Analytical Techniques Services offered us

Sr. No.	Technique
01	Biochemical Characterization
02	Elemental Analysis
03	ESCA Analysis
04	Magnetic measurements
05	Mass spectrometry/Chromatography Techniques
06	Microscopic Techniques
07	NMR Analysis
08	Spectroscopic Techniques
09	Thermal Analysis
10	Water Analysis
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Mass spectrometry/Chromatography Techniques

Technique	Analytical Charges in
Gas Chromatography	4,500/-per sample
GC-MS	18,000/- (Per injection) + 4,050/- per peak
High Temp GPC	90,000/- per sample
GPC (CHCI3, THF)	40,500/- per sample
Aq. GPC	33,750/- per sample
UPLC	9,000/- per sample
HPLC (UV, UV-RI detector)	9,000/- per sample
HPLC (Quaternary Pump system)-Quantification	31,500/- per sample
Protein Chromatography	72,000/- per day
Atmospheric Pressure-MALDI	18,000/- per hour
LC-HRMS (Analysis with accurate mass: either +ve or -ve mode)	18,000/- per sample
LC-HRMS (Analysis with accurate mass: +ve and -ve mode)	20,250/- per sample
LC-HRMS (Fragmentation analysis-single molecule)	22,500/- per sample

LC-HRMS (Mixture sample analysis with accurate mass: either +ve or - ve mode)	27,000/- per sample
LC-HRMS (Mixture sample analysis with accurate mass: +ve and -ve mode)	29,250/- per sample
LC-HRMS (Protein sequencing)	27,000/- per sample (+ 9,000/- extra for sample preparation)
HR-MS (PTM analysis)	36,000/- per sample (+ 9,000/- extra for sample preparation)
LC-MSE (Quantitative proteomics)	45,000/- (+ 9,000/- extra for sample preparation)
LC-MS -simple analysis (either +ve or -ve mode)	67,500/- per sample
LC-MS -simple analysis (+ve and -ve mode)	9,000/- per sample
LC-MS -mixture sample analysis (+ve or -ve mode)	11,250/- per sample
LC-MS -mixture sample analysis (+ve and -ve mode)	13,500/- per sample
LC-MS/MS-TOF: Triple TOF -analysis of processed sample (+ve or – ve mode	18,000/- per sample
LC-MS/MS-TOF: Triple TOF -analysis of processed sample (+ve and – ve mode)	20,250/- per sample
LS-MS/MS-TOF: Triple TOF -analysis of processed sample (Fragmentation analysis)	22,500/- per sample

LC-MS/MS-TOF: Triple TOF -mixture sample analysisanalysis of processed sample (+ve or -ve mode)	22,500/- per sample
LC-MS/MS-TOF: Triple TOF- mixture sample analysis -analysis of processed sample (+ve and -ve mode)	24,750/- per sample
LC-MS/MS-TOF: Triple TOF- (Protein sequencing of single protein)	27,000/- per sample (+ 9,000/- extra for sample preparation)
LC-MS/MS-TOF: Triple TOF -(Complex mixture IDA/Protein identification with sample processing)	45,000/- per sample (+ 9,000/- extra for sample preparation)
LC-MS/MS-TOF: Triple TOF (PTM analysis of single protein)	8000/- per sample (+ 9,000/- extra for sample preparation)
LC-MS/MS-TOF: Triple TOF- LC-MS/MS (SWATH analysisquantitative proteomics & protein profiling of complex mixture with sample processing)	58,500/- per sample (+ 9,000/- extra for sample preparation)
MALDI-TOF/TOF-MS (+ve or -ve mode)	13,500/- per sample
MALDI-TOF/TOF-MS (+ve and -ve mode)	15,750/- per sample
MALDI-TOF/TOF-MS (Fragmentation analysis)	18,000/- per sample
MALDI-TOF/TOF-MS (intact cell MALDI)	13,500/- per sample
MALDI-TOF/TOF-MS Mixture sample analysis (+ve or -ve mode)	22,500/- per sample
MALDI-TOF/TOF-MS Mixture sample analysis (+ve and –ve mode)	24,750/- per sample

MALDI-TOF/TOF-MS (Protein sequencing)	27,000/- per sample (+ 9,000 extra for sample preparation)
MALDI-TOF/TOF-MS (PTM analysis)	36,000/- per sample (+ 9,000 extra for sample preparation

Elemental Analysis

Technique	Analytical Charges in Rs.
AAS	6,750/- per element
ICP-OES	18,000/- per sample (up to 4 elements) + 2,250/_ extra for each element
CHNS Analysis	CH – 2,700/-; N – 2,700/-; S – 2,700/- per sample

Biochemical Characterizations

Technique	Analytical Charges in Rs.
Real time PCR	6,750/- per sample

Molecular/genetic ID \$
Sequencing of pure culture by 16S/ITS/18S/D1-D2 (~600 bases)
Sequencing of pure culture by 16S/18S/other (~1200 bases)
Sequencing of Non-purified PCR products/genomic DNA (600 bases)

Sequencing of Non-purified PCR products/genomic DNA (1200 bases)	
Sequencing of purified PCR product/Cloned plasmid DNA (~600 bases)	
Sequencing of purified PCR product/Cloned plasmid DNA (~1200 bases)	
Cycle sequenced ready to run samples 600 bases (only for 1000 samples and above)	
Phylogenetic analysis	
Microbial Whole genome sequencing/ metagenome sequencing (amplicon/shotgun)	
Biochemical/phentypic ID \$	
VITEK-MS	
Identification by VITEK-2 compact	
Antibiotic susceptibility testing by VITEK 2	
API-Zym (Enzyme)/API-CH50 (substrate utilization) test	
Freeze-drying of microbial culture (20 ampoules)	

Microscopic Techniques

Technique	Analytical Charges in Rs.	
Optical microscope RT	4,500/- per sample	
Optical microscope HT	13,500/- per hr	
Confocal Microscope	45,000/- per sample	
AFM	22,500/- per hour	
SEM – Low resolution		
SEM	9,000/- per sample	
SEM+EDX	13,500/- per sample	
SEM - High resolution		
SEM (High vacuum mode)	18,000/- per sample	
SEM (High vacuum mode)+EDX	27,000/- per sample	
SEM (Low vacuum mode)	22,500/- per sample	
SEM (Low vacuum mode)+EDX	31,500/- per sample	
SEM (ESEM mode)	31,500/- per sample	
SEM (FIB mode)	45,000/- per sample	

SEM (FESEM)	31,500/- per sample
SEM (FESEM) + EDX	40,500/- per sample
TEM	45,000/- per sample
TEM+EDX	67,5000/- per sample
HRTEM Modes of Analysis	(JEOL JEM-F200 HRTEM)
HRTEM a. Bright field b. Dark Field c. Diffraction	Rs. 67,500/- per sample
HRTEM with EDS	Rs. 76,500/- per sample
Normal STEM Imaging a. HAADF b. Bright field c. Dark Field	Rs. 90,000/- per sample
HRSTEM	Rs. 112,500/- per sample

NMR Analysis

Technique	Analytical Charges in Rs.
300/400 MHz NMR -Solid state (13C, 29Si, 31P, 15N etc)	54,000/- per sample up to 4 hr data collection; 6,750/- per every additional hr
300/400 MHz NMR -Solid state (27Al, 23Na etc)	22,500/- per sample for first one hr; 6,750/-every additional hr
400 MHz NMR -Solution state (1H,19F)	9,000/- per sample for first one hr; 6,750/- every additional hr
400 MHz NMR -Solution state (13C, 31P, 15N,29Si etc)	18,000/- per sample for first 2hrs; 6,750/- every additional hr
500 MHz NMR -Solution state 1H	11,250/- per sample for first one hr; 1800 every additional hr
500 MHz NMR Solution State (13C, 31P, 15N,29 Si etc)	5000/- per sample for first two hrs; 2,700/- every additional hr
500 MHz NMR -13C High temperature (10mm probe)	45,000/- per sample for first 5 hrs; 9,000/- every additional hr
700 MHz NMR -Solution state (1H, 13C, 31P, 15N etc)	45,000 /- per sample for first one hr; 33,750/- for every additional hr.
700 MHz NMR -Solid state (13C, 29Si, 15N, 31P etc)	90,000 /- per sample for first one hr; 33,750/- for every additional hr.

Spectroscopic Techniques

Technique	Analytical Charges in Rs.
UV-Vis (liquid)	4,500/- per sample
UV-Vis (Solid)	13,500/- per sample
UV-Vis-NIR (liquid)	11,250/- per sample
UV-Vis-NIR (Solid)	22,500/- per sample
FTIR	4,500/- per sample
Fluorescence spectrometer	6,750/- per sample
CD spectrophotometer	11,250/- per sample
Raman Spectroscopy (regular)	9,000/- per sample
Raman Spectroscopy (Low Temp)	22,500/- per each temp.

X-ray Techniques

Technique	Analytical Charges in Rs.
Powder X-ray diffraction (regular scan)	9,000/- per sample
Powder X-ray diffraction (regular scan) -2D scan	22,500/- per sample
Powder X-ray diffraction -slow scan	27,000/- per hr.
Powder X-ray diffraction (0.5 to 10 deg)	11,250/- per sample
Powder X-ray diffraction (0.5 to 10 deg) -slow scan	36,000/- per hr.
Powder XRD -HT	36,000/- per hr.

Technique	Analytical Charges in Rs.
Powder XRD -LT	45,000/- per hr.
Single Crystal XRD	112,500/- for 4 hrs + 22,500/- for additional hrs
Single Crystal XRD (Phase identification by unit cell measurement)	Rs. 22,500/- per sample
Single Crystal XRD (without structure determination/analysis)	Rs. 67,500/- per sample
SAXS	67,500/- for 2hrs + 22,500/- per additional hr.
3D X-ray Micro-computed Tomography (micro-CT)	Rs 90,000 per sample for imaging + additional Rs 5000 per sample for analysis

Thermal Techniques

Technique	Analytical Charges in Rs.
TG/DTA	13,500/- per hour
DSC	13,500/- per hour
STA	13,500/- per hour
TMA	13,500/- per hour
DMA	13,500/- per hour
Reaction Calorimetry of a reaction at low temperature and atmospheric pressure (non-toxic and non-corrosive).	171,000/-
Reaction Calorimetry of a hydrogenation reaction under hydrogen pressure (non-toxic and non-corrosive).	Charges can be quoted after looking at the reaction and process parameters.
Thermal Screening of a liquid or slurry sample.	27,000/-

Miscellaneous Techniques

Technique	Analytical Charges in Rs.
Surface Area	22,500/-per sample
Surface Area: Total Analysis	45,000/- per sample
Basic Physisorption system : TPD	45,000/- per day

Polarimeter	2,250/- per sample
Cyclic voltammetry	4,500/- per sample
Impedance analysis	13,500/- per sample
Ionic conductivity measurement	18,000/- per sample
Super capacitor testing	22,500/- per sample
PEM fuel cell test station: 9 cm2 Single cell testing	22,500/- per sample
PEM fuel cell test station: 45 cm2 Single cell testing	36,000/- per sample
Rheology (ARES)	22,500/- per sample
Particle Size	22,500/- per sample
Zeta potential	22,500/- per sample
Charge carrier mobility measurement (CELIV/Photo-CELIV technique)	45,000/- per sample(additional charges may apply for sample preparation)
Charge carrier mobility measurement (from time of flight(TOF) technique)	54,000/- per sample(additional charges may apply for sample preparation)