

NATIONAL INSTITUTE OF TECHNOLOGY, RAIPUR Phone: (0771)2243413

(Institute of National Importance) G.E. Road Raipur (C.G.) Phone: (0771)2243413

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Email: director@nitrr.ac.in

Website: www.nitrr.ac.in

Department of Physics Job Requisition Form High Temperature Furnace

User Information

Name	:		
Designation	:		
Department	:		
Contact Detail (Mob. N	o.& Email ID):		
NIT Student □/NIT Fac	culty & Staff	Institution 🗆 / In	dustries/R&D Laboratories/Other
Nature of the sample	: Organic ☐ / Inorganic ☐ / I	Biomass □/ Comp	osites
Sample Type	: Powder ☐ / palette ☐/ Oth	ier 🗆	
Number of Samples	: (max nu	ımber of 4 samples	s in one slot)
Heating Temperature	:		
Heating Rate	: (Degree/minute) (3, 4, 5) To	tal Heating Time:Hr
Holding Time	:Hr		
Cooling Rate	: Hour or	(Degree/min	ute) (2, 3, 4) or natural cooling
Special Safety Concern	s: Toxic □ / non toxic □ / otl	ner 🗆	
It is to certify that the a	applicant is a student /employee	of our organizatio	n.
Signature of Student	Signature of Supervisor S	ignature of Head with seal	Signature of Head of Institutio with seal
Note: # please bring # it will be the	with you: Crucible responsibility of the applicant	to provide the sam	nple with proper packaging.
	, , , , , , , , , , , , , , , , , , , ,	ental Use	7 F - F - F
Sample ID :			Date:
Machine Start Time:	Machine Stop	time:	_and Date:
Heating Time:	Hr. / Holding Time: _	Hr.	/ Cooling Time:Hr.
Bank Transaction Num	ber:	P	ayment Date:
Testing Charge:			

To be tested by HOD of Physics



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Department of Physics Job Requisition Form Density Measurement

Name	:		
Designation	:		
Department	:		
Contact Detail (Mob. N	o.& Email ID):		
NIT Student □/NIT Fa	culty & Staff 🗆 / Other acade	emic Institution 🗆 / Inc	dustries/R&D Laboratories/Other
Nature of the sample	: Organic □/ Inorganic □/ Biomass □/ Composites □/ Other □		
Sample Type	: Thin Film		
One Sample weight	: Maximum 100gm		
Number of Samples	:(ma	nx number of 4 samples	in one slot)
Sample Information Co	ode Name:		
Special Safety Concern	s: Toxic 🗌 / non toxic 🔲 ,	other \square	
It is to certify that the	applicant is a student /emplo	yee of our organizatior	
Note: # it will be the	Signature of Supervisor e responsibility of the application with you: 300ml distilled wa	with seal ant to provide the sam	with seal
# please bring	with you. Soonii distilled wa	iter, rissue paper.	
	Depa	rtmental Use	
Sample ID:	Tin	ne:	Date:
Bank Transaction Num	ber:	Pa	ayment Date:
Testing Charge:			



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Department of Physics

Job Requisition Form

Fourier Transform Infrared Spectrophotometer (FTIR)

Name	:				
Designation	:				
Department	:				
Contact Detail (Mob. N	o.& Email ID):				
NIT Student □/NIT Fa	culty & Staff 🗆 / Other acade	emic Institution \Box / Ind	ustries/R&D Laboratories/Other		
Required Analysis and	Testing Range (400 cm ¹ to 4	000 cm ¹):			
FTIR Spectrum	: Absorbance 🗌 / Transm	nittance			
Nature of the sample	: Organic 🗌 / Inorganic [☐/ Biomass ☐/ Compos	sites		
Sample Type	: Powder ☐ / Thin Film ☐] / Film Coating □ / Liqu	uid □ / Other □		
Number of Samples	:(n	nax number of 5 sample:	s in one slot)		
Sample Information Co	de Name:				
	s: Toxic 🗆 / non toxic 🗀 ,				
It is to certify that the a	applicant is a student /emplo	yee of our organization.			
_	Signature of Supervisor	Signature of Head with seal	with seal		
	eresponsibility of the application with you: Acetone, Tissue p				
	Depa	artmental Use			
Sample ID:	Tin	ne:	Date:		
Bank Transaction Num	ber:	Pa	yment Date:		
Testing Charge:					



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Department of Physics Job Requisition Form

Spectrophotometer (UV-Visible)

Name	:			
Designation	:			
Department	:			
Contact Detail (Mob. N	o.& Email ID):			
NIT Student □/NIT Fac	culty & Staff 🗆 / Other acade	emic Institution \Box / Ind	ustries/R&D Laboratories/Other 🗌	
Wave Range (nm)	: 190nm to 1100nm			
Required Wave Range	:	(nm)		
Nature of the sample	: Organic □ / Inorganic □]/ Biomass □/ Other □	1	
Sample Type	: Glass Film Coating 🗌 / I	iquid □ / Other □		
UV Spectrum	: Absorbance □/Transm	Absorbance □/ Transmittance □/ Reflectance □		
Number of Samples	:(N	lax. number of 5 sample	es in one slot)	
Sample Information Co	de Name:			
Special Safety Concerns	s: Toxic 🗆 / non toxic 🗀 ,	/ other □		
It is to certify that the a	pplicant is a student /emplo	yee of our organization.		
Signature of Student	Signature of Supervisor	Signature of Head with seal	Signature of Head of Institution with seal	
# please bring	n material is required for Ba with you: Acetone, Tissue p responsibility of the applica	aper, Blank CD.	le with proper packaging.	
	Depa	rtmental Use		
Sample ID:	Tin	ne:	Date:	
Bank Transaction Numl	oer:	Pa	yment Date:	
Testing Charge:				



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Department of Physics

Job Requisition Form

Specrofluorophotometer (Photoluminescence)

		<u>Information</u>		
Name	:			
Designation	:			
Department	:			
Contact Detail (Mob. N	No.& Email ID):			
NIT Student □/NIT Fa	culty & Staff □ / Other acade	mic Institution 🗆 / Inc	lustries/R&D Laboratories/Other	
Sample Type	: Powder ☐ / Thin Film ☐ / Film Coating ☐ / Liquid ☐ / Other ☐			
Nature of the sample	: Organic ☐ / Inorganic ☐	/ Biomass □/ Compos	sites	
Instrument Wave Rang	ge: 220nm to 900nm			
Number of Samples	:(ma	x number of 5 samples	in one slot)	
Sample Information Co	ode Name:			
E:	xcitation		Emission	
Excitation Wavelength	: to nm	Emission Waveleng	Emission Wavelength: to nm	
Emission Wavelength	(nm)	Excitation Wavelen	gtn (nm)	
•	s: Toxic □ / non toxic □ / applicant is a student /emplo			
Signature of Student	Signature of Supervisor	Signature of Head with seal	Signature of Head of Institution with seal	
	with you: Acetone, Tissue pa e responsibility of the applica	•	ole with proper packaging.	
	Depa	rtmental Use		
Sample ID:	Tim	e:	Date:	
Bank Transaction Num	ber:	Pa	yment Date:	
Testing Charge:				

To be tested by **HOD of Physics**



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Department of Physics

Job Requisition Form

Raman Spectroscopy Analysis

Name	:				
Designation	:				
Department	:				
Contact Detail (Mob. N	lo.& Email ID):				
NIT Student □/NIT Fa	culty & Staff □/ Othe	er academic Ins	titution 🗆 / Ind	ustries/R&D Laboratories/Othe	r 🗀
Nature of the sample	: Organic ☐ / Inorg	ganic □/ Biom	ass	ites	
Sample Type	: Powder □ / Thin	Film ☐ / Film (Coating □ / Liqu	uid \square / Other \square	
Required Analysis and	Testing Range	: 180 cm ¹	to 3975 cm ¹]/ 537.2 nm to 674.8 nm 🛚	
Laser Wavelength	: 532nm (Fixed)	Laser Powe	er: 2 mW to 200	D mW (milliwatt)	
Sample Exposure Time	(sample required)	:		ms (millisecond)	
Laser Power Source (sa	ample required)	:		mW (milliwatt)	
Number of Samples	:	_ (max number	of 5 samples in	one slot)	
Sample Information Co	ode Name:				_
Special Safety Concern It is to certify that the					
Signature of Student	Signature of Super	_	ture of Head vith seal	Signature of Head of Institu with seal	tion
Note: # please bring # it will be the	-			le with proper packaging.	
		Departmenta	al Use		
Sample ID:		Time:		Date:	
Bank Transaction Num	ber:		Pa	yment Date:	_
Testing Charge:					



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Department of Physics

Job Requisition Form Thermoluminescence Reader/OSL Reader

Name	:	
Designation	:	
Department	:	
Contact Detail (Mob. N	No.& Email ID):	
NIT Student □/NIT Fa	aculty & Staff \Box / Other academic Ir	nstitution \square / Industries/R&D Laboratories/Other \square
Nature of the sample	: Organic □/ Inorganic □/ Bio	mass
Sample Type	: Powder □ / Pellet □ / Other	
Temperature Profile	: Heating Rate :	Centigrade per Second (1 to 20°C)
	Heating Temperature :	°C (Max temp. 480°C)
	Holding Temperature :	Second (if required)
Ultraviolet Source	: Short UV 254nm ☐ / Long UV 3	365nm □
UV exposure time (in r	minutes) :	
Number of Samples	:(Max nu	ımber of 5 samples in one slot)
Sample Information Co	ode Name:	
Special Safety Concern	ns: Toxic	
Signature of Student	Signature of Supervisor Sign	nature of Head Signature of Head of Institution with seal
	with you: Acetone, Tissue paper, I e responsibility of the applicant to	Blank CD. provide the sample with proper packaging.
	Departmer	ntal Use
Sample ID:	Time: _	Date:
Bank Transaction Num	nber:	Payment Date:
Testing Charge:		



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Department of Physics

Job Requisition Form Chroma Meter

Name	:		
Designation	:		
Department	:		
Contact Detail (Mob. N	o.& Email ID):		
NIT Student □/NIT Fac	culty & Staff 🗆 / Other acad	emic Institution \Box / Ind	ustries/R&D Laboratories/Other
Nature of the sample	: Organic □/Inorganic [☐/ Biomass ☐/ Compos	ites 🗆/ Other 🗆
Sample Type	: Thin Film / Pellet / Powder / Other		
Number of Samples	:(m	ax number of 5 samples	in one slot)
Sample Information Co	de Name:		
	s: Toxic □ / non toxic □		
Signature of Student	Signature of Supervisor	Signature of Head with seal	Signature of Head of Institution with seal
	responsibility of the applic with you: Acetone, Tissue p	•	ole with proper packaging.
	Depa	artmental Use	
Sample ID:	Tir	me:	Date:
Bank Transaction Num	ber:	Pa	yment Date:
Testing Charge:			



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Department of Physics Job Requisition Form

AAA Solar Simulator

Name	:		
Designation	:		
Department	:		
Contact Detail (Mob. N	No.& Email ID):		
NIT Student □/NIT Fa	nculty & Staff \square / Other acad	emic Institution \Box / Ind	lustries/R&D Laboratories/Other 🗆
Number of Samples/co	ells :	(max number of 4 s	samples in one slot)
Sample Information Co	ode Name:		
Special Safety Concerr	ns: Toxic 🗌 / non toxic 🔲	/ other □	
It is to certify that the	applicant is a student /emplo	oyee of our organization	
Signature of Student	Signature of Supervisor	Signature of Head with seal	Signature of Head of Institution with seal
	e responsibility of the applic with you: Acetone, Tissue p	•	ple with proper packaging.
	Depa	artmental Use	
Sample ID:	Tir	me:	Date:
Bank Transaction Num	ber:	Pa	yment Date:
Testing Charge:			



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Department of Physics

Job Requisition Form LCR Meter

Name	÷		
Designation	:		
Department	:		
Contact Detail (Mob. N	o.& Email ID):		
NIT Student \square /NIT Fa	culty & Staff \square / Other academic Institution \square / Industries/R&D Laboratories/Other \square		
Nature of the sample	: Organic □/ Inorganic □/ Biomass □/ Composites □/ Other □		
Sample Type	: Thin Film/ Pellet/ Other		
Heating Range	: (Room Temperature to 500°C)		
Heating Rate	:0C (Temperature difference between to data reading)		
Parameter	: (Max 4 parameters set at a time)		
Number of Samples	er of Samples : (with heating max number of 1 sample in one slot) (Without heating max number of 4 samples in one slot)		
Sample Information Co	ode Name:		
Special Safety Concern	s: Toxic		
It is to certify that the	applicant is a student /employee of our organization.		
Signature of Student	Signature of Supervisor Signature of Head Signature of Head of Institution with seal		
	e responsibility of the applicant to provide the sample with proper packaging. with you: Acetone, Tissue paper.		
	Departmental Use		
Sample ID:	Time: Date:		
Bank Transaction Num	ber: Payment Date:		
Testing Charge:			



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Department of Physics

Job Requisition Form

Film Deposition Through Chemical Bath Deposition (CBD)

Name	:		
Designation	:		
Department	:		
Contact Detail (Mob. N	o.& Email ID):		
NIT Student □/NIT Fac	culty & Staff \square / Other acade	emic Institution \Box / Ind	ustries/R&D Laboratories/Other
Nature of the sample	: Organic □/Inorganic □	☐/ Biomass ☐/ Compos	ites 🗆 Other 🗆
Sample Type	: Thin Film ☐ / Pellet ☐ /	Powder 🗌 / Other 🔲 _	
Bath Temperature	: (ma	x 90°C)	
Heating Time	:		
Number of Samples	:(ma	ax number of 6 samples	in one slot)
Sample Information Co	de Name:		
Special Safety Concerns	s: Toxic 🗌 / non toxic 🔲 /	∕ other □	
It is to certify that the a	applicant is a student /emplo	yee of our organization.	
Signature of Student	Signature of Supervisor	Signature of Head with seal	Signature of Head of Institution with seal
	responsibility of the applica with you: Acetone, Tissue p	aner Beaker	le with proper packaging.
Cample ID.	•	rtmental Use	Data
Sample ID:	III	ne:	Date:
Bank Transaction Numl	oer:	Pa	yment Date:
Testing Charge:			



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Department of Physics

Job Requisition Form Digital Oven

Name	:		
Designation	:		
Department	:		
Contact Detail (Mob. No	o.& Email ID):		
NIT Student □/NIT Fac	ulty & Staff 🗆 / Other acade	emic Institution \Box / Ind	ustries/R&D Laboratories/Other
Nature of the sample	: Organic □/Inorganic □]/ Biomass □/ Compos	ites 🗆/ Other 🗆
Sample Type	: Thin Film ☐ / Pellet ☐ /	Powder □ / Other □ _	
Heating Temperature	: (ma	x temperature 200°C)	
Heating Time	:		
Number of Samples	:(ma	ax number of 4 samples	in one slot)
Sample Information Co	de Name:		
Special Safety Concerns	: Toxic / non toxic ,	/ other □	
It is to certify that the a	pplicant is a student /emplo	yee of our organization.	
		with seal	Signature of Head of Institution with seal
	responsibility of the application in the second in the sec	aper.	le with proper packaging.
	Depa	rtmental Use	
Sample ID:	Tin	ne:	Date:
Bank Transaction Numb	oer:	Pa	yment Date:
Testing Charge:			