

ADVANCED IMAGING CENTRE

Indian Institute of Technology, Kanpur

Phone: 0512-259-6389,0512-259-6384

Job No.

Department / Proj. No

Experiment	No of slots/ samples	Sample Details	Remarks
FEI Titan G2 60 -300 TEM			
TEM Grids <small>(If TEM grids are to be provided by AIC, please write type and quantity of the required grids. Please check grid availability and cost with the TEM operator before filling out the form)</small>			
<small>Please mention sample preparation tools (list appended) needed to prepare your samples. Please check user charge details for each tool on AIC webpage.</small>			

Preferred date of Booking		
Name:	Email:	Phone No
Supervisor's Name:		

"Advanced Imaging Centre at IIT Kanpur" will be acknowledged in publications where these results are reported.

Kindly transfer Rs _____ from project no _____ which is expiring on _____ to account of 'Advanced Imaging Centre' [LDA/IITK/AIC/2020157]

Name & Signature of User

Signature of Head / PI

For Advanced Imaging Center use

No of sample Scanned		Date of Experiment	
Log Book Page No.		Experiment Done By	
Net Charge	(Rs)		

Sample preparation tools list

1. TEM Grids

- Rs. 500/- for 5 uncoated copper 200/300 Mesh size grids
- Rs. 500/- for 2 formavar/carbon coated copper grids
- Rs. 700/- for 2 holey carbon TEM grids

2. TEM Mill

3. Ultrasonic Disk Cutter

4. Dimpling Grinder

5. Polisher or Grinder

6. Specimen Punch

7. Low Speed Diamond Saw

8. Twin-Jet Electropolisher

9. Turbo Vacuum Pumping Station

10. Plasma Cleaner

11. X-TEM Prep Kit

12. Specimen Grinder

13. Ultra Microtome

- Room Temperature sectioning
- Cryo-Temperature sectioning

14. Vitrobot Vitrification Process

15. Heating/ Cooling Holder

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Justification for use of FEI Titan G2 60 -300 TEM for analysis

Explain in few words why high resolution TEM is required for your sample analysis. Please back your justification using previous results obtained on the similar samples using other equipment such as TEM (e.g. FEI Technai 120kV or similar instrument). Attach separate sheets/print outs if required.

Sample details:

Number of samples:

Advanced Imaging Sample preparation tools needed to prepare sample for HRTEM:

List the analysis steps to be done on the sample:

Name of Student/User

Name of PI/Head

Signature of the user

Signature of the PI/Head

Remarks of the evaluation committee:

Is the use of FEI Titan G2 60 -300 TEM justified? (Yes/No)

Are the user claims backed by sufficient evidence? If not what additional characterization needs to be done before proceeding to HRTEM analysis:

Name and signature of the evaluation committee members: