INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY

Sophisticated Analytical Instrument Facility (SAIF)

200kV Field Emission Gun Transmission Electron Microscope (HRTEM)

Analysis Request Form

Applicant Details				
User belongs to: IIT B	ombay University National Lab Industry			
User name:				
Institute/University/Organisat	tion:			
Email ID:	Mobile No.:			
Name of Guide/PI:				
Guide/PI Email ID:	Guide/PI Mobile No.:			
Address of Institute/Organiza	tion:			
Sample information: Accelerating Voltage: 200 kV	V 120kV			
Number of samples				
Sample code				
Sample type	Biological/Polymer/Metal/Thin film/Ceramic or Composite material/ Nano particles or Nano materials/Other			
Detailed description of all samples	•			
Expected Morphology				
Expected Particle Size				
 on the TEM grid. The gritaken for that sample. In case of bulk sample, the electron transparent central 	spersed in the solvent and after ultarsonication, it will be loaded/drop casted d will be dried under IR lamp. The representative TEM Images will be e sample dimension should be 3.0mm diameter circular disc with a thinned al area and should be prepared at the user end (Ion Milling,polishing etc.) atical sample preparation should be carried out at the user end (staining, etc.)			
Medium of dispersion for powder sample	Ethanol Methanol Water Iso-propyl alcohol Acetone Non of the above IF none of the above, please mention the medium for dispersion and send it along with the samples.			
Ultra-sonication time for Dispers	ion of powder sample in above mentioned solvent :			
Do you want to follow th If "No" please specify an	<u> </u>			

Type of analysis (Kindly tick):

Health hazards

First aid measures

Disposal Method of sample

Please fill appropriate numbers in the NFPA diamond: (*reference image attached below)

Additional information if any:

TEM/HR Imaging & Diffraction	EDS Analysis	STEM Mode: Line Scan	STEM Mode: Mapping	
For STEM/EDS analys (aterial safety data: you are submitting more than		the expected elements. e different in nature/composition	n, submit separate MSDS	
Sample Properties		Carcinogenic (level) Toxic Radioactive Corrossive Explosive Flammable Other (specify):		
Moisture		Present Absent NA		
Volatile organic compo	und	Present Absent NA		
Stability of sample	Reactive	Stable under RTP Hygroscopic Sublimes Reactive in: Air Light Heat Vacuum Moisture May decompose when exposed to accelerated electron beam		
Mention the storage and ha	0			
conditions if anything sp				
Whether incompatible win	th any Y	Yes No Specify the materials):		
	1			

Yes No

(irritant to skin/irritant to eyes/harmful to skin/

toxic if inhaled/toxic if ingested)

Eye/Skin/Inhalation/ Ingestion/Others (specify):

Note: All Samples will be discarded after 15 days of analysis. If you wish to collect the samples then you are required to make arrangement for the same. SAIF office will not dispatch the same to users under any circumstances

^{*}Along with this form MSDS should be submitted if available.

Declaration

I confirm that the samples submitted for analysis are for research purpose only and the above furnished details are correct and true to the best of my knowledge. I understand that I will be held responsible for any damages arising from incorrect information provided by me against material safety data.

I agree to acknowledge DST and SAIF/CRNTS, IIT Bombay for providing (Instrument name) analytical facility for my research work, in my publications. I also agree to send the publication reference (Journal name/volume number/names of the authors/date of issue of the publication etc) to office.saif@iitb.ac.in

I declare that the "Content of this report is meant for our information only and we will not use the content of this report for advertisement, evidence, litigation or quote as certificate to third party" I accept that all the issued reports/results (Soft/hard) will not carry any Signature or Seal and Stamp of SAIF/CRNTS IIT Bombay.

Signature of the User

Signature of the In Charge/HOD/PI with College/P.I. Guide seal / stamp

Date:

Place:

* Reference image for filling NFPA diamond:



IMPORTANT NOTE:

- Potentially hazardous/toxic/radioactive samples may not be accepted for analysis.
- Requisition letter addressing Head,SAIF/CRNTS along with completed form and DD of required amount should be send by post or submitted in person to SAIF/CRNTS office, IIT Bombay, Powai, Mumbai-400076.
- The Demand Draft should be in favour of "The Registrar, IIT Bombay"
- Your appointment will be as per the queue, once we receive the Requisition letter, duly filled form and advance payment. Partially filled form will not be registered.
- It is desirable that that you/ your representative will be present for the analysis.
- In case if the user will not able to be present for analysis, the representative data will be taken for the samples.
- Attach reference images for the sample (if any) with the form.
- For any further query, kindly contact on Email: fegtemlab@iitb.ac.in, Contact: 022-2576-4690