

University of Engineering & Technology, Lahore, Pakistan
Centre for Nanotechnology and Advanced Materials Research (CNAMR)

Performa for X-Ray Diffractometry (XRD)

(Please fill both pages, 1-2)

Name: _____ Registration no (for students): _____

Designation: _____ Name of Supervisor (if any): _____

Department /Institute: _____

Project title (if any): _____

(For UET students, please attach first page of research proposal duly signed by supervisor and chairman)

Cell number (mention network/whatsapp): _____ E-mail: _____

Sample Type: Select one ☐ Solid ☐ Powder ☐ Thin Film ☐ Coating

Sample information: ☐ Non-toxic ☐ Toxic ☐ Irritating ☐ Flammable ☐ Hazardous ☐ Don't know

Any precaution needed: _____ Sample Material: _____

No. of samples (in words): _____ Sample Identity: _____ Scan Range: _____

Sample shape and dimensions: _____ (in case of powder samples mention the mass)

Note: (i) Powder sample should be finely ground that can be easily compressed to fit into the sample mold.

(ii) Only samples of the following dimensions are allowed.

(a) Square samples.....Length $\times$ Width $\times$ Thickness (max.) = 2.5 cm $\times$ 2.5 cm $\times$ 0.4 cm

(b) Disc shaped samples.....Diameter (max.) = 3.5 cm, Thickness (max.) = 0.4 cm

(c) Thin Films...Flat samples....Length $\times$ Width = 5 $\times$ 5 cm² (max.) to 1 $\times$ 1 cm² (min.)

- Test required (please tick): (i) Powder diffraction (ii) Texture Analysis (iii) GIXD
- Results of powder diffraction will be given in a text/excel file containing diffraction data and conditions.
- Should samples be returned? ☐ Yes ☐ No
- Provide a reference paper
- For **GIXD** (grazing incidence X-ray diffraction), thin film thickness on solid substrate = -----(nm)
- Kindly provide packed rewritable new CD in order to acquire the data.
- Please pack samples, performa, rewritable new CD and original bank deposit slip in an envelope of proper size.
- Any other information about sample:

Deposit Details: Habib Bank Ltd. (Engineering University Lahore Branch)

Title: "UET LHR Center for Nanotechnology"

Account number: 01287903194101

Paid Bank deposit slip No. (Attach the original) _____ Paid amount _____

Applicant's Signature Supervisor (Signature and Stamp) Chairperson/Head/Director: (Signature and Stamp)
Office No. _____ Dated _____
(through proper channel for UET students)

Director CNAMR

Charges per sample:

Sr. No.	Perspective Clients	Powder XRD (Quick scan)	Powder XRD (Slow scan)	Texture Analysis	GIXD
1.	University of Engineering & Technology, Lahore and allied campuses.	Rs. 700/-	Rs. 1000/-	Rs.3000	Rs. 1500/-
2.	Educational institutions.	Rs. 2000/-	Rs. 3000/-	Rs.5000	Rs. 3500/-
3.	Commercial samples (industries etc.)	Rs. 4000/-	Rs. 6000/-	Rs.10000	Rs. 7000/-

- The rates for XRD samples analysis with other special requirements will be decided by the Committee/Director

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Sr. No.	Sample ID	Material Name	Signature /Stamp of Supervisor
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
Use additional sheets, if required.			

Applicant's Signature

Supervisor (Signature and Stamp)

Chairperson/Head/Director: (Signature and Stamp)

Office No. _____ Dated _____
 (through proper channel for UET students)

Director CNAMR