



**Department of Civil and
Environmental Engineering (CEE)
Islamic University of Technology (IUT)
Organization of Islamic Cooperation (OIC)
Board Bazar, Gazipur-1704, Bangladesh.**



PABX: 8802 9291254-9, Fax: 8802 9291260, Website: www.iutoic-dhaka.edu

Proposed Rates for Testing of Materials and Consultancy Services
(Effective from January 2015)

Contact Person: Prof. Dr. Md. Tarek Uddin, PEng Phone: Ext. 3349 Mobile: 01714220390

Office Time: Monday to Friday 8:00 am to 4:30 pm

Sl. No.	Name of Tests	Test Rate (BDT)
Cement (ASTM/AASHTO)		
01	Compressive strength at 3, 7 & 28 days (600/= with Ottawa Sand)	4,800+600
02	Fineness	1,000
03	Setting time	1,500
04	Normal consistency	1,000
05	Density / Specific Gravity	2,000
06	Compressive strength (2, 7 & 28 days) (EN Standard)	12,000
Concrete		
01	Concrete cylinders (100x200mm), for a set of 3 nos.	1,250
02	Concrete cylinders (150x300mm), for a set of 3 nos.	2,000
03	Cubes (150mm), for a set of 3 nos.	2,000
	Cubes (100mm), for a set of 3 nos.	1,500
04	Concrete cylinders casting & testing, for a set of 6 nos.	10,000
05	Concrete mix design without admixture	30,000
06	Concrete mix design using admixture	40,000
07	In-situ cutting & testing without scanning (per core)	4,500
08	In-situ cutting & testing with scanning (per core)	9,000
09	In-situ hammer test	1,000
10	In-situ scanning test (per location for 2 scans)	8,000
11	In-lab supplied core testing (per core)	2,000
Aggregates		
01	Sieve analysis / Gradation/ FM/ Particle Size of CA	2,000
02	Sieve analysis of FA	1,000
03	Aggregate crushing value(ACV) / Compressive Strength	2,200
04	Aggregate Impact value (AIV)	2,000
05	Ten percent fine value (TFV)	4,400
06	Angularity number (Including sp. Gr.)	2,600
07	Elongation Index (EI) / Shape Test	2,100
08	Flakiness Index (FI)	2,600
09	L.A. Abrasion of CA	2,900
10	Unit weight of aggregate (CA)	1,700
11	Unit weight of aggregate (FA)	1,400
12	Absorption and Specific Gravity / Density (for Ballast)	2,600



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Sl. No.	Name of Tests	Test Rate (BDT)
Bricks (ASTM) Note: 5 nos. for crushing strength, absorption, size & shape, and unit weight tests; 10 additional bricks for efflorescence test		
01	Absorption capacity	1,000
02	Crushing strength (300/= with capping mat.)	2,000+300
03	Size & shape	1,900
04	Unit Weight	1,500
05	Unit Wt. & Absorption	2,500
06	Efflorescence	2,400
Hollow / Special Brick Blocks / Kerb (set of 3 nos.)		
07	Compressive strength of Hollow bricks, Paving / Concrete blocks etc	2,000
08	Compressive strength of Road Kerb Stone	2,200
09	Absorption	1,200
10	Unit weight	1,500
11	Comp. strength of Hollow bricks, Paving block incl. unit wt.	3,300
Steel (set of 3 nos.)		
01	Tension test of rebar including wt. & elongation (up to 25 mm)	1,500
02	Tension test of rebar including wt. & elongation (above 25 mm)	2,000
03	Bend test (up to 25mm)	700
04	Bend test (above 25mm)	800
05	Stress-strain curves (Modulus of Elasticity) of rebar	4,200
06	Stress-strain curves (Modulus of Elasticity) of strand	5,500
07	Deformation Measurement	1,250
08	Tension test of plate	1,500
09	Tension test of Strand / Cable	6,400
10	Hardness test (Rockwell)	1,100
11	Impact test	1,500
12	Spring test, for per specimen	2,000
Timber Test		
01	Timber , Compression test, for 1 sample	5,500
02	Timber, Flexure test, for 1 sample (LC 1000/=)	3,600
03	Moisture Content	2,400
Field visit fees: Inside Gazipur & Dhaka = BDT 10,000; Adjacent Gazipur = BDT 16,000; Greater Dhaka = BDT 21,000; Remote Districts = BDT 30,000; Remote areas = BDT 40,000. Transport, local hospitalities, accommodation (in case of overnight stay) etc. are to be provided by the client.		



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Sl. No.	Name of Tests	Test Rate (BDT)
Bitumen		
01	Specific gravity/Sp.Gr./Density	1,800
02	Penetration	1,800
03	Loss-on-Heating	1,800
04	Flash and Fire points	1,800
05	Ductility	1,800
06	Softening point (R&B)	1,800
07	Asphalt Concrete Mix Design (Marshall)	30,000
Pavement		
01	Marshall Stability and Flow Test	2,500
02	Job Mix Formula & Marshall Test	60,000

Index & Physical properties of Soil		
01	Sp. Gr.	1,500
02	Unit weight (wet & dry)	1,200
03	Void ratio (Sp. Gr. & Unit Wt.)	2,300
04	Moisture content	500
05	Shrinkage limit	1,000
06	Liquid limit and Plastic limit	2,400
07	Grain size analysis by wash sieving	1,800
08	Hydrometer, sieve analysis & sp. Gr.	3,800

Compaction and Density Tests of Soil		
01	Max. and Min. density of cohesionless soil	4,500
02	Standard Proctor Compaction test	4,500
03	Modified Proctor Compaction test	5,000
04	Field density test*	3,000

Characteristics of Soil		
01	Permeability of cohesionless soil (constant head)	7,500
02	Unconfined compression test	2,800
03	Lab. California Bearing Ratio (CBR) of soils	10,000

Direct Shear Tests of Soil		
01	Consolidated Drained test	6,000
02	Consolidated quick test	5,000
03	Unconsolidated quick test	4,000

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Sl. No.	Name of Tests	Test Rate (BDT)
Routine Drinking Water Parameters (Package)		
01	pH, Color (True or Apparent), Turbidity, Total Hardness, Chloride (Cl), Total Dissolved Solids (TDS), Manganese (Mn), Arsenic (As), Total Iron (Fe), Total Coliform (TC) / Thermotolerant Coliform (TTC), Fecal Coliform (FC) and <i>E.coli</i> .	6,000+2,000
Miscellaneous Water Quality Parameters (additional price for chemicals)		
01	pH	200+100
02	Color (True or Apparent)	100+100
03	Color Scanning at Specific Wavelength/UV-VIS Range	800+200
04	Turbidity	150+100
05	Carbon-di-Oxide (CO ₂) / Acidity	100+100
06	P-Alkalinity/ M-Alkalinity/T-Alkalinity	150+100
07	Carbonate (CO ₃) or Bi-carbonate (HCO ₃) + pH	300+100
08	Total Hardness	600+150
09	Ca – Hardness	1,900+600
10	Mg – Hardness	1,900+600
11	Chloride (Cl)	500+200
12	Fluoride (F)	400+100
13	Ammonia-Nitrogen (NH ₃ – N)	600+300
14	Nitrate – Nitrogen (NO ₃ – N)	350+200
15	Nitrite – Nitrogen (NO ₂ – N)	350+200
16	Total Nitrogen (TN)	3,900+1,200
17	Total Kjeldahl Nitrogen (TKN) / Organic Nitrogen	11,000+2,500
18	Chlorine Content – Total Cl ₂	350+200
19	Chlorine Content – Free Cl ₂	350+200
20	Iodine Content	300+200
21	Bromine Content	300+200
22	Break Point Chlorination	6,400+1,000
23	Total Solids (TS)	800+100
24	Total Suspended Solids (TSS)/Insoluble Solids/(TSS+TDS+TS)	1,400+300
25	Total Dissolved Solids (TDS)	750+100
26	Silica Content (SiO ₂)	600+300
27	Colloidal Silica	1,700+800
28	Electrical Conductivity (EC)	250+200
29	Total Phosphorous (TP)	2,700+400
30	Orthophosphate (PO ₄)	600+200
31	Hydrogen Sulphide (H ₂ S) / Odor	600+200
32	Sulphate (SO ₄)	400+150
33	Organic Matter (Only for solids/sludge)	1,800+300
34	Biochemical Oxygen Demand (BOD) – 5 day	1,300+300
35	Chemical Oxygen Demand (COD)	1,200+500



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Sl. No.	Name of Tests	Test Rate (BDT)
36	KmnO ₄ Value	1,200+500
37	Dissolved Oxygen (DO)	250+150
38	Boron (B)	1,500+1,200
39	Manganese (Mn): UV – VIS	1,100+350
40	Total Iron (Fe) – Phenanthroline Method	650+150
41	Ferrous Iron (Fe ²⁺)	900+300
42	Ferric Iron (Fe ³⁺)	1,500+500
43	Total Coliform (TC) / Thermotolerent Coliform (TTC)	700+300
44	Fecal Coliform (FC)	700+300
45	E. Coli	2,800+800
Environmental Quality of Soil, Sludge and Solids		
01	pH	2,000+100
02	Electrical Conductivity	550+200
03	Organic Matter (Dry Combustion Method)	1,800+300
04	Water Soluble Cl / PO ₄ / SO ₄ (each)	1,700+600
Sample Collection Charges (Usual field visit fees apply in addition to the price)		
01	Sampling for Bacteriological Analysis	6,500+
02	Sampling for Physical and Chemical Analysis	6,500+
Tubewell Design		
01	Tubewell Design (depth up to 600'), including 8 nos. sand test	11,500+9,000
02	Tubewell Design (depth above 600'), including 11 nos. sand test	11,500+12,000
	For complete design, fees would be BDT 13,000/=.	
	For inverted Tubewell design, extra fees = BDT 2,000/=.	
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Sl. No.	Various Consultancy Services
01	Land Survey (Planimetric/Topographic/Contour) by Total Station and GPS
02	Cost Estimation of Civil Structures
03	Quantity survey of Civil Structures
04	Asset Evaluation of Civil Structures/Industries/Properties
05	Design of Buildings, Bridges, Airports, Offshore Structures, Drainage Structures etc.
06	Design Review of Buildings, Bridges, Airports, Offshore Structures, Drainage Structures etc.
07	Structural Assessment of RCC/Pre Fabricated/Steel Frames Structures
08	Quality Assurance (QA) of Civil Structures / Buildings
09	Certification on Structural Stability of Civil Structures
10	Design Modification of various Concrete and Steel Structures
11	Investigation of Civil Engineering Projects
12	Assessment of Safety for Old Structures
13	Strengthening of Existing Structures
14	Environmental Site Assessment (e.g. for LPG plants, Power plants)
15	Environmental Impact Assessment (EIA) of Civil Engineering Projects
16	Environmental Monitoring of Civil Engineering Projects
17	Design of Solid Waste Disposal Systems
18	Design of Water and Wastewater Treatment Systems
19	Design of Iron Removal Plants
20	Plumbing and Sewer Systems Design
21	Solid, Hazardous and Industrial Waste Management and Pollution Control
22	Design of Water Supply System
23	Training on Water Quality, Water Supply and Sanitation
24	Design and Analysis of Shallow and Deep Foundations
25	Design and Analysis of Embankments
26	Design and Analysis of Earth Retaining Structures
27	Planning of Soil Investigation Programs
28	Planning and Design of Soil Improvement Schemes
29	Seismic Design of Foundation
30	Seismic Hazard Analysis
31	Microzonation Maps
32	Transportation Impact Assessment (TIA) of Civil Engineering Projects
33	Traffic Studies (Volume, O-D, Speed, Delay, Parking etc.)
34	Travel Demand Forecasting
35	Geometric and Structural Design of Pavements, Parking Lots etc.
36	Design of Road/Highways/Culverts
37	Road Accident Investigation/Safety Measure/Road Safety Auditing
38	Micro, Meso and Macroscopic Traffic Simulation
39	Training on Traffic Studies, Traffic Management, Transportation Planning, Traffic Safety

Notes: For consultancy service rates please refer to the contact person.