

University of Engineering & Technology, Lahore, Pakistan
Centre for Nanotechnology and Advanced Materials Research (CNAMR)
Department of Physics
Forma for X-Ray Diffractometry

Name: _____ Registration no (for students): _____

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

Department /Institute: _____

Project title (if any): _____

Cell number: _____ E-mail: _____

Sample Type: Select one

<input type="checkbox"/> Solid	<input type="checkbox"/> Powder	<input type="checkbox"/> Thin Film	<input type="checkbox"/> Coating
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Sample information:

<input type="checkbox"/> Non-toxic	<input type="checkbox"/> Toxic	<input type="checkbox"/> Irritating	<input type="checkbox"/> Flammable	<input type="checkbox"/> Hazardous	<input type="checkbox"/> Don't know
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Any precaution needed: _____ Sample Material: _____

No. of samples: _____ 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 x Width x Thickness (max.) = 2.5 cm × 2.5 cm × 0.4 cm

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

(c) Thin Films...Flat samples.... Length x Width = 1x1 cm² (min.) to 5x5 cm² (max.)

Test required through XRD:

<input type="checkbox"/> Powder diffraction	<input type="checkbox"/> Texture Analysis	<input type="checkbox"/> GIXD
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Note: Kindly provide packed rewritable new CD in order to acquire the data.

- Results of powder diffraction will be given in a text/excel file containing diffraction data and conditions.
- In case of Texture analysis, a powder diffraction data will also be provided.
- For GIXD (grazing incidence Xray diffraction) used for thin film, mention film thickness _____

Any other information about sample: _____

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

Title: "UET LHR Center for Nanotechnology"

Account number: 01287903194101

Paid challan form No. (Attach the copy) _____ Paid amount _____

Applicant's Signature

Supervisor's (if any) (Signature and Stamp)

Chairperson/Head/Director:

Incharge

Signature and Stamp

XRD Laboratory

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