

Analytical Service Charges

The charges listed below are applicable to industrial clients.

- A flat 50% discount is offered to academic institutions.
- The government R&D institutions, including CSIR laboratories, receive a 25% discount.
- Start-ups and incubators are eligible for a 50% discount.

Sr. No.	Analysis Type	Charges (₹)	
	X-ray Techniques		
	Powder XRD		
1	Powder X-ray diffraction (regular scan) (15 min)	₹ 2000/sample	
2	Powder X-ray diffraction (regular scan) high end machine (30 min scan) (Model No)	15 min: ₹ 3000/sample 30 min: ₹ 5000/sample	
3	Powder X-ray diffraction (regular scan) - 2D scan	₹ 5000/sample	
4	Powder X-ray diffraction – 1 hour scan	₹ 6000/sample	
5	Powder XRD-HT	₹ 10000/- up to 4 temperatures range. 15 mins scan.	
	Single Crystal XRD		
6	Single crystal development by crystallization	₹ 5000-₹ 10000/sample	
		depending on the number of crystallization trials	
7	Single Crystal XRD (small molecule)	₹ 5000/hour	
8	Single Crystal XRD (small molecule)	₹ 5000/sample	

	(Phase identification by unit cell measurement)		
9	Single Crystal XRD (crystal structure solution, refinement) (small molecule).	₹ 15000-₹ 30000/sample depending on the complexity and disorder modelling	
10	Crystal Structure Report	₹ 5000/sample	
11	VT-PXRD using Single Crystal XRD instrument	₹ 3000 per Temp. Points.	
12	VT-SCXRD (90 K - 500 K)	₹ 5000/hour/Temp. Points.	
13	Single Crystal XRD (macromolecule)	₹ 5000/hour	
14	Crystal structure analysis of protein crystals	Contact us	
	Other X-ray Techniques		
15	SAXS	₹ 7500 per hour	
16	3D X-ray Micro-computed Tomography (micro-CT)	₹ 20,000/sample for imaging + additional ₹ 5000/sample for analysis	
17	XRF	₹ 2000/sample	
	Mass Spectrometry Techniques		
18	LC-HRMS analysis of a single molecule with accurate mass: either +ve or -ve mode (Orbitrap MS)	₹ 5000/sample	
19	LC-HRMS, fragmentation data of a single molecule (Orbitrap MS)	₹ 6000/sample	
20	LC-HRMS, mixture or complex sample analysis with accurate mass determination: either +ve or - ve mode (Orbitrap MS) (40 min acquisition)	₹ 8000/sample	
21	LC-HRMS, mixture or complex sample fragmentation data: either +ve or - ve mode (Orbitrap MS) (40 min acquisition)	₹ 12000/sample	
22	Protein sequencing of single protein by LC-HRMS (Orbitrap MS)	₹ 10000/sample (+₹ 3000 extra for sample processing)	
23	LC-MS/MS-TOF: Triple TOF- (Protein sequencing of single protein)	₹ 10000/sample (+ ₹ 3000 extra for sample processing)	
24	LC-MS/MS-TOF: Triple TOF- (complex mixture	₹ 15,000/sample (+₹ 3,000/- extra for sample processing).	

25	LC-MS/MS-TOF: Triple TOF (PTM analysis of single protein)	₹ 20,000/sample (+₹ 3,000/- extra for sample processing) + 5,000/- peptide annotation.
26	LC-MS/MS-TOF: Triple TOF- LC- MS/MS (IDA and SWATH analysis for relative quantification of proteins) in triplicates of 110 min	₹ 30,000/sample (+ ₹ 3,000/- extra for sample processing)
27	MALDI-TOF-MS (+ve or -ve mode)	₹ 5,000/sample
28	Untargeted Metabolomics (up to 30 min acquisition time) in duplicate analysis	₹ 20,000/sample
29	Peptide mapping (PMF) by MALDI- TOF-MS	₹ 8,000/sample (+₹ 3,000 extra for sample processing
30	Targeted quantification of metabolite or	₹ 30,000/transition per sample
	peptide by MRM or PRM*	For each additional transition ₹ 5,000/ - extra
	Chromatography Techniques	
31	Gas Chromatography	₹ 1000/sample
32	GC-MS	₹ 3000/sample (30 min run)
		Metabolamics studies (plant/ animals samples)
		₹ 5000/sample (50 min run)
33	High Temp GPC (polymer samples)	₹ 20000/sample
34	GPC (CHCl3, THF) (polymer samples)	₹ 9000/sample
35	Aq. GPC (polymer samples)	₹ 7500/sample
36	UPLC	₹ 5000/sample
37	Purity by HPLC	₹ 4000/sample
38	Assay by HPLC	₹ 5000/sample
39	HPLC method development	₹ 5000/day
40	GPC - CHCl3, EtOAc (2.5 L) (Prep. HPLC)	₹ 5,000
41	GPC - CHCl3, EtOAc (5.0 L) (Prep. HPLC)	₹ 10,000
42	Reverse phase (2.5 L) (Prep. HPLC)	₹ 9,000
43	Reverse phase (5.0 L) (Prep. HPLC)	₹ 18,000
44	Chiral separation (Isocratic, 2.5 L) (Prep. HPLC)	₹ 15,000
45	Chiral separation (Isocratic, 5 L) (Prep. HPLC)	₹ 25,000

46	Chiral separation (gradient, 2.5 L) (Prep. HPLC)	₹ 15,000
47	Chiral separation (gradient, 5 L) (Prep. HPLC)	₹ 25,000
	NMR Spectroscopy Analysis	
48	300/400 MHz NMR -Solid state (¹³ C, ²⁹ Si, ³¹ P, ¹⁵ N, etc.)	₹ 16,000/sample for 4 hours, ₹ 2,000/every additional hour
49	300/400 MHz NMR -Solid state (²⁷ Al, ²³ Na. etc.)	₹ 10,000/per sample for 1 hour, ₹ 2,000/every extra hour
50	500 MHz NMR –Solid state	₹ 14,000/sample for 1 hour, ₹ 4,000/every additional hour
51	400 MHz NMR -Solution state (¹ H, ¹⁹ F)	₹ 2000/sample for first one hour; 1500/- every extra hour
52	400 MHz NMR -Solution state (¹³ C, ³¹ P, ¹⁵ N, ²⁹ Si, etc.)	₹ 4000/sample for first 2 hour; ₹ 1500/- every additional hour
53	500 MHz NMR -Solution state ¹ H	₹ 2500/sample for first one hour; ₹ 1800/- every extra hour
54	500 MHz NMR Solution State (13 C, 31 P, 15 N, 29 Si, etc.)	₹ 5000/sample for first two hour; ₹ 1800/- every additional hour
55	500 MHz NMR - ¹³ C High temperature (10mm probe)	₹ 10000/sample for first 5 hour; ₹ 2000/- every additional hour
56	700 MHz NMR -Solution state (1 H, 13 C, 31 P, 15 N, etc.)	₹ 10000/sample for first one hour; ₹ 7500/- for every additional hour
57	700 MHz NMR -Solid state (¹³ C, ²⁹ Si, ¹⁵ N, ³¹ P, etc.)	₹ 20000/sample for first one hour; ₹ 7500/- for every additional hour
	Elemental Analysis	
58	Atomic Absorption Spectroscopy (AAS)	₹ 1500/element
59	ICP-OES	₹ 4000/sample (up to 4 elements) + ₹ 500 extra for each element
60	CHNS Analysis	CH - ₹ 600/-; N - ₹ 600/-; S - ₹ 600/ sample
	Microscopic Techniques	
61	SEM (FESEM)	₹ 7000/sample
62	SEM (SEM+EDX)	₹ 9000/sample
63	SEM (SEM+EDX+Mapping)	₹ 12000/sample
64	TEM	₹ 10000/sample

65	TEM+EDX	₹ 12000/sample
66	HRTEM (JEOL JEM-F200 HRTEM) a. Bright Field	₹ 15000/sample
	b. Dark Field	
	c. Electron Diffraction	
67	HRTEM with EDS	₹ 17000/sample
68	Normal STEM Imaging a. HAADF	₹ 20000/sample
	b. Bright Field	
	c. Dark Field	
69	HR-STEM+Mapping	₹ 25000/sample
70	AFM (basic mode) (Topography)	₹ 10000/sample
71	AFM (advanced mode) (MFM, PFM, Conductive AFM, KPFM, EFM, Resiscope, Force Modulation, SThM)	₹ 10000/sample + additional ₹ 10000/per advanced mode
72	AFM (sample preparation)	₹ 2000/sample
73	Optical microscope RT	₹ 1000/sample
74	Optical microscope High Temperature (Hot Stage Microscopy)	₹ 3000/hour
75	Confocal Microscope	₹ 10000/sample
	Thermal Analysis (TGA/DTA	/DSC)
76	TG/DTA	₹ 3000/sample
77	DSC	₹ 3000/sample
78	STA	₹ 3000/sample
79	DMA	₹ 4000/sample
80	Reaction Calorimetry of a reaction at low temperature and atmospheric pressure (non-toxic and non-corrosive).	₹ 38000/-
81	Reaction Calorimetry of a hydrogenation reaction under hydrogen pressure (non- toxic and non-corrosive).	Contact us
82	Thermal Screening of a liquid or slurry sample.	₹ 6,000/sample
	Spectroscopic Techniques	
83	UV-Vis (liquid)	₹ 1000/sample
84	UV-Vis (Solid)	₹ 3000/sample

85	UV-Vis-NIR (liquid)	₹ 2500/sample
86	UV-Vis-NIR (Solid)	₹ 5000/sample
87	FTIR	₹ 1000/sample
88	Fluorescence spectrometer	₹ 1500/sample
89	CD spectrophotometer	₹ 2500/sample
90	Raman Spectroscopy (regular)	₹ 3000/sample
91	Raman Spectroscopy (RT-800 °C)	₹ 10000/sample
92	Raman Spectroscopy (scan + mapping)	₹ 10000/sample
	Surface Characterization Tech	nniques (XPS/ESCA)
93	Normal XPS	₹ 6000/sample
94	Normal UPS	₹ 9000/sample
95	Normal XPS+UPS	₹ 14000/sample
96	XPS+ data analysis (Peak fitting, composition analysis)	₹ 15000/sample
97	XPS + Mapping	₹ 15000/sample
98	XPS + Depth Profiling	₹ 15000/h (+ ₹ 6000/additional)
99	ESCA (under near-ambient conditions)	₹ 50000/sample/day
	Magnetic Measurements	
100	VSM (M-H) ±1.5 T	₹ 6000/sample
101	VSM (M-T) \leq 0.5 T	₹ 12500/sample
102	VSM (PPMS) M-H \pm 6T at RT	₹ 8000/sample
103	SQUID (PPMS) M-H ± 6T at RT	₹ 10000/sample
104	VSM (M-H) ± 6 T at any other Temp.; 5 - 300 K	₹ 12000/sample/temp.
105	SQUID (M-H) ± 6 T at any other Temp.; 5 - 300 K	₹ 14000/sample
106	VSM (M-T) normal scan; 5 -300 K; ≤ 0.5 T	₹ 15000/sample
107	SQUID (M-T) normal scan;	₹ 18000/sample
107	5 -300 K; \leq 0.5 T	
107	5 -300 K; \leq 0.5 T SQUID (M-T)/(M-H) any special scan	Contact us
		Contact us ₹ 4000/sample
108	SQUID (M-T)/(M-H) any special scan	

111	(a) Degassing 120 deg/2h under vacuum before analysis	₹ 4,000/-
	(b) Surface Area Analysis - only BET SSA (max 1 Bar)	
112	(a) 8 to 12 hrs degassing under vacuum before analysis (as special case only)	₹ 8,000/-
	(b) Surface Area Analysis only BET SSA (max 1 Bar)	
113	(a) Upto 8 hrs degassing under vacuum before analysis	₹ 10,000/-
	(b) Surface Area Analysis Total analysis (Including BET SSA+Pore Size Distribution) (max 1 Bar)	
114	(a) 8 to 12 hrs degassing under vacuum before analysis (as special case only)	₹ 12,000/-
	(b) Surface Area Analysis Total analysis (Including BET SSA+Pore Size Distribution) (max 1 Bar)	
115	(a) Degassing 120 deg/2h under vacuum before analysis	₹ 4,000/-
	(b) N ₂ adsorption @ 25°C (RT)	
	(adsorption capacity only) (max 1 Bar)	
116	(a) Upto 8 hrs degassing under vacuum before analysis [#]	₹ 6,000/-
	(b) N ₂ adsorption @ $25^{\circ}C$ (RT)	
	(adsorption capacity only) (max 1 Bar)	
117	(a) 8 to 12 hrs degassing under vacuum before analysis (as special case only) [#]	₹ 8,000/-
	(b) N_2 adsorption @25°C (RT)	
	(adsorption capacity only) (max 1 Bar)	
118	(a) Upto 8 hrs degassing under vacuum before analysis [#]	₹ 12,000/-
	(b) CO ₂ adsorption 0°C or, 25°C (RT) (max 1 Bar)	
119	(a) 8 to 12 hrs degassing under vacuum before analysis (as special case only) [#]	₹ 15,000/-
	(b) CO ₂ adsorption 0°C or, 25°C (RT) (max 1 Bar)	
	Particle Size and Zeta Potent	ial Measurements

100		3 2000/ 1
120	Particle Size	₹ 5000/sample
121	Zeta potential	₹ 5000/sample
122	Charge carrier mobility measurement (CELIV/Photo-CELIV technique)	₹ 10000/sample (additional charges may apply for sample preparation)
123	Charge carrier mobility measurement (from time of flight(TOF) technique)	₹ 12000/sample(additional charges may apply for sample preparation)
	Biochemical Characterization	
124	Real time PCR	₹ 2000/sample
	Microbial Culture	
125	Active form on slant/stab	₹ 6000/sample
126	Freeze dried/ lyophilized vial	₹ 6000/sample
	Deposit of microbial culture	
127	General Deposit	Free
128	Safe Deposit (For 1 year)	₹ 10000/-
129	Safe Deposit renewal (yearly, from 2nd year)	₹ 5000/-
	Molecular Identifications	
130	Sequencing of culture/ DNA by 16S (bacteria)/ITS/18S/D1-D2 (fungal/yeast) (600-700 bases) with BLAST report	₹ 3,500
131	Sequencing of culture/ DNA by 16S (bacteria)/18S(fungal/yeast) (1100-1200 bases) with BLAST report	₹ 5,000
132	Sequencing of Non-purified PCR product(~600 bases)	₹ 2500/-
133	Sequencing of Non-purified PCR product(~1200 bases)	₹ 3800/-
134	Sequencing of purified PCR product/Cloned plasmid DNA (~600 bases)	₹ 1400/-
135	Sequencing of purified PCR product/Cloned plasmid DNA (~1200 bases)	₹ 2500/-
136	Phylogenetic analysis	₹ 1,500
	Biochemical/Phentypic	
137	VITEK-MS (bacteria, fungi yeast)	₹ 5000/sample

138	VITEK-2 (bacteria, yeast)	₹ 2500/sample
139	Antibiotic susceptibility testing by VITEK	₹ 2000/sample
140	API-Zym (Enzyme)/API-CH50 (substrate utilization) test	₹ 6000/sample
141	Freeze-drying of microbial culture (15 ampoules)	₹ 20000/sample
142	Cycle sequenced ready to run samples 600 bases (only for 1000 samples and above)	₹ 300/-
143	Microbial Whole genome sequencing/ metagenome sequencing (amplicon/shotgun)	Contact us
144	Bacterial genome sequencing with basic bioinfo analysis, 50-100X coverage	₹ 20,000
145	Fungal/ Actionobacteria genome sequencing with basic bioinfo analysis, 50-100X coverage	₹ 40,000
	Miscellaneous Characterizatio	ns
146	Polarimeter	₹ 500/sample
147	Cyclic voltammetry	₹ 1000/sample
148	Ionic conductivity measurement	₹ 4000/sample
149	Super capacitor testing	₹ 5000/sample
150	PEM fuel cell test station: 9 cm2 Single cell testing	₹ 5000/sample
151	PEM fuel cell test station: 45 cm2 Single cell testing	₹ 8000/sample
152	Rheology (ARES)	₹ 5000/sample
153	Thin Film Deposition using thermal evaporator	₹ 5000/deposition* (*depends on the deposition thickness)