

**Department of Metallurgy and Materials Engineering**

COEP Technological University (COEP Tech.), Pune

(A Unitary Public University of Government of Maharashtra)

Shivajinagar Pune 411005

SEM Imaging and EDS**Requisition Form**

(For COEP-Faculty)

Field Emission Scanning Electron Microscopy (FE-SEM) (Make -ZEISS, Model SIGMA IV)

Sr. No	Test	No. of Samples	Please write your requirements / Instructions for SEM Operator. Please mention clearly.
1	SEM Imaging:		
2	Energy Dispersive Spectroscopy (EDS)		

Requirements: Magnifications: _____ X/ _____ X/ _____ X. **Imaging:** Secondary Electron / Back-Scattered / In-Lens**EDS Scan Details** (if required): Point Scan- _____ / Line Scan- _____ / Area Scan- _____ / Elemental Mapping- _____**Sample Details:** Bulk / Powder. _____ **Material Grade/ Composition:** _____**Details of Heat Treatment/ Processing:** _____**Instructions:**

- **Sample Dimensions for SEM Imaging:** Round or Square Solid Specimen with maximum of 15 x 15 x 15 mm size. In case of Powder Specimen: Maximum of 1 gram Powder. Samples should not be potentially hazardous, should be free of oil/lubricant/wax/dust, non-volatile and should not decompose/ evaporate in vacuum (10^{-5} Pa).
- **Magnetic and wet biological samples are strictly prohibited.** Ensure that the sample is non-Magnetic, and oven dried in case it is a biological sample.
- **For all metallic / ceramic samples:** Optical Microscopy Images of the samples must be verified to confirm proper preparation of specimen to avoid wastage of slot timing.

For Academic Project Work Related Samples.

I am submitting _____ number of samples for SEM through this requisition. These samples are part of academic project work which is in collaboration with _____ (if any). These samples **are not** part of any ongoing or upcoming consultancy work.

Contact No. of Faculty: _____

Sign with Date: :

Name of Faculty :

Department:

OR**For Consultancy / Sponsored Project related Samples:**

I am submitting _____ number of samples for SEM through this requisition. These samples are part of ongoing or upcoming consultancy work. **I have attached the photocopy of Type B Consultancy/Sponsored Project Approval Sheet.**

CW/Project Code Number allotted by RIIL: _____

Contact No. of Faculty: _____

Sign with Date: :

Name of Faculty :

* Please Strike out whichever is not applicable.

Department:

Stamp and Sign of Concerned Dept.HOD	SEM Lab-In charge	HOD (Metallurgy and Materials Engineering.)	Slot Allotted: (Date & Time) SEM Operator
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