

TESTING SERVICES AND RATES OF CSIR-NEIST, JORHAT

Sl.No	Sample	Description of Job	Revised Total Charges (in ₹) (Excluding taxes)
1	Engineering Materials	Tensile Test (Ultimate Tensile Strength, Yield Strength and Elongation)	2200/sample
2		Bend Test	1200/sample
3		Hardness Test (conducted in 3 scales/types viz., Rockwell, Brinell & Vickers)	1200/type of test/sample
4		Unit weight	200/sample
<i>Sample preparation charge</i>			<i>1000/sample</i>
5	Water	Total count (bacterial)	500/sample
6		Bacteriological Analysis (Total count, Coliform & <i>E.coli</i>)	750/sample
7		Yeast & Mold count	750/sample
8		SRB Count	1000/sample
9		pH, Total Solids, Turbidity, Alkalinity, Hardness, Calcium, Magnesium, Sulphate, Chloride & Iron	1000/sample
10		pH, Total Solids, Turbidity, Alkalinity, Hardness, Calcium, Magnesium, Sulphate, Chloride, Iron, Sodium, Potassium, Manganese and Zinc	3000/sample ¹
11		Iron only	300/sample
12		Silt	500/sample
13		pH/Conductivity- each	250/sample
14		Other samples	Yeast & Mold Count
15	Total Count (bacterial)		3500/sample
16	Soil	Atterberg's Limit	350/sample ²
17		Natural moisture content	250/sample
18		Grain size analysis: sieve	650/sample ²
19		Grain size analysis: Hydrometer	2250/sample
20		Dry and Bulk Density	550/sample
21		Specific Gravity and Void Ratio	550/sample
22		Unconfined Compression Test	800/sample
23		Triaxial Test (Undrained unconsolidated)	2200/sample
24		Permeability Test (Laboratory)	2200/sample
25		Vane Shear Test	4800/sample
26		Consolidation Test	2700/sample
27		Free Swelling Index Test	600/sample
28		Field Protor Density and CBR values	5500/sample
29		Laboratory CBR Tests as specified soaked condition	4800/sample
30		Swelling Pressure Test	600/sample
31		Shrinkage Limit Test	600/sample
32	Clay and Gravel Content	900/sample	

33		pH/Conductivity- each	250/sample
34		Organic Matter	500/sample (<i>Processing charges extra</i>)
35		SRB Count	3500/sample
36		Total Count (bacterial)	3500/sample
37	Food	SRB Count	3500/sample
38		Salmonella, Streptococcus, <i>Vibrio cholerea</i> Count	750/test/sample
39	Tea	Moisture, ash, alkalinity of ash and ash insoluble in acid	2000/sample
40	Mustard oil	Mustard oil	1500/sample
41	Fertilizers	Sulphate of Ammonia for Nitrogen only	500/sample
42		Urea for Nitrogen only	500/sample
43		Super-Phosphate for P ₂ O ₅	500/sample
44		Muriate of Potash for K ₂ O	500/sample
45		Mixed Fertilizer for NPK	1500/sample
46		P ₂ O ₅ and K ₂ O	1000/sample
47		Zinc Sulphate	1000/sample
48		Organic Matter	500/sample
49		Each Additional Element	500/sample
50		Phosphate only	1000/sample
51	Natural products	Analysis of Natural products (Major active ingredients- each)	5000/sample
52	Soil from	Clay, Silt and Sand Content	600/sample
53	Brick Field	Atterberg's Limit	350/sample ²
54		Green Brick Mix composition (can be done only when Sl.Nos. 52 & 53 are also done)	350/sample ²
55		Drying Shrinkage	600/sample
56		Evaluation by Preparing Test Brick sample	10,000/sample
57	Fine & Coarse	Aggregate Impact Value (soft)	350/sample ²
58	Aggregate	Aggregate Impact Value (coarse)	600/sample
59		Aggregate Crushing Value	600/sample
60		Mech. Sieve Analysis (sand)	650/sample ²
61		Sieve Analysis (combined)	900/sample
62		Sieve Analysis (stone)	900/sample
63		Sieve Analysis (single size)	350/sample ²
64		Specific Gravity	350/sample
65		Unit Weight/Bulk Density of sand/stone	600/sample
66		Determination of Material Finer than 75 Micron for Aggregate	400/sample
67		Elongation Index	800/sample
68		Water Absorption Capacity	400/sample
69		Deleterious Material	8500/sample
70		Soundness Test	5000/sample ³
71		Alkali Aggregate Reactivity Test (Mortar Bar Method in 11 aging period in one year)	10000/sample
72		Alkali Aggregate Reactivity Test (Chemical Method)	4000/sample ²

73		Organic Impurities	250/sample
74		Bulk Density	600/sample
75		Particle Size Analysis by Andersson Pipette	1600/sample
76		Particle Size Analysis by Laser Diffraction Particle Size Analyzer	2500/sample
77		Mineralogical analysis for sand & detrital samples	6500/sample
78	Brick & Hollow Bricks	Compressive/Crushing Strength	420/specimen
79		Water Absorption Capacity	420/specimen
80		Visual Observation and Dimension	250/sample
81		Efflorescence	250/specimen
82	Cement & Concrete	Setting Time	600/sample
83		Compressive Strength 3, 7 and 28 days	2700/sample
84		Fineness by Specific Surface Area method	1300/sample
85		Soundness by Le-Chatellier Expansion	600/sample
86		Compressive Strength of Concrete cubes	500/test
87		Porosity	600/sample
88		Bulk Density	600/sample
89		Specific Gravity	600/sample
90		Chemical Analysis of Cement for the constituents- LOI, SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , CaO, MgO	1950/sample
91		Chemical Analysis of Cement for each Additional Components like IR, SO ₃ , Na ₂ O, K ₂ O, Chloride, etc.	650/sample ²
92	Concrete admixture	Lignosulphates, carboxylic acids, etc.	3000/sample
93	Clay, Ash, Minerals like Limestone, Dolomite, Rock, Metallic minerals, Refractory Materials and Iron Ore	Chemical Analysis for the constituents- LOI, SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , CaO, MgO	1950/sample
94		Each Additional Components like IR, SO ₃ , Na ₂ O, K ₂ O, Chloride, etc.	650/sample ²
95		Phosphate	1000/sample
96		Petrographic analysis of rock sample (Thin section under transmitted light)	8000/sample
97		Optical Microscopy under reflected light of ores and metallic minerals	8000/sample
98	Timber	Water Absorption	250/sample
99	Crude oil	API Gravity	1500/sample
100		Pour Point	1500/sample
101		Viscosity	1500/sample
102		Asphaltene Content	1500/sample
103		Asphaltene+Resin Content	3000/sample
104		Wax Content	1500/sample
105		Water Content	1500/sample
106		Distillation Characteristics	1500/sample
107		Petroleum Products	Total Acidity
108	Ash Content		1500/sample
109	Carbon Residue		1500/sample

110		Pour Point	1500/sample
111		Copper Strip Corrosion	1500/sample
112		Distillation Characteristics	1500/sample
113		Flash Point	1500/sample
114		Kinematic Viscosity	1500/sample
115		Density	1500/sample
116		Water Content	1500/sample
117		Water Content by Karl Fisher Titration	2500/sample
118		Interfacial Tension	2500/sample
119		Specific Resistance	1000/sample
120	Bitumen	Absolute Viscosity	1500/sample
121		Kinematic Viscosity	1500/sample
122		Flash Point	1500/sample
123		Solubility in Trichloroethylene	1500/sample
124		Penetration	1500/sample
125		Softening Point	1500/sample
126		Test on RTFOT- Viscosity Ratio	1500/sample
127		Test on RTFOT- Ductility after TFOT	1500/sample
128	Oil Field	Baryte	7100/sample ²
129		Sodium Formate	6350/sample
130		Bentonite Clay	5000/sample
131	Coal	Moisture (Oven drying)	300/sample
132		Moisture at 60% RH & 40°C	450/sample
133		Free Moisture	500/sample
134		Ash	550/sample
135		Full Proximate Analysis	1500/sample
136		Volatile Matter	650/sample
137		Gross Calorific Value	1250/sample
138		Carbon & Hydrogen	1500/sample
139		Total Sulphur	1400/sample
140		Nitrogen	750/sample
141		Caking Index	1500/sample
142		Swelling Index	800/sample
143		LTC (GK) Coke Type	650/sample
144		LTC (GK) Assay	1500/sample
145		Distribution of Sulphur	3000/sample
146		Handgrove Grindability Index	1200/sample
147		Ash analysis of coal/coke (major oxides)	2500/sample
148	Bulk handling of coal/coke (upto1000 kg) for Sub-sampling	500/sample	
149	Logging of boreholes coal core sample per metre or part	1000/sample	
150	Hardness and Total Dissolve Solid	450/sample	
151	Ash Fusion Temperature Range	1500/sample	
152	Sieve analysis (combined)	1500/sample	
153	Ignition Temp. Test by TGA method (Thermogravimetric Analysis Method)	2000/sample	

154		Carbonate as CO ₂ (estimated)	850/sample
155*		Particulate matter (PM _{2.5} , PM ₁₀ & SPM) in ambient air	5.00 to 10.00 lakhs (Sl.Nos.155 & 156 will be carried out as per CPCB norms, sampling periods 7-10 days, sampling interval 8-12 hrs.)
156*		Particulate matter (PM _{2.5} , PM ₁₀) in stack samples	
157*		Fuel Gas analysis (CO, CO ₂ , SO ₂ , H ₂ S, NO _x , C _x H _y , O ₂)	
158*		Selective Cation & Anion Analysis in Aerosols, Soil and Liquid samples (per ion)	
159*		Testing of coal (caking, non-caking, blends) in Non-recovery Pilot Coke Ovens (750 kg/batch)	10.00 lakhs
160*		Management of Acid Mine Drainage of NER coal in Pilot Scale	5.00 to 10.00 lakhs
<i>*Sl.Nos.155 to 160 will be done under Consultancy mode</i>			
161	Paper, Paper Board & Pulp Testing	Grammage	750/sample
162		Tensile Index	1000/sample
163		Bursting Index	1000/sample
164		Tear Index	1000/sample
165		Double fold	1000/sample
166		Brightness	1000/sample
167		Cobb sizing	750/sample
168		Moisture	750/sample
169		Wax pick	750/sample
170		Opacity	1000/sample
171		pH	650/sample
172		Ash content	1000/sample
173		Fibre length	750/sample
174		Thickness	750/sample
175		Mechanical pulp	1000/sample
176		Quality of paper	1000/sample
177	Wood, Board, Bamboo, Twines, Ropes sample, Particle Board & Ply Board etc.	Tensile strength	1500/sample
178		MOR/Flexural Strength	1500/sample
179		Density	750/sample
180		Moisture content	750/sample
181		Thickness of rope/twine	750/sample
182	Constituents of rope/twine	750/sample	
183	Solid samples & highly scattering samples	UV visible Spectrophotometer	1500/sample
184	Samples for Powder X-Ray Analysis	Diffractogram	1000/sample
185		XRD + Single Phase Identification	1500/sample
186		Additional Phase	500/sample/phase
187	Samples for Single Crystal X-Ray Diffractometry	Single Crystal X-Ray Diffractometry	i. Preliminary investigation charge: 130/- ii. 75/- per hour for first

			24 hrs. iii. 65/- per hour for remaining hrs. iv. Minimum: 2000/-per crystal v. Processing of raw intensity data: 30/- for every 100 reflection and part thereof vi. 3300/- per structure.
188	Samples for Surface Area Analysis	BET Surface Area	4000/sample
189		BET Surface Area and Complete Isotherm	5000/sample
190		Pore Size and Pore Volume Determination	6000/sample
191	Samples for Differential Analysis	Differential Scanning Calorimetry- Ambient temperature to 550°C	2000/sample
192		Thermal Analysis upto 1200°C (Thermogram only)	2000/sample
193		Thermal Analysis above 1200°C (Additional charges Rs.200.00 if the required atmosphere is other than air)	4200/sample
194		Thermogram with Interpretation	1700/sample
195		Kinetic Study	2000/sample
196	Samples for other Instrumental Analysis	CHN Analysis	1500/sample
197		LC-MS	3000/sample
198		MS only	1000/sample
199		GC (Basic Analysis)	1000/sample
200		GC-MS	3000/sample
201		AAS- each element	500 (element/sample) + Sample preparation: 500/- extra
202		HPLC	1500/sample
203		Single Zeta Value Measurement	2500/sample
204		Zeta Potential Vs P ^H /additive dose (determination of isoelectric point)	4000/sample
205		IR (FT-IR)	800/sample
206		UV-VIS Spectra	800/sample
207		NMR	550/sample for 60 MHz
208			1000/sample for 300 MHz
209			1500/sample for 500 MHz
210		Gel Permeation Chromatography- in tetrahydrofuran	2500/sample
211	Earthquake data	Earthquake report (seismic parameters) for North East region & adjoining region	3000.00 for single event
212		Earthquake report (seismic parameters) for North East region & adjoining region	60,000.00 for Annual Seismological bulletin
213	Weather data	Monthly Weather Bulletin	3500/bulletin

Notations:

1. Testing done by AAS (Atomic Absorption Spectro-photometry).
2. Charges have been rounded off to the nearest multiple of 50.
3. Charges fixed keeping in view the rates being charged by other Institutes for similar test.

Terms & Conditions:

1. Service Tax & Education Cess, etc. extra
2. Any test not mentioned here may also be taken up on request.
3. The tests are conducted as per prevailing standard.
4. The job is taken up subject to availability of chemicals, manpower and equipment in working condition.
5. The test results are not certified to be used for legal purposes.
6. The rates are subject to change from time to time.
7. *SI Nos.155 to 160 will be done under Consultancy mode.
8. The fees should be deposited in advance by Demand Draft drawn in favour of Director, North East Institute of Science & Technology, Jorhat payable at Jorhat.

Party may contact for any specific tests and analysis, not included in the list to -

The Director,

CSIR-North East Institute of Science & Technology

Jorhat-785006 (Assam)

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