

**SPECIALIZED INSTRUMENTS AND SERVICES AVAILABLE AND CHARGES FOR THE SAME +  
SERVICE CHARGES AS PER GOVERNMENT RULES**

S.N	Name of the Instruments	Type of service provided	Charges for Govt./private institutes	Charges for Industry
<b>Production</b>				
1.	Fermentor (14)*	Run time + 1/ 2days	Rs. 6,000 per day	Rs. 12,000 per day
2.	Fermentor 120*	Run time + 2 days	Rs. 10,000 per day (--do--do--)	Rs. 20,000 per day (--do--)
* Rs. 1000/- per day for manpower support				
<b>Upstream &amp; Downstream processing</b>				
3.	Filtration (MF, UF, NF)	Lab scale	Rs. 800 per hour	Rs. 1,600 per hour
4.	Nanofiltration	Pilot scale	Rs. 1200 per hour	Rs. 2,400 per hour
5.	Filtration (MF, UF)	Pilot scale	Rs. 1000 per hour	Rs. 2,000 per hour
<b>Analysis</b>				
6.	<ul style="list-style-type: none"> <li>• <b>HPLC(PDA/RID)</b>Analysis(Make: Agilent/Waters/Thermo Scientific;Model:1260/ UPLC-H/Ultimate3000</li> <li>• <b>LC-MS</b>(Make:Agilent;Model:6120;ESI mode), (method to be provided)  Direct Injection Mass (method to be provided)</li> <li>• <b>UPLC-MS</b> (Make: Water; Model: UPLC H class- QDa)</li> </ul>	Qualitative Analysis	Rs. 2500 per sample *  Rs. 5000 per sample *  Rs. 2500 per sample *  Rs.1200 per sample*	Rs. 5,000 per sample *  Rs. 10,000 per sample *  Rs. 5,000 per sample *  Rs.2400 per sample*

	Direct Injection Mass (method to be provided)		Rs.600 per sample*  * Or per hour (whichever is less)	Rs. 1200 per sample*  * Or per hour (whichever is less)
7.	<ul style="list-style-type: none"> <li>• <b>GC-MS(EI Source)</b> (Make: Thermo Scientific; Model : Trace 1300-ISQ LT)</li> <li>• <b>GC-FID Analysis</b> (Make: Thermo Scientific) (method to be provided)</li> <li>• <b>Library Search</b></li> <li>• <b>GC-MS-Pyroliser</b> (Make: CDS;Model:Pyroprobe-6150)  (method to be provided)</li> </ul>	Qualitative Analysis	Rs.2600 per sample*  Rs 2600 per sample*  Rs 250/peak  Rs.1200 per sample*  * Or per hour (whichever is less)	Rs. 5,200 per sample*  Rs. 5,200 per sample*  Rs 500 per peak  Rs.2400 per sample  * Or per hour (whichever is less)
8.	<b>FT-IR with ATR analysis</b> (Make : Agilent; Model: Cary 660 series)	Qualitative Analysis	Rs. 1,150 Per sample	Rs. 2,300 Per sample
9.	<b>Polarimeter</b> (SOR for each wavelength)  Wavelength: 365, 405, 436, 546, 589 & 633 nm  Make: Anton Paar; Model: MCP 200	Qualitative Analysis	Rs. 1,100 per sample	Rs.2,200 per sample
10.	<b>Rheometer</b> (Make: TA Instruments) (method to be provided)	Qualitative Analysis	Rs 1,000 per sample (for each parameter)	Rs 2,000 per sample
11.	<b>Scanning Electron Microscope</b> (Make: JEOL)	Analysis of one sample	Rs. 2,500 per hour	Rs. 5,000 per hour

12.	<b>UV-Vis Spectrophotometer</b> (Make: Shimadzu; Model: UV2600,)	Qualitative Analysis (Solid and liquid samples)	Rs.400 per sample	Rs.800 per sample
13.	<b>Inverted Fluorescence Microscopy</b> (Make: Nikon; Model:TS2FL)	Analysis	Rs.300 per hour	Rs.600 per hour
14.	<b>Chemisorption Analyzer</b> (Make: BEL; Model: BELCat II)	Analysis	Rs.2,100 per sample	Rs.4,200 per sample
15.	<b>Fluorescence Spectrophotometer</b> (Make: Agilent; Model: Cary Eclipse)	Qualitative Analysis	Rs.400 per sample	Rs.800 per sample
16.	<b>Simultaneous Thermal Analyzer(TGA/DSC)</b> (Make: STA 8000; Model: Perkin Elmer)	Analysis	Rs.800 per sample	Rs.1,600 per sample
17.	<b>Multimode Microplate Reader Spectrophotometer</b> (Make:BioTek; Model: CYTAION5)	Analysis	Rs.300 per hour	Rs.600 per hour
18.	<b>Particle Size Zeta Potential Measuring Analyser</b> (Make:Malvern; Model:Nano 25)	Analysis	Rs.500 per sample	Rs.1,000 per sample
19.	<b>Ion Chromatography</b> (Make: Thermo Scientific; Model Dionex ICS-6000)	Qualitative Analysis	Rs. 700 per sample per hour	Rs.1,400 per sample per hour
20.	<b>ICP-MS</b> (Make: Agilent Technologies; Model:7800 )	Analysis	Rs. 450 per sample per element • Subsequent element would be added Rs100/element	Rs.900 per sample per element • Subsequent element would be added Rs100/element
21.	<b>PREP-HPLC</b> (Make: Shimadzu; Model: PREP LC-20AP) (method to be provided)	Analysis	Rs. 900 per hour	Rs. 1,800 per hour
22.	<b>X-Ray Diffractometer(XRD)</b> (Make: Rigaku; Model: Smartlab SE) (for powder/thin film sample)	Analysis	Rs.1,450 per sample	Rs.2,900 per sample

23.	<b>CHNOS Analyzer</b> (Make: Elementar; Model: Vario MACRO cube)	Analysis	Rs.700 per sample	Rs.1,400 per sample
24.	<b>Physisorption Analyzer</b> (Make: Anton Paar; Model: AsiQ-XR-XR-AG)	Analysis	Rs.3,300 per sample	Rs.6,600 per sample
<b>Other Instrumental Facilities</b>				
25.	Lyophilizer for lab scale	RB flask 250ml / 500 ml	Rs. 1,200 per hour	Rs. 2,400 per hour
26.	Flash Chromatography	Extraction of one sample	Rs. 3,000 per hour	Rs. 6,000 per hour
27.	Parr Reactor	Analysis of one sample	Rs. 2,500 per hour	Rs. 5,000 per hour
28.	Supermass colloidier	One sample	Rs. 850 per hour	Rs. 1,700 per hour
29.	Rancimat (Shelf life study of oils/fats/lipids)	Analysis of one sample	Rs. 2,500 per hour	Rs. 5,000 per hour
30.	Protein purification Acta prime	Purification of protein	Rs.300 per hour	Rs.600 per hour
31.	Centrifuge Pilot scale (6 lit. max.)	Pilot-scale separation	Rs.450 per hour	Rs.950 per hour
32.	Automatic Protein Analyzer (Kjeldahl method)	Nitrogen analyzer	Rs.400 per sample	Rs.800 per hour
33.	Extruder	Formulation	Rs.500 per hour	Rs.1,000 per hour
34.	Spray Dryer (Semi-Pilot Scale)	Dryer semi-pilot	Rs.400 per hour	Rs.800 per hour
35.	Oxygen Transmission Rate Tester	Analysis	Rs. 570 per hour	Rs. 1140 per hour

**General Rules and Instructions for submitting the samples**

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| <b>1</b> | <b><i>The charge will be 30 % more if analyses are to be performed on a priority basis (results can be delivered though e-mail).</i></b> |
| <b>2</b> | <b><i>The charges will be 20 % more if results are to be delivered by e-mail.</i></b>  |
| <b>3</b> | <b><i>Please add postage charges of Rs 100 if the results are to be delivered by courier.</i></b>  |
| <b>4</b> | <b><i>No sample will be analyzed without advance payment.</i></b>  |
| <b>5</b> | <b><i>It is suggested to provide the samples for each instrument separately to decrease the analysis time.</i></b>                       |
| <b>6</b> | <b><i>The sample name / batch no / required analysis should be clearly mentioned on the sample / requisition form.</i></b>               |
| <b>7</b> | <b><i>GST will be charged extra.</i></b>   |