

SQUID LABORATORY Central Research Facility, IIT Kharagpur-721302

Date:

Department Requ	uisition No				
l.User's Profi	le				
lame of the User	:	Roll No.:			
Jame of Guide / S	Supervisor:	Department /Centre:			
ontact Details:_		Tel. No.:			
ame of the Insti	tute/College/Industr	y:			
2. Sample Typ		owder / Pellet / I	Film		
	Ferromagnetic Fe	rrimagnetic Anti ferro	magnetic / Paramag	netic / Diamagne	tic
_			_		<u> </u>
. Required to	emperature rate	[max.20K/min 4K	:		
S. Required o	ption : SQUID VSM[[400K-2K] / OVE	N[900K-300K] /	ACS[400K- 2K]
		M) or Susceptibility (X	, , , , ,		
Field (Oe)		Temperature (K)		Frequency (Hz)	
ZFC	FC	ZFC	FC		
					1

7.Measurement type: Moment Vs Field

Max. field (Oe)	Temperature(K)	Expected Coercevity	Total no. of data points(max.16 0)

8. Measurement type: Moment Vs Time

Field (Oe)	Temperature (K)	Duration (Sec)

Instruction:

- (i) Please submit one form per sample.
- (ii) Total Number of hour is depending on the basis of measurement.
- (iii) Sample should be vacuum compatible.
- (iv) Thin films of size 3mm x 5mm and thickness 1mm.
- (v) For pellet or powder sample, Ferro, Ferrimagnetic, Superconductivity samples require only 1-3 mgms. for the analysis and paramagnetic sample require 10-15 mgs.
- (vi) Information related to magnetic transition, moment etc. are necessary for the proper selection of VSM/ SQUID experimental parameter.

TERMS & CONDITIONS AND CHARGES FOR AVAILING INSTRUMENT FACILITIES

- 1. For the time slot and other necessary criteria, please contact the concerned staff beforehand.
- 2. Repeat of analysis may be done if there is any instrumental or operating error.
- 3. Acknowledge the CRF Facility in the future publication if any.

CHARGES	DURATION	AMOUNT IN INR
Internal(Institute)	1slot= 3 hours	Rs. 900 + 18% GST
Internal(project)	1slot= 3 hours	Rs. 1500+ 18% GST
External users (academic/R&D)	1slot= 3 hours	Rs. 1500+ 18% GST
Industry	1slot= 3 hours	Rs. 3000+ 18% GST