

CENTER FOR RESEARCH, TRAINING, TESTING AND CONSULTATION (CRTTC)

DEPARTMENT OF CIVIL ENGINEERING
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Rates for Testing of Engineering Materials (updated January, 2019)

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

SN	Name of the Test	Test Rate (Tk.)
AGGREGATES		
1	Absorption Capacity and Specific Gravity	1,200.00
2	Angularity Number	1,500.00
3	Bulking of Sand	2,000.00
4	Elongation Index	1,200.00
5	Flakiness Index	1,200.00
6	Aggregate Impact Value (AIV)	1800.00
7	Aggregate Crushing Value (ACV)	2,000.00
8	10% Fine Value	2,000.00
9	Los Angeles Impact and Abrasion (Small Sized Aggregates, ASTM C131)	2,500.00
10	Los Angeles Impact and Abrasion (Large Sized Aggregates, ASTM C535)	2,500.00
11	Sieve Analysis (Small Sizes Coarse Aggregates)	1,200.00
12	Sieve Analysis (Large Sized Coarse Aggregates)	1,200.00
13	Sieve Analysis (Fine Aggregate)	1,000.00
14	Unit Weight of Aggregate	1,000.00
15	Potential Alkali Silica Reactivity of Aggregates (Mortar-Bar Method)	13,500.00
BRICKS (Set of 5 bricks needed)		
1	Absorption capacity	1500.00
2	Specific Gravity	1500.00
3	Compressive Strength	1,800.00
4	Efflorescence (Additional 10 bricks needed)	3,200.00
5	Size and Shape	1000.00
6	Unit Weight	1,500.00
HOLLOW BRICKS/BLOCKS (Set of 5 bricks needed)		
1	Absorption capacity	2500.00
2	Specific Gravity	1500.00
3	Compressive Strength	2500.00
4	Efflorescence (Additional 10 bricks needed)	2500.00
5	Unit Weight	2800.00
6	Weight per Unit Area	2000.00
7	Modulus of Rupture (Flexure Test)	3000.00
8	Saturation Coefficient	3000.00
9	Initial Rate of Absorption (Suction)	2500.00
10	Measurement of Size	1500.00
11	Measurement of Warpage	2000.00

12	Measurement of Length Change	2500.00
13	Measurement of Void Area in Deep Frogged Units	2000.00
14	Measurement of Void Area in Cored Unit	2000.00
BITUMEN		
1	Specific Gravity	1,200.00
2	Standard Penetration	1,200.00
3	Softening Point (R&B)	1,200.00
4	Solubility	1,200.00
CEMENT		
1	Compressive Strength (3,7,14, and 28 days)	4,800.00
2	Fineness (ASTM 786)	2200.00
3	Setting Time	1,500.00
3	Normal Consistency	1,000.00
CONCRETE		
1	Compressive Strength: Concrete Cylinder (100x200 mm) for a set of 3 nos.	1,000.00
2	Compressive Strength: Concrete Cylinders (150x300 mm) for a set of 3 nos.	1,500.00
3	Stress-Strain Curve of Concrete	4,500.00
	Deformation Measurement	2,000.00
4	Concrete Cylinders (casting and testing)	5,000.00
5	Design of Concrete Mixes	30,000.00
6	Design of Concrete Mixes (with admixture)	35,000.00
7	Compressive Strength: Cubes (<200 mm), for a set of 3 nos.	1,200.00
8	Compressive Strength: Cubes (200 to 300 mm), for a set of 3 nos.	1,500.00
9	Compressive Strength: Grout Cubes (<200 mm), for a set of 3 nos	1,250.00
10	Field Visit, Field Tests, and Identification of Causes of Cracking	Negotiable
11	Design of Repair Methodology	Negotiable
12	Carbonation of Concrete, per spot	2,500.00
13	Concrete Strength of Structural Members (hammer test), per member	2,500.00
14	In-Situ per core cutting & testing at lab (Per core)	7,000.00
15	In-Lab Supplied Core Testing (Per core)	1,500.00
STEEL		
1	Tensile Strength& Elongation (deformed bar up to 25 mm), for a set of 3 nos.	1,800.00
2	Tensile Strength& Elongation (plain bar up to 25 mm), for a set of 3 nos.	1,800.00
3	Tensile Strength & Elongation (deformed bar more than 25 mm), for a set of 3 nos.	2,000.00
4	Tensile Strength & Elongation (plain bar more than 25 mm), for a set of 3 nos.	2,000.00
5	Tensile Strength (all sizes) of Welded rebars, for a set of 3 nos.	2,000.00
6	Impact, for a set of 3 nos.	1,500.00
7	Stress-Strain Curve, Modulus of Elasticity, for a set of 3 nos.	4,000.00
8	Spring Test, per specimen	1,500.00
9	Tension test of Angle / Plate; for a set of 3 nos	2,000.00
SOIL		
<i>S/n</i>	<i>Test Name</i>	<i>Price</i>
1	Liquid Limit, Plastic Limit	2,000.00
2	Compaction: Standard Proctor	3,700.00
3	Compaction: Modified Proctor	4,300.00
4	Moisture Content	1000.00
5	Grain Size Analysis (Sieve Analysis)	1,700.00

6	Unconfined Compression Test	2,500.00
7	Maximum and Minimum Density of Cohesionless Soil	4,000.00
8	Hydrometer, wash sieving and specific gravity	3,000.00
TIMBER		
1	Moisture Content	1000.00
2	Compressive Strength	1,400.00
3	Unit Weight	1000.00
Water Quality		
1	pH	300.00
2	Color	100.00
3	Turbidity	100.00
4	Alkalinity	400.00
5	Hardness	400.00
6	Carbon-di-Oxide (CO ₂)	300.00
7	Ammonia-Nitrogen (NH ₃ - N)	800.00
8	Nitrate - Nitrogen (NO ₃ - N)	650.00
9	Nitrite - Nitrogen (NO ₂ - N)	650.00
10	Total Solids (TS)	100.00
11	Total Suspended Solids (TSS)	100.00
12	Total Dissolved Solids (TDS)	100.00
13	Electrical Conductivity (EC)	300.00
14	Orthophosphate (PO ₄)	500.00
15	Sulphate (SO ₄)	500.00
16	Chloride (Cl)	400.00
17	Salinity	100.00
18	Biochemical Oxygen Demand (BOD) - 5 day	1000.00
19	Chemical Oxygen Demand (COD)	1000.00
20	Dissolved Oxygen (DO)	300.00
21	Free Chlorine	500.00
22	Fecal Coliform	500.00
Outside/in-situ Calibration		
1	Compression/Tension testing machine (with one dial)	6000.00

+ Field visit inside Dhaka Tk 10,000.
+ Field visit outside Dhaka Tk 15,000.
Transportation is to be arranged by the client.
VAT (15%) is to be added with the prices.

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