DST FIST 500 MHz NMR Facility

Department of Chemistry
Indian Institute of Technology Indore
Indore-453552, Madhya Pradesh, India

INSTRUMENT DETAILS

Make: Bruker
Model: Bruker Ascend 500
Analysis: 1H, 13C, 19F, 31P, 15N and 2D NMR

ACKNOWLEDGEMENT POLICY

The use of 500 MHz NMR Facility at the Department of Chemistry, IIT Indore automatically implies an acknowledgment in any papers published, conferences and any other presentation. The following acknowledgment is requested "**The authors gratefully acknowledge the DST FIST NMR facility at Department of Chemistry, Indian Institute of Technology Indore for recording NMR spectra**".

ONLINE PAYMENT

Name: The Registrar, Indian Institute of Technology Indore
A/C No: 36948979864 (SBI)
IFSC code: SBIN0030524

Sample submission form is available from the website of DST FIST 500 MHz NMR Facility, IIT Indore

Convener:
Dr. Chelvam Venkatesh
Faculty In-charge:
Dr. Sampak Samanta
Dr. Selvakumar Sermadurai
NMR facility staff:
Mr. P.K. Parthiban
Mr. Manish Kushwaha

CONTACT US

Convener,
DST FIST 500 MHz NMR Facility
Department of Chemistry, #1D-402
Indian Institute of Technology Indore
Simrol, Khandwa Road,
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ABOUT NMR FACILITY

Nuclear Magnetic Resonance Spectroscopy (NMR) Facility in the Department of Chemistry, Indian Institute of Technology Indore is funded by DST under FIST program in the year 2019-20. NMR spectrophotometer (500 MHz: Bruker Ascend 500) is established in a fully equipped modern spectroscopic laboratory, including detection of a wide variety of nuclei (1D- and 2D 1H, 13C, 19F, and 31P), high resolution, and ultra-sensitivity instrumentation with broad sample temperature capabilities in samples measurement. Experienced NMR facility staff is available for the academic and industrial client sample preparation, NMR optimization and acquisition. To maintain the state-of-the-art research facility and to provide expedite support in high end research, the minimum charges have been fixed for availing this facility.

SAMPLE SUBMISSION AND ANALYSIS

- Samples (well packed in eppendorf tubes (1.5 mL) and not in polybags), sample requisition form along with online transaction detail should be sent to us by POST/Courier.
- The user should check the solubility of the sample and suggest the best solvent for recording NMR. Please provide ~5 mg sample for 1H NMR and ~25 mg for other nuclei.
- If data is not clear due to in-homogeneity or less amount of sample, then samples will not be recorded again. Samples will not be sent back after analysis.
- You will receive an email acknowledgement as soon as the sample reached us.
- The sample will be recorded, and data will be shared in soft copy to the user as per priority order (first come first serve basis).
- If time exceeds for the specialized experiment as per user instruction, every additional half hour will be considered as new analysis and accordingly charges will be applicable.

NMR CHARGES

S. No.	Experiment	Rate (Academic institution)	Rate (Industry)
1	^{1}H, ^{19}F, ^{31}P (Expt. time 30 min or less)	₹ 200.00	₹ 500.00
2	^{13}C, DEPT (Expt. time 30 min or less)	₹ 300.00	₹ 700.00
3	2D (per measurement or expt. time 1 h or less)	₹ 500.00	₹ 1000.00
	Solvent charge (per sample)		
	$CDCl_3$	NIL	NIL
	D_2O	₹ 100.00	₹ 200.00
	DMSO-d_6, Acetone-d_6	₹ 150.00	₹ 300.00
	Methanol-d_4	₹ 500.00	₹ 1000.00
			18% GST is applicable in addition to these base charges

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More Information:
https://chemistry.iiti.ac.in/research/500mhz-nmr/