### COMSATS University Islamabad, Abbottabad Campus, Pakistan

## Bruker Avance III HD 400 MHz NMR Facility for Public Sector Institutions/Organizations Through PCSIR/HEC

Sr. No.		Types of Analysis	Testing Rates in Rupees
1		Proton NMR Spectra	
	a.	ln CDCI <sub>3</sub>	3,000.00
	b.	In any other deuterated solvent	6,000.00
2		Carbon 13 NMR Spectra	
		Broad Band Decoupled Spectra	
	a.	ln CDCI <sub>3</sub>	6,000.00
	b.	In any other deuterated solvent	8,000.00
		DEPT 90 and 135 Spectra	
		(Each will be charged as a separate experiment)	
	a.	ln CDCI <sub>3</sub>	6,000.00
	b.	In any other deuterated solvent	8,000.00
3		Off Resonance Spectrum	
	a.	ln CDCI <sub>3</sub>	7,000.00
	b.	In any other deuterated solvent	9,000.00
4		Inverse NMR measurements (HMBC, HMQC, HSQC etc.)	
		(Each will be charged as a separate experiment)	
	a.	ln CDCI <sub>3</sub>	7,000.00
	b.	In any other deuterated solvent	14,000.00
5		Homonuclear 2D COSY, NOESY, TOCSY, DOSY, ROESY	
		(Each will be charged as a separate experiment)	
	a.	ln CDCI <sub>3</sub>	3,000.00
	b.	In any other deuterated solvent	6,000.00
6		2D INADEQUATE	
	a.	ln CDCI <sub>3</sub>	6,000.00
	b.	In any other deuterated solvent	12,000.00
7		1-D Selective COSY, NOESY, TOCSY	
		(Each will be charged as a separate experiment)	
	a.	ln CDCI <sub>3</sub>	3,000.00
	b.	In any other deuterated solvent	6,000.00

### Note:

- 1. The above rates are applicable for public sector institutions only.
- 2. For good results, please provide 10-20 mg of the sample which should be free of dust or fibrous particles.
- 3. Samples must be submitted (as ready) for direct analysis as a single pure ingredient with their solubility in any deuterated solvent. The solubility must be prechecked and the solvent in which the spectrum is to be recorded clearly specified.
- 4. If a mixture of solvents is specified for analysis, then the expenses will be charged at the rate of the solvent which is higher in cost, e.g., expense of <sup>1</sup>H NMR analysis in CDCl<sub>3</sub> is Rs. 3,000/- while in CD<sub>3</sub>OD is Rs. 6,000/-; in the mixture of CDCl<sub>3</sub>-CD<sub>3</sub>OD the rate will be Rs. 6,000/- irrespective of the quantity of each solvent used.
- 5. Analysis will be initiated when the testing charges are received in the NMR account.
- 6. The testing charges may be deposited through online transaction, cross cheque/demand draft in the name of COMSATS Abbottabad.
- 7. The spectra may be provided either in the printed form or in the form of FID. If someone gets spectra in the printed form, he/she will not be provided the FIDs and vice versa.

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# Package NMR or Simultaneous NMR Experiments Facility for Public Sector Institutions/Organizations Through PCSIR/HEC

If an individual intends to carry out the following experiments simultaneously for the same sample, then a special discount will be given on these experiments. The original prices of each experiment in different solvents as well as discounts are mentioned as follows:

Sr. No.	Package NMR	Rates of Separate Experiments in Rupees	
-	Types of Analysis	CDCl <sub>3</sub>	Any other solvent
1	<sup>1</sup> H	3,000	6,000
2	<sup>13</sup> C	6,000	8,000
3	DEPT 90	6,000	8,000
4	DEPT 135	6,000	8,000
5	HSQC	7,000	14,000
6	HMBC	7,000	14,000
7	¹H-¹H COSY	3,000	6,000
8	ROESY	3,000	6,000
Total (Rs.)		41,000	70,000
Dis	count Offered on Total Charges	12%	44%
Final Charges after discount (Rs.)		36,000	39,000

Sr. No.	03 Simultaneous Experiments	Rates of Separate Experiments in Rupees	
	Types of Analysis	CDCl <sub>3</sub>	Any other solvent
1	<sup>1</sup> H	3,000	6,000
2	<sup>13</sup> C (BB)	6,000	8,000
3	One DEPT Experiment	6,000	8,000
Total Price (Rs.)		15,000	22,000
Final Charges after discount (Rs.)		<u>13,000</u>	<u>16,000</u>

Sr. No.	o. 02 Simultaneous Experiments Rates of Separate Experiments in		cperiments in Rupees
	Types of Analysis	CDCl <sub>3</sub>	Any other solvent
1	<sup>1</sup> H	3,000	6,000
2	<sup>13</sup> C (BB)	6,000	8,000
	Total (Rs.)	9,000	14,000
Final Charges after discount (Rs.)		<u>9,000</u>	<u>12,000</u>

#### Note:

We have the following deutrated solvents in the category of in "ANY OTHER DEUTERATED SOLVENT": D<sub>2</sub>O, CD<sub>3</sub>OD, DMSO-d6, Acetone-d6, Benzene-d6