To, The Director, Laxminarayan Institute of Technology, Nagpur

Subject: Regarding approval of sample analysis charges on various instruments available in the Chemical Engineering Department.

Respected Sir

We have various instruments listed below in in Chemical Engineering Department for analysis of various samples. The charges for the sample to be analysed on various instruments are listed below.

Instruments	Students		Fac	culty	Industry
	RTMNU	OTHERS	RTMNU	OTHERS	
UV/VIS Spectrophotometer	200	300	300	500	1000
Atomic Absorption Spectrophotometer	500	750	750	1000	2000
(Available Lamps: Zn, Cd, Au, Cr, Ag,					
Pb, Co, Mn, Cu, Fe)					
Gas Chromatograph	700	1000	1000	2000	3000
Fourier-Transform Infrared	105	150	150	150	150
Spectrophotometer (FTIR)					
Thermal Property Analyzer (KD2 PRO)	250	350	350	500	750
Rheometer	300	600	600	1200	2000
Stormer Viscometer (High Viscous)	200	400	400	800	1500

Note: 1. Additional Service Tax, as applicable (currently @ 18%), is charged extra.

2. Results will be mailed on receipt of the payment or in person by presentation of payment receipt.

Therefore, you are requested to approve the charges for sample analysis on various instruments. The amount collected then can be used for the maintenance of the instruments as and when required.

Also please approve the Forms to be filled by users, which are enclosed herewith so that these details will be uploaded on website and will be made available to users.

Thanking you

Yours Faithfully

Dr. Bharat A. Bhanvase Head, Chemical Engineering Department Laxminarayan Institute of Technology, Nagpur

Approved Marian 1514123

Laxminarayan Institute of Technology Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur Department Chemical Engineering

Instruments	Students		Facı	Industry	
	RTMNU	OTHERS	RTMNU	OTHERS	
UV/VIS Spectrophotometer	200	300	300	500	1000
Atomic Absorption Spectrophotometer (Available Lamps: Zn, Cd, Au, Cr, Ag, Pb, Co, Mn, Cu, Fe)	500	750	750	1000	2000
Gas Chromatograph	700	1000	1000	2000	3000
Fourier-Transform Infrared Spectrophotometer	105	150	105	150	150
Thermal Property Analyzer (KD2 PRO)	250	350	350	500	750
Rheometer	300	600	600	1200	2000
Stormer Viscometer (High Viscous)	200	400	400	800	1500

Instrumental Analysis Charges

Note:

- 1. Additional Service Tax, as applicable (currently @ 18%), is charged extra.
- 2. Results will be mailed on receipt of the payment or in person by presentation of payment receipt.

Sub: Request to perform UV/Visible analysis of the given sample(s)

Respected Sir,

I,				studvii	ng in ((vear)		(B	.Tec	h/М.7	Tech/
Ph.D.)/	Faculty	member/	Industry	person	at	(In	stitute/C). Drganiz	ation	/Comj	pany)
							,	am	d	oing	my
research w	ork under	the guidance of	of Prof./Dr								·
I request Absorption	you to kind n Spectroph	lly grant me otometer.	permission 1	to analyze	the g	given	sample	using	the	UV-V	isible
Following	are the deta	ils of my sam	ple(s)/analysi	s:							
Type of m	ieasuremen	t: Wavelength	ı Scan / Fixed	l point mea	suren	nent					
Total no.	of samples:			F	оН:						
Name and	l nature of s	sample(s):									
Contents	of sample(s):				Ne	eds Ultı	rasonic	ation	: YES	/NO
Phase: So	lid/Liquid	Backgrou	nd/Reference	e Fluid:							
My online	payment de	etails are as fo	llows:								
Amount p	aid:	Onlin	ne Transactio	on No:				_Dated	!:		
Please sen	d me results	of analysis or	n E-mail add	ress:							
I undertak	e herewith	that the samp	oles are not l	nazardous,	toxic	and e	explosiv	e. If a	ny e	xplosi	on or
damage of	ccurs to the	instrument du	e to the sam	ples at any	v insta	ince, I	will be	e solely	resp	onsib	le for
legal actio	n and to suit	ably compens	ate for the sa	me.							
Thanking	You										

Name & Signature of the Applicant

Endorsement from the Guide/Employer:

Signature of Guide/ Employer

PERMISSION GRANTED / NOT GRANTED Remarks:

Dr. Bharat A. Bhanvase Head of the Department

Charges (in Rs. per sample):

Students		Fac	ulty	Industry
RTMNU	Other	RTMNU	Other	maustry
236 /-	354 /-	354 /-	590 /-	1,180 /-
(Rs. 200 + 18% GST)	(Rs. 300 + 18% GST)	(Rs. 300 + 18% GST)	(Rs. 500 + 18% GST)	(Rs. 1000 + 18% GST)

Sub: Request to perform analysis on Atomic Absorption Spectrophotometer of the given sample.

Respecte	d Sir,					
I,				studyir	ng in (yea	ar) (B.Tech/M.Tech
Ph.D.)/	Faculty	member/	Industry	person	at ((Institute/Organization/Company
						, am doing my researd
work und	der the guida	ance of Prof./E	Dr			
I request Spectrop	you to kindly hotometer.	y grant me per	mission to a	nalyze the g	given sam	pple using the Atomic Absorption
Followin	g are the deta	ails of my sam	ple/analysis:			
The Samp	le is in clear p	pre-digested liqu	uid form ppm	(should be b	elow 2ppn	n): YES/NO
Major Ele	ments (Please	tick from the fo	llowing):			
○co ()Cr ()Fe	⊖Cu ⊖Zn	⊖ Ag ⊖	Pb 🔿 Au	\bigcirc Cd	◯Mn
Name an	d nature of s	ample:			Num	ber of samples:
Contents	of sample(s)):				pH:
My onlin	e payment d	etails are as fo	ollows:			
Amount	paid:	Online	Transaction	n No:		Dated:
Please se	nd me result	ts of analysis o	on E-mail ad	dress:		
I underta	ke herewith	that the samp	oles are not	hygroscopic due to the	c, hazard samples	lous, toxic and explosive. If ar

explosion or damage occurs to the instrument due to the samples at any instance, I will be solely responsible for legal action and to suitably compensate for the same.

Thanking You

Name & Signature of the Applicant

Endorsement from the Guide/Employer:

Signature of Guide/ Employer

PERMISSION GRANTED / NOT GRANTED Remarks:

> Dr. Bharat A. Bhanvase Head of the Department

Charges (in Rs. per sample):

Stud	ents	Fac	Faculty						
RTMNU	Other	RTMNU	industry						
590 /-	885 /-	885 /-	1,180 /-	2,360 /-					
(Rs. 500 + 18% GST)	(Rs. 750 + 18% GST)	(Rs. 750 + 18% GST)	(Rs. 1000 + 18% GST)	(Rs. 2000 + 18% GST)					
	+ Rs.500/- per sample for additional elements								

Sub: Request to perform analysis on Gas Chromatography of the given sample

Respected	Sir,			. 1 .	• /	`		T 1 /		1 /
I, Ph.D.)/	Faculty	member/	Industry	studyin	g in (yea	ar) Institute	e/Organiz am doii	ation/C	ompa compa resea	any)
work und	er the guida	nce of Prof./I	Dr					·		
I request Chromatog	you to k graphy.	indly grant	me permissio	on to anal	yze the	given	sample	using	the	Gas
Following	are the deta	ils of my sam	ple(s):							
The samp	le is in clear	pre-digested	form: YES/N	0	Numbe	r of sam	ples:			
Name and	l nature of s	ample:								
Contents of	of sample(s)	:								
My online	payment d	etails are as f	ollows:							
Amount p	aid:	Onli	ne Transactio	n No:			Dated	:		
Please sen	nd me result	s of analysis	on E-mail add	lress:						
I undertak explosion responsibl	te herewith or damage e for legal a	that the sam occurs to the ction and to s	ples are not h e instrument d uitably compe	ygroscopic lue to the s nsate for th	, hazard amples e same.	ous, tox at any i	kic and e	xplosiv I will ∣	e. If be so	any olely
Thanking	You									
Endorsen	nent from t	ne Guide/Em	ployer:		Name	& Signa	ature of t	he App	olicaı	nt
					Sig	nature o	f Guide/ I	Employ	er	
PERMISSI Remarks:	ON GRANT	ED / NOT GRA	ANTED							

Dr. Bharat. A. Bhanvase Head of the Department

Charges (in Rs. per sample):

Stud	ents	Fac	Faculty			
RTMNU	RTMNU Other		Other RTMN		Other	muusuy
826 /-	1,180 /-	1,180 /-	2,360 /-	3,540 /-		
(Rs. 700 + 18% GST)	(Rs. 1000 + 18% GST)	(Rs. 1000 + 18% GST)	(Rs. 2000 + 18% GST)	(Rs. 3000 + 18% GST)		

To, The Co-Coordinator (RUSA FTIR Instrument) Chemical Engineering Department, Laxminarayan Institute of Technology Rashtrasant Tukadoji Maharaj Nagpur University,Nagpur.

Sub: Request to perform FTIR Analysis of the given sample(s)

Date:

Respected Sir,

I,				study	ing in	(year)	(B.Tech/M.Tech
Ph.D.)/	Faculty	member/	Industry	person	at	(Institu	te/Organization/Company
work und	er the guida	nce of Prof./I	Dr				
I request	you to kindl	y grant me pe	rmission to a	nalyze the	given sa	ample(s)	using the FTIR instrumen
Total No	of samples	:	ipie(s).				
Name an	d nature of	sample(s):					
Contents	of sample(5):					
Phase: <u>S</u>	olid/Liquid	рН:	Other S	pecific Pro	perties	:	
My onlin	e payment	details are as	follows:				
Amount	paid:	O	nline Transa	action No:			Dated:
		4	on E-mail a	address:			
Please se	nd me resul	ts of analysis					
Please see I underta explosion responsib	nd me resul ke herewith or damage le for legal a	that the sam occurs to the action and to s	ples are not e instrument uitably comp	hygroscop due to the pensate for	ic, haza sample the sam	urdous, to es at any e.	oxic and explosive. If an instance, I will be solel
Please see I underta explosion responsib Thanking	nd me resul ke herewith or damage le for legal a You	that the sam occurs to the action and to s	ples are not e instrument uitably comp	hygroscop due to the pensate for	ic, haza sample the sam	urdous, to es at any e.	oxic and explosive. If an instance, I will be solel
Please see I underta explosior responsib Thanking	nd me resul ke herewith or damage le for legal a You	that the sam occurs to the action and to s	ples are not e instrument uitably comp	hygroscop due to the pensate for	ic, haza sample the sam	urdous, to es at any e. ame & S	oxic and explosive. If an instance, I will be solel instance of the Applican
Please set I underta explosion responsit Thanking Endorse	nd me resul ke herewith or damage le for legal a You ment from t	that the sam occurs to the action and to s he Guide/Em	ples are not e instrument uitably comp	hygroscop due to the pensate for	ic, haza sample the sam	ardous, to es at any e. ame & S	oxic and explosive. If an instance, I will be solel ignature of the Applican
Please set I underta explosion responsit Thanking Endorse	nd me resul ke herewith or damage le for legal a You ment from t	that the sam occurs to the action and to s	ples are not e instrument uitably comp ployer:	hygroscop due to the pensate for	ic, haza sample the sam	ardous, to es at any e. ame & S Signatur	oxic and explosive. If an instance, I will be solel ignature of the Applican re of Guide/ Employer
Please set I underta explosion responsit Thanking Endorset	nd me resul ke herewith or damage de for legal a You ment from t	that the sam occurs to the action and to s he Guide/Em	ples are not e instrument uitably comp aployer: GRANTED	hygroscop due to the pensate for	ic, haza sample the sam N	ardous, to es at any e. ame & S Signatur	oxic and explosive. If an instance, I will be solel ignature of the Applican re of Guide/ Employer

Date:

Dr. B. A. Bhanvase

Co-Coordinator (RUSA FTIR Instrument)

Sub: Request to perform analysis on KD2 Pro Thermal Property Analyzer of the given sample

Respected	d Sir,									
I,				studyi	ng in	(year)_		_(B.7	[ech/	M.Tech/
Ph.D.)/	Faculty	member/	Industry	person	at	(Inst	itute/Or	ganizat	ion/C	Company)
							, am	doing	g my	research
work und	ler the guida	ance of Prot./L	Dr			·	1.			KD2 D
T request	you to Kil	ndly grant me	e permission	to analyze	e the	given	sample	using	the	KD2 Pro
Therman	Property Ana	aryzer.								
Followin	g are the deta	ails of my sam	ple(s):							
Sample T	_ [ype (Solid/L	iquid):	• • •				pH:			
No. of sa	mnles (ner s	ample maxim	um 3 reading	os can he rea	corde	d)	-			
I Iltrason	ication reau	irod• VFS/NO								
Ourusoni	canon requ									
My onlin	e payment d	etails are as f	ollows:							
Amount	paid:	Onlir	ne Transactio	on No:				Dated:		
Please se	nd me resuli	ts of analysis of	on E-mail ad	dress:						
I undertal	ke herewith t	hat the sample	s are not haza	rdous, toxic	and e	xplosiv	ve. If any	v explos	sion o	or damage
occurs to	the instrume	ent due to the s	samples at an	y instance, I	will	be sole	ly respon	nsible f	for le	gal action
and to sui	itably compe	ensate for the s	ame.							
Thanking	You									
					N	ame &	Signatu	ure of t	the A	pplicant
Endorse	ment from t	he Guide/Em	ployer:							
						Sigr	nature of	Guide	/Emp	oloyer
PERMISS	ION GRANT	ED / NOT GRA	ANTED							
Remarks:										
							ית ח		וח	
							Dr. Bh	arat. A	. вп	anvase

Head of the Department

Charges (in Rs. per sample):

Stud	lents	Fac	Faculty			
RTMNU	Other	RTMNU Other		maustry		
118 /-	236 /-	236 /-	590 /-	1,180 /-		
(Rs. 100 + 18% GST)	(Rs. 200 + 18% GST)	(Rs. 200 + 18% GST)	(Rs. 500 + 18% GST)	(Rs. 1000 + 18% GST)		
	e use of instrument					

Sub: Request to perform analysis on Rheometer of the given sample

Respecte	d Sir,			- 4 1	· · · · · · · · · · · · · · · · · · ·				
I, Ph.D.)/	Faculty	member/	Industry	studyin	at (Institute	/Organization/Company) am doing my research			
work und	der the guida	ance of Prof./E	Dr			·			
I request	you to kind	lly grant me p	permission to	analyze the	given sample	using the Rheometer.			
Followin	g are the deta	ails of my sam	ple(s):						
Sample I	Cype: CE	mulsion	⊖ Food	\bigcirc	Petrochemical	○ Suspension			
Measurii () Cone	ng system to and plate typ	be used: De O	Concentric cy	ylinders type	2				
Shear rai	te range (cm	⁻¹):	Shearing time ((s):					
Pre-shea	ring rate (cn	<i>i</i> ⁻¹):		Pre-	shearing time (s):			
Number	of data point	ʻs:		Total time of run (hr):					
My onlin	e payment d	etails are as fo	ollows:						
Amount	paid:	Onlin	e Transaction	n No:		Dated:			
Please se	nd me result	ts of analysis of	on E-mail add	ress:					
I undertal occurs to and to sur	ke herewith th the instrume itably compe	hat the samples ont due to the s nsate for the s	s are not hazar amples at any ame.	dous, toxic a instance, I v	nd explosive. If will be solely re	any explosion or damage sponsible for legal action			
Thanking	g You								
Endorse	ment from t	he Guide/Em	ployer:		Name & Signa	ture of the Applicant			
					Signatu	re of Guide/ Employer			
PERMISS Remarks	ION GRANT	ED / NOT GRA	NTED						
					Dr.	Bharat. A. Bhanvase			

Head of the Department

Charges (in Rs. per sample):

Students		Fa	Inductory		
RTMNU Other		RTMNU Other		muusury	
354 /-	708 /-	708 /-	1,416 /-	2,360 /-	
(Rs. 300 + 18% GST)	(Rs. 600 + 18% GST)	(Rs. 600 + 18% GST)	(Rs. 1200 + 18% GST)	(Rs. 2000 + 18% GST)	

Sub: Request to perform analysis on Viscometer of the given sample

Respecte	d Sir,							
I,				study	ing in (year)	(B.Tech/M.	Tech/
Ph.D.)/	Faculty	member/	Industry	person	at	(Institut	e/Organization/Com	ipany) search
work und	ler the guida	nce of Prof./D	Dr.				, and doing my io	
I request	you to kind	lly grant me p	permission to	analyze t	he give	en sample	using the Viscome	eter.
Followin	g are the deta	ails of my sam	ple(s):					
No. of sa	mples:							
Contents	of sample:_							
My onlin	e payment d	etails are as fo	ollows:					
Amount	naid·	Onlin	e Transactio	n No•			Dated	
Intount	Juiu	0nun	ie Transacho				Duncu	
Please se	nd me result	ts of analysis o	on E-mail ad	dress:				
I undertal occurs to and to sur	ke herewith the instrume itably compe	hat the samples ont due to the s nsate for the s	s are not haza amples at any ame.	rdous, toxio y instance,	c and ex I will b	xplosive. I be solely re	f any explosion or dan esponsible for legal	amage action
Thanking	You							
F 1					Nam	ne & Sign	ature of the Applic	ant
Endorse	ment from t	he Guide/Emj	ployer:					
						Cionat	une of Cuide/Emplo	
						Signat	ure of Guide/Emplo	yer
PERMISS Remarks	ION GRANT	ED / NOT GRA	ANTED					
						Dr	. Bharat. A. Bhanv	ase
						Н	lead of the Departme	ent

Charges (in Rs. per sample):

Students		Fac	Industry		
RTMNU Other		RTMNU	Other	maustry	
236 /-	472 /-	472 /-	944 /-	1,770 /-	
(Rs. 200 + 18% GST)	(Rs. 400 + 18% GST)	(Rs. 400 + 18% GST)	(Rs. 800 + 18% GST)	(Rs. 1500 + 18% GST)	