



Dhaka University of Engineering & Technology, Gazipur
Department of Civil Engineering
Consultancy Research and Testing Services (CRTS)

Tel: +88-02-4974008, PABX: 4974034-53/Ext. 2011, E-mail: crts_cc@duet.ac.bd, Web: http://crts.ce.duetbd.org

APPROVED RATES FOR TESTING OF MATERIALS AND SERVICES

Rates include VAT (15%), University Overhead (25%) and Laboratory Development & Maintenance
Department of Civil Engineering reserves the right to change the rates at any time without prior notice
Effective from 1st July, 2022

Contact Person: CRTS Officer; Room No. 103 (Old Academic Building), Mobile: 01729020602
CRTS Office Time: Sunday to Thursday (8:00 AM to 4:00 PM)

Sl. No.	Name of Tests	Test Rate (Tk)
Aggregates		
1.	Sieve analysis/Gradation/FM of CA	6,500
2.	Sieve analysis/Gradation/FM of Base/sub-base	10,000
3.	Sieve analysis/FM of FA	3,800
4.	Aggregate Crushing Value (ACV)/Compressive strength [Sample Preparation Charge (SPC) 2,000/-]	7,500
5.	Aggregate Impact Value (AIV) [SPC 2,000/-]	5,500
6.	Ten Percent Fine Value (TFV)	11,500
7.	Angularity number including specific gravity	9,000
8.	Elongation Index (EI)/Shape Test	8,500
9.	Flakiness Index (FI)	8,000
10.	L.A. Abrasion of CA [SPC 2,000/-]	7,500
11.	Unit weight of coarse aggregate (CA)	4,500
12.	Unit weight of fine aggregate (FA)	4,000
13.	Absorption and Specific Gravity / Density	6,500
14.	Clay lump & friable particles	5,500
15.	Percent finer than # 200 sieve / Fine content/Silt content	3,500
16.	Silt and clay content (hydrometer analysis method)	6,500
17.	Organic impurities/Salt content/Sulphate content/Salinity [Chem. 500/-]	4,200
18.	Mica content of sand/CA by visual observation	16,000
19.	Moisture content	2,800
20.	Bulking of sand	5,000
21.	Void ratio/Porosity	7,500
22.	CBR of Base Sub-base material including Gradation and compaction test [SPC 2,000/-]	57,000
23.	Standard Proctor Compaction Test of CA/(CA+FA) Mixture [SPC 2,000/-]	22,000
24.	Modified Proctor Compaction/Vibrating hammer Test of CA/(CA+FA) Mixture [SPC 2,000/-]	37,000

Sl. No.	Name of Tests	Test Rate (Tk)
BRICKS [Set of 5 nos. (ASTM) and 10 Nos. (BS)]		
1.	Absorption (ASTM Standard/BS)	2,400 / 4,600
2.	Crushing strength (ASTM Standard /BS) [SPC 300/-]	4,800 / 7,900
3.	Size & shape (ASTM Standard /BS)	3,100
4.	Unit weight (ASTM Standard /BS)	4,300 / 5,500
5.	Efflorescence (needed 10 additional bricks)	4,800
Bitumen		
1.	Specific gravity/Density	5,000
2.	Penetration/Grading	5,000
3.	Flash & Fire points	5,000
4.	Solubility [Chem.300/-]	5,000
5.	Ductility [Chem.300/-]	5,000
6.	Softening point (R&B) [Chem.300/-]	5,000
7.	Thin Film Oven/Loss-on-Heating	6,200
8.	Float Test	5,000
9.	Foaming Test	5,000
10.	Spot Test	5,000
11.	Viscosity (Saybolt Furol)	10,000
12.	Asphalt Concrete Mix Design (Marshall) [SPC 3,000/-]	80,000
Asphalt or Bituminous Material/Pavement Core		
1.	Bitumen content [Chem. 4,000/-]	15,000
2.	Water Content	11,000
3.	Theoretical Maximum Specific gravity	7,500
4.	Density	3,500
5.	Marshall Stability and Flow Test	6,500
6.	In-situ core cutting (per sample)	11,000+*
7.	Job Mix Formula & Marshall Test	1,30,000

Note: [* Field visit fees; inside Gazipur & Dhaka Tk. 15,000; Greater Dhaka Tk. 20,000; Adjacent to Greater Dhaka Tk. 25,000; Remote Districts Tk 40,000; Remote areas Tk. 50,000 and additional Tk. 40,000 per day for overnight stay] and [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 (Tk)
Cement Concrete (Set of 3 nos.)		
1.	Concrete cylinders (100mm×200mm)	2,200
2.	Concrete cylinders (150mm×300mm)	3,900
3.	Cubes (<200 mm)	3,400
4.	Cubes (200 mm – 300 mm)	4,000
5.	Cubes (>300mm), each core cutting & testing (SPC 300/-)	7,000
6.	Concrete beam in flexure	8,000
7.	Concrete slab in flexure	11,000
Concrete Mix Design		
1.	Concrete mix design without admixture (22,000+44,000) [up to 25 MPa]	66,000
2.	Concrete mix design using admixture (24,000+48,000) [up to 25 MPa]	72,000
3.	Concrete mix design without admixture (24,000+48,000) [>25 MPa]	72,000
4.	Concrete mix design using admixture (26,000+52,000) [> 25 MPa]	78,000
5.	Con. cylinders casting & testing, for a set of 6 Nos.	36,000
Destructive Tests and NDT		
1.	In-situ core cutting & testing (without scanning) per core samples (min. 3 cores) [SPC 500/-]	6,000+*
2.	In-situ core cutting & testing (with quick scanning) per core samples (min. 3 cores) [SPC 700/-]	13,000 +*
3.	In-Situ Hammer Test per spot/location (min. 3 spots)	6,700 +*
4.	In-Situ Scanning test per spot/location (for 2 scans) (min. 3 spots)	12,000 +*
5.	In-lab Block/Kerb per core cutting & testing [SPC 300/-] per core	6,700
6.	In-lab Supplied Core Testing [SPC 300/-] per core	2,700

Sl. No.	Name of Tests	Test Rate (Tk)
In-Laboratory Calibration		
1.	Pressure gauge/Dial Gauge	5,000
2.	Hydraulic jack (up to 1,000 kN) with pressure gauge	25,000
3.	Hydraulic jack (up to 2,000 kN) with pressure gauge	3,0000
4.	Hydraulic jack (up to 5,000 kN) with pressure gauge	5,0000
5.	Deflection dial gauge	3,500
6.	Proving ring/Load cell (<100 kN)	6,000
7.	Proving ring/Load cell (100 kN to 500 kN)	7,000
8.	Proving ring/Load cell (>500 kN)	8,000
9.	Compression testing machine (with one dial)	15,000
10.	Electronic balance/platform scale up to 20 kg	9,000
11.	Electronic balance/platform scale up to 100 kg	13,000
12.	Weight < 2kg	9,000
13.	Dynamometer	10,500
Outside Laboratory/In-situ Calibration		
1.	Calibration of Cement/Bituminous Concrete Mix Batching Plant [Calibration mass 50,000/-]	265,000+*
2.	Compression/Tension Testing Machine (with one dial)	17,500+*
Cement (ASTM/AASHTO)		
1.	Comp. strength, 3, 7 & 28 days [1,000/- for Ottawa Sand and SPC 800/-]	10,000
2.	Normal consistency (only)	2,900
3.	Setting time	4,300
4.	Fineness	3,000
5.	Density/Specific gravity	4,200
6.	Weight of Cement Bag	700
Cement (EN Standard)		
1.	Comp. strength, 2/7 & 28 days [800/- for Ottawa Sand and SPC 800/-]	20,000
2.	Comp. strength, 2, 7 & 28 days [1,000/- for Ottawa Sand and SPC 800/-]	30,000

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Sl. No.	Name of Tests	Test Rate (Tk)
Rod (Set of 3 nos.)		
1.	Tension test incl. wt. & elongation (up to 25mm diameter)	2,500
2.	Tension test incl. wt. & elongation (above 25 mm & up to 32 mm diameter)	3,700
3.	Tension test incl. wt. & elongation (above 32 mm & up to 50 mm diameter) [SPC 4,500/-]	9,000
4.	Tension test incl. wt. & elongation (above 50 mm) [SPC 6,000/-]	10,800
5.	H.T Wire tension test	7,500
6.	Strand / Cable tension test	13,500
7.	Bend test (up to 25mm)	1,200
8.	Bend test (above 25mm)	1,300
9.	Re-bend test (up to 25mm)	1,700
10.	Re-bend test (above 25mm)	1,900
11.	Elongation at 5D as per ISO 6935-2 per Set	2,000
12.	Stress-strain Curves (modulus of elasticity)	9,500
13.	Shear Test for Rod [SPC 1200/-]	2,500
14.	Welded MS bar tension test	2 times the fees of MS bar
15.	Coupler up to 32mm (a set of 1 no.)	2,500
16.	Coupler above 32mm (a set of 1 no.)	3,000
Bolt, Wire, Angle and Plate (Set of 3 nos.)		
1.	Bolt tension test up to 25mm	3,500
2.	Bolt tension test above 25mm [SPC 1,000/-]	6,000
3.	Anchor bolt/bolt/hook shear test up to 20mm [SPC 800/-]	3,500
4.	Anchor bolt/bolt/hook shear test above 20mm [SPC 2,000/-]	4,500
5.	Angle/Plate tension test up to 16mm [SPC 1,500/-]	4,500
6.	Angle/Plate tension test up to 30 mm [SPC 2,000/-]	5,500
7.	Hooks/Anchor bolt tension test up to 25mm diameter [SPC 1,000/-]	5,000
8.	Hooks/Anchor bolt tension test above 25mm diameter [SPC 1,000/-]	6,000
9.	Hardness (Rockwell) test [SPC 1,000/-]	4,000
10.	H.T. Wire tension test	7,500
11.	Strand/Cable tension test	14,000

Sl. No.	Name of Tests	Test Rate (Tk)
Timber Test (1 sample)		
1.	Compression test [SPC 1,000/-]	8,500
2.	Flexure test [SPC 1,500/-]	19,000
3.	Moisture content test	2,500
4.	Hardness test [SPC 1,000/-]	9,500
5.	Density [SPC. 300/-]	2,000
Tiles (Set of 5 nos.)		
1.	Size & shape	2,000
2.	Absorption	2,500
3.	Flexural/Modulus of Rupture of ceramic/porcelain tiles	2,800
4.	Concrete pavement tiles/block in flexure [SPC 500/-]	4,000
5.	Concrete pavement tiles/block in compression [SPC 500/-]	4,000
Rubber / Plastic / PVC Materials		
1.	Tension, for a set of 5 samples	3,200
2.	Hardness, for 1 sample	2,000
3.	Flexural, for a set of 5 samples	4,000
4.	Compression, for 1 sample	4,000
5.	Compression stiffness, for 1 sample	5,000
6.	Water Stopper - Tension, Dim., Elongation [SPC 1,000/-]	6,000
7.	Water Stopper - Sp. Gr. / Hardness	4,500
Physical and Index Properties of Soil		
1.	Specific gravity	2,200
2.	Unit weight (wet & dry)	2,000
3.	Void ratio (Specific Gravity. & Unit Weight)	3,500
4.	Moisture content	1,000
5.	Linear Shrinkage	2,000
6.	Shrinkage limit	1,800
7.	Liquid limit and Plastic limit	4,800
8.	Grain size analysis by wash sieving	3,500
9.	Hydrometer, sieve analysis & sp. gr.	6,500
10.	Sand equivalent test	4,500
11.	Organic matter content by loss on ignition test	4,200

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Sl. No.	Name of Tests	Test Rate (Tk)
Compaction and Density Tests of Soil		
1.	Max. and min. density of cohesionless soil	8,500
2.	Standard Proctor Compaction test	14,000
3.	Modified Proctor Compaction test	18,000
Permeability and Seepage Characteristics		
1.	Permeability of cohesive soil by 1-dimensional consolidation	22,000
2.	Permeability of cohesionless soil (falling head/constant head)	10,000
Consolidation and Swelling Characteristics		
1.	One dimensional consolidation Cc, Cs, Cv	2,000
2.	One dimensional consolidation Cc, Cs, Cv, and permeability (e-log k)	25,000
3.	One dimensional consolidation (only Cc)	10,000
4.	Swelling pressure	10,000
5.	Swelling potential	8,000
Strength and Deformation Characteristics		
1.	Unconfined compression test (including Sp. Gr.)	9,000
2.	Lab. California Bearing Ratio (CBR) of soils	27,000
3.	Triaxial Shear Test: Please consult with the respective teacher	
Direct Shear Tests		
1.	Consolidated Drained test for sand (including Sp. Gr.)	15,000
2.	Consolidated Drained Test for clay (including Sp. Gr.)	17,000

Sl. No.	Name of Tests	Test Rate (Tk)
Geotextiles/Geobags (Set of 3 samples)		
1.	Thickness (10 specimens)	1,400
2.	Unit Weight / Mass per Unit Area (3 specimens)	2,200
3.	Apparent/Effective Opening Size (AOS/EOS)/Pore Size (3 specimens)	4,500
4.	Strip/Wide-Width Tensile strength & elongation (5 specimens × 2-dir)	5,300
5.	Grab Tensile Strength & Elongation (5 specimens × 2-dir)	4,500
6.	Trapezoidal Tear Strength	4,500
7.	Seam Strength (6 specimens)	4,500
8.	Burst Strength	3,500
9.	Vertical Permeability under 2 kPa and 200 kPa Pressure	9,000
10.	Vertical Permeability under 2 kPa Pressure	5,300
11.	Water Permeability by Permittivity/Velocity Index	4,500
12.	Vertical Permeability under head loss of 50 mm	4,500
13.	Horizontal Permeability Under 2kPa Pressure	10,000
14.	Index Puncture Resistance or CBR Puncture (10 specimens)	3,500
15.	Cone Penetration	3,500
SOIL BORING (Including relevant tests & reports)		
1.	Sub-soil exploration by wash boring method and SPT within Dhaka and Gazipur City. a) 3 boreholes up to 18m depth from the ground surface (LC 20,000/-). b) 3 boreholes up to 30m depth from the ground surface (LC 35,000/-).	45,000+* 65,000+*
2.	Other cases of soil boring: Please consult with the respective teacher	
(Guidelines for no. of boreholes: up to 3 Katha - 3 nos; 3-5 Katha - 5 nos; 6-10 Katha - 8 nos)		

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Sl. No.	Name of Tests	Test Rate (Tk)
Geotechnical Tests (Field)		
1.	Field density test per spot (In addition Proctor/max-min density and sieve/Hydrometer tests are to be done) Note: Minimum total fees (excluding field visit): within Dhaka and Gazipur Tk. 90,000/- Other locations: Please consult with the respective teacher.	7,500+*
2.	Field CBR per spot with field density (in addition Proctor/max-min density and sieve/Hydrometer tests are to be done) Note: Minimum total fees (excluding field visit): within Dhaka and Gazipur Tk. 80,000/- Other locations: Please consult with the respective teacher.	40,000+*
3.	Field DCP (Dynamic Cone Penetration) test per spot on soil up to 900mm depth from the surface Note: Minimum total fees (excluding field visit): within Dhaka and Gazipur Tk. 40,000/- Other locations: Please consult with the respective teacher.	2,000+*
4.	Field DCP (Dynamic Cone Penetration) test per spot on brick chips/stone chips up to 400mm depth from the surface Note: Minimum total fees (excluding field visit): within Dhaka and Gazipur Tk. 45,000/- Other locations: Please consult with the respective teacher.	4,500+*
5.	Non-repetitive plate load test (calibration of devices + supervision + report) per spot Note: Minimum total fees (excluding field visit): within Dhaka and Gazipur Tk. 80,000/- Other locations: Please consult with the respective teacher.	40,000+*

Sl. No.	Name of Tests	Test Rate (Tk)
Consultancy on Pile Integrity and Load Capacity		
1.	Static load test per piles (calibration of devices + supervision + report) within Dhaka and Gazipur Other locations: Please consult with the respective teacher.	70,000+*
2.	Pile Integrity Tests (PIT) per pile Note: Minimum total fees (excluding field visit): within Dhaka and Gazipur Tk. 50,000/- Other locations: Please consult with the respective teacher.	2,500+*
Routine Drinking Water Parameters		
1.	pH	9,500+2,500 (Chem.) = 12,000 (Drinking + As + TC/FC) 7500 +2,000 (Chem.) = 9,500 (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)	
10.	Total Coliform (TC)/Thermotolerant Coliform (TTC)	
11.	Fecal Coliform (FC)	
Environmental Quality of Soil, Sludge and Solids		
1.	pH (Chemical 200/-)	1,000
2.	Electrical Conductivity (Chemical 300/-)	1,300
3.	Organic Matter Content by Loss on Ignition Test	4,000
4.	Water Soluble Cl / Salinity/ PO ₄ / SO ₄ (each) (Chemical 400/-)	4,000

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Sl. No.	Name of Tests	Test Rate (Tk)
Metal Analysis of Soil, Sludge and Solids following Total Extraction and/or TCLP		
1.	Total Extraction Charges (each sample) [Chem. 500/-]	2,300
2.	TCLP Extractant Analysis	
	Ca/Cd/Co/Cr/Cu/Fe/Mg/Mn/Ni/Pb/Zn - using FLAAS (each) [Chem. 600/-]	2,300
	Arsenic (As) - using GFAAS (Chem. 600/-)	2,300
	Mercury (Hg) - Cold Vapor Method [Chem. 1,200/-]	5,500
	Selenium (Se) - using GFAAS / Ba [Chem. 800/-]	4,500
	Na / K - using FLAAS (each) [Chem. 500/-]	2,700
3.	Toxic Characteristics Leaching Procedure (TCLP) Charge [Chem. 1,500/-]	5,500
4.	Extractant Analysis	
	Ca/Cd/Co/Cr/Cu/Fe/Mg/Mn/Ni/Pb/Zn - using FLAAS (each) [Chem. 600/-]	2,300
	Arsenic (As) - using GFAAS (Chem. 600/-)	2,300
	Mercury (Hg) - Cold Vapor Method [Chem. 1,200/-]	5,500
	Selenium (Se) - using GFAAS / Ba [Chem. 800/-]	4,500
	Na / K - using FLAAS (each) [Chem. 500/-]	2,700
5.	Calorific Values of Sludge/Solids/Semi-Solids	9,000
Ambient Air Quality & Exhaust Emission Monitoring*		
1.	Ambient Air Quality Parameters [CO, NO _x , SO _x , H ₂ S, SPM (Chem. 1,500/-), PM ₁₀ , PM _{2.5} (Chem. 2,500/-), VOCs]	Please consult with the respective teacher
2.	Exhaust Emission Parameters [CO ₂ , CO, O ₂ , NO _x , SO _x , CH ₄ , NH ₃]	
3.	Engine Exhaust Monitoring (CO ₂ , CO, O ₂ , NO _x , SO ₂)	
4.	Total Dust in Air (Method As/NZS 3580.10.1:2003)	
Noise Level Monitoring		
1.	Minimum Fee (for 5 locations in one entity)	18,000+*
2.	Calibration of noise meter	5,000

Sl. No.	Name of Tests	Test Rate (Tk)
Field Sampling ++		
1.	Sampling for Bacteriological Analysis	7,000+*
2.	Sampling for Physical and Chemical Analysis	7,000+*
++ Sampling charge may vary depending on the area to be sampled		
Tubewell Design (Sample preparation charge TK. 2,000)		
1.	Tubewell Design (depth up to 600 ft), incl. 8 nos. sand test ^	17,000 + 16,000
2.	Tubewell Design (depth up to 600 ft), incl. 11 Nos. sand test ^	18,000 + 22,000
^ Cost depends on the client's requirements		
Miscellaneous Water Quality Parameters		
1.	pH [Chem. 200/-]	500
2.	Color (True or Apparent) [Chem. 200/-]	500
3.	Color Scanning at Specific Wavelength/UV-VIS Range [Chem. 200/-]	1,800
4.	Turbidity [Chem. 200/-]	500
5.	Carbon-di-Oxide (CO ₂)/Acidity [Chem. 150/-]	400
6.	P-Alkalinity/M-Alkalinity/T-Alkalinity [Chem. 200/-]	500
7.	Carbonate (CO ₃) or Bi-carbonate (HCO ₃) + pH [Chem. 200/-]	600
8.	Total Hardness [Chem. 300/-]	1,000
9.	Ca - Hardness [Chem. 800/-]	2,700
10.	Mg - Hardness [Chem. 800/-]	2,700
11.	Chloride (Cl) [Chem. 250/-]	800
12.	Fluoride (F) [Chem. 100/-]	600
13.	Ammonia-Nitrogen (NH ₃ - N) [Chem. 400/-]	1,000
14.	Nitrate-Nitrogen (NO ₃ - N) [Chem. 250/-]	800
15.	Nitrite-Nitrogen (NO ₂ - N) [Chem. 200/-]	800
16.	Total Nitrogen (TN) [Chem. 1,500/-]	5,500
17.	Total Kjeldahl Nitrogen (TKN)/Organic Nitrogen [Chem. 3,000/-]	14,000
18.	Chlorine Content-Total Cl ₂ [Chem. 250/-]	700
19.	Chlorine Content - Free Cl ₂ [Chem. 250/-]	700
20.	Iodine Content [Chem. 200/-]	700
21.	Bromine Content [Chem. 200/-]	700
22.	Break Point Chlorination [Chem. 1,200/-]	9,000
23.	Total Solids (TS) [Chem. 100/-]	1,000
24.	Total Suspended Solids (TSS)/Insoluble Solids/(TSS+TDS+TS) [Chem. 500/-]	2,000
25.	Total Dissolved Solids (TDS) [Chem. 150/-]	1,000
26.	Silica Content (SiO ₂) [Chem. 400/-]	1,200

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Sl. No.	Name of Tests	Test Rate (Tk)
27.	Electrical Conductivity (EC) [Chem. 350/-]	600
28.	Total Phosphorous (TP) [Chem. 700/-]	3,500
29.	Orthophosphate (PO ₄) [Chem. 200/-]	900
30.	Hydrogen Sulphide (H ₂ S)/Odor [Chem. 200/-]	800
31.	Sulphate (SO ₄) [Chem. 200/-]	700
32.	Biochemical oxygen Demand (BOD) - 5 day [Chem. 400/-]	1,800
33.	Chemical Oxygen Demand (COD) [Chem. 600/-]	1,800
34.	Dissolved Oxygen (DO) [Chem. 400/-]	500
35.	Boron (B) [Chem. 1,200/-]	2,700
36.	Manganese (Mn): UV - VIS [Chem. 500/-]	1,600
37.	Arsenic (As) - using GFAAS [Chem. 600/-]	1,600
38.	Ca/Cd/Cr/Cu/Fe/Mg/Mn/Pb/Zn - using FLAAS (each) [Chem. 500/-]	1,800
39.	Na / K - using FLAAS (each) [Chem. 400/-]	2,200
40.	Nickel (Ni) / Cobalt (each) [Chem. 1,000/-]	2,800
41.	Total Iron (Fe) [Chem. 200/-]	900
42.	Ferrous Iron / Ferric Iron [Chem. 500/-]	2,200
Bacteriological Analysis of Water		
1.	Fecal Coliform (FC)/Total Coliform (TC) [Chem. 500/-]	1,200
2.	E. Coli [Chem. 1,500/-]	3,500
3.	Algae/Chlorophylla [Chem. 1,500/-]	10,000
Miscellaneous Wastewater/Effluent Quality Parameters		
1.	pH [Chem. 200/-]	500
2.	Color (True or Apparent) [Chem. 200/-]	700
3.	Color Scanning at Specific Wavelength/UV-VIS Range [Chem. 200/-]	2,200
4.	Turbidity [Chem. 200/-]	600
5.	P-Alkalinity/M-Alkalinity/T-Alkalinity [Chem. 200/-]	700
6.	Carbonate (CO ₃) or Bi-carbonate (HCO ₃) + pH [Chem. 200/-]	900
7.	Total Hardness [Chem. 300/-]	1,100
8.	Ca - Hardness [Chem. 800/-]	3,200
9.	Mg - Hardness [Chem. 800/-]	3,200
10.	Chloride (Cl) [Chem. 250/-]	1,000
11.	Fluoride (F) [Chem. 100/-]	800

Sl. No.	Name of Tests	Test Rate (Tk)
12.	Ammonia-Nitrogen (NH ₃ - N) [Chem. 400/-]	1,300
13.	Nitrate-Nitrogen (NO ₃ - N) [Chem. 250/-]	900
14.	Nitrite-Nitrogen (NO ₂ - N) [Chem. 200/-]	900
15.	Total Nitrogen (TN) [Chem. 1,500/-]	5,000
16.	Total Kjeldahl Nitrogen (TKN)/Organic Nitrogen [Chem. 3,000/-]	15,000
17.	Chlorine Content-Total Cl ₂ [Chem. 250/-]	800
18.	Chlorine Content - Free Cl ₂ [Chem. 250/-]	800
19.	Iodine Content [Chem. 200/-]	800
20.	Bromine Content [Chem. 200/-]	800
21.	Total Solids (TS) [Chem. 100/-]	1,000
22.	Total Suspended Solids (TSS)/Insoluble Solids/(TSS+TDS+TS) [Chem. 500/-]	2,200
23.	Total Dissolved Solids (TDS) [Chem. 150/-]	1,000
24.	Silica Content (SiO ₂) [Chem. 400/-]	1,400
25.	Electrical Conductivity (EC) [Chem. 350/-]	900
26.	Total Phosphorous (TP) [Chem. 700/-]	3,500
27.	Orthophosphate (PO ₄) [Chem. 200/-]	1,000
28.	Hydrogen Sulphide (H ₂ S)/Odor [Chem. 200/-]	800
29.	Sulphate (SO ₄) [Chem. 200/-]	800
30.	Organic Matter [Chem. 300/-]	3,500
31.	Inorganic Matter [Chem. 300/-]	2,000
32.	Biochemical oxygen Demand (BOD) - 5 day [Chem. 400/-]	2,200
33.	Chemical Oxygen Demand (COD) [Chem. 600/-]	2,200
34.	Dissolved Oxygen (DO) [Chem. 400/-]	800
35.	Boron (B) [Chem. 1,200/-]	3,200
36.	Aluminum (Al) [Chem. 500/-]	4,500
37.	Silver (Ag) [Chem. 500/-]	5,000
38.	Arsenic (As) - using GFAAS [Chem. 600/-]	2,000
39.	Selenium (Se) - using GFAAS Ba (each) [Chem. 900/-]	4,000
40.	Na/K - using GFAAS (each) [Chem. 400/-]	3,000
41.	Ca/Cd/Cr/Cu/Fe/Mg/Mn/Pb/Zn - using FLAAS (each) [Chem. 500/-]	1,800
42.	Total Organic Carbon (TOC) [Chem. 1,000/-]	9,000
43.	Dissolved Organic Carbon (DOC) [Chem. 1,500/-]	10,000
Bacteriological Analysis of Wastewater / Effluent		
1.	Fecal Coliform (FC) [Chem. 500/-]	2,000
2.	Algae/Chlorophylla [Chem. 1,500/-]	11,000

Note: [* Field visit fees; inside Gazipur & Dhaka Tk. 15,000; Greater Dhaka Tk. 20,000; Adjacent to Greater Dhaka Tk. 25,000; Remote Districts Tk 40,000; Remote areas Tk. 50,000 and additional Tk. 40,000 per day for overnight stay] and [Transport, local hospitalities, accommodation (in case of overnight stay) etc. are to be provided by the client]

Aram



Dhaka University of Engineering & Technology, Gazipur
Department of Civil Engineering
Consultancy Research and Testing Services (CRTS)

Tel: +88-02-4974008, PABX: 4974034-53/Ext. 2011, E-mail: crts_cc@duet.ac.bd, Web: http://crts.ce.duetbd.org

Sl. No.	Name of Tests	Test Rate (Tk)
Miscellaneous Saline Water (EC > 5mS/cm) Quality Parameters		
1.	pH [Chem. 200/-]	500
2.	Color (True or Apparent) [Chem. 200/-]	800
3.	Color Scanning at Specific Wavelength/UV-VIS Range [Chem. 200/-]	2,000
4.	Turbidity [Chem. 150/-]	600
5.	Carbon-di-Oxide (CO ₂)/Acidity [Chem. 200/-]	500
6.	P-Alkalinity/M-Alkalinity/T-Alkalinity [Chem. 200/-]	800
7.	Carbonate (CO ₃) or Bi-carbonate (HCO ₃) + pH [Chem. 200/-]	1,000
8.	Total Hardness [Chem. 500/-]	2,000
9.	Chloride (Cl) [Chem. 500/-]	2,200
10.	Fluoride (F) [Chem. 500/-]	2,200
11.	Ammonia-Nitrogen (NH ₃ - N) [Chem. 800/-]	3,200
12.	Nitrate-Nitrogen (NO ₃ - N) [Chem. 500/-]	2,200
13.	Nitrite-Nitrogen (NO ₂ - N) [Chem. 500/-]	2,200
14.	Total Nitrogen (TN) [Chem. 2,000/-]	10,000
15.	Total Kjeldahl Nitrogen (TKN)/Organic Nitrogen [Chem. 3,000/-]	16,000
16.	Chlorine Content-Total Cl ₂ [Chem. 300/-]	1,300
17.	Chlorine Content - Free Cl ₂ [Chem. 300/-]	1,300
18.	Iodine Content [Chem. 300/-]	1,300
19.	Bromine Content [Chem. 300/-]	1,300
20.	Total Solids (TS) [Chem. 200/-]	1,500
21.	Total Suspended Solids (TSS)/Insoluble Solids/(TSS+TDS+TS) [Chem. 500/-]	3,200
22.	Total Dissolved Solids (TDS) [Chem. 200/-]	1,600
23.	Silica Content (SiO ₂) [Chem. 500/-]	2,200
24.	Electrical Conductivity (EC) [Chem. 500/-]	1,400
25.	Total Phosphorous (TP) [Chem. 700/-]	3,500
26.	Orthophosphate (PO ₄) [Chem. 300/-]	1,800
27.	Hydrogen Sulphide (H ₂ S)/Odor [Chem. 300/-]	1,400
28.	Sulphate (SO ₄) [Chem. 300/-]	1,400
29.	Biochemical oxygen Demand (BOD) - 5 days [Chem. 500/-]	3,400
30.	Chemical Oxygen Demand (COD) [Chem. 600/-]	4,000
31.	Dissolved Oxygen (DO) [Chem. 400/-]	800
32.	Boron (B) [Chem. 1,200/-]	4,000
33.	Aluminum (Al) [Chem. 500/-]	5,000
34.	Silver (Ag) [Chem. 500/-]	5,500
35.	Arsenic (As) - using GFAAS [Chem. 800/-]	3,200
36.	Selenium (Se) - using GFAAS Ba (each) [Chem. 1,000/-]	4,500

Sl. No.	Name of Tests	Test Rate (Tk)
37.	Ca/Cd/Cr/Cu/Fe/Mg/Mn/Ni/Pb/Zn - using FLAAS (each) [Chem. 1,000/-]	3,500
38.	Na/K- using GFAAS [Chem. 1,000/-]	5,000
39.	Mercury (Hg)-Cold Vapour Method (Mini. 30 days required) (Chem. 1,500/-)	7,500
40.	Total Organic Carbon (TOC) [Chem. 1,000/-]	10,000
41.	Dissolved Organic Carbon (DOC) [Chem. 1,500/-]	12,000
Bacteriological Analysis of Saline Water		
1.	Fecal Coliform (FC) [Chem. 1,500/-]	2,200
2.	E. Coli [Chem. 1,500/-]	6,000
3.	Algae/Chlorophylla [Chem. 1,500/-]	12,500
Various Consultancy Services (Please consult with the respective teacher)		
1.	Land Survey (Planimetric/Topographic/Contour) by Total Station and GPS	
2.	Cost Estimation of Civil Structures	
3.	Asset Evaluation of Civil Structures/Industries/Properties	
4.	Design of Buildings, Bridges, Airports, Offshore Structures, Drainage Structures etc.	
5.	Structural Evaluation of Old Civil Structures without Drawings/Records	
6.	Quality Assurance (QA) of Civil Structures without Drawings/Records	
7.	Certification on Structural Stability of Civil Structures	
8.	Design Checking of various Concrete and Steel Structures	
9.	Investigation of Civil Engineering Projects	
10.	Assessment of Safety for old Structures	
11.	Strengthening of Existing Structures	
12.	Environmental Site Assessment (e.g. for LPG plants, Power plants)	
13.	Environmental Impact Assessment (EIA) of Civil Engineering Projects	
14.	Environmental Monitoring of Civil Engineering Projects	

Note: [* Field visit fees; inside Gazipur & Dhaka Tk. 15,000; Greater Dhaka Tk. 20,000; Adjacent to Greater Dhaka Tk. 25,000; Remote Districts Tk 40,000; Remote areas Tk. 50,000 and additional Tk. 40,000 per day for overnight stay] and [Transport, local hospitalities, accommodation (in case of overnight stay) etc. are to be provided by the client]

Ayam




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Department of Civil Engineering
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Tel: +88-02-4974008, PABX: 4974034-53/Ext. 2011, E-mail: crts_cc@duet.ac.bd, Web: http://crts.cc.duetbd.org

Sl. No.	Name of Tests	Test Rate (Tk)
15.	Design of Solid Waste Disposal Systems	
16.	Design of Water and Wastewater Treatment Systems	
17.	Design of Iron Removal Plants	
18.	Plumbing and Sewer Systems Design	
19.	Solid, Hazardous and Industrial Waste Management, and Pollution Control	
20.	Design of Water Supply System	
21.	Training on Water Quality, Water Supply and Sanitation	
22.	Design and Analysis of Shallow and Deep Foundations	
23.	Design and Analysis of Embankments	
24.	Design and Analysis of Earth Retaining Structures	
25.	Planning of Soil Investigation Programs	
26.	Planning and Design of Soil Improvement Schemes	
27.	Seismic Design of Foundation	
28.	Seismic Hazard Analysis	
29.	Micro-zonation Maps	
30.	Transpiration Impact Assessment (TIA) of Civil Engineering Projects	
31.	Traffic Studies (Volume, O-D, Speed, Delay, Parking etc.)	
32.	Traffic Forecasting	
33.	Geometric and Structural Design of Pavements, Parking Lots etc.	
34.	Planning and Design of Inland Container Terminal/Depot (ICT/ICD)	
35.	Planning and Design of Airport Terminal	
36.	Design of Runway Pavement	
37.	Design of Road/Highways/Bridge/Culverts	
38.	Planning and Design of Flyover/Underpass/Interchange	
39.	Road Accident Investigation/Safety Measure/Road Safety Auditing	
40.	Development of Transportation Model	

Sl. No.	Name of Tests	Test Rate (Tk)
41.	Training on Traffic Studies, Traffic Management, Transportation Planning, and Traffic Safety.	

 01/07/2022
Chairman
CRTS (Civil Engineering)
DUET, Gazipur
Gazipur-1707.

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