

राष्ट्रीय प्रौद्योगिकी संस्थान, रायपुर (छ.ग.) NATIONAL INSTITUTE OF TECHNOLOGY, RAIPUR Fax. (07/1) 2254000 director@nitrr.ac.in

(Institute of National Importance) G.E. Road Raipur (C.G.)

Phone: (0771)2243413 (0771) 2254600 Fax: Website: www.nitrr.ac.in

Department of Physics Job Requisition Form High Temperature Furnace

Name	:					
Designation	:					
Department	:					
Contact Detail (Mob. N	o.& Email ID):					
NIT Student □/NIT Fac	culty & Staff 🗆]/ Other acad	emic Institution	☐ / Industri	es/R&D Laborato	ries/Other 🗆
Nature of the sample	: Organic 🗆] / Inorganic [☐/ Biomass ☐,	/ Composites	☐/ Other ☐	
Sample Type	: Powder 🗆] / palette □,	∕ Other □	·		
Number of Samples	:	(ma	ax number of 4 s	samples in one	e slot)	
Heating Temperature	:					
Heating Rate	:((Degree/minu	te) (3 <i>,</i> 4 <i>,</i> 5)	Total He	ating Time:	Hr
Holding Time	:	Hr				
Cooling Rate			(Degr	ree/minute) (2	2, 3, 4) or natural	cooling
Special Safety Concern						· ·
It is to certify that the a					•	
Signature of Student	Signature of	Supervisor	Signature of with sea		gnature of Head with sea	
Note: # please bring # it will be the	•				ith proper packaş	
		Dep	artmental Use			
Sample ID :					Date:	
Machine Start Time:		Machine S	top time:	and D	Date:	
Heating Time:	Hr. /	Holding Tim	ne:	Hr. / Cooli	ng Time:	Hr.
Bank Transaction Num	ber:			Paymer	nt Date:	
Testing Charge:						



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Department of Physics Job Requisition Form Density Measurement

Name	:				
Designation	:				
Department	:				
Contact Detail (Mob. N	Io.& Email ID):				
NIT Student □/NIT Fa	culty & Staff □ / Other acad	emic Institution \Box / Inc	dustries/R&D Laboratories/Other		
Nature of the sample	e : Organic □/ Inorganic □ / Biomass □ / Composites □ / Other □				
Sample Type	: Thin Film				
One Sample weight	: Maximum 100gm				
Number of Samples	:(m	ax number of 4 samples	in one slot)		
	ode Name:				
	s: Toxic 🗆 / non toxic 🗀				
It is to certify that the	applicant is a student /emplo	oyee of our organization	1.		
Signature of Student	Signature of Supervisor	Signature of Head with seal	Signature of Head of Institutior with seal		
	e responsibility of the applic with you: 300ml distilled wa	-	ple with proper packaging.		
	Depa	artmental Use			
Sample ID:	•	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 Fac	culty & Staff \Box / 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 ☐ / Transn	nittance □ / Reflectance	!□				
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:						
Special Safety Concern	s: Toxic 🗌 / non toxic 🔲 ,	/ other 🗆					
It is to certify that the a	applicant is a student /emplo	oyee of our organization					
		with seal	Signature of Head of Institution with seal				
	responsibility of the applic with you: Acetone, Tissue p						
	Depa	ertmental Use					
Sample ID:	Tir	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 \Box / Other acade	emic Institution \Box / Inde	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 \Box / L	Glass Film Coating ☐ / Liquid ☐ / 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:				
	s: Toxic				
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 pa responsibility of the applica	aper, Blank CD.	le with proper packaging.		
	Depa	rtmental Use			
Sample ID:	Tin	ne:	Date:		
Bank Transaction Num	oer:	Pa	yment Date:		
Testing Charge:					



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Department of Physics

Job Requisition Form

Specrofluorophotometer (PL Photoluminescence)

User Information

Name	:						
Designation	:						
Department	:						
Contact Detail (Mob. N	o.& Email ID):						
NIT Student □/NIT Fac	culty & Staff □/ Othe	er academ	ic Institution 🗆 / Indu	ustries/R&D Labo	oratories/Other		
Sample Type	: Powder □ / Thin	: Powder □ / Thin Film □ / Film Coating □ / Liquid □ / Other □					
Nature of the sample	: Organic ☐ / Inorganic ☐ / Biomass ☐ / Composites ☐ / Other ☐						
Instrument Wave Rang	e: 220nm to 900nm						
Number of Samples	:	(max	number of 5 samples i	n one slot)			
Sample Information Co	de Name:						
Ex	citation			Emission			
Excitation Wavelength Emission Wavelength (nm	Emission Wavelengt Excitation Waveleng		o nm		
Special Safety Concerns It is to certify that the a							
Signature of Student	Signature of Super	visor	Signature of Head with seal	_	Head of Institution th seal		
Note: # please bring # it will be the	•		er, Blank CD. to provide the samp	le with proper p	ackaging.		
		Departi	mental Use				
Sample ID:		Time:		Date:			
Bank Transaction Num	ber:		Pay	vment Date:			
Testing Charge:							



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Department of Physics Job Requisition Form Raman Spectroscopy Analysis

User Information

Name	:			
Designation	:			
Department	:			
Contact Detail (Mob. N	lo.& Email ID):			
NIT Student □/NIT Fac	culty & Staff □/ Other	academic Institu	ution 🗆 / Indu	ustries/R&D Laboratories/Other [
Nature of the sample	: Organic 🗌 / Inorga	anic □/ Biomass	s □/ Composit	tes / Other
Sample Type	: Powder □ / Thin F	Film 🗌 / Film Coa	ating 🗌 / Liqui	id \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 Power:	2 mW to 200	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 o	one slot)
Sample Information Co	ode Name:			
Special Safety Concern It is to certify that the a				
Signature of Student	Signature of Supervi	_	re of Head h seal	Signature of Head of Institution with seal
	with you: Acetone, Tise responsibility of the a	• •		e with proper packaging.
		Departmental (Jse	
Sample ID:		Time:		Date:
Bank Transaction Num	ber:		Pay	ment Date:
Testing Charge:				



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Department of Physics Job Requisition Form

TL Thermoluminescence/OSL

Name	:
Designation	:
Department	:
Contact Detail (Mob. N	o.& Email ID):
NIT Student □/NIT Fac	culty & Staff \square / Other academic Institution \square / Industries/R&D Laboratories/Other \square
Nature of the sample	: Organic ☐ / Inorganic ☐ / Biomass ☐ / Composites ☐ / Other ☐
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 365nm □
UV exposure time (in m	ninutes) :
Number of Samples	: (Max number of 5 samples in one slot)
Sample Information Co	de Name:
	s: Toxic non toxic for ther size for the
Note: # please bring	Signature of Supervisor Signature of Head Signature of Head of Institution with seal with seal with you: Acetone, Tissue paper, Blank CD. The responsibility of the applicant to provide the sample with proper packaging.
	Departmental Use
Sample ID:	Time: Date:
Bank Transaction Number	ber: 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 Fa	culty & Staff 🗆 / Other acade	emic Institution \Box / Ind	lustries/R&D Laboratories/Other 🗆			
Nature of the sample	: Organic 🗌 / Inorganic 🗌] / Biomass 🗌 / Compos	sites			
Sample Type	: Thin Film ☐ / Pellet ☐ /	: Thin Film				
Number of Samples	:(ma	ax number of 5 samples	in one slot)			
Sample Information Co	de Name:					
Special Safety Concern	s: Toxic 🗌 / non toxic 🔲 ,	/ other □				
It is to certify that the	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 application with you: Acetone, Tissue p	•	ole with proper packaging.			
	Depa	ırtmental Use				
Sample ID:	Tin	ne:	Date:			
Bank Transaction Num	ber:	Pa	yment Date:			
Testing Charge:						



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Phone: (0771)2243413

Department of Physics Job Requisition Form AAA Solar Simulator

Name	:					
Designation	:					
Department	:					
Contact Detail (Mob. N	o.& Email ID):					
NIT Student □/NIT Fa	culty & Staff 🗆 / Other acade	emic Institution \Box / Inc	dustries/R&D Laboratories/Other 🗆			
Nature of the sample	: Organic 🗌 / Inorganic 🗌] / Biomass 🗌 / Compos	sites			
Sample Type	: Thin Film ☐ / Solar Cell [: Thin Film				
Number of Samples	:(ma	ax number of 4 samples	in one slot)			
Sample Information Co	ode Name:					
,	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			
	e responsibility of the applic with you: Acetone, Tissue p		ple with proper packaging.			
	Depa	ortmental Use				
Sample ID:	Tin	ne:	Date:			
Bank Transaction Num	ber:	Pa	ayment Date:			
Testing Charge:						



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 Website:
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Department of Physics

Job Requisition Form LCR Meter

Name	:					
Designation	:					
Department	:					
Contact Detail (Mob. N	lo.& Email ID):					
NIT Student □/NIT Fa	culty & Staff □/ Other acad	lemic Institution \Box / Inc	lustries/R&D Laboratories/Other □			
Nature of the sample	: Organic ☐ / Inorganic [☐ / Biomass ☐ / Compos	sites			
Sample Type	: Thin Film ☐ / Pellet ☐ /	Other 🗌				
Heating Range	:	(Room Temperature to 500° C)				
Heating Rate	:°C (Temperat	°C (Temperature difference between to data reading)				
Parameter	:		(Max 4 parameter set at a time)			
Number of Samples	:(w	_	of 1 samples in one slot) mber of 4 samples in one slot)			
Sample Information Co	ode Name:					
Special Safety Concern	s: Toxic / non toxic	/ other 🗆				
It is to certify that the	applicant is a student /empl	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 appli with you: Acetone, Tissue p	•	ple with proper packaging.			
	Dep	artmental Use				
Sample ID:	Ti	me:	Date:			
Bank Transaction Num	ber:	Pa	ayment 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 □/ 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 90°C)	
Heating Time	:		
Number of Samples	:(ma	ax number of 6 samples	in one slot)
Sample Information Co	de Name:		
	s: Toxic / non toxic ,		
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
	responsibility of the applic with you: Acetone, Tissue p		ole with proper packaging.
	Depa	rtmental Use	
Sample ID:	Tin	ne:	Date:
Bank Transaction Numb	per:	Pa	yment Date:
Testing Charge:			



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Department of Physics Job Requisition Form Digital Oven / Vacuum Oven

Name	:		
Designation	:		
Department	:		
Contact Detail (Mob. N	o.& Email ID):		
NIT Student □/NIT Fac	culty & Staff □ / Other acado	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 200°C)	
Heating Time	:		
Number of Samples	:(ma	ax number of 4 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	oyee of our organization.	
Signature of Student	Signature of Supervisor	Signature of Head with seal	Signature of Head of Institution with seal
	responsibility of the application with you: Acetone, Tissue p	•	le with proper packaging.
	Depa	ertmental Use	
Sample ID:	Tin	ne:	Date:
Bank Transaction Num	ber:	Pa	yment Date:
Testing Charge:			



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G.E. Road Raipur (C.G.)

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Department of Physics Job Requisition Form Microwave Synthesizer

User Information

Name	:					
Designation	:					
Department	:					
Contact Detail (Mob. N	o.& Email ID):					
NIT Student □/NIT Fa	culty & Staff \square / Other acad	emic Institution \Box / Ind	ustries/R&D Laboratories/Other			
Nature of the sample	: Organic ☐ / Inorganic ☐	Organic ☐ / Inorganic ☐ / Biomass ☐ / Composites ☐ / Other ☐				
Sample Type	: Liquid 🗌 / Other 🔲	Liquid/ Other				
Power Level		1 140W (20%), 2 210W (30%), 3 240W (35%), 4 280W (40%), 5 350W (50%), 6 420W (60%), 7 450W (70%), 8 490W (80%), 9 560W (90%), H 700W (100%)}				
Time	:(0 -	- 99 minutes)				
Number of Samples	:(m	: (max number of 4 samples in one slot)				
Sample Information Co	ode Name:					
•	s: Toxic		 			
Signature of Student	Signature of Supervisor		Signature of Head of Institution with seal			
	responsibility of the applic with you: Acetone, Tissue p	aner	ole with proper packaging.			
	Dep	artmental Use				
Sample ID:	Tir	me:	Date:			
Bank Transaction Num	ber:	Pa	yment Date:			
Testing Charge:						



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G.E. Road Raipur (C.G.)

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Department of Physics Job Requisition Form Vacuum Spin Coater

User Information

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 ☐ / Composites ☐ / Other ☐				
Sample Type	: Thin Film				
Timing	:(1-	(1 – 100 minutes)			
RPM	:(200	(2000 – 6000 rpm, 100 rpm variation)			
Number of Samples	: (max number of 4 samples in one slot)				
	s: Toxic □ / non toxic □ , applicant is a student /emplo				
	Signature of Supervisor responsibility of the applic	with seal	with seal		
	with you: Acetone, Tissue p	aper.	пе with ргорег раскавнів.		
	Depa	ırtmental Use			
Sample ID:	Tir	ne:	Date:		
Bank Transaction Numl	oer:	Pa	Payment Date:		
Testing Charge:					



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Department of Physics

Job Requisition Form Centrifuge

Name	:				
Designation	:				
Department	:				
Contact Detail (Mob. N	lo.& Email ID):				
NIT Student □/NIT Fa	culty & Staff □ / Other acad	emic Institution \Box / Ind	ustries/R&D Laboratories/Other		
Nature of the sample	: Organic ☐ / Inorganic ☐ / Biomass ☐ / Composites ☐ / Other ☐				
Sample Type	: Liquid				
Timing	: (1 – 99 minutes)				
RPM	: (100 – 4600 rpm)				
Number of Samples	les : (max number of 4 samples in one slot)				
Sample Information Co	ode Name:				
	s: Toxic / non toxic				
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	-	le with proper packaging.		
	Depa	artmental Use			
Sample ID:	Tir	ne:	Date:		
Bank Transaction Num	ber:	Pa	yment Date:		
Testing Charge:					



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Department of Physics

Job Requisition Form Glove Box

Name	:			
Designation	:			
Department	:			
Contact Detail (Mob. N	o.& Email ID):			
NIT Student □/NIT Fac	culty & Staff \square / Other acade	emic Institution 🗆 / Ind	ustries/R&D Laboratories/Other	
Nature of the sample	: Organic / Inorganic	Organic ☐ / Inorganic ☐ / Biomass ☐ / Composites ☐ / Other ☐		
Sample Type	: Thin Film/ Pellet/	Thin Film		
Heating Temperature	: (ma	x 200°C)		
Time	:			
Number of Samples	: (ma	x number of 4 samples	in one slot)	
Sample Information Co	de Name:			
Special Safety Concerns	s: Toxic 🗌 / non toxic 🔲 /	other \square		
It is to certify that the a	applicant is a student /emplo	yee of our organization		
Note: # it will be the		with seal ant to provide the samp	Signature of Head of Institution with seal ble with proper packaging.	
Commis ID.	•	rtmental Use	Date	
Sample ID:		ne:	Date:	
Bank Transaction Numl	ber:	Pa	yment Date:	
Testing Charge:				