

**Department of Metallurgy and Materials Engineering
Indian Institute of Engineering Science and Technology, Shibpur
P.O.Botanic Garden, Shibpur, Howrah, West Bengal 711103**

X-RAY DIFFRACTION BOOKING FORM

Name of the Student / Research Scholar / Industry:

Contact No.:

Name of the Supervisor with Department/Institute:

Number of samples:

Scan range ($2\theta_1^0$ to $2\theta_2^0$):

Scan rate ($2\theta^0$ /sec.):

Brief description of samples (powder/solid) with IDS Nos.:

Date of Application:

Signature of the Supervisor with Date

For Office Use only

Sl. No.	

GUIDELINES

- 1) All faculty members of the department will be preferentially allocated a minimum of two (02) hour slot within seven (07) working days. However, the booking hours can be extended on the same day or same week provided if there is no other booking. The actual date of experiment will be allotted by the in-charge faculty of the laboratory only after filling us and submission of the above form. No charges will be applicable for departmental candidates.
- 2) External requisition may also be accepted for a maximum of two (02) hour slot in a week depending upon the availability of the machine. Charges @ Rs.500/= (per sample or per hour whichever is higher in monetary terms) will be applicable for users from Internal & External Academic Institutes. @ Rs.1000/= (per sample or per hour whichever is higher in monetary terms) for Govt. R & D Organizations & @Rs. 1500/= (per sample or per hour whichever is higher in monetary terms) for Industry.
- 3) In case of failure of report and provide samples on the specified date and time without prior intimation, the booking will stand cancelled and fresh booking will not be accepted within next fifteen (15) days. It is mandatory that the student/research scholar must be present during the experiment / scanning of his/her samples.
- 4) Experimental data (RD file) from the machine can only be copied on a new CD. No hard copy and analysis of the XRD profile will be provided.
- 5) No booking /experiment will be allowed on the day of U.G. & P.G. laboratory classes.

Note: Booking can be made through e-mail by sending the duly filled in scanned copy of the booking form to crf.iiests@gmail.com

The hard copy of the form is to be submitted to the office on the allotted date of testing.

Instrumental facilities in the
Department of Metallurgy and Materials Engineering, IEST, Shibpur

	Facility	Internal and External Academic Institute	Govt. R & D organization	Industry
1.	XRD <i>(Rs. per sample or per hour whichever is higher in monetary terms)</i>	Rs. 500	Rs. 1000	Rs. 1500
2.	FE SEM - EDS -EBSD <i>(Rs. per sample or per hour whichever is higher in monetary terms)</i> Platinum coating per sample	Rs. 1000 Rs. 250	Rs. 2000 Rs. 300	Rs. 3000 Rs. 500
3.	DSC <i>(Rs. per hour)</i>	Rs. 500	Rs. 1000	Rs. 2000
4.	Instron (Static) <i>(Rs. per tensile test)</i>	Rs. 300	Rs. 500	Rs. 1000
5.	Microhardness Tester <i>(Rs. per hour)</i>	Rs. 500	Rs. 750	Rs. 1000
6.	Macrohardness Tester <i>(Rs. per hour)</i>	Rs. 500	Rs. 750	Rs. 1000
7.	Optical Microscope <i>(Rs. per sample with sample preparation)</i> <i>(Rs. per sample without sample preparation)</i>	Rs. 750 Rs. 250	Rs. 1000 Rs. 300	Rs. 1500 Rs. 500
8.	Corrosion testing <i>(Rs. per sample or per hour whichever is higher in monetary terms)</i>	Rs. 500	Rs. 750	Rs. 1000