

DEPARTMENT OF CHEMISTRY, IIT MADRAS, CHENNAI-36

SEM (QUANTA 450) FACILITY- REQUEST FORM

Name		Roll No.											
Lab phone No.		Mobile No											
Guide Name		Email id											

Billing address: _____

Mode: ETD(high vacuum) LFD(low Vacuum) others

S.No.	Sample details

The sample submitted herewith for SEM studies are for the research work of the above mentioned student/researcher only. Acknowledgement for results gathered using this machine will be made in the resulting publication and thesis

Signature of the user

Signature of the Guide

For Lab use:

Job no.	Date/Time
Job completed on	Operator
Remark if any	

Payment details: _____

Scanning Electron microscope

Make: FEI

Model : Quanta 450

Specifications:

Source: Tungsten filament up to 30kV

Magnification: up to 100000

Mode: High Vacuum (for conductors), Low Vacuum (for insulators)

Scanning Electron microscope is used for surface morphology studies, particle size, shape and other topographical studies of various materials like metal, ceramic, catalyst, polymer etc..

Fracture surface of material, micro indentation and Nano materials are imaged using this technique.

Sample submission

Internal users shall submit the duly filled request form for imaging.

For External users

- Payment may be made via bank transfer to the given bank account no and the UTI no. may be shared for our reference.
- Students can also swipe the card for the appropriate amount using swipe machine available in the department office with the sample.

Bank Account details	Account number 2722101016162
IFSC code	CNRB0002722
Bank name	Canara bank Branch name IIT Madras Branch

Charges for imaging

S.NO	CATEGORY	COST PER SAMPLE
1	Students from other department of IIT	Rs.500
2	Students from other educational and research institutions	Rs.500
3	Users from Industry	Rs.2000