



“জীবনের জন্য বিজ্ঞান”

ইনস্টিটিউট অব মাইনিং, মিনারেলজি এন্ড মেটালার্জি
বিসিএসআইআর, জয়পুরহাট

**INSTITUTE OF MINING, MINEAROGY & METALLURGY
RESEARCH & TESTING, BCSIR, JOYPURHAT**

Sl. No.	Name of Samples	Test Parameter	Instrument/ Methodology	Charge (Taka)
1.	Solid Fuel: Coal, coke, charcoal, wood, rice husk, saw dust etc.	Ash	Furnace	1000/- Per Sample.
2.	Coal, Fuels, Oil etc.	Calorific Value, Sulfur content	Bomb Calorimeter	1500/- Per Sample.
3.	Steel (MS), Alloys	Carburizing	Furnace	Depends on No. and size of job.
4.	Cast iron Aluminium Brass	Casting	Sand Casting Setup	100/- per Kg. 260/- per Kg. 260/- per Kg.
5.	All types of Rocks, Minerals, Alloys, Sands, Soil, Stones etc.	Elemental Composition	XRF	5000/- Per Parameter.
6.	Sand	Compression, Shear, Tensile strength of Green sand, Nobake sand etc	Universal Sand Strength Machine	500/- Per Parameter.
7.	Rocks, Minerals, Rod, Concrete cylinder, Bricks, Alloys, Ceramics	Compressive and Tensile strength, modulus of elasticity, poisson's ratio	Universal Testing Machine (UTM)	2000/- Per Parameter.
8.	Rocks, Minerals, Coals, Ceramics, Sands etc.	Crushing	Jaw Crusher: (Feeding size : <200mm Final size: <10 mm)	250/- Per Sample (250gm).
9.	Specimen having both izod and charpy configuration	Energy Test	Impact Tester	1000/- Per Sample.
10.	Rocks, Minerals, Soils Coals, Ceramics, Sands etc.	Grinding	Disk Mill (Feeding size : <20 mm Final size: 0.1mm-5mm)	500/- Per Sample (250gm).
11.	Rocks, Minerals, Soils Coals, Ceramics, Sands etc.	Grinding	Mortar Grinder (Feeding size : <8mm Final size:<0.01mm)	500/- Per Sample (250gm).
12.	Rocks, Minerals, Soils Coals, Ceramics, Sands etc.	Grinding and Mixing	Planetary Mill (Feed size: <10mm (Max) Final size: <1 μ m.)	1000/- Per Sample (250gm).



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Sl. No.	Name of Samples	Test Parameter	Instrument/ Methodology	Charge (Taka)
13.	Sand	Hardness Test	Mould Hardness Tester	500/- Per Sample.
14.	Ferrous and non-ferrous materials	Hardness Test	Rockwell Hardness Tester	2000/- Per Sample.
15.	Steel (Mold), Alloys	Heat Treatment	Furnace	Depends of No. and size of job.
16.	Sands	Magnetic Separation	High Tension Magnetic Separator	1000/- Per Sample (1 Kg)
17.	Sands	Magnetic and Para Magnetic Separation	Induced Roll Magnetic Separator	2000/- Per Sample (1 Kg)
18.	Mild Steel	Mat. Joining	Arc Welding	100/- per rft
19.	S/S	Mat. Joining	Arc Welding	120/- per rft
20.	Cast Iron	Mat. Joining	Arc Welding	220/- per rft
21.	Gold, Super Alloys, Steel etc.	Melting	Induction Furnace (1800°C)	Depends of No. and size of job.
22.	Steel, Alloys	Melting and Treatment	Tube Furnace	Depends of No. and size of job.
23.	Metals, Alloys	Metallographic Specimen	Cutting device, Mounting device, Polishing wheel	500/- Per Sample.
24.	Rocks, Minerals	Mineralogical Composition	Polarizing and Zoom Microscope	2000/- Per Slide.
25.	Ores	Mineralogical Composition	Ore Microscope	2000/- Per Slide.
26.	Sand	Moisture % in Raw sand and Green sand.	Moisture Tester	500/- Per Sample (250gm).
27.	Solid Fuel: Coal, coke, charcoal, wood, rice husk, saw dust etc.	Moisture Content	Furnace	500/- Per Sample.
28.	Metals, Alloys	Ore/Metallic Composition	Ore/Metallurgical Microscope	2000/- Per Specimen.
29.	Sands	Particle Size Distribution	Sieve Analyzer	500/- Per Sample (250gm).
30.	Sands, Soils (nano size)	Particle Size Analysis	Particle Size Analyzer	1500/- Per Sample
31.	Rocks, Minerals	Petrographic Slide	Petrological Sample Preparation Equipment	500/- Per Sample.
32.	Ores	Petrographic Specimen	Petrological Sample Preparation Equipment	500/- Per Sample.

সায়েন্স ল্যাবরেটরি রোড, খনজনপুর, জয়পুরহাট-৫৯০০

ফোনঃ ০৫৭১ ৬৩৪৮১; ফ্যাক্স: ০৫৭১ ৬২৯১১



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Sl. No.	Name of Samples	Test Parameter	Instrument/ Methodology	Charge (Taka)
33.	Clay/Feldspar/Quartz/ Refractory/Minerals/ Ceramic materials/ Enamel / Cement	Phase Analysis	X-ray Diffractometer XRD	5000/- Per Sample.
34.	Sands	Porosity in Raw sand, Green, Nobake sand.	Permeability Tester	500/- Per Sample.
35.	Organic/Inorganic Material	Pulverizing	Pulverizer/Press	100/- Per Kg.
36.	Glass Materials, Oil, Water, Honey etc.	Refractive Index	Refractometer	500/- Per Sample.
37.	Ceramic/Enamel Slips	Rheology Study	Viscometer, Circulator	1500/- Per Sample.
38.	Rocks, Minerals, Soils Coals, Ceramics, Sands etc.	Separation of ferrous and non-ferrous materials.	Floatation Cell	1000/- Per Sample (1 kg.).
39.	Rocks, Minerals, Alloys or any suspension.	Trace metals (Al, Mg, Mn, Fe, Cu, Ti, As, Zn, Co, Ni etc.)	Titrametric /Gravimetric /Colorimetric/ UV Spectrophotometric	1000/- Per Element.
40.	Water, Waste Water or any suspension.	Trace metals (Pd, Hg, As, Cl, SO ₄ , NO ₃ , NO ₂ , Al, Mg, Mn, Fe, Cu, Ti, As, Zn, Co, Ni etc.)	Titrametric /Gravimetric /Colorimetric/ UV Spectrophotometric	1000/- Per Element.
41.	Water, Waste Water or any suspension.	Trace metals (COD, BOD, DO, Color etc.)	Titrametric /Gravimetric /Colorimetric/ UV Spectrophotometric	1000/- Per Element.
42.	Water, Waste Water or any suspension.	Trace metals (multi element)	ICP-MS	20000/- Per sample.
43.	Rocks, Minerals, Alloys or any suspension.	Trace metals (multi element)	ICP-MS	20000/- Per sample.
44.	Ferrous and non- ferrous materials	Turning/thread ing facing/boring	Lathe, Drilling m/c, Grinding M/c etc.	200/- Per working hour.
45.	Liquid Fuels/Liquid Hydrocarbon: petrol, diesel, grease, kerosin, tar, bitumen, engine oil	Viscosity Index	Viscometer, Circulator	1500/- Per Sample.

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Sl. No.	Name of Samples	Test Parameter	Instrument/ Methodology	Charge (Taka)
46.	Mine Field	Support Design	Mining Software Phase ² 6.0	8,00,000/- (Negotiable)
47.	Mine Field	3D Stress Analysis	Mining Software Examine ^{3D} 4.0	8,00,000/- (Negotiable)
48.	Mine Field	Underground Wedge	Mining Software Unwedge	6,00,000/- (Negotiable)
49.	Mine Field	Support Estimation	Mining Software Rocsupport 3.0	2,00,000/- (Negotiable)
50.	Mine Field	Pillar Stability	Mining Software Cpillar 3.0	1,00,000/- (Negotiable)
51.	Mine Field	Slope Stability	Mining Software Slide 5.0 & Rocplane 2.0	8,00,000/- (Negotiable)
52.	Liquids, solutions etc.	Na, K and Ca concentration	Flame Photometer	1000/- for each element.
53.	Organic material, polymer, peat, wood, biomass, food etc	CHNSO content	Elemental analyzer	7000/- for CHNS, 5000/- for O per sample
54.	Organic compounds, polymer	Vibrational spectra	FTIR	1500/- per sample
55.	Sands	Separation of low level impurities	Electrostatic separator plate	2000/- for each sample (250 gm).
56.	Sands	Separation of light and heavy minerals	Shaking Table	1000/- for each sample (1 kg).
57.	Sands	Separation and volume % of individual mineral in sands	Isodynamic separator	5000/- for each sample (100 gm).
58.	Sands	Separation and volume % of individual mineral in sands	Complete Solution (Ilmentie, rutile, zircon, mangetite, garnet and quartz-feldspar)	10000/- for each sample (10 Kg).
59.	Rock	Cutting and coring	Rock cutting and coring machine	3000/- per sample
60.	Rock	Compressive strength	Rock automatic testing machine	5000/- per sample

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স্বায়ংস ল্যাবরেটরি রোড, খনজনপুর, জয়পুরহাট-৫৯০০

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