



APPROVED RATES FOR TESTING OF MATERIALS AND SERVICES

Effective from 1st January 2017

Rates include 15% VAT

Department of Civil Engineering reserves the right to change the rates at any time without any prior notice

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CRTS Office Time : Saturday to Wednesday 8:00 am - 4:00 pm

Sl. No.	Name of Tests	Test Rate
AGGREGATES		
1.	Sieve analysis (CA)/Gradation/FM/Particle Size	3800
2.	Sieve analysis (FA)/FM	3800
3.	Wash sieve/Material Finer than #200 sieve/Silt Content	3800
4.	Aggregate Crushing Value (ACV)/Compressive Strength	6000
5.	Aggregate Impact Value (AIV)	5000
6.	Ten percent fine value (TFV)	10000
7.	Elongation Index (EI)/Shape Test	8000
8.	Flakiness Index (FI)	8000
9.	L.A. Abrasion of CA (1000/= for L.C., if needed)	7000
10.	L.A. Abrasion of Ballast (1000/= for L.C.)	7000
11.	Unit weight of aggregate (CA)	4000
12.	Unit weight of aggregate (FA)	4000
13.	Soundness with Na ₂ SO ₄ (4000/= for chem.)	15000+4000
14.	Soundness with Mg ₂ SO ₄ (6000/= for chem.)	15000+6000
15.	Clay lump & friable particles	5000
16.	Organic impurities/Salt content/Sulphate content/Salinity	3000
17.	Bulking of sand	5500
18.	Void Ratio/Porosity/Moh. Hardness (500/= for chem.)	6000
19.	Co-efficient of Sand (d10)	3500
20.	CBR of Base or Sub-base material (1500/= for L.C.)	55000
21.	Standard Proctor test of aggregate (MDD)	20000
22.	Modified Proctor or Vibrating Hammer	30000
BRICKS (Bricks needed for ASTM = 5 Nos., BS = 10 Nos.)		
1.	Absorption	2400/4600
2.	Crushing strength (ASTM/BS Standard; 300/400/= capping mat.)	4800/7900
3.	Size & shape (ASTM/BS Standard)	3100/3100
4.	Unit weight (ASTM/BS Standard); 200/300 for LC	4000/5000
5.	Unit Wt. & Absorption (ASTM/BS Stand); 200/300 for LC	5500/8500
6.	Efflorescence (needed 10 additional bricks)	4500
BITUMEN		
1.	Specific gravity/Density	4000
2.	Penetration/Grading	4000
3.	Flash & Fire points	4000
4.	Solubility (300/= for Chem.)	4000
5.	Ductility (300/= for Chem.)	4000
6.	Softening point (R&B) (300/= for Chem.)	4000
7.	Thin Film Oven	5000

Sl. No.	Name of Tests	Test Rate
8.	Float test	4000
9.	Foaming Test	4000
10.	Spot Test	4000
11.	Viscosity, saybolt Furol (S.F.)	7500
12.	Any test on residue from Loss-on-heating test	8000
13.	Any test on residue from Thin Film Oven test	13000
14.	Coating & Stripping test with/without Anti-Stripping Agent/Dose	6000
15.	Ashaplt Concrete Mix Design (Marshall)	60000
16.	Particle Charge Test of Bitumen Emulsion	4500
PAVEMENT		
1.	Bitumen content (4000/= for Chemical)	12000+4000
2.	Water Content	8000
3.	Theoretical Max. Sp. Gr.	6000
4.	Density	3000
5.	Marshall Stability and Flow Test	5500
6.	Job Mix Formula & Marshall Test	95000
Miscellaneous of aggregate		
1.	Initial Rate of Absorption/Suction for Brick	3000
2.	Alkali-Silica Reactivity for Stone/Sand	15000
CEMENT CONCRETE		
1.	Concrete cylinders (100×200mm), for a set of 3 nos.	2200
2.	Concrete cylinders (150×300mm), for a set of 3 nos.	3900
3.	Cubes (<200mm) for a set of 3 nos.	3400
4.	Cubes (200mm - 300mm), for a set of 3 Nos.	4000
5.	Cubes (>300mm), each core cutting & testing (300/= for fuel)	6800
6.	Concrete beam in flexure, for a set of 3 Nos.	8400
7.	Concrete slab in flexure, for a set of 3 Nos.	10000
Concrete Mix Designs		
1.	Concrete mix design without admixture	60000
2.	Concrete mix design using admixture	65000
3.	Con. cylinders casting & testing, for a set of 6 Nos.	30000
Destructive and NDT Tests		
1.	In-Situ per core cutting & testing (without scanning)	6200+200+**
2.	In-Situ per core cutting & testing (with scanning)	12000+400+**
3.	In-Situ Hammer Test - per spot/location (min 3 tests)	6000+**
4.	In-Situ Scanning test - per spot/location (for 2 tests)	11000+**
5.	In-lab Block/Kerb per core cutting & testing (300/-L.C.)	6700+300

Sl. No.	Name of Tests	Test Rate
6.	In-lab Supplied Core Testing (Per core) (300/- L.C)	2400+300
CALIBRATION		
1.	Pressure gauge/Dial Gauge	5400
2.	Hydraulic Jack with pressure gauge (Regular)	30000
3.	Hydraulic Jack with pressure gauge (Large) + 800 kg	50000
4.	Deflection dial	3700
5.	Proving ring (<100 kN)	5700
6.	Proving ring (100 kN to 500 kN)	6600
7.	Proving ring (>500 kN)	7900
8.	Dynamometer	10000
9.	Compression/Tension Testing Machine (with one dial)	13000
10.	Calibration of Concrete Mix Batching Plant	300000
Balance and Weight		
1.	Electronic Balance up to 20kg/Platform Scale/Balance	9700
2.	CA measuring potable fara/Measuring cub	5000
3.	Schmidt Hammer, (Rebound)	12700
4.	Weight <2kg/Load Cell	9700
5.	Balance up to 300 kg	14400
6.	Balance above 300 kg to 1000 kg	18700
7.	Balance above 1000 kg	28800
Cement Testing Apparatus		
1.	Mixture Machine (Mortar cube & setting)	9700
2.	Blaine Apparatus/Vibration Machine/Joilting Table	9700
3.	Vicat Apparatus	7600
4.	Cement Autoclave Machine	9700
5.	Cylinder Mould Calibration	2900
Survey Equipment		
1.	Theodolite	15700
2.	Level	12100
3.	Total Station	43100
Miscellaneous Equipment/Devices		
4.	Verneer Scale/Micro meter	2200
5.	Steel Scale	2200
6.	Thermometer	3400
7.	Sieve	3700
8.	Tachometer	15700
Outside Laboratory/In-situ Calibration		
1.	Compression/Tension Testing Machine (with one dial)	13100+**
Cement (ASTM/AASHTO)		
1.	Comp. strength, 3, 7 & 28 days (700/= Ottawa Sand)	8500+700
2.	Setting time	4000
3.	Fineness	3000
4.	Setting time (only)	4500
5.	Normal Consistency (only)	2500
6.	Density/Sp. Gr.	4000
7.	Weight of Cement Bag	600
CEMENT (EN Standard)		
1.	Comp. strength 2 & 28 days (500/= EN Sand)	25000+500
2.	Comp. strength 2, 7 & 28 days (500/= EN Sand)	33000+500
ROD (set of 3 ns.)		
1.	Tension test incl. wt. & elongation (upto 25mm)	2400
2.	Tension test incl. wt. & elongation (above 25 mm & upto 32 mm)	3500
3.	Bend test (upto 25mm) for a set of 3 Nos.	1000
4.	Bend test (above 25mm) for a set of 3 Nos.	1100
5.	Rebend test (upto 25mm) for a set of 3 Nos.	1500
6.	Rebend test (above 25mm) for a set of 3 Nos.	1650

Sl. No.	Name of Tests	Test Rate
7.	Stress-strain curves (Mod. of Elasticity); Strand 7200	8700
8.	Deformation Measurement	3300
9.	Bolt, Tension test upto 30mm for a set of 3 Nos.	3200
10.	Bolt, Tension test above 30mm (LC 1000/=) for a set of 3 Nos.	4500+800
11.	Bolt, Shear test upto 20mm for a set of 3 Nos.	2200
12.	Bolt, Shear test upto 20mm (L.C. 800/=)	2300+800
13.	Bolt, Shear test above 25mm (LC 2000/=) for a set of 3 Nos.	3100+2000
14.	Angle/Plate, Tension test upto 16mm (LC 1500/=)	3100+1500
15.	Angle/Plate, Tension test upto 30 mm (LC 2000/=)	3600+2000
16.	Angle/Plate, Tension test upto 30 mm (LC 2500/=)	3600+2500
17.	Hooks/Anchore Bolt, Tension Test; for a set of 3 Nos. (L.C. 900/=)	4000+1000
18.	H.T. Wire, Tension test; for a set of 3 Nos.	7500
19.	Strand/Cable, Tension test, for a set of 3 Nos.	14000
20.	Impact test, for a set of 3 Nos. (LC 1000/=)	2500+1000
21.	Spring test, for per specimen	3300
22.	Bond/Weld Test of Rop lapping test for a set of 3 Nos.	5000
TIMBER TEST		
1.	Timber, Compression test, for 1 sample (LC 1000/=)	7800+1000
2.	Timber, Flexure test, for 1 sample (LC 1500/=)	18000+1500
3.	Moister Content for a set of 3 Nos.	1900+1000
4.	Hardness for 1 Sample (L.C 1000/=)	
TILES (set of 5 Nos.)		
1.	Size & shape/Warpe	2200
2.	Absorption (with flexural needs additional 5 Nos.)	3100
3.	Flexural/Modulus of Rupture	2900
SOIL BORING (Including relevant tests & report		
	Soil Boring per bore (L.C. 6000/-) Within Dhaka City - depth upto 60'-0"	20000+6000+**
	Within Dhaka City - depth upto 100'-0"	Consultation with teacher is required
	Outside Dhaka City - depth upto 60'-0"	
	Outside Dhaka City - depth upto 100'-0"	
(Notes: Minimum 3 borings for a particular site; Guidelines: upto 3 katha - 3 no; 3-5 katha - 5 nos; 6-10 katha - 8 nos)		
Index & Physical Properties (for a set of 3 Nos. sample)		
1.	Specific Gravity	1900
2.	Unit weight (wet & dry)	1800
3.	Void ratio (Specific Gravity. & Unit Weight)	3000
4.	Moisture content	900
5.	Linear Shrinkage	1800
6.	Skrinkage limit	1500
7.	Liquid limit and Plastic limit	3000
8.	Grain size analysis by wash sieving	2400
9.	Hydrometer, sieve analysis & sp. gr.	4600
10.	Organic matter content	2700
Compaction and density tests		
1.	Max. and in. density of cohesionless soil	7500
2.	Standard Proctor Compaction test	9500
3.	Modified Proctor Compaction test	12000
Permeability and seepage characteristics		
1.	Permeability of cohesionless soil by 1 dimensional consolidation	18000
2.	Permeability of cohesionless soil (falling head)	8000
3.	Permeability of cohesionless soil (constant head)	14000

Note: [* Field visit fees; inside Gazipur & Dhaka = Tk. 15,000; Greater Dhaka = Tk. 20,000; Adjacent Dhaka= Tk. 25,000; Remote Districts = Tk 40,000; Remote areas = Tk., 50,000] [** Field visit fee + Tk. 2000 if Core Cutter/Scanner/Load Cell etc. are needed.] [* & ** 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
Consolidation and swelling characteristics		
1.	One dimensional consolidation (e-log p, Cc, Cr, Cv)	10000 only eLogP 6000)
2.	Swelling Index/Swelling Pressure	11000
3.	Swelling Potential	8000
Strength and deformation characteristics		
1.	Unconfined compression test	6000
2.	Lab. California Bearing Ratio (CBR) of soils	20000
Direct shear tests		
1.	Consolidated Drained test for sand	10000
2.	Consolidated Drained Test for clay	10000
Geotechnical Tests (Field)		
1.	Field density (3 spots (min ^m)+2 Proctor/max-min density+2 sieve/Hydrometer)	54000+**
	Additional field density per spot (if further test is required consult with respective teacher)	7000
WATER TESTS		
Routine Drinking Water Parameters		
1.	pH	8500+2500=11000 (Drinking+As+TC/FC) 6500+2000=8500 (Drinking+As)
2.	Color (True or Apparent)	
3.	Turbidity	
4.	Total hardness	
5.	Chloride (Cl)	
6.	Total Dissolved Solids (TDS)	
7.	Manganese (Mn)	
8.	Arsenic (As)	
9.	Total Iron (Fe) - Phenanthroline Method	
10.	Total Coliform (TC)/Thermotolerant Coliform (TTC)	
11.	Fecal Coliform (FC)	
Environmental Quality of Soil, Sludge and Solids		
1.	pH	400+200
2.	Electrical Conductivity	700+300
3.	Organic Matter (Dry Combustion Method)	2500+500
4.	Water Soluble Cl/PO ₄ /SO ₄ (each)	2100+600
Metal Analysis Following T. Extraction and / or TCLP:		
5.	Total Extraction Charges (each sample)	1500+500
6.	Toxic Characteristics Leaching Procedure (TCLP)	3500+2500
7.	Cd/Cr/Ni/Pb/Zn - using FLAAS (each)	1600+600
	Aluminum (Al) - using GFAAS	3300+500
	Arsenic (As) - using GFAAS	1600+600
8.	Mixed Liquor Suspended Solids (MLSS)	3400+600
9.	Mixed Liquor Volatile Solids (MLVSS)	3400+600
Air Quality Monitoring ++		
Parameters (upon discussion)		
1.	CO	8500
2.	SO _x	
3.	NO _x	
4.	H ₂ S	
5.	SPM	12000+1500
6.	PM ₁₀	12000+1500
7.	PM _{2.5}	12500+2500
8.	Engine Exhaust Monitoring (CO, NO _x , HC, CO ₂ , O ₂) - Min. **	
9.	Total Dust in Air (Method As/NZS 3580.10.1:2003) (each)	3200+800
Noise Monitoring		
1.	Minimum Fee *	15000
Sample Collection Charges +++		
1.	Sampling for Bacteriological Analysis **	6500+**
2.	Sampling for Physical and Chemical Analysis **	6500+**

Sl. No.	Name of Tests	Test Rate
Tubewell Design		
1.	Tubewell Design (depth up to 600'), incl. 8 Nos. sand test ^^	17000+16000
2.	Tubewell Design (depth up to 600'), incl.11 Nos. sand test ^^	18000+22000
+	Plus Total Extraction Charge	13000+500
++	Additional fee includes: Sampling Charge for Air Quality Monitoring (without PM 2.5) Sampling Charge for Air Quality Monitoring (with PM 2.5)	12600 18800
Miscellaneous Water Quality Parameters		
1.	pH	200+200
2.	Color (True or Apparent)	300+200
3.	Color Scanning at Specific Wavelength/UV-VISRange	1000+200
4.	Turbidity	250+150
5.	Carbon-di-Oxide (CO ₂)/Acidity	150+150
6.	P-Alkalinity/M-Alkalinity/T-Alkalinity	300+200
7.	Carbonate (CO ₃) or Bi-carbonate (HCO ₃) + pH	500+200
8.	Total Hardness	700+300
9.	Ca - Hardness	2000+800
10.	Mg - Hardness	2000+800
11.	Chloride (Cl)	550+250
12.	Fluoride (F)	500+100
13.	Ammonia - Nitrogen (NH ₃ - N)	700+400
14.	Nitrite - Nitrogen (NO ₃ - N)	450+250
15.	Nitrite - Nitrogen (NO ₂ - N)	450+250
16.	Total Nitrogen (TN)	4500+1500
17.	Total Kjeldahi Nitrogen (TKN)/Organic Nitrogen	12000+3000
18.	Chlorine Content - Total Cl ₂	450+250
19.	Chlorine Content - Free Cl ₂	450+250
20.	Iodine Content	500+200
21.	Bromine Content	500+200
22.	Break Point Chlorination	7300+1200
23.	Total Solids (TS)	900+100
24.	Total Suspended Solids (TSS)/Insoluble Solids/(TSS+TDS+TS)	1500+500
25.	Total Dissolved Solids (TDS)	850+150
26.	Silica Content (SiO ₂)	700+400
27.	Colloidal Silica	1700+1000
28.	Electrical Conductivity (EC)	250+350
29.	Total Phosphorous (TP)	2800+700
30.	Orthophosphate (PO ₄)	700+200
31.	Hydrogen Sulphide (H ₂ S)/Odor	600+200
32.	Sulphate (SO ₄)	500+200
33.	Organic Matter ***	1800+300
34.	Biochemical oxygen Demand (BOD) - 5 day	1600+400
35.	Chemical Oxygen Demand (COD)	1400+600
36.	KMnO ₄ Value	1600+400
37.	Dissolved Oxygen (DO)	200+400
38.	Boron (B)	1600+1200
39.	Manganese (Mn): UV - VIS	1200+500
40.	Arsenic (As) - using GFAAS	1100+600
41.	Co/Cr/Cu/Ni/Pb/Zn - using FLAAS (each)	1200+500
42.	Total Iron (Fe) - Phenanthroline Method	650+150
43.	Ferrous Iron (Fe ²⁺)	2000+500
44.	Ferric Iron (Fe ³⁺)	2000+500
45.	Total Coliform (TC)/Thermotolerant Coliform (TTC)	800+500
46.	Fecal Coliform (FC)	800+500
47.	E. Coli	2500+1500
48.	Magnesium Density	2800+1000
49.	Algae/Chlorophyll_a	9500+1500
+++	Sampling charge may vary depending on the area to be sampled	

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Sl. No.	Name of Tests	Test Rate
*	Cost depends on the client's requirements	
**	Usual field visit fees apply in addition to above	
***	Only for Solids/Sludge	
Consultancy on Pile Load Capacity		
1.	Test Supervision & Report (per Pile)	80000+**
1.	Per Pile (see conditions a,b,c) a) Minimum fees for integrity tests in each visit (within Dhaka City Tk. 50000/=**, outside Dhaka City Tk. 75000**) b) Integrity tests be done on all piles for a structure c) Pile load test be done on at least 1% of piles selected on the basis of integrity results.	2100+**
Non-Asbestos Fibre-Cement Board		
1.	Modulus of Rupture (6"×12")	
	2 Nos. Parallel to Fibre Lay from Same Sheet	5800+800
	2 Nos. Parpendingular to Fibre Lay from Same Steet	
2.	Modulus of Elasticity (6"×12")	
	2 Nos. Parallel to Fibre Lay from Same Sheet	11300+800
	2 Nos. Parpendingular to Fibre Lay from Same Steet	
3.	Density (from MOR Test)	2100
4.	Size & Shape (5 Nos.)	2800
5.	Water Absorption (4" × 4"; 3 Nos. from Per Sheet)	2300+600
6.	Moisture Content (from MOR Test)	2800
7.	Water Tightness (24" × 20"; 3 Nos. One from each Sheet)	8500+600
8.	pH Value (from MOR Test)	1100
9.	Heat & Rain Wall Structures (5"×4"; 2 Nos. One from each Sheet)	27600
Various Consultancy Services		
1.	Land Survey (Plannimetric/Topographic/Contour) by Total Station and GPS	
2.	Cost Estimation of Civil Structures	
3.	Asset Evaluation of Civil Structures/Industries/Properties	
1.	Design of Building, Bridges, Airport, Offshore Structures, Drainage Structures etc.	
2.	Structural Evaluation of Old Civil Structures without Drawings/Records	
3.	Quality Assurance (QA) of Civil Structures without Drawings/Records	
4.	Certification on Structural Stability of Civil Structures	
5.	Design Checking of various Concrete and Steel Structures	
6.	Investigation of Civil Engineering Projects	
7.	Assessment of Safety for old Structures	
8.	Strengthening of Existing Structures	
1.	Environmental Site Assessment (e.g. for LPG plants, Power plants)	
2.	Environmental Impact Assessment (EIA) of Civil Engineering Projects	
3.	Environmental Monitoring of Civil Engineering Projects	
4.	Design of Solid Waste Disposal Systems	
5.	Design of Water and Wastewater Treatment Systems	
6.	Design of Iron Removal Plants	
7.	Plumbing and Sewer Systems Design	

Sl. No.	Name of Tests	Test Rate
8.	Solid, Hazardous and Industrial Waste Management and Pollution Control	
9.	Design of Water Supply System	
10.	Training on Water Quality, Water Supply and Sanitation	
1.	Design and Analysis of Shallow and Deep Foundations	
2.	Design and Analysis of Embankments	
3.	Design and Analysis of Earth Retaining Structures	
4.	Planning of Soil Investigation Programs	
5.	Planning and Design of Soil Improvement Schemes	
6.	Seismic Design of Foundation	
7.	Seismic Hazard Analysis	
8.	Micro zonation Maps	
1.	Transpiration Impact Assessment (TIA) of Civil Engineering Projects	
2.	Traffic Studies (Volume, O-D, Speed, Delay, Parking etc)	
3.	Traffic Forecasting	
4.	Geometric and Structural Design of Pavements, Parking Lots etc.	
5.	Planning and Design of Inland Container Terminal/Depot (ICT/ICD)	
6.	Planning and Design of Airport Terminal	
7.	Design of Runway Pavement	
8.	Design of Road/Highways/Bridge/Culverts	
9.	Planning and Design of Flyover/Underpass/Interchange	
10.	Road Accident Investigation/Safety Measure/Road Safety Auditing	
11.	Development of Transportation Model	
12.	Training on Traffic Studies, Traffic Management, Transportation Planning, Traffic Safety.	



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