

INDIAN INSTITUTE OF TECHNOLOGY PATNA
DEPARTMENT OF CHEMISTRY
Bihta, Patna-801103, Bihar, India
Phone Number-06115-233-220/808

Bruker AVANCE III HD 400 MHz NMR Spectrometer

Liquid State NMR (Charges without deuterated solvent)

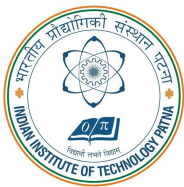
Experiments	Charges (In Rs.) for Industries	Charges (In Rs.) for R&D and National Labs	Charges (In Rs.) for Academic and Educational Institutions and other Departments of IIT Patna
¹H, ¹⁹F, ³¹P ²⁷Al, ¹¹B & DEPT	990	590	190
¹³C, ⁷Li, ¹⁵N, ²³Na, ¹⁹⁵Pt, ²⁹Si, ⁷⁷Se, ¹¹⁹Sn & 1D NOE	2690	1610	530
2D: COSY, HSQC	2690	1610	530
2D: HMBC, TOCSY	2990	1790	590
2D: NOESY, ROESY, DOSY	4990	2990	990
Solvent charges: CDCl₃	500	300	100
Solvent charges: D₂O	850	510	460
Solvent charges: DMSO D₆	1500	900	400
Solvent charges: Benzene -D₆	3000	1800	1225

Hourly Basis Charges for Liquid State NMR:

Note: 1- In case of hourly basis, user has to provide deuterated solvents.

2. User can perform VT-HT experiment in liquid state on hourly basis.

Hourly Measurement (Per hour)	Charges (In Rs.) For Industries	Charges (In Rs.) For R&D and National Labs	Charges (In Rs.) For Academic and Educational Institutions and other Departments of IIT Patna
	4990	2990	990



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Solid State NMR

Experiments	Charges (In Rs.) For Industries	Charges (In Rs.) For R&D and National Labs	Charges (In Rs.) For Academic and Educational Institutions and other Departments of IIT Patna
^1H , ^{19}F , ^{23}Na , ^{27}Al , ^{79}Br , ^{13}C , ^{29}Si , ^{31}P	11990	7190	2390

Note:

- The solvent charges are subject to revision depending upon the procurement price of the same.
- Users are strongly advised to check the solubility of the samples before sending the same for NMR measurements to avoid wastage.
- In liquid state NMR, the data can be collected from room temperature $-135\text{ }^\circ\text{C}$ to $+135\text{ }^\circ\text{C}$ range (for VT-HT experiment).
- In solid state the data can be collected with maximum rotation speed 10 kHz.
- If the time exceeds for the specialized experiment as per user instruction, every additional experiment/time (1hour additional time) will be charged thereof with Rs. 1000/-for academic institutes, Rs. 3000/- for R&D and National Labs and Rs. 5000/- for Industries.
- **Sample requirement:**
For solution state NMR- For ^1H : 5-10 mg, for rest nuclei: 15-25 mg
For solid state NMR: 60-100 mg.
- GST @18% is applicable for external users only.