



Table for Facility Charges

Equipment(s)		Facility Code	Facility	Charges (Rs.) per sample per measurement*						Contact Person:	
				User Category							
				External		HNBGU campuses					
				Users from Industries/ Private users	Edu. Inst./ Govt. organization	Research Scholar/P.I./Co-P.I. Of a research project	Ph.D. scholar with fellowship	Student / Research Scholar without fellowship	Teachers/ Research staff		
				A	B	C	D	E	F		
X-ray Diffractometer (PANalytical)	1	XRD-PS	XRD of Powder sample	1000/-	500/-	400/-	250/-	100/-	200/-	1. Mr. G. S. Kathait Email- gambhir11186@gmail.com & gs.kathait@hnbgu.ac.in Mob. No. - 09897108774 2. Mr. Prashant Thapliyal Email- pra.thapli1986@gmail.com & p.thapliyal@hnbgu.ac.in Mob. No.- 07830506095	
	2	XRD-TF	XRD of Thin film sample	1500/-	750/-	600/-	450/-	150/-	350/-		
	3	XRD-HT	XRD at High Temp. (upto 500 ^o C) (Extra charge per 2θ scan)	1200/-	600/-	500/-	300/-	150/-	250/-		
	4	XRD-RM	X- ray Reflectivity measurment in Thin Film	2000/-	800/-	500/-	400/-	200/-	300/-		
	5	XRD-SM	XRD Search match for identification with PDF 2012 (Extra charge per 2θ scan)	500/-	250/-	200/-	150/-	50/-	100/-		
Scanning Electron Microscope (SEM) with EDAX	1	High Vacuum Mode									Mr. Prashant Thapliyal Email - pra.thapli1986@gmail.com & p.thapliyal@hnbgu.ac.in Mob. No.- 07830506095
		SEM-HV-TF	SEM Image (upto 3-4 nm resolution)	750/-	400/-	300/-	175/-	80/-	125/-		
		SEM-HV-LF	SEM Image (upto 1-2 nm resolution)	1500/-	800/-	600/-	350/-	160/-	250/-		
		SEM-D	Sample drying upto 200 ^o C for 2 hrs (if required)	75/-	50/-	40/-	25/-	10/-	35/-		
	2	Low Vacuum Mode									
		SEM-LV-TF	SEM Image (upto 3-4 nm resolution)	1500/-	800/-	600/-	350/-	160/-	250/-		
		SEM-LV-LF	SEM Image (upto 1-2 nm resolution)	3000/-	1600/-	1200/-	750/-	320/-	500/-		
	3	SEM-C	Coating with Au-Pd target (for non-conducting sample)	200/-	100/-	75/-	50/-	15/-	60/-		
4	SEM-EDX	Elements identification and quantification with EDAX (Charges per selected spot)	500/-	300/-	200/-	125/-	40/-	100/-			
ICP-MS Spectroscopy with Laser Ablation system (Perkin Elmer)	1	ICPMS-SE	Standardization and Estimation per element	1500/-	750/-	600/-	450/-	150/-	350/-	1. Mr. Vishal Rohilla Email- mail.vishal.pd@gmail.com & vishal.rohilla@hnbgu.ac.in Mob. No. - 09411301658 2. Mr. Don Viswas Email- donusic06@gmail.com & d.biswas@hnbgu.ac.in Mob. No. - 07579021861	
	2	ICPMS-SS	Same element of subsequent sample	500/-	250/-	200/-	150/-	50/-	100/-		
	3	ICPMS-P&C	Sample preparation and consumables	500/-	250/-	200/-	150/-	50/-	100/-		

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Ellipsometer	1	EM-T&R	<i>Thickness and refractive index of thin films</i>	1100/-	550/-	450/-	300/-	100/-	150/-	
PE Loop tracer with Piezo-electric measurments	1	PE-BS	<i>PE Loop of Bulk sample</i>	1800/-	500/-	400/-	300/-	100/-	150/-	
	2	PE-BS-HT	<i>PE Loop of Bulk sample, upto 300⁰ C (per scan, at one temp.)</i>	2500/-	700/-	500/-	400/-	150/-	200/-	
	3	PE-TF	<i>PE Loop of Thin film sample</i>	1800/-	500/-	400/-	300/-	100/-	150/-	
	4	PE-PC-B	<i>Piezoelectric coefficient of Bulk sample</i>	1800/-	500/-	400/-	300/-	100/-	150/-	
	5	PE-CM-RT	<i>Capacitance measurement, upto 1 MHz, at RT</i>	500/-	300/-	250/-	150/-	50/-	75/-	
	6	PE-CM-HT	<i>Capacitance measurement, upto 1 MHz, at RT <T≤ 300⁰ C, at a step of 5⁰ C (extra charges)</i>	800/-	500/-	300/-	200/-	75/-	100/-	
RCL meter (upto 1 MHz)	1	Bulk sample - Capacitance vs. frquency.								
		RCL-RT	<i>At room temp.</i>	500/-	300/-	250/-	150/-	50/-	75/-	
		RCL--HT	<i>At different temp., RT<T≤ 500⁰ C, at a step of 5⁰ C (extra charges than RT)</i>	1000/-	500/-	300/-	100/-	75/-	100/-	
		RCL--DC	<i>with per DC bias, upto 40V (extra)</i>	1000/-	600/-	500/-	300/-	100/-	150/-	
	2	Thin Film Sample - Capacitance vs. frquency								
		RCL-CF	<i>At RT</i>	1100/-	550/-	450/-	300/-	100/-	200/-	
RCL-CV		<i>Capacitance vs. Voltage, at RT, and 1MHz</i>	1100/-	550/-	450/-	300/-	100/-	200/-		
Source Meter	1	SM-IV	<i>I-V (upto 10 V,for thin films; and 200 V, for bulk,</i>	1100/-	550/-	450/-	300/-	100/-	200/-	
Spectrophotometer (Visible + UV)	1	SP-TR/W	<i>T%/R %/ Abs% vs. Wavelength</i>	1000/-	500/-	400/-	250/-	100/-	200/-	
	2	SP-DR/W	<i>Diffused reflectance vs. Wavelength</i>	1500/-	800/-	600/-	350/-	160/-	250/-	
Muffel Furnance	1	MF-1150	<i>RT to 1150⁰ C (per hr. charges)</i>	500/-	200/-	150/-	100/-	50/-	75/-	
	2	MF-1750	<i>RT to 1400⁰ C (per hr. charges)</i>	1000/-	400/-	300/-	200/-	100/-	150/-	
Oven	1	OV-300	<i>Drying upto 300⁰ C, per hr.</i>	250/-	100/-	75/-	50/-	25/-	45/-	
Double Distilled water Plant	1	DW	<i>Distilled Water</i>	20/-	15/-	10/-	10/-	10/-	10/-	
Liquid Nitrogen Plant	1	LN2	<i>LN2 [B.P. - (-)196⁰ C]</i>	50/-	30/-	20/-	20/-	20/-	20/-	

*Service Tax @12.36% will be extra for services provided.