NATIONAL INSTITUTE OF TECHNOLOGY CALICUT CENTRE FOR MATERIALS CHARACTERIZATION CENTRAL NMR FACILITY

NMR Facility- JEOL 500 MHz (Requisition Form)

<u>R</u>	Requisition Form	No:	Office)		Date:	
Name of	f the User:			Phone:		
Student	/ Emp ID:			Institute/Organizati	on:	
E-mail ID:				Department:		
GST						
	formation:					
S. No	Sample Name		Weight / amount	Experiment(s)		Specti range
			of the sample	1D (¹ H/ ¹³ C/ ³¹ P/ ¹⁹ F/ ¹¹ B	2D (COSY/HMQC/ HMBC/	Specti width
				¹³ C DEPT135/90/45/ NOE / TEMPERATURE DEPENDENT)	NOESY/ROESY/ TOCSY etc.)	ppm
				d precautions to be take OT accepted for analysis		d
	L. Billing/Invoice	e Address (Cle	arly mention t	he details for invoice).		
]
						-
		ails:				
,	2. Payment Deta	uns.				

or

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Signature of the User/Student Endorsement by Guide/HOD

Place: Name & Signature Date: (Guide/HOD)

INSTRUCTIONS FOR EXTERNAL USERS

General Instructions

- External slots will be booked based on the receipt of the requisition form. For slot booking and any other information please mail us to: nmradmin@nitc.ac.in / 0495 228 5344
- 2. Samples can also be sent by courier along with duly filled requisition form and payment receipt to the address given below. (Payment mode is UPI shall be shared by CMC Staff upon request to email)

Central NMR Facility,
Room No. 103, Ground Floor,
Chemistry Department
NITC Campus PO, NIT Calicut, Kozhikode,
Kerala-673601

- 3. The form without payment details will be rejected.
- 4. Samples will not be returned after analysis. if you need samples back please collect it directly with in a week of date of dispatch of results.

NMR User Charges:

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Internal (A): ^Deuterated solvents provided by user. Internal (B): Deuterated Solvents Not Provided		Internal (A)	Internal (B) - NIT Calicut	External Academic Institutes	National Labs / Govt. R&D labs	PSUs / Industries	
	CDCl ₃	50	125	200	375	600	
1H NMR	DMSO-d ₆	50	350	450	1050	1700	
(First 10 minutes) + 25 for every	D ₂ O	50	400	500	1200	2000	
additional 15	Acetone	50	950	1050	2850	4700	
minutes	Acetonitrile	50	1050	1150	3150	5200	
	Methanol	50	1150	1250	3450	5750	
12C and other	CDCl₃	50	125	200	375	600	
13C and other nuclei#	DMSO-d ₆	50	350	450	1050	1700	
(First 10 minutes) +	D ₂ O	50	400	500	1200	2000	
25 for every additional 15	Acetone	50	950	1050	2850	4700	
minutes	Acetonitrile	50	1050	1150	3150	5200	
	Methanol	50	1150	1250	3450	5750	

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	CDCl ₃	100	150	200	375	600
DEPT	DMSO-d ₆	100	375	450	1050	1700
(First 10 minutes) + 25 for every	D ₂ O	100	425	500	1200	2000
additional 15	Acetone	100	975	1050	2850	4700
minutes	Acetonitrile	100	1075	1150	3150	5200
	Methanol	100	1175	1250	3450	5750
	CDCl₃	100	150	200	375	600
2D-COSY	DMSO-d ₆	100	375	450	1050	1700
(First 10 minutes) + 25 for every	D ₂ O	100	425	500	1200	2000
additional 15	Acetone	100	975	1050	2850	4700
minutes	Acetonitrile	100	1075	1150	3150	5200
	Methanol	100	1175	1250	3450	5750
	CDCl₃	100	150	200	375	600
2D-NOESY/ROESY	DMSO-d ₆	100	375	450	1050	1700
(First 10 minutes) + 25 for every	D ₂ O	100	425	500	1200	2000
additional 15	Acetone	100	975	1050	2850	4700
minutes	Acetonitrile	100	1075	1150	3150	5200
	Methanol	100	1175	1250	3450	5750
Variable Temp. Experiments (VT charges) + charges for each measurement as above at each temperature	Additional /hr	100	100	200	400	600
Solid state	1 st hr	1000	1000	1500	2500	4000
Solid state	Additional charges/hr	500	750	1000	1500	2000

[^]Deuterated solvents provided by user

19F, 31P, 27Al, 11B, 77Se, 125Te, 95Mo, 29Si measurements also will be done at same charges

- For solid state NMR analysis, sample details must be provided.
- If TMS spike is required, additional cost of Rs.50/- to be added.
- Sample details such as solubility, stability/degradation possibilities should be disclosed at the time of submission of the sample. The centre will not be responsible for any wrong data obtained due to the degradation of sample.
- Sufficient quantity of the sample should be made available for analysis.
- Analysis and in-depth interpretation of the results are not included in the above charges.
- Such services shall be provided on a consultation basis. For further details, contact the Faculty-In-Charge.
- All users who wish to avail the facility need to book the slot well in advance.
- All investigators are expected to acknowledge the services of the centre in publications and similar articles.