: NCESS	NCESS Institutional projects/Plan projects/ PG/PhD., Students at NCESS	Free

**Note:** An additional Service Tax, as applicable (currently @ 12.36%), is charged extra. *Result can be obtained from respective lab on presentation of payment receipt.*

Please Note: Outstation indenters would be advised of amount and payment mode on receipt of samples.