

Powder XRD

Email: pxrd.crf@iitrpr.ac.in, Ph.: 01881-23-3053

Mr. Kamlesh Satpute (JTS, P-XRD Operator)

Requisition Form No. _____

Date: _____

Section-A

- A. Name of User: _____
- B. Mobile No and Email ID: _____
- C. Department/Address of user: _____
- D. Supervisor/Designated person from organization _____
- (Please tick)**
- E. Category I Internal PhD Student/Project Student/TBIF ()
- Category II Consultancy work ()
- Category III External Academic User / Govt. R & D Labs ()
- Category IV Industry User ()
- F. Number of Slots required []
- G. Total Amount (Rs.) [As per Annexure I] _____

Signature of User

Signature of Supervisor/Designated person

[For Internal Users Only]			
Institute Budget { }		From any other source Scheme / external projects within the Institute { }	
Budget Head: Noted in budget Sheet vide Sr. No..... Dated..... (No GST will be charged. Only respective budget will be reduced with sample charges as applicable)		Scheme / Project No Principal Investigator (No GST will be charged. Applicable Sample Charges will be deposited in "IIT Ropar Revenue Account, A/c No. 37360100716, IFSC-SBIN0013181, Rupnagar (Punjab)	
Dealing Assistant	HoD	Dealing Assistant	Supervisor/PI
[For External/TBIF Users Only]			
Bill in favor of (with complete address) GST no (If any) State..... Transaction details (As per Annexure-1) Amount deposited vide UTR/ref no _____ dated _____ (Counterfoil attached)			
Signature of Depositor			
[CRF Office: Verified that job is completed]			
Lab. Assistant/Operator		Officer In-charge	
[For use by Accounts Section after job is done]			
Amount credited in respective Equipment/Lab of CRF vide Sr. No. _____ dated _____			
Dealing Assistant	JAO/AO	AR/DR (Accounts)	

Charges & Payment Details for P-XRD (Per Slot-each slot is of 30 min)

Measurements Type	Internal		External	
	IIT Ropar/TBIF (Ropar) Users	IIT Ropar Consultancy	External Educational Institution/ Govt. R&D Labs	Industry
GONIO SCAN, GLANCING ANGLE (max. 2 samples per slot) RESIDUAL STRESS TEXTURE SAXS TEMPERATURE DEPENDENT XRD (upto 1200) (min 2 slots for each sample)	150	250	750	1500

**** For External Users**

- **Additionally, 18% GST is applicable for TBIF and External Users as per GOI norms**
- Payment can be made through any mode to this account number such as NEFT/RTGS/UPI payment gateways/QR scanner

Bank Details for transfer of sample Analysis charges

Name of Institute	Indian Institute of Technology
Name of the Institute Account holder/Designation	Registrar, IIT Ropar
Bank Account Name	IIT Ropar Revenue Account
Type of bank Account	Saving Account
Complete Account Number	37360100716
RTGS/IFSC code of the Branch	SBIN0013181
MICR Code	140002008
Name of Bank	State Bank of India
UPI ID	theregistrar716@sbi



- **Checklist to be submitted:**

- Completely filled and signed Job Requisition Form
- Duly prepared Samples (or mention if preparation is reqd.)
- Self-addressed envelope with appropriate postal stamps (if invoice is reqd. by post)
- Proof of payment with transaction details

Section-B**Name of Equipment- Powder XRD Facility****1. Sample Details:**

Total No. of Samples	No. of Scan Per sample required	Total No. of Scan	Time per scan	Total no. of Slots reqd.	Remark

2. Measurement Required:**➤ Gonio Scan:**

Measurements Type	2- theta Scan Range		Step size					
	from	to						
Wide angle analysis								
Low angle analysis								
High Temperature analysis				Temp.				
				Hold Time				
Texture Analysis								
<u>Residual Stress analysis</u>				Please Provide the peak positions in 2-theta				

➤ 2-Theta Scan:

Measurements type	2-theta Scan Range		Step Size			
	From	Time				
Glancing angle analysis				Glancing angle details (omega angle)		
SAXS						

3. Analysis Charges Details:-

Total No. of slots	Charges per slot	Amount	GST@18%	Gross Amount (Rs)

Declaration: I, _____, hereby declare that I have read and understood the instructions outlined below in Annexure-1 and 2 before submitting the samples and payments. I acknowledge that the samples being supplied for analysis are intended solely for academic and/or research and development purposes. I further confirm that the results of the analysis will not be used, under any circumstances, to settle or resolve any legal disputes or issues.

Signature of User

For CRF office use only

Job Requisition form No.	Job form Received on (Date)	Job Assigned To (Name)	Job completed on (Date)	Data files handed over to user	P-XRD Log Book Pg No., S. No.

Sign of Operator

Officer In-charge

INFORMATION FOR USERS

Following guidelines help ensure a smooth and efficient process for sample analysis while maintaining safety and accountability in the laboratory

General Instructions

- Kindly discuss with operator about experiment details prior to filling the form and payment submission. Call the operator within working hours only.
- Please fill up the requisition form correctly. Incomplete form is liable to be rejected.
- Head of the Departments/Centers/Principal Investigators of the sponsored/Consultancy Projects are required to sign the form before submission.
- **Without submission of requisition form measurements will not be done.**
- Only users are requested to be present in person during assigned measurement slot.
- The users are not allowed to use the machine at their own under normal circumstances
- Users must adhere to laboratory safety protocols
- For visit to any lab, please contact Technical Officer, CRF, IIT Ropar or mail at crf@iitrpr.ac.in
- The user needs to inform operator at least 1 day in advance if they are not using the booked slot due to ANY reason
- **Sample Analysis:** Samples analysis will be conducted by JTS/TA on any working day starting at allotted slot.
- **Logbook Entry Requirements:** Users are requested to maintain a logbook entry as per the lab format mandatorily with signature upon completion of job.
- **Analysis Data:** Users are requested to collect their processed and raw data after analysis. Please bring your own working CD/DVD to take the data (Pen-drive/ external hard disk, etc., are not allowed).
- Sample collection after measurements to be arranged by users. Otherwise, samples will be discarded after one week.
- Kindly submit a self-addressed envelope with postage stamp if invoice required to be posted. Invoice may take a weeks' time to be sent.

Equipment Specific Instructions

- Address for sending samples by post:
Mr. Kamlesh Satpute,
Room No-115,
XRD lab,
SSB Block, IIT Ropar, Bada Phool, Rupnagar, Punjab-140 001
- **Research publications emerging out of the P-XRD facility, CRF at IIT Ropar must be duly acknowledged.**
- **Kindly share the publication details to crf@iitrpr.ac.in**
- Sample slot time includes mounting, optimization, measurement and unmounting of sample.
- A user can bring maximum 12 samples at a time in a week
- Finely grinded powder sample in sufficient quantity should be brought to the XRD Lab
- **Repeat measurement on any sample will be considered as new/additional job.**