



**APPROVED RATES FOR TESTING OF MATERIALS AND SERVICES**

Effective from July 2012 (19.07.12)

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** : Sunday to Thursday 8:00 am - 4:00 pm

Sl. No.	Name of Test	Test Rate (Tk)
<b>AGGREGATES</b>		
1	Absorption and Sp. Gr	2600.00
2	Aggregate crushing value (ACV)	2600.00
3	Aggregate Impact value (AIV)	2400.00
4	Angularity number (Including Sp. Gr.)	2600.00
5	Bulking of sand	3000.00
6	CBR of Base and Sub-base material	24400.00
7	Clay lump & friable particles	2100.00
8	Coal & lignite (400/= for chemicals)	1700+400
9	Elongation Index (EI)/Shape Test	2100.00
10	Flakiness Index (FI)	2600.00
11	L. A. Abrasion (large sized aggregate ASTM C 535)	2900.00
12	Mica Content	3200.00
13	Organic impurities	1500.00
14	Effect of organic impurities (1000/= for chemicals)	7600+1100
15	Proctor test of aggregate (MDD)	9800.00
16	Salt content	1600.00
17	Sulphate content	1600.00
18	Sieve analysis (CA)/Gradation/FM/Particle Size	2200.00
19	Sieve analysis (FA)	1200.00
20	Wash sieve analysis/Material finer than # 200 sieve	1500.00
21	Soundness with Na <sub>2</sub> SO <sub>4</sub> (1600/= for chemicals)	6400+1600
22	Soundness with Mg <sub>2</sub> SO <sub>4</sub> (1600/= for chemicals)	6700+1600
23	Ten percent fines (10% fines) (1"PF)	4000.00
24	Unit weight of aggregate	CA-1600.00 FA-1400.00
25	Void Ratio/Porosity	2600.00
26	Marshall Method Mix Design	30.500.00
<b>BRICKS (Set of 5 nos. for Crushing strength, Absorption, size &amp; shape and Unit wt. tests; 10 additional bricks for Efflorescence test)</b>		
1	Absorption (ASTM Standard)	1300.00
2	Crushing Strength	2400.00
3	Efflorescence	2400.00
4	Size & shape	1900.00
5	Unit Weight	2000.00
<b>BITUMEN + PAVEMENT</b>		

Sl. No.	Name of Test	Test Rate (Tk)
1	Bitumen content (3000/= for chemicals)	4800+3200
2	Coating and Stripping test	2400
3	Design of Asphalt Concrete mixes	30500.00
4	Distillation	5500.00
5	Ductility	1600.00
6	Flash & Fire points	1600.00
7	Float test	1600.00
8	Loss-on-heating	1600.00
9	Softening point (R&B)	1600.00
10	Solubility	1600.00
11	Specific gravity	1600.00
12	Spot Test	1600.00
13	Standard penetration	1600.00
14	Theoretical Max. Sp. Gr. A. C. mixes	2600.00
15	Thin Film Oven	1900.00
16	Viscosity (Saybolt Furol)	3400.00
17	Viscosity (Kinematic)	4600.00
18	Water Content	4000.00
19	Any test on residue from Loss-on-heating test	3000.00
20	Any test on residue from Thin Film Oven test	3400.00
21	Ash Content/Inorganic Matter	3400.00
<b>CEMENT (ASTM/AASHTO/EN)</b>		
1	Compressive strength (3, 7 & 28 days)	5400+1000
2	Density/Sp. Gravity	2500.00
3	Fineness	1300.00
4	Setting time	1900.00
<b>CEMENT CONCRETE</b>		
1	Concrete cylinders (100 x 200mm), for a set of 3 nos.	1300.00
2	Concrete cylinders (150 x 300mm), for a set of 3 nos.	2500.00
3	Concrete Spun, for a set of 3 nos.	2100.00
4	Con. cylinders casting & testing for a set of 6 no.	12300.00
5	Concrete beam in flexure, for a set of 3 nos.	5300.00
6	Concrete slab in flexure, for a set of 3 nos.	7400.00
7	Concrete mixes design without admixture (Single Mix)	39000.00
8	Concrete mixes design using admixture (Single mix)	44000.00

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# DEPARTMENT OF CIVIL ENGINEERING

Dhaka University of Engineering & Technology, Gazipur  
Gazipur-1700, Bangladesh.



# পুরকৌশল বিভাগ

ঢাকা প্রকৌশল ও প্রযুক্তি বিশ্ববিদ্যালয়, গাজীপুর  
গাজীপুর-১৭০০, বাংলাদেশ।

Tel: 880-2-9204708, PABX: 01711431015, 9204734-53/Ext.2011, Fax: 880-2-9204708, E-mail: head\_ce@duet.ac.bd

Sl. No.	Name of Test	Test Rate (Tk)
9	Cubes (<200 mm) for a set of 3 nos	2100.00
10	Cubes (200 mm - 300 mm) for a set of 3 nos.	2500.00
11	Cubes (>300 mm) for per core cutting each	4700+300
12	Per core cutting & testing (With scanning)	7900.00+*
13	Per core cutting & testing (Without scanning)	4700.00+*
14	Per spot impact hammer test 1-25 nos. 26-50 nos. 51-75 nos. 76-100 nos. more than 100	3600.00 (per spot/location (min. 3 tests))
<b>GAUGES (Calibration)</b>		
1	Pressure gauge	3400.00
2	Hydraulic Jack with Pressure Gauge	15800.00
3	Deflection dial	2400.00
4	Proving ring (<100 kN)	2900.00
5	Proving ring (100 kN to 500 kN)	3700.00
6	Proving ring (>500 kN)	4800.00
7	Compression Testing Machine	6200.00
<b>R. C. C. PIPES (Mas, length of pipe is 2'-6")</b>		
1	Pipes (dia above 300 mm and upto 600 mm)	4100.00
2	Pipes (dia above 600mm and upto 900 mm)	4600.00
3	Pipe (dia above 900 mm up to 1200 mm)	5800.00
4	In-situ pipe testing	5800.00
<b>STEEL</b>		
1	Tension (Deformed bar upto 25 mm) for a set of 3 Nos. including wt elongation	1600.00
2	Tension (Deformed Bar>25mm) for a set of 3 Nos. including wt elongation	2400.00
3	Bend test (upto 25 mm) for a set of 3 Nos.	700.00
4	Rebend test (upto 25 mm)	900.00
5	Bend test (above 25 mm) for a set of 3 Nos.	800.00
6	Rebend test (above 25mm) for a set of 3 Nos.	1000.00
7	Hardness Rockwell for a set of 3 Nos.	1100+500
8	Impact for a set of 3 Nos.	1400+1200
9	Stress-strain curves (Modulus of Elasticity) for a set	5500.00
10	Deformation Measurement for a set of 3 Nos.	1300.00
11	Spring test for per specimen	2000.00
12	Tension (Eye-hooks, anchor bolt) for a set (700/-)	2500+900
13	H. T. Wire, for a set of 3 Nos	3200.00
14	Strand for a set of 3 Nos. (500/- for L.C.)	8700.00
15	Angle/Plate (700=for L.C.)	1900+900
<b>SOIL</b>		
1	California Bearing per spot field density	12200.00

Sl. No.	Name of Test	Test Rate (Tk)
2	Sp. Gr.	1500.00
3	Hydrometer, sieve analysis & sp. gr.	3700.00
4	Linear Shrinkage	1300.00
5	Shrinkage limit	1100.00
6	Liquid limit/Plastic limit	2100.00
7	Standard Proctor	4300.00
8	Modified Proctor	4800.00
9	Unit weight (wet & dry)	1400.00
10	Void ratio	2400.00
11	Moisture content	600.00
12	Organic matter content	2400.00
13	Loss on ignition	2000.00
14	Grain size analysis by wash sieving	1600.00
15	sand equivalent test	3000.00
16	Permeability (cohesive) by 1 dimension consolidation	10500.00
17	Permeability (Non-cohesive sample)	5000.00
18	One dimensional Consolidation (full) e log P, cc. cr. cv)	10500.00
19	One dimensional consolidation (e. log p)	8000.00
20	Consolidated drained test (Direct Shear Test)	6000.00
21	Consolidated quick test (Direct Shear Test)	5000.00
22	Con undrained triaxial test with pore pressure	20000.00
23	Con. undrained triaxial test without pore pressure	18000.00
24	Unconfined compression test	2600.00
25	Unconsolidated quick test (Direct Shear Test)	3500.00
26	Max and Min density of cohesion soil	4300.00
<b>GEO-TEXTILES (for a set of 3 Nos. Samples)</b>		
1	Apparent/Effective opening Size (AOS/EOS) or Pore Size	3000.00
2	Burst Test Index	2200.00
3	Index Puncture Resistance or CBR Puncture	2200.00
4	Cone Penetration Text	2200.00
5	Grab Tensile Test	3000.00
6	Hor Water Permeability Under 2 kN/m <sup>2</sup> pressure	4300.00
7	Seam Strength	3000.00
8	Thickness	800.00
9	Trapezoidal Tearing Strength	3000.00
10	Unit Weight/Mass	1500.00
11	Ver Permeability Under 2 kN/m <sup>2</sup> and 200 kN/m <sup>2</sup>	6200.00
12	Vertical Permeability under 2 kN/m <sup>2</sup> Pressure	3700.00
13	Water Permeability by Permittivity	3000.00

Note: \* Field visit Dhaka, Gazipur = Tk. 10,000/-, Tangail, Manikgonj, Munshigonj, Narayanganj, Narsingdi, Mymensingh Tk. = 16000/-, Kishoregonj, Netrakona, B. Baria, Comilla, Jamalpur, Sherpur = Tk. 21000/-, Chandpur, Saratpur, Madaripur, Faridpur, Gopalganj, Rajbari, Feni, Noakhali, Laksmipur, Pabna, Sirajgonj, Barisal, Narail, Natore, Bogra, Joypurhat, Kushtia, Jhenidah, Magura, Jessore, Naogaon, Rajshahi = Tk. 30000/-, Gristanda, Rangpur, Nilphamari, Lalmonirhat, Kurigram, Dinajpur, Chapai-Nawabgonj, Meherpur, Khulna, Shatkhira, Hobigonj, Moulvibazar, Chittagong, Sylhet, Panchagarh, Thakurgaon, Bagmati, Barguna, Pirojpur, Patuakhali, Jhalokathi, Bhola, Khagrachari, Rangamati, Bandarban, Cox's Bazar, Sunamgonj = Tk. 40000/- | \*\* Per Set of Instrument Rent/Day = Tk. 20000/- | Transportation, local hospitalities and accommodation will be provided by the client

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Sl. No.	Name of Test	Test Rate (Tk)
14	Horizontal Water Permeability Test	4000+300
15	Strip/Wide-Width Tensile Test (Tensile elongation)	3000.00
<b>MISCELLANEOUS</b>		
<b>Rubber/Plastic/PVC materials</b>		
1	Tension for Set of 5 Nos. Samples	2200.00
2	Hardness for 1 No. Sample	1300.00
3	Flexural for set of 5 Nos. Samples	2600.00
4	Compression set for 1 No. Sample	2600.00
5	Compression stiffness for 1 No. Sample	3700.00
<b>OTHERS</b>		
1	Bolt for a set of 3 Nos. samples (tension)	1900.00
2	Compression of fiber glass for 1 No. sample	1300.00
3	Compression of timber	8200+1000
4	Design of Deep Tube well (plus 8 sand samples)	10000+7900
5	Flexure test of timber	4600+1000
6	Load test on manhole covers, <18 inch Dia	3600.00
7	Load test of manhole covers >18 inch Dia	3900.00
8	Tension test of fibre glass strainers/pipes	3000.00
<b>HOLLOW/SPECIAL BRICK BLOCK (Set of 3 Nos.)</b>		
1	Comp. strength of Hollow bricks, Paver, Concrete blocks etc.	2300.00
2	Compressive strength of Road Kerb Stone	2600.00
3	Absorption	1300.00
4	Unit weight	1800.00
5	Comp. strength of Hollow bricks, Paver Concrete blocks etc. including unit weight	3800.00
<b>ELASTOMERIC BEARING</b>		
(Min: C 300/ + 100/ No. of sample		
1	Vulcanized rubber and thermoplastic elastomer in tension and elongation at break, ASTM D412 (Set of 3)	3800+600
2	Short duration compression test on plain and steel laminated elastomeric bearings for bridges, ASTM D4014 (set of 1)	4300.00
3	Laminated elastomeric bearings for bridges, ASTM D4014 (Set of 1)	8600.00
4	Determination of shear modulus, ASTM D4014 (Set of 3)	5600+600
5	Test of compression set, ASTM D395 (set of 4)	5000+600
6	Determination of durometer hardness, ASTM D2240 (set of 1)	1900.00
7	Test for rubber durability deterioration in an air oven, ASTM D573 (Set of 3)	3700.00
8	Test for determining the adhesion on rigid substrates, ASTM D429 (Set of 1)	3000.00
9	Dimensional test (external and internal) giving number & thickness of steel plates, elastomer parallelism, elastomer thickness (ASTM D4014 (set of 1)	1900.00
10	Ash content	3000.00

Sl. No.	Name of Test	Test Rate (Tk)
<b>Water</b>		
Routine Drinking Water Parameters (Package)		
1	pH	5,000+1,800=6800
2	Colour (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)/Thermotolerent Coliform (TTC)	
11	Fecal Coliform (FC)	
<b>Miscellaneous Water Quality Parameters</b>		
1	pH	150+150
2	Color (True or Apparent)	100+100
3	Color Scanning at Specific Wavelength/UV-VIS Range	600+100
4	Turbidity	150+50
5	Carbon-di-Oxide(CO2)/Acidity	150+50
6	P-Alkalinity/M-Alkalinity/T-Alkalinity	150+50
7	Carbonate (O3) or Bi-carbonate (HCO3) + pH	350+150
8	Total Hardness	450+150
9	Ca - Hardness	1200+400
10	Mg - Hardness	1200+400
11	Chloride (Cl)	450+150
12	Fluoride (F)	400+100
13	Ammonia - Nitrogen (NH <sub>3</sub> - N)	500+300
14	Nitrate - Nitrogen (NO <sub>3</sub> - N)	350+150
15	Total Nitrogen (TN)	3500+1500
16	Total Kjeldahl Nitrogen (TKN)/Organic Nitrogen	10000+3000
17	Chlorine Content - Total Cl <sub>2</sub>	350+150
18	Chlorine Content - Free Cl <sub>2</sub>	350+150
19	Iodine Content	350+150
20	Bromine Content	350+150
21	Break Point Chlorination	4800+1200
22	Total Solids (TS)	600+100
23	Total Suspended Solids (TSS)/Insoluble Solids (TSS+TDS+TS)	1300+200
24	Total Dissolved Solids (TDS)	600+100
25	Silica Content (SiO <sub>2</sub> )	500+300

Note: [\* Field visit Dhaka, Gazipur = Tk. 10,000/-, Tangail, Manikgonj, Munshigonj, Narayangonj, Narsingdi, Mymensingh Tk. = 16000/-, Kishoregonj, Netrakonia, Barisal, Comilla, Jamalpur, Sherpur = Tk. 21000/-, Chandpur, Sariatpur, Madaripur, Faridpur, Gopalganj, Rajbari, Feni, Noakhali, Laksmipur, Pabna, Sirajgonj, Barishal, Narail, Natore, Bogra, Joypurhat, Kushtia, Jhenidah, Magura, Jessore, Naogaon, Rajshahi = Tk. 30000/-, Gaibanda, Rangpur, Nilphamari, Lalmonirhat, Kurigram, Dinajpur, Chapai-Nawabgonj, Meherpur, Khulna, Shaikhura, Hobigonj, Moulvibazar, Chittagong, Sylhet, Panchagarh, Thakurgaon, Bagerhat, Barguna, Peropur, Patuakhali, Jhalokathi, Bhola, Khagrachari, Rangamati, Bandarban, Cox's Bazar, Sunamgonj = Tk. 40000/-] [\*\* Per Set of Instrument Rent/Day = Tk. 20000/-] [Transportation, local hospitalities and accommodation will be provided by the client.

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Sl. No.	Name of Test	Test Rate (Tk)
26	Colloidal Silica	1500+500
27	Electrical Conductivity (EC)	350+150
28	Total Phosphorous (TP)	2500+500
29	Orthophosphate (PO <sub>4</sub> )	500+200
30	Hydrogen Sulphide (H <sub>2</sub> S)/Odor	500+100
31	Sulphate (SO <sub>4</sub> )	350+150
32	Organic Matter ***	1500+300
33	Biochemical Oxygen Demand (BOD) - 5 day	1200+300
34	Chemical Oxygen Demand (COD)	1100+400
35	KMnO <sub>4</sub> Value	900+300
36	Dissolved Oxygen (DO)	300+200
37	Boron (B)	1300+1200
38	Manganese (Mn): UV - VIS	900+300
39	Aluminum (AL) - using GFAAS	3000+500
40	Arsenic (As) - using GFAAS	900+400
41	Cyanide (Cn)	2800+700
42	Mercury (Hg)-Cold Vapor Method (Min. 30 days required)	2500+1200
43	Selenium (Se) - using GFAAS/Ba	1700+800
44	Na or K (each) * using FLAAS	1100+400
45	Cd/Cr/Cu/Fe/Mg/Mn/Ni/Pb/Zn - using FLAAS	900+300
46	Total Iron (FE) - Phenanthroline Method	500+100
47	Total Coliform (TC)/Thermotolerent Coliform (TTC)	550+250
48	Fecal Coliform (FC)	550+250
49	E. Coli	2000+1000
50	Magnesium Density	2400+600
51	Sodium Absorption Ratio (SAR)	2400+600
52	Algae/Chlorophyll_a	7500+2500
<b>Pollution Study</b>		
1		
2	Biochemical Oxygen demand (BOD)-Waste water	1500.00
3	Chemical O <sub>2</sub> Demand (COD)-Dichromate (100/- chemicals)	1100+400
4	Chemical O <sub>2</sub> Demand (COD) by - KMnO <sub>4</sub> for waste water	1500.00
5	Dissolved Oxygen (DO)	500.00
6	Sulphate (SO <sub>4</sub> )	500.00
7	Color Scanning	700.00
<b>Sample Visit</b>		
1	Sampling for Bacteriological Analysis	6000.00
2	Sampling for Physical and chemical Analysis	6000.00
<b>Environment Quality of Soil</b>		

Sl. No.	Name of Test	Test Rate (Tk)
1	pH	300.00
2	Electrical conductivity (EC)	600.00
3	Organic Matter (Dry combustion Method)	1300.00
4	Aluminum (Al) (500/= for chemicals)	3500.00
5	Arsenic (As) 300/= for chemicals)	1300.00
6	Mercury (Hg) (500/= for chemicals)	3500.00
7	Ca, Cd, Cl, K, Mg, Na, Pb (200/= for chemicals)	1200.00
8	Toxicity Characteristic Leaching Procedure (TCLP) 500/= for chemicals)	2500+2500
9	TOC (1000/= for Chemicals)	1200+500
10	Other Metals for each	
<b>Air Quality Monitoring</b>		
1	CO	
2	SO <sub>x</sub>	
3	NO <sub>x</sub>	
4	CH <sub>4</sub>	
5	SPM	
6	PM10	
7	PM2.5	
8	Engine Exhaust Monitoring (CO, NO <sub>x</sub> , CH <sub>4</sub> , CO <sub>2</sub> , O <sub>2</sub> )-Min **	2000/Point Min. 3 Points
9	Total Dust in Air (Method AS/NZS 3580.10.1:2003) (each)	2900+800
<b>Noise Monitoring</b>		
1	Minimum Fee *	15000+5000

Note: [\* Field visit Dhaka, Gazipur = Tk. 10,000/-, Tangail, Manikgonj, Munshigonj, Narayanganj, Narsingdi, Mymensingh Tk = 16000/-, Kishorganj, Netrakona, Barisal, Comilla, Jamalpur, Sherpur = Tk. 21000/-, Chandpur, Sariatpur, Madaripur, Faridpur, Gopalganj, Rajbari, Feni, Noakhali, Laksmipur, Pabna, Sirajgonj, Barishal, Narail, Natore, Bogra, Joypurhat, Kushtia, Jhenidah, Magura, Jessore, Naogaon, Rajshahi = Tk. 30000/-, Gaibanda, Rangpur, Nilphamari, Lalmonirhat, Kurigram, Dinajpur, Chapai-Nawabgonj, Meherpur, Khulna, Shatkhira, Hobigonj, Moulvibazar, Chittagong, Sylhet Panchagarh, Thakurgaon, Bagherhat, Barguna, Pirojpur, Patuakhali, Jhalokathi, Bhola, Khagrachari, Rangamati, Bandarban, Cox's Bazar, Sunamganj = Tk. 40000/-] [\*\* Per Set of Instrument Rent/Day = Tk. 2000/-] [Transportation, local hospitalities and accommodation will be provided by the client.

*Abulhasan*  
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