الجامعة الإسلامية للتكنولوجيا
UNIVERSITE ISLAMIQUE DE TECHNOLOGIE
ISLAMIC UNIVERSITY OF TECHNOLOGY
DHAKA, BANGLADESH
ORGANISATION OF ISLAMIC COOPERATION

Department of Civil and Environmental Engineering

Advisory, Consultancy, Extension, and Testing Services (ACETS) Rates for Testing of Materials and Consultancy Services (November, 2024)

Contact Person: Dr. Nazmus Sakib Mobile: +88-01307711094
Office Time: Monday to Friday 8:00 am to 4:30 pm

Sl. No.	Name of Tests	Test Rate (BDT)[1]
Cement (ASTM/AASHTO)		
1.1	Compressive strength at 3, 7 & 28 days (600/= with Ottowa Sand)	9,000+600
1.2	Fineness	3,000
1.3	Setting time	4,500
1.4	Normal consistency	3,000
1.5	Density / Specific Gravity	4,000
1.6	Compressive strength (2, 7 & 28 days) (EN Standard)	25,000
Concrete		
2.1	Concrete cylinders (100x200mm), for a set of 3 nos.	2,500
2.2	Concrete cylinders (150x300mm), for a set of 3 nos.	3,500
2.3	Cubes (150mm), for a set of 3 nos.	3,000
2.4	Cubes (100mm), for a set of 3 nos.	2,000
2.5	Concrete cylinders casting & testing, for a set of 6 nos.	30,000
2.6	Concrete mix design without admixture*	65,000
2.7	Concrete mix design using admixture*	70,000
2.8	In-situ cutting & testing without scanning (per core) *	6,000
2.9	In-situ cutting & testing with scanning (per core) *	12,000
2.10	In-situ hammer test*	7,000
2.11	In-situ scanning test (per location for 2 scans) *	10,000
2.12	In-lab supplied core testing (per core)	4,000
Aggregates		
3.1	Sieve analysis / Gradation/ FM/ Particle Size of CA	8,000
3.2	Sieve analysis of FA/Silt Content	3,500
3.3	Aggregate crushing value (ACV) / Compressive Strength	7,000
3.4	Aggregate Impact value (AIV)	5,500
3.5	Ten percent fine value (TFV)	10,000
3.6	Angularity number (Including sp. Gr.)	9,000
3.7	Elongation Index (EI) / Shape Test	8,000
3.8	Flakiness Index (FI)	8,000
3.9	L.A. Abrasion of CA	7,500
3.10	Unit weight of aggregate (CA)	4,000
3.11	Unit weight of aggregate (FA)	4,000
3.12	Absorption and Specific Gravity / Density (for Ballast)	6,000
3.13	Specific Gravity of Course aggregate	5,000
3.14	CBR for Base/Subbase*	50,000

[1]Department of Civil and Environmental Engineering (CEE), IUT reserves the right to change the rates at any time without any prior notice.
*-marked items indicate combined-type fee (testing and consultancy: 50% and 50%).

BOARD BAZAR, GAZIPUR-1704, BANGLADESH
Tel : 9291250, 9291252 PABX : 9291254-59 Fax : 880-2-9291260 e-mail : vc@iut-dhaka.edu website : www.iutoic-dhaka.edu

Bricks (ASTM) Note: 5 nos. for crushing strength, absorption, size & shape, unit weight tests; 10 additional bricks for efflorescence		
4.1	Absorption capacity	2,000
4.2	Crushing strength (300/= with capping mat.)	3,500+300
4.3	Size & shape	3,000
4.4	Unit Weight	5,500
4.5	Unit Wt. & Absorption	4,000
4.6	Efflorescence	4,000
Hollow / Special Brick Blocks / Kerb (set of 3 nos.)		
5.1	Compressive strength of Hollow bricks, Paving / Concrete blocks etc	4,000
5.2	Compressive strength of Road Kerb Stone	7,000
5.3	Absorption	2,500
5.4	Unit weight	4,000
5.5	Comp. strength of Hollow bricks, Paving block incl. unit wt.	5,000
Steel (set of 3 nos.)		
6.1	Tension test of rebar including wt. & elongation (up to 25 mm)	2,500
6.2	Tension test of rebar including wt. & elongation (above 25 mm)	3,500
6.3	Bend test (up to 25mm)	1,000
6.4	Bend test (above 25mm)	1,200
6.5	Stress-strain curves (Modulus of Elasticity) of rebar	9,000
6.6	Stress-strain curves (Modulus of Elasticity) of strand	12,000
6.7	Deformation Measurement	2,000
6.8	Tension test of plate	4,500
6.9	Tension test of Strand / Cable	10,000
6.10	Hardness test (Rockwell)	4,000
6.11	Impact test	4,000
6.12	Spring test, for per specimen	3,500
Timber Test		
7.1	Timber, Compression test, for 1 sample	8,000
7.2	Timber, Flexure test, for 1 sample (LC 1000/=)	18,000
7.3	Moisture Content	3,000
Bitumen and Pavement		
8.1	Specific gravity/Sp.Gr./Density	4,000
8.2	Penetration	4,000
8.3	Loss-on-Heating	5,500
8.4	Flash and Fire points	4,000
8.5	Ductility	4,500
8.6	Softening point (R&B)	4,000
8.7	Rolling thin film oven test	6,000
8.8	Bitumen Solubility	4,500
8.9	Xylene Equivalency Test	18,000
8.10	Spot Test	4,000
8.11	Viscosity (Dynamic/Rotational, 2 temperatures)	18,000
8.12	Viscosity (Kinematic/Saybolt Furol)	16,000
8.13	Wheel Tracking Test (JTG E20) (submitted as loose mix) *	48,000

[1]Department of Civil and Environmental Engineering (CEE), IUT reserves the right to change the rates at any time without any prior notice.
*-marked items indicate combined-type fee (testing and consultancy: 50% and 50%).

BOARD BAZAR, GAZIPUR-1704, BANGLADESH
Tel : 9291250, 9291252 PABX : 9291254-59 Fax : 880-2-9291260 e-mail : vc@iut-dhaka.edu website : www.iutoic-dhaka.edu

8.14	Asphalt Concrete Mix Design (Marshall)*	60,000
8.15	Marshall Stability and Flow Test	5,000
8.16	Indirect Tensile Strength Test	7,500
8.17	Water Sensitivity Test/Tensile Strength Ratio (in Prepared Samples) *	65,000
8.18	Job Mix Formula & Marshall Test*	75,000
8.19	Coatability Test (boiling)	7,000
8.20	PMB Storage Stability Test	10,000
8.21	PMB Elastic Recovery	8,000
8.22	PMB Torsional Recovery	6,500
8.23	Water In Bitumen Emulsion	8,000
8.24	Settling Tendency of Bitumen Emulsion	12,000
8.25	Storage Stability of Emulsion	5,700
8.26	Particle Charge test of Emulsion	5,700
8.27	Breaking Value for Emulsion	22,000
8.28	Sieve Test of Emulsion	12,500
8.29	Cement Mixing Test of Emulsion	16,500
8.30	Distillation Residue, % (w/o any test on residue) of Emulsion*	30,000
8.31	Tests on Distillation Residue of Emulsion	45,000 (reside prep.) + test fees
8.32	Identification of RS/MS/SS Emulsion*	24,000
Any tests on any residue will incur the same fee as the test done on fresh sample with additional fee for residue preparation (ageing).		
Index & Physical properties of Soil		
9.1	Specific Gravity	2,500
9.2	Unit weight (wet & dry)	2,000
9.3	Void ratio (Sp. Gr. & Unit Wt.)	3,000
9.4	Moisture content	800
9.5	Shrinkage limit	1,500
9.6	Liquid limit and Plastic limit	3,000
9.7	Grain size analysis by wash sieving	2,500
9.8	Hydrometer, sieve analysis & sp. Gr.	5,000
Compaction and Density Tests of Soil		
10.1	Max. and Min. density of cohesionless soil	6,000
10.2	Standard Proctor Compaction test	6,000
10.3	Modified Proctor Compaction test	7,000
10.4	Field density test*	4,000
Characteristics of Soil		
11.1	Permeability of cohesionless soil (constant head)	
11.2	Unconfined compression test	5,000
11.3	Lab. California Bearing Ratio (CBR) of soils	15,000
Shear Tests of Soil		
12.1	Consolidated Drained test	10,000
12.2	Consolidated quick test	6,000
12.3	Unconsolidated quick test	6,000

[1]Department of Civil and Environmental Engineering (CEE), IUT reserves the right to change the rates at any time without any prior notice.
*-marked items indicate combined-type fee (testing and consultancy: 50% and 50%).

BOARD BAZAR, GAZIPUR-1704, BANGLADESH
Tel : 9291250, 9291252 PABX : 9291254-59 Fax : 880-2-9291260 e-mail : vc@iut-dhaka.edu website : www.iutoic-dhaka.edu

12.4	Triaxial Shear Test: Consolidated Drained Compression Test*	40,000
12.5	Triaxial Shear Test: Consolidated Undrained Compression Test*	40,000
Routine Drinking Water Parameters (Package)		
13.1	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 *E.coli*.	8,000+2,000
Miscellaneous Water Quality Parameters (additional price for chemicals)		
14.1	pH	300+100
14.2	Color (True or Apparent)	200+200
14.3	Color Scanning at Specific Wavelength/UV-VIS Range	1100+400
14.4	Turbidity	250+150
14.5	Carbon-di-Oxide (CO_2) / Acidity	300+100
14.6	P-Alkalinity/ M-Alkalinity/T-Alkalinity	300+100
14.7	Carbonate (CO_3) or Bi-carbonate (HCO_3) + pH	400+100
14.8	Total Hardness	700+200
14.9	Ca – Hardness	2,000+700
14.10	Mg – Hardness	2,000+600
14.11	Chloride (Cl)	600+200
14.12	Fluoride (F)	450+150
14.13	Ammonia-Nitrogen (NH_3 – N)	650+350
14.14	Nitrate – Nitrogen (NO_3 – N)	450+250
14.15	Nitrite – Nitrogen (NO_2 – N)	450+250
14.16	Total Nitrogen (TN)	4,200+1,300
14.17	Total Kjeldahl Nitrogen (TKN) / Organic Nitrogen	12,000+3,000
14.18	Chlorine Content – Total Cl_2	450+250
14.19	Chlorine Content – Free Cl_2	450+250
14.20	Iodine/Bromine Content	400+300
14.21	Break Point Chlorination	7,400+1,100
14.22	Total Solids (TS)	850+150
14.23	Total Suspended Solids (TSS)/Insoluble Solids/(TSS+TDS+TS)	1,600+400
14.24	Total Dissolved Solids (TDS)	850+150
14.25	Silica Content (SiO_2)	650+350
14.26	Colloidal Silica	1,900+1100
14.27	Electrical Conductivity (EC)	350+250
14.28	Total Phosphorous (TP)	2,900+600
14.29	Orthophosphate (PO_4)	700+300
14.30	Hydrogen Sulphide (H_2S) / Odor	700+300
14.31	Sulphate (SO_4)	450+250
14.32	Organic Matter (Only for solids/sludge)	2,000+400
14.33	Biochemical Oxygen Demand (BOD) – 5 day	1,450+350
14.34	Chemical Oxygen Demand (COD)	1,300+500
14.35	$KmnO_4$ Value	1,300+500
14.36	Dissolved Oxygen (DO)	300+200
14.37	Boron (B)	1,550+1,250
14.38	Manganese (Mn): UV – VIS	1,200+400
14.39	Total Iron (Fe) – Phenanthroline Method	800+200

[1]Department of Civil and Environmental Engineering (CEE), IUT reserves the right to change the rates at any time without any prior notice.

*-marked items indicate combined-type fee (testing and consultancy: 50% and 50%).

BOARD BAZAR, GAZIPUR-1704, BANGLADESH
Tel : 9291250, 9291252 PABX : 9291254-59 Fax : 880-2-9291260 e-mail : vc@iut-dhaka.edu website : www.iutoic-dhaka.edu

14.40	Ferrous Iron (Fe^{2+})	1050+450
14.41	Ferric Iron (Fe^{3+})	1,600+600
14.42	Total Coliform (TC) / Thermotolerant Coliform (TTC)	800+400
14.43	Fecal Coliform (FC)	800+400
14.44	E. Coli	2,900+900
Environmental Quality of Soil, Sludge and Solids		
15.1	pH	2,250+250
15.2	Electrical Conductivity	750+250
15.3	Organic Matter (Dry Combustion Method)	2,000+800
15.4	Water Soluble Cl / PO_4 / SO_4 (each)	2,000+800
Sample Collection Charges (Usual field visit fees apply in addition to the price)		
16.1	Sampling for Bacteriological Analysis	9,000+*
16.2	Sampling for Physical and Chemical Analysis	9,000+*
Tubewell Design		
17.1	Tubewell Design (depth up to 600'), including 8 nos. sand test	13,000+12,000
17.2	Tubewell Design (depth above 600'), including 11 nos. sand test For complete design, fees would be BDT 13,500. For inverted Tubewell design, extra fees = BDT 2,000.	14,000+16,000

Sl. No.	Various Consultancy Services
C.1	Land Survey (Plannimetric/Topographic/Contour) by Total Station and GPS
C.2	Cost Estimation of Civil Structures
C.3	Quantity survey of Civil Structures
C.4	Asset Evaluation of Civil Structures/Industries/Properties
C.5	Design of Buildings, Bridges, Airports, Offshore Structures, Drainage Structures etc.
C.6	Design Review of Buildings, Bridges, Airports, Offshore Structures, Drainage Structures etc.
C.7	Structural Assessment of RCC/Pre-Fabricated/Steel Frames Structures
C.8	Quality Assurance (QA) of Civil Structures / Buildings
C.9	Certification on Structural Stability of Civil Structures
C.10	Design Modification of various Concrete and Steel Structures
C.11	Investigation of Civil Engineering Projects
C.12	Assessment of Safety for Old Structures
C.13	Strengthening of Existing Structures
C.14	Environmental Site Assessment (e.g. for LPG plants, Power plants)
C.15	Environmental Impact Assessment (EIA) of Civil Engineering Projects
C.16	Environmental Monitoring of Civil Engineering Projects
C.17	Design of Solid Waste Disposal Systems
C.18	Design of Water and Wastewater Treatment Systems
C.19	Design of Iron Removal Plants
C.20	Plumbing and Sewer Systems Design
C.21	Solid, Hazardous and Industrial Waste Management and Pollution Control
C.22	Design of Water Supply System
C.23	Training on Water Quality, Water Supply and Sanitation
C.24	Design and Analysis of Shallow and Deep Foundations
C.25	Design and Analysis of Embankments
C.26	Design and Analysis of Earth Retaining Structures

[1]Department of Civil and Environmental Engineering (CEE), IUT reserves the right to change the rates at any time without any prior notice.

*-marked items indicate combined-type fee (testing and consultancy: 50% and 50%).

BOARD BAZAR, GAZIPUR-1704, BANGLADESH
Tel : 9291250, 9291252 PABX : 9291254-59 Fax : 880-2-9291260 e-mail : vc@iut-dhaka.edu website : www.iutoic-dhaka.edu

C.27	Planning of Soil Investigation Programs
C.28	Planning and Design of Soil Improvement Schemes
C.29	Seismic Design of Foundation
C.30	Seismic Hazard Analysis
C.31	Microzonation Maps
C.32	Transportation Impact Assessment (TIA) of Civil Engineering Projects
C.33	Traffic Studies (Volume, O-D, Speed, Delay, Parking etc.)
C.34	Travel Demand Forecasting
C.35	Geometric and Structural Design of Pavements, Parking Lots etc.
C.36	Design of Road/Highways/Culverts
C.37	Road Accident Investigation/Safety Measure/Road Safety Auditing
C.38	Micro, Meso and Macroscopic Traffic Simulation
C.39	Training on Traffic Studies, Traffic Management, Transportation Planning, Traffic Safety

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

***Field visit fees:** Adjacent to IUT = BDT 15,000; Adjacent Gazipur and Dhaka = BDT 20,000; Greater Dhaka = BDT 30,000; Remote Districts = BDT 50,000 (per day); Remote areas = BDT 70,000 (per day). Approximate fees shown. Visit fees will be adjusted on case-basis. Transport, local hospitalities, accommodation (in case of overnight stay) etc. are to be provided by the client.

[1]Department of Civil and Environmental Engineering (CEE), IUT reserves the right to change the rates at any time without any prior notice.
*-marked items indicate combined-type fee (testing and consultancy: 50% and 50%).

BOARD BAZAR, GAZIPUR-1704, BANGLADESH
Tel : 9291250, 9291252 PABX : 9291254-59 Fax : 880-2-9291260 e-mail : vc@iut-dhaka.edu website : www.iutoic-dhaka.edu