

**CENTRAL INSTRUMENTATION FACILITY, BIT MESRA, RANCHI-835215**  
**Revised Testing charges for various Analytical Instruments with effect from 01.04.2013**

Sl.No	Instrument	Type of Analysis	BIT Personnel	**R & D Lab, National Lab & Educational Institutions	**Industry	
1	Electrochemical Analyzer	Electrochemical behavior of samples	100/- per sample	200/- per sample	500/- per sample	
2	Spectrofluorophotometer	Flourescence spectra	150/- per sample	300/- per sample	500/- per sample	
3	Elemental Analyzer	Element analysis (C, H,N,S)	250/- per sample	500/- per sample	1000/- per sample	
		Element analysis (O)	250/- per sample	400/- per sample	1000/- per sample	
4	FTIR	Functional group analysis	100/- per sample	200/- per sample	500/- per sample	
5	UV-VIS Spectrophotometer	Absorption spectra	100/- per sample	200/- per sample	500/- per sample	
6	Optical Contact Angle	Contact angles of surfaces	100/- per sample	250/- per sample	500/- per sample	
7	Surface Tensiometer	Surface tension of liquids or powders	100/- per sample	250/- per sample	800/- per sample	
8	Impedance Analyzer	Impedance behavior of materials	150/- per sample	300/- per sample	750/- per sample	
9	TGA/DTA	Thermal stability of samples	300/- per sample	600/- per sample	1200/- per sample	
10	GPC	Water/buffer as solvent	300/- per sample	600/- per sample	1500/- per sample	
		Toluene/THF solvent	400/- per sample	800/- per sample	2000/- per sample	
11	Colorimeter	Color measurement of powder or liquid samples	100/- per sample	200/- per sample	500/- per sample	
12	DSC	0°C-500°C	300/- per sample	600/- per sample	1200/- per sample	
		-90-0°C	400/- per sample	800/- per sample	1500/- per sample	
13	Porosity meter	Porosity of solid sample	300/- per sample	600/- per sample	1500/- per sample	
14	Ellipsometer	Thickness and refractive index of thin film	150/- per sample	300/- per sample	750/- per sample	
15	Particle size Analyzer	Particle Size	150/- per sample	300/- per sample	600/- per sample	
		Zeta Potential	150/- per sample	300/- per sample	600/- per sample	
		Molecular weight using SLS	150/- per sample	300/- per sample	600/- per sample	
16	AFM	Surface morphology	500/- per sample	1000/- per sample	2000/- per sample	
17	SEM with EDS	Au/Pt Coating	200/- per sample	300/- per sample	400/- per sample	
		Surface morphology	300/- per sample	500/- per sample	800/- per sample	
		Element analysis	300/- per sample	300/- per sample	400/- per sample	
18	Inductively coupled plasma optical emission spectroscopy (ICP-OES)	Detection of elements	400/- for 1 <sup>st</sup> element 100/- for every additional element 500/- for sample digestion	800/- for 1 <sup>st</sup> element 200/- for every additional element 800/- for sample digestion	1200/- for 1 <sup>st</sup> element 400/- for every additional element 1000/- for sample digestion	
		UTM	Tensile testing	750/- per sample	1000/- per sample	2000/- per sample
		PCB	Circuit designing	400/- per sample	1000/- per sample	2000/- per sample
21	Pulse analyzer	Structural analysis	200/- per sample	400/- per sample	1000/- per sample	
22	LCMS/MS	MS	500/- per sample	800/- per sample	2000/- per sample	
		LCMS	1000/- per sample	1500/- per sample	3000/- per sample	

**\*\* CGST(Central Goods and Services tax): 9% + SGST(State Goods and Services tax): 9%, will be charged extra on the accumulated testing charges.**

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Sl.No	Instrument	Type of Analysis	BIT Personnel	**R & D Lab, National Lab & Educational Institutions	Industry
23	XRD	Detection of elements	XRD(SCD) : 250/- per sample XRD(SSD) : 300/- per sample XRD(Thin Film) : 250/- per sample XRD(HT) : 500/- per sample XRD(SAXS) : 500/- per sample XRD(Liquid) : 300/- per sample	500/- per sample 600/- per sample 500/- per sample 1000/- per sample 1000/- per sample 600/ per sample	1000/- per sample 1200/- per sample 1000/- per sample 3000/- per sample 2000/- per sample 1500/ per sample
24	Raman Spectrometer	Under revision			
25	Semiconductor Characterization Unit	Under revision			
26	Atomic Absorption Spectroscopy (AAS)	Under revision			
27	Dynamic Mechanical Analyser (DMA)	Under revision			
28	Gas Chromatography (GC)	Under revision			
29	Chemisorption	Under revision			
30	Field Emission Scanning Electron Microscope (FESEM)	Under revision			
31	Prep HPLC	Under revision			
32	HPLC	Under revision			
33	Micro hardness Tester	Under revision			
34	Brinell Hardness Tester	Under revision			
35	Simultaneous Thermal Analyser	Under revision			
36	UV-Vis NIR Spectrometer	Under revision			
37	NMR-400	Under revision			
38	Autolab 302N with Solarsimulator	Under revision			
39	GCMS	Under revision			
40	UPLC	Under revision			
41	UHPLC	Under revision			
42	Automatic Compression Testing Machine	Under revision			
43	Laser Diffraction Particle Size Analyser	Under revision			
44	Single Crystal XRD	Under revision			
45	Flash Chromatography	Under revision			
46	Ion Chromatography	Under revision			

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**CENTRAL INSTRUMENTATION FACILITY, BIT, MESRA RANCHI 835215**  
**(A) Analysis charges of Water and Waste Water Samples with effect from Dt.01.12.2013**

**(I) Regular Parameter**

SI No	Water Quality Parameters	Charges in Rupees
1	Regular Parameters(p <sup>H</sup> , Turbidity, TDS, TSS, Conductivity, Salinity, Total Alkalinity/Acidity, Total Hardness, DO, Calcium, Magnesium, Sodium, Manganese, Potassium, Iron, Chloride, Nitrate, Sulphate, Phosphate, Fluoride)	(i) 2500.00 per sample (ii) 2000.00 per sample (For more than 10 samples)

**(II) Individual Parameters**

SI No	Water Quality Parameters	Charges in Rupees
1	pH	50.00
2	Conductivity	50.00
3	Salinity	50.00
4	TDS	50.00
5	TSS	100.00
6	Turbidity	100.00
7	Total Hardness	200.00
8	Temporary Hardness	200.00
9	Ca Hardness	200.00
10	Mg Hardness	200.00
11	Total Alkalinity	100.00
12	Acidity	100.00
13	DO	150.00
14	BOD	250.00
15	COD	300.00
16	SO <sub>4</sub> <sup>2-</sup>	200.00
17	NO <sub>3</sub> <sup>-</sup>	200.00
18	OH <sup>-</sup>	100.00
19	CO <sub>3</sub> <sup>-</sup>	100.00
20	HCO <sub>3</sub> <sup>-</sup>	100.00
21	Cl <sup>-</sup>	100.00
22	F <sup>-</sup>	200.00
23	PO <sub>4</sub> <sup>-3</sup>	200.00
24	CN <sup>-</sup>	200.00
25	Sodium	250.00
26	Potassium	300.00
27	Calcium	300.00
28	Magnesium	300.00
29	Manganese	300.00
30	Iron	300.00
31	Chromium	300.00
32	Copper	300.00
33	Zinc	300.00
34	Cadmium	300.00
35	Mercury	300.00
36	Arsenic	300.00
37	Aluminum	300.00
38	Silicon	300.00
39	Beryllium	300.00
40	Cobalt	300.00
41	Lithium	300.00
42	Molybdenum	300.00
43	Nickel	300.00
44	Lead	300.00
45	Antimony	300.00
46	Selenium	300.00
47	Strontium	300.00
48	Titanium	300.00
49	Tellurium	300.00
50	Vanadium	300.00
51	Boron	300.00

**(B) Analysis Charges for Soil/Sludge/Sediment/Solid Waste Samples with effect from Dt.01.12.2013**

SI No	Soil Parameters	Charges in Rupees
1	pH	100.00
2	Electrical Conductivity(EC)	100.00
3	Soil Moisture	100.00
4	Cation Exchange Capacity (CEC)	400.00
5	Sodium Adsorption Ratio (SAR)	400.00
6	Total Water Soluble Salt	300.00
7	Exchangeable Sodium Percentage (ESP)	400.00
8	TKN	500.00
9	Chloride	150.00
10	Nitrate	300.00
11	Sulphate	300.00
12	Bicarbonate	250.00
13	Phosphate	300.00
14	Fluoride	300.00
15	Cyanide	400.00
16	Sodium	400.00
17	Potassium	400.00
18	Calcium	400.00
19	Magnesium	400.00
20	Manganese	400.00
21	Iron	400.00
22	Chromium	400.00
23	Copper	400.00
24	Zinc	400.00
25	Cadmium	400.00
26	Mercury	400.00
27	Arsenic	400.00
28	Aluminum	400.00
29	Silicon	400.00
30	Beryllium	400.00
31	Cobalt	400.00
32	Lithium	400.00
33	Molybdenum	400.00
34	Nickel	400.00
35	Lead	400.00
36	Antimony	400.00
37	Selenium	400.00
38	Strontium	400.00
39	Titanium	400.00
40	Tellurium	400.00
41	Vanadium	400.00
42	Boron	400.00

**Note (1):** The above charges for analysis of metals in water samples (Analysis by ICPOES) is applicable for analysis of minimum six metals per sample. For single metal analysis the charges will be Rs 800.00 per sample.

**(2):** The above charges for analysis of metals in soil samples (Analysis by ICPOES and Microwave Digester) is applicable for analysis of minimum seven metals per sample. For single metal analysis the charges will be Rs 1600.00 per sample.

**\*\* SGST(State Goods and Services tax): 9% + CGST(Central Goods and Services tax): 9%, will be charged extra on the accumulated testing charges.**