X-RAY DIFFRACTOMETER USER FORM

Sophisticated Analytical Facility, Academic Block-2, Room No:18

USER INFORMATION (Ex	ternal Users only)		
Username:	User Designation:		
Contact No:	Email ID:		
Affiliation:			
Supervisor (for students & research	scholars only):		
	SAMPLE IN	NFORMATION	
	(Put a tick in t)	he appropriate option))
No. of samples:			
Sample Name: 1	2	3	4
Sample Type: (Solid	/Film	/ Powder) (Tick Appropriate)
• Scan Rate: ((For normal scan: Pe	owder:10°/min, Thin	ı film: 5°/min)
• Range of theta (2θ):			
Grazing Incidence Angle ((For thin film XRD)		
Sample is Toxic/ Hazardor mentioned below	us/ Explosive.: YES.	/NO, if yes Nature of	toxicity or precaution to be taken should be
Sample required to be pres	served or not: Yes/ N	No (If NO mode of di	sposal):only), if quantity is less than 3 gm
	DECLARA	<u>TION</u>	
I hereby declare that above above mentioned.	e information is corr	rect to my knowledge	and no further claim shall be made other than the
• I certify that my samples of handling instructions for s		-	l or equipment and I have provided the appropriate
	-	•	dioactive/ biologically hazardous) of the sample
 I agree to acknowledge the the In-charge of the facility 			ns or thesis. I shall also forward the citation details to ation.
		_	my samples during storage/transport/imaging at the
I have read the User Instru	ictions & Sample rec	quirement guidelines.	
Date	U	ser	Supervisor

(for students & research scholars only)

User Instructions

1. Sample Requirement guidelines: Bring your samples along with this requisition forms in properly sealed cover.

The sample can be sent in the form of

Powder: Amount of the sample $\geq 3 \text{gm}$

Thin film: Dimension (LxB) of the sample: min 5mm x 5mm, max 4-inch dia.

Substrate /Glass slide thickness: ≤ 5mm

Solid/Pallet: Dimension (LxB) of the sample: Less than 20mm x 20mm

thickness: $\leq 5 \text{mm}$

2. Please bring moisture sensitive samples in a desiccator.

- **3.** Samples are liable to be destroyed /disposed of after measurements and if to be returned, they have to be collected in person.
- **4.** User must report at the XRD lab as per the scheduled appointment (date & time). The users shall be allotted the time slots as per the availability.
- **5.** User should be present during the analysis of his samples. If user has any specific instructions regarding the analysis, he/she can discuss with the operator.
- **6.** Data will be supplied in the CD provided by the user. Only new CDs will be accepted for data copying.
- 7. XRD will be in powder mode by default. On obtaining enough requests, the mode will be changed to high temperature and thin film. The priority will be in the order of high temperature and thin film. Powder and thin film mode will be functional at least once in a month even if there is one sample. The Lab in-charge will decide the mode of the equipment and change over from one mode to another.