

## TESTING SERVICES AND RATES OF CSIR-NEIST, JORHAT

### Sophisticated Analytical Equipments and charges

SI No	Sample	Description of Job	Cliental Type	Revised Total Charges (in ₹/ per sample (Excluding taxes))
1	Analysis in Sophisticate equipments	Normal XPS	Industry	9000
			Educational Institute/Research Institute	2700
			CSIR-NEIST	560
		Normal UPS	Industry	9000
			Educational Institute/Research Institute	2700
			CSIR-NEIST	560
		Normal AES	Industry	12000
			Educational Institute/Research Institute	3000
			CSIR-NEIST	800
		XPS Heating & Cooling	Industry	12000
			Educational Institute/Research Institute	3000
			CSIR-NEIST	800
		XPS Depth Profilling	Industry	15000
			Educational Institute/Research Institute	3750
			CSIR-NEIST	950
		XPS Mapping	Industry	15000
			Educational Institute/Research Institute	3750
			CSIR-NEIST	950
		XPS+Data Analysis [Peak fitting, Composition Analysis]	Industry	15000
			Educational Institute/Research Institute	3750
			CSIR-NEIST	800
XPS analysis of Steel, Alloy, Ore-Minerals, Coal Iron, etc	Industry	18000		
	Educational Institute/Research Institute	4500		
	CSIR-NEIST	1050		
2	HRTEM-Sample preparation	Industry	400	
		Educational Institute/Research Institute	100	
	HRTEM (Imaging)	Private Industry	10000	
		Educational Institute/Research Institute	2500	
	HRTEM-HAADF	Industry	800	
		Educational Institute/Research Institute	200	
	HRTEM-Bright Field	Industry	1000	
		Educational Institute/Research Institute	250	

		HRTEM-EDS	Industry	800
			Educational Institute/Research Institute	200
		HRTEM-EDS & Mapping	Industry	1000
			Educational Institute/Research Institute	250
		HRTEM-STM	Industry	1000
			Educational Institute/Research Institute	250
		HRTEM-AII	CSIR-NEIST	500
3		FESEM	Industry	5000
			Educational Institute/Research Institute	1250
4		EDX	Industry	1000
			Educational Institute/Research Institute	250
		FESEM & EDX	CSIR-NEIST	150
5		NMR-300/500 Mhz	Industry	1500/sample
			Educational Institute/Research Institute	1500/sample
			CSIR-NEIST	
6		AFM	Industry	10000
			Educational Institute/Research Institute	2500
			CSIR-NEIST	400
7		Fluorescence Spectrophotometer (1hour/5 samples)	Industry	1200
			Educational Institute/Research Institute	600
			CSIR-NEIST	100
		Fluorescence Spectrophotometer (Time resolve)	Industry	1250
			Educational Institute/Research Institute	750
			CSIR-NEIST	120
8		HRMS/LCMS	Industry	4000
			Educational Institute/Research Institute	1000
			CSIR-NEIST	100
9	Samples for Surface Area Analysis	BET Surface Area		4000/sample
10		BET Surface Area and Complete Isotherm		5000/sample
11		Pore Size and Pore Volume Determination		6000/sample
12	Samples for Differential Analysis	Differential Scanning Calorimetry- Ambient temperature to 550oC		2000/sample
13		Thermal Analysis upto 1200oC (Thermogram only)		2000/sample
14		Thermal Analysis above 1200oC (Additional charges Rs.200.00 if the required atmosphere is other than air)		4200/sample
15		Thermogram with Interpretation		1700/sample
16		Kinetic Study		2000/sample
17	Samples for Powder X-Ray Analysis	Diffractogram		1000/sample
18		XRD + Single Phase Identification		1500/sample
19		Additional Phase		500/sample/phase
20	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.
21	<b>Samples for other Instrumental Analysis</b>	Single Zeta Value Measurement	2500/sample
22		Zeta Potential Vs PH /additive dose (determination of isoelectric point)	4000/sample
23		CHN Analysis	1500/sample
24		LC-MS	3000/sample
25		MS only	1000/sample
26		GC (Basic Analysis)	1000/sample
27		GC-MS	3000/sample
28		AAS- each element	500 (element/sample) + Sample preparation: 500/- extra
29		HPLC	1500/sample
30		IR (FT-IR)	800/sample
31		UV-VIS Spectra	800/sample
32		UV visible [ <b>Solid samples &amp; highly scattering samples</b> ]	1500/sample
33		Gel Permeation Chromatography- in tetrahydrofuran	2500/sample

**Testing charges through other equipments and Sales Price of Products.**

Sl.No	Sample	Description of Job	Revised Total Charges (in ₹ (Excluding taxes))
1	<b>Engineering Materials</b>	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	<b>Effluent Water</b>	BOD Biological Oxygen Demand	2150/sample
6		COD Chemical Oxygen Demand	1500/sample
7		TOC Total Organic Carbon	2000/sample

8	Water	Total count (bacterial)	500/sample	
9		Bacteriological Analysis (Total count, Coliform & <i>E.coli</i> )	750/sample	
10		Yeast & Mold count	750/sample	
11		SRB Count	1000/sample	
12		pH, Total Solids, Turbidity, Alkalinity, Hardness, Calcium, Magnesium, Sulphate, Chloride & Iron	1000/sample	
13		pH, Total Solids, Turbidity, Alkalinity, Hardness, Calcium, Magnesium, Sulphate, Chloride, Iron, Sodium, Potassium, Manganese and Zinc	3000/sample <sup>1</sup>	
14		Iron only	300/sample	
15		Silt	500/sample	
16		pH/Conductivity- each	250/sample	
17		Other samples	Yeast & Mold Count	750/sample
18			Total Count (bacterial)	3500/sample
19		Soil	Atterberg's Limit	350/sample <sup>2</sup>
20			Natural moisture content	250/sample
21			Grain size analysis: sieve	650/sample <sup>2</sup>
22			Grain size analysis: Hydrometer	2250/sample
23			Dry and Bulk Density	550/sample
24	Specific Gravity and Void Ratio		550/sample	
25	Unconfined Compression Test		800/sample	
26	Triaxial Test (Undrained unconsolidated)		2200/sample	
27	Permeability Test (Laboratory)		2200/sample	
28	Vane Shear Test		4800/sample	
29	Consolidation Test		2700/sample	
30	Free Swelling Index Test		600/sample	
31	Field Proctor Density and CBR values		5500/sample	
32	Laboratory CBR Tests as specified soaked condition		4800/sample	
33	Swelling Pressure Test		600/sample	
34	Shrinkage Limit Test		600/sample	
35	Clay and Gravel Content		900/sample	
36	pH/Conductivity- each		250/sample	
37	Organic Matter		500/sample ( <i>Processing charges extra</i> )	
38	SRB Count		3500/sample	
39	Total Count (bacterial)		3500/sample	
40	Food	SRB Count	3500/sample	
41		Salmonella, Streptococcus, <i>Vibrio cholerae</i> Count	750/test/sample	
42		Estimation of Total Dietary Fibre in Food Samples	3000/test/sample	
43		Estimation of Total Anthocynin	2500/test/sample	
44		Estimation of Total Fe content in Food Samples	2500/test/sample	
45		Estimation of Total Fats content in Food Samples	1500/test/sample	
46		Estimation of Total Dietary Fibre in Food Samples	3000/test/sample	
47		Carbohydrate Content in Food Samples	1300/test/sample	
48		Protein Content in Food Samples	1200/test/sample	
49		Estimation of Total Zn content in Food Samples	2500/test/sample	
50		Estimation of Total Ca content in Food Samples	2500/test/sample	
51		Estimation of Total Mn content in Food Samples	2500/test/sample	
52		Estimation of Total Fe, Zn, Ca and Mn content in Food Samples	4000/test/sample	
53	Tea	Moisture, ash, alkalinity of ash and ash insoluble in acid	2000/sample	
54	Mustard oil	Mustard oil	1500/sample	
55	Fertilizers	Sulphate of Ammonia for Nitrogen only	500/sample	

56		Urea for Nitrogen only	500/sample
57		Super-Phosphate for P <sub>2</sub> O <sub>5</sub>	500/sample
58		Muriate of Potash for K <sub>2</sub> O	500/sample
59		Mixed Fertilizer for NPK	1500/sample
60		P <sub>2</sub> O <sub>5</sub> and K <sub>2</sub> O	1000/sample
61		Zinc Sulphate	1000/sample
62		Organic Matter	500/sample
63		Each Additional Element	500/sample
64		Phosphate only	1000/sample
65	<b>Natural products</b>	Analysis of Natural products (Major active ingredients- each)	5000/sample
66	<b>Soil from Brick Field</b>	Clay, Silt and Sand Content	600/sample
67		Atterberg's Limit	350/sample <sup>2</sup>
68		Green Brick Mix composition (can be done only when Sl.Nos. 52 & 53 are also done)	350/sample <sup>2</sup>
69		Drying Shrinkage	600/sample
70		Evaluation by Preparing Test Brick sample	10,000/sample
71	<b>Fine &amp; Coarse Aggregate</b>	Aggregate Impact Value (soft)	350/sample <sup>2</sup>
72		Aggregate Impact Value (coarse)	600/sample
73		Aggregate Crushing Value	600/sample
74		Mech. Sieve Analysis (sand)	650/sample <sup>2</sup>
75		Sieve Analysis (combined)	900/sample
76		Sieve Analysis (stone)	900/sample
77		Sieve Analysis (single size)	350/sample <sup>2</sup>
78		Specific Gravity	350/sample
79		Unit Weight/Bulk Density of sand/stone	600/sample
80		Determination of Material Finer than 75 Micron for Aggregate	400/sample
81		Elongation Index	800/sample
82		Water Absorption Capacity	400/sample
83		Deleterious Material	8500/sample
84		Soundness Test	5000/sample <sup>3</sup>
85		Alkali Aggregate Reactivity Test (Mortar Bar Method in 11 aging period in one year)	10000/sample
86		Alkali Aggregate Reactivity Test (Chemical Method)	4000/sample <sup>2</sup>
87		Organic Impurities	250/sample
88		Bulk Density	600/sample
89		Particle Size Analysis by Andersson Pipette	1600/sample
90		Particle Size Analysis by Laser Diffraction Particle Size Analyzer	2500/sample
91		Mineralogical analysis for sand & detrital samples	6500/sample
92	<b>Brick &amp; Hollow Bricks</b>	Compressive/Crushing Strength	420/specimen
93		Water Absorption Capacity	420/specimen
94		Visual Observation and Dimension	250/sample
95		Efflorescence	250/specimen
96	<b>Cement &amp; Concrete</b>	Setting Time	600/sample
97		Compressive Strength 3, 7 and 28 days	2700/sample
98		Fineness by Specific Surface Area method	1300/sample
99		Soundness by Le-Chatellier Expansion	600/sample
100		Compressive Strength of Concrete cubes	500/test
101		Porosity	600/sample
102		Bulk Density	600/sample
103		Specific Gravity	600/sample

104		Chemical Analysis of Cement for the constituents- LOI, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO	1950/sample
105		Chemical Analysis of Cement for each Additional Components like IR, SO <sub>3</sub> , Na <sub>2</sub> O, K <sub>2</sub> O, Chloride, etc.	650/sample <sup>2</sup>
106	Concrete admixture	Lignosulphates, carboxylic acids, etc.	3000/sample
107	Clay, Ash, Minerals like Limestone,	Chemical Analysis for the constituents- LOI, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO	1950/sample
108	Dolomite, Rock, Metallic minerals,	Each Additional Components like IR, SO <sub>3</sub> , Na <sub>2</sub> O, K <sub>2</sub> O, Chloride, etc.	650/sample <sup>2</sup>
109	Refractory	Phosphate	1000/sample
110	Materials and Iron Ore	Petrographic analysis of rock sample (Thin section under transmitted light)	8000/sample
111		Optical Microscopy under reflected light of ores and metallic minerals	8000/sample
112	Timber	Water Absorption	250/sample
113	Crude oil	API Gravity	1500/sample
114		Pour Point	1500/sample
115		Viscosity	1500/sample
116		Asphaltene Content	1500/sample
117		Asphaltene+Resin Content	3000/sample
118		Wax Content	1500/sample
119		Water Content	1500/sample
120		Distillation Characteristics	1500/sample
121	Petroleum Products	Total Acidity	1500/sample
122		Ash Content	1500/sample
123		Carbon Residue	1500/sample
124		Pour Point	1500/sample
125		Copper Strip Corrosion	1500/sample
126		Distillation Characteristics	1500/sample
127		Flash Point	1500/sample
128		Kinematic Viscosity	1500/sample
129		Density	1500/sample
130		Water Content	1500/sample
131		Water Content by Karl Fisher Titration	2500/sample
132		Interfacial Tension	2500/sample
133		Specific Resistance	1000/sample
134	Bitumen	Absolute Viscosity	1500/sample
135		Kinematic Viscosity	1500/sample
136		Flash Point	1500/sample
137		Solubility in Trichloroethylene	1500/sample
138		Penetration	1500/sample
139		Softening Point	1500/sample
140		Test on RTFOT- Viscosity Ratio	1500/sample
141		Test on RTFOT- Ductility after TFOT	1500/sample
142	Oil Field	Baryte	7100/sample <sup>2</sup>
143		Sodium Formate	6350/sample
144		Bentonite Clay	5000/sample
145	Coal	Moisture (Oven drying)	300/sample
146		Moisture at 60% RH & 40°C	450/sample
147		Free Moisture	500/sample
148		Ash	550/sample
149		Full Proximate Analysis	1500/sample

150		Volatile Matter	650/sample
151		Gross Calorific Value	1250/sample
152		Carbon & Hydrogen	1500/sample
153		Total Sulphur	1400/sample
154		Nitrogen	750/sample
155		Caking Index	1500/sample
156		Swelling Index	800/sample
157		LTC (GK) Coke Type	650/sample
158		LTC (GK) Assay	1500/sample
159		Distribution of Sulphur	3000/sample
160		Handgrove Grindability Index	1200/sample
161		Ash analysis of coal/coke (major oxides)	2500/sample
162		Bulk handling of coal/coke (upto1000 kg) for Sub-sampling	500/sample
163		Logging of boreholes coal core sample per metre or part	1000/sample
163 a		Hardness and Total Dissolve Solid	450/sample
164		Ash Fusion Temperature Range	1500/sample
165		Sieve analysis (combined)	1500/sample
166		Ignition Temp. Test by TGA method (Thermogravimetric Analysis Method)	2000/sample
167		Carbonate as CO <sub>2</sub> (estimated)	850/sample
168*		Particulate matter (PM <sub>2.5</sub> , PM <sub>10</sub> & SPM) in ambient air	5.00 to 10.00 lakhs (SI.Nos.155 & 156 will be carried out as per CPCB norms, sampling periods 7-10 days, sampling interval 8-12 hrs.)
169*		Particulate matter (PM <sub>2.5</sub> , PM <sub>10</sub> ) in stack samples	
170*		Fuel Gas analysis (CO, CO <sub>2</sub> , SO <sub>2</sub> , H <sub>2</sub> S, NO <sub>x</sub> , C <sub>x</sub> H <sub>y</sub> , O <sub>2</sub> )	
171*		Selective Cation & Anion Analysis in Aerosols, Soil and Liquid samples (per ion)	2500/sample
172*		Testing of coal (caking, non-caking, blends) in Non-recovery Pilot Coke Ovens (750 kg/batch)	10.00 lakhs
173*		Management of Acid Mine Drainage of NER coal in Pilot Scale	5.00 to 10.00 lakhs
*SI.Nos.168 to 173 will be done under Consultancy mode			
174	<b>Paper, Paper Board &amp; Pulp Testing</b>	Grammage	750/sample
175		Tensile Index	1000/sample
176		Bursting Index	1000/sample
177		Tear Index	1000/sample
178		Double fold	1000/sample
179		Brightness	1000/sample
180		Cobb sizing	750/sample
181		Moisture	750/sample
182		Wax pick	750/sample
183		Opacity	1000/sample
184		pH	650/sample
185		Ash content	1000/sample
186		Fibre length	750/sample
187		Thickness	750/sample
188		Mechanical pulp	1000/sample
189		Quality of paper	1000/sample
190	<b>Wood, Board, Bamboo, Twines, Ropes sample,</b>	Tensile strength	1500/sample
191		MOR/Flexural Strength	1500/sample
192		Density	750/sample

200	Particle Board & Ply Board etc.	Moisture content	750/sample
201		Thickness of rope/twine	750/sample
202		Constituents of rope/twine	750/sample
203	Earthquake data	Earthquake report (seismic parameters) for North East region & adjoining region	3000.00 for single event
204		Earthquake report (seismic parameters) for North East region & adjoining region	60,000.00 for Annual Seismological bulletin
205	Weather data	Monthly Weather Bulletin	3500/bulletin
206	Rain Fall Data	For Three Months	25000 / report
207	Rate of Sale of institute produce Citronella Oil		937.5 /Kg
208	Rate of Sale of institute produce Lemmon Grass Oil		937.5 /Kg

#### Terms & Conditions:

1. GST as per G.O.I rates applicable from time to time. 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 or through Cash deposit to institute Cashier
9. Clients / Party may also contact for any specific tests and analysis, not included in the list.

#### All communications should be addressed to:

Director, CSIR-NEIST, Jorhat 785006

#### and may be sent to :

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