



DEPARTMENT OF CHEMISTRY  
INDIAN INSTITUTE OF TECHNOLOGY MADRAS



### Sample Submission

- The users should fill up the form (given below) and submit it with the sample
- Each sample has to be listed separately.
- Please specify the molecular structure, if known; origin of the sample (reaction product, commercial sample for analysis etc.)
- Preferred solvent for analysis should be specified (like CDCl<sub>3</sub>, DMSO-d<sub>6</sub> etc.)
- Special experiments other than normal <sup>1</sup>H & <sup>13</sup>C, like heteronuclei, 2-D NMR spectra, DEPT etc. can be run on request. Charges will vary.
- External samples will be analyzed anytime during the week at a fixed rate.

### Payments

- External users, please call and confirm the status of the instrument and then
- Draw a DD in favour of "**The Registrar, IIT Madras**" for the appropriate amount or you can swipe the card for the appropriate amount using swipe machine available in the department office with the sample.

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The **HRNMR** instrument is currently located in **ACB-108** and you are welcome to visit the room after prior appointment

### Fees

1. Students from other departments of IIT Madras	<sup>1</sup> H, DEPT(solution)	Rs.420 per nuclei
	<sup>13</sup> C, <sup>31</sup> P, <sup>29</sup> Si, <sup>27</sup> Al, <sup>19</sup> F, <sup>2</sup> H, <sup>11</sup> B, <sup>77</sup> Se, <sup>95</sup> Mo, <sup>195</sup> Pt	Rs. 600 per nuclei
	2D-NMR (COSY, HSQC, HMBC, TOCSY)	Rs. 600 per nuclei
	1D NOE (per measurement)	Rs. 600
	DOSY	Rs. 1200
	2D NMR (NOSEY, ROESY)	Rs.720
	<sup>13</sup> C, <sup>27</sup> Al, <sup>29</sup> Si, <sup>31</sup> P (Solid state)	Rs.1200
2. Academic and Govt. Institutions,	<sup>1</sup> H, DEPT(solution)	Rs.700 per nuclei
	<sup>13</sup> C, <sup>31</sup> P, <sup>29</sup> Si, <sup>27</sup> Al, <sup>19</sup> F, <sup>2</sup> H, <sup>11</sup> B, <sup>77</sup> Se, <sup>95</sup> Mo, <sup>195</sup> Pt	Rs. 1000 per nuclei
	2D-NMR (COSY, HSQC, HMBC, TOCSY)	Rs. 1000 per nuclei
	1D NOE (per measurement)	Rs. 1000
	DOSY	Rs. 2000

	2D NMR (NOSEY, ROESY)	Rs.1200
	<sup>13</sup> C, <sup>27</sup> Al, <sup>29</sup> Si, <sup>31</sup> P (Solid state)	Rs.2000
<b>3. External users, industry</b>	<sup>1</sup> H, DEPT(solution)	Rs.3500 per nuclei sample
	<sup>13</sup> C, <sup>31</sup> P, <sup>29</sup> Si, <sup>27</sup> Al, <sup>19</sup> F, <sup>2</sup> H, <sup>11</sup> B, <sup>77</sup> Se, <sup>95</sup> Mo, <sup>195</sup> Pt	Rs. 5000 per nuclei
	2D-NMR (COSY, HSQC, HMBC, TOCSY)	Rs. 5000 per nuclei
	1D NOE (per measurement)	Rs. 5000
	DOSY	Rs. 10,000
	2D NMR (NOSEY, ROESY)	Rs. 6000
	<sup>13</sup> C, <sup>27</sup> Al, <sup>29</sup> Si, <sup>31</sup> P (Solid state)	Rs. 10000

### **Contact**

In-Charge / **DR. R. BASKAR HRNMR Facility**  
 Department of Chemistry IIT Madras  
 Chennai 600 036.  
 Ph: 044-2257 5199  
 Fax : 044- 2257 4202  
 Email: [cyoffice@iitm.ac.in](mailto:cyoffice@iitm.ac.in)

(Proforma for external samples)

**DEPARTMENT OF CHEMISTRY I.I.T., MADRAS**  
**400/500 MHz - FT NMR FACILITY (Use separate form for each sample)**

**User Information**

Name of the User: \_\_\_\_\_

Designation: \_\_\_\_\_

Phone /FAX Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

Affiliation: \_\_\_\_\_

Address: \_\_\_\_\_

**Name and Signature of the Responsible officer**

**Signature of User**

\*Sample Code: \_\_\_\_\_

\*Weight of the Sample: \_\_\_\_\_

Molecular Weight: \_\_\_\_\_

Molecular Formula: \_\_\_\_\_

\*Solvent: \_\_\_\_\_

**Structure (if known)**

**Tick the box:**

\*Nucleus: 1)  $^1\text{H}$  ☐ 2)  $^{13}\text{C}$  ☐ 3) Others ☐

Special Expts: 1) COSY ☐ 2) NOE ☐ 3) Others ☐

VT ☐

Decoupling

Temp. Range to \_\_\_\_\_ °C

\*Plotting spectral Range  $^1\text{H}$  \_\_\_\_\_ to \_\_\_\_\_ ppm  
 $^{13}\text{C}$  \_\_\_\_\_ to \_\_\_\_\_ ppm Others \_\_\_\_\_  
\_\_\_\_\_ to \_\_\_\_\_ ppm

Do you need expanded plots? what region?

Do you want the data sent via email?

Date of sample received:

File No. : \_\_\_\_\_

Date of spectrum recorded:

**Please Provide all the necessary information for processing, items marked (\*) are mandatory**

**FOR OFFICE USE ONLY**

Serial No : \_\_\_\_\_

Signature of the Operator