

| Item Sr. No | Test | Test Fee per sample (Rs) | Minimum Sample Size | Remarks |
|-------------|--|---------------------------|------------------------------|--|
| 15 | Special Tests | | | |
| 177 | ICP-MS | | | |
| | Aqueous sample not requiring any preparation | 2000 (up to 23 elements)* | 25ml | * Ag, Al, B, Ba, Bi, Ca, Cd, Co, Cu, Cr, Fe, Ga, In, K, Li, Mg, Mn, Na, Ni, Pb, Sr, Tl, Zn 400 per extra element Mo, Ti, Hg, Se, Sb, I, As, Pt) |
| | Sample requiring microwave digestion | 3500 (up to 23 elements)* | 1 g | |
| 178 | Raman spectroscopy for solid and liquid samples using 1065 nm laser | 1500 | 5 gm/ml | |
| 179 | TGA scan from 30°C to 950 °C @ heating rate of 20°C /min | 4000 | 1 g | |
| 180 | TOC Analysis for liquid samples (T C/ NPOC Method) | | | |
| | ppm level | 1000 | 100 ml | |
| | ppb level | 1200 | 100 ml | |
| 181 | TOC Analysis for Solid Sample (TC and IC method)ppm level | 1200 | 5 g | |
| 182 | Total Nitrogen Analysis for Liquid samples using TOC Analyser | 1500 | 100 ml | |
| 183 | COD analysis using thermal reactor | 800 | 100 ml | |
| 184 | FTIR KBr /Diamond ATR | 1800 | | |
| 185 | UV absorbance/transmission scan | 400 | 100 ml/ 5g | |
| 186 | Analysis of Sodium/ Potassium content of water by Flame Photometer (per element) | 300 | 500 ml | Rs. 500/- extra for digestion if required |
| 187 | Elemental Analysis by AAS (per element) | 450 | 100 ml/ 5g | Rs 500 extra for digestion |
| 188 | Scanning Electron Microscope | | | |
| | Surface morphology | 2500 | 1 g | Maximum 4 micrographs |
| | Cross section | 3000 | | |
| 189 | AFM Imaging | 5000 | | |
| 190 | Light micrograph / Photomicrograph | 1000 | | Rs 500 extra for Sample Preparation/Staining |
| | (10x, 40x and 100x magnifications) | | | |
| 191 | Particle Size Characterization | | | |
| | a) Nano Particle Size Analysis by DLS (0.6 nm to 6 micron) | 2000 | 10 ml for aqueous suspension | Sample in stable suspension only |
| | b) Nano Particle Size Analysis by DLS (0.6 nm to 6 micron) and Zeta potential | 3000 | | |
| | c) Particle Size Analysis by Micron size analyser -LASER Diffraction method (20 nm to 2000 microns) | 1500 | 10g for powder | powder sample should be free flowing and free from aggregates. |

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|-----|---|------|------------------------------|--|
| | d) Particle Size Analysis by Micron size analyser -LASER Diffraction method (20 nm to 2000 microns) and dynamic image analysis | 2000 | 10 ml for aqueous suspension | suspension sample should be in aqueous and free from aggregates. Refractive index of the particles need to be provided |
| 192 | Electrical Resistance of Textile Materials, Thin films etc. by Electrometer (6517A) | 2000 | 0.5 m | |
| 193 | Surface Tension by pendant drop method using goniometer | 2000 | | |
| 194 | Contact angle by goniometer | 2000 | | |
| 195 | Surface energy of the material | | | |
| | a) one Liquid method | 2000 | | |
| | b) two Liquid method | 3000 | | |
| 196 | Friction coefficient (Yarn/fibre/ fabric to Yarn/fibre/fabric , Yarn/fibre/ fabric to metal) | 2000 | 1 m | |
| 197 | Weathering/xenon arc exposure Test as per ASTM/ISO /SEA J Method | | | |