

APT Facility

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Mr. Amit Kaushal (JTS, APT 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 FESEM

| User Charges (per slot) | NFAPT (IIT Ropar Slot) |
|------------------------------------|------------------------|
| Internal (IIT Ropar) | 15,000 |
| Consultancy Work | 40,000 + GST |
| External Academic & Govt. R&D Labs | 1,20,000 + GST |
| Industry | 2,50,000 + GST |

***Note:** Each slot includes 8 hrs of FIB and 8 hrs of LEAP and about 2-4 hours of reconstruction and basic analysis of the data obtained

**** 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 (Technical Details)

Name of the Equipment/Instrument - FESEM

| | |
|-------------------------------------|--|
| a) No. of samples | |
| b) Kindly refer to Pg 4 for details | |

Additional information (if any)

.....
.....

| Total no. of slots of Measurements | Charges per slot | Amount (Rs.) | GST (Nil for Internal Candidates) | Total 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

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

Lab. Assistant/Operator

Officer In-charge

National Facility for Atom Probe Tomography (NFAPT)

HSB-134, Indian Institute of Technology Madras, Chennai – 600036, India www.nfapt.iitm.ac.in, Ph: +91-44-22575798; email: nfapt@iitm.ac.in

Research Proposal

1. Name of the project investigator and address:

Name of the student involved in this work and mobile number:

2. Number of samples:

Briefly describe fabrication method and nature of sample: (*max. 50 words*) (*Metals, semiconductors, ceramics, composites, nanowires, etc.*)

3. Nature of sample:

| | |
|--------------------------|---|
| • Is it magnetic? Yes/No | • Is it electron beam sensitive? Yes/No |
| • Is it volatile? Yes/No | • Is it flammable? Yes/No |

4. Motivation for using atom probe tomography, in comparison to other characterization tools: (*max. 100 words*)

5. Nature of work: (*max. 50 words*)

(*Grain boundary/phase boundary/interface analysis, cluster analysis, dopant mapping, etc.*)

6. Is the atom probe sample already prepared?

- If Yes, please describe the details of preparation method and sample dimensions (*max. 50 words*)
- If No, the type of sample preparation needed. (*Electropolishing or Focused Ion Beam*)

7. Is site specific sample preparation mandatory? If so, mention the specific area in the sample.

Note:

- Please share results that may be helpful for APT sample preparation and APT analysis (ex: *SEM and TEM micrographs*)
- Please list one or two APT publications related to this work, if available
- Samples sent to IITM should be in well-polished condition, e.g., suitable for EBSD

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. Amit Kaushal,
Room No-106,
APT lab, First Floor
CRF Building, IIT Ropar, Bada Phool, Rupnagar, Punjab-140 001**
- **Research publications emerging out of the NFAPT facility, CRF at IIT Ropar must be duly acknowledged.**
- **Kindly share the publication details to crf@iitrpr.ac.in**
- **Repeat measurement on any sample will be considered as new/additional job.**