

BRTC Price List 2026

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Sl. No.	Name of Test	Test Price (BDT)	VAT (15%) (BDT)	Total (BDT)	Grand Total (BDT)	Methods	
Chemical Analysis							
1	Alum						
	Al ₂ O ₃	7,000	1,050	8,050	24,150	ASTM C 2598	
	Fe ₂ O ₃	7,000	1,050	8,050		ASTM C 2598	
Insoluble Residue(IR)	7,000	1,050	8,050	ASTM C 2598			
2	Lime /hydrated						
	CaCO ₃	7,000	1,050	8,050	19,320	ASTM C 2598	
	CaO	7,000	1,050	8,050		ASTM C 2598	
Size	2,800	420	3,220	Tyler mesh analysis			
3	Bleaching Powder Chlorine Content and boiling loss	7,000	1,050	8,050		ASTM D2022	
4	Paper				24,150		
	GSM	3,500	525	4,025		ASTM D 646-13	
	Bulk	3,500	525	4,025			
	Bursting factor	3,500	525	4,025			
	Moisture Content	3,500	525	4,025			ASTM C114
	Size	3,500	525	4,025			
Thickness	3,500	525	4,025	Slide calipers			
5	Hydrogen Peroxide				12,995		
	H ₂ O ₂ Content	7,000	1,050	8,050		Titrimetric	
	Specific Gravity at 20°C	1,500	225	1,725		Gravimetric	
6	Soda Ash (normal or light)				41,975		
	Insoluble Residue(IR)	7,000	1,050	8,050		ASTM C 114	
	Iron	7,000	1,050	8,050		ASTM E291	
	Na ₂ CO ₃ Content	7,000	1,050	8,050		Titrimetric	
	NaCl	7,000	1,050	8,050		Titrimetric	
	pH	1,500	225	1,725		ASTM D 1293	
SO ₄ ²⁻	7,000	1,050	8,050	Spectrophotometric			
7	Caustic Soda				23,000		
	Na ₂ CO ₃ %	7,000	1,050	8,050		Titrimetric	
	Na ₂ SO ₄ %	7,000	1,050	8,050		ASTM C114	
	NaCl%	7,000	1,050	8,050		Titrimetric	
8	Sea Salt				45,656		
	Ca	7,000	1,050	8,050		Titrimetric	
	Density	2,350	353	2,703		Gravimetric	
	Fe	7,000	1,050	8,050		ASTM E 291	
	IR	7,000	1,050	8,050		ASTM C 114	
NaCl%	7,000	1,050	8,050	Titrimetric			

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	pH	2,350	353	2,703		ASTM D 1293/Glass electrode
	SO ₄	7,000	1,050	8,050		Spectrophotometric
9	Cement				104,650	
	Insoluble Residue(IR)	7,000	1,050	8,050		ASTM C 114
	SiO ₂	7,000	1,050	8,050		ASTM C 114
	Al ₂ O ₃	7,000	1,050	8,050		ASTM C 114
	Fe ₂ O ₃	7,000	1,050	8,050		ASTM C 114
	CaO	7,000	1,050	8,050		ASTM C 114
	MgO	7,000	1,050	8,050		ASTM C 114
	LOI	7,000	1,050	8,050		ASTM C 114
	VOC	7,000	1,050	8,050		ASTM C 114
	Sulphide as SO ₃	7,000	1,050	8,050		ASTM C 114
	K ₂ O	7,000	1,050	8,050		Flame photometer
	C ₃ A	7,000	1,050	8,050		ASTM C 150
	Na ₂ O	7,000	1,050	8,050		Flame photometer
	Chloride	7,000	1,050	8,050		IS 6925
	Cement Package (IR, SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , CaO, MgO, LOI, VOC, Sulphide as SO ₃ , Chloride, C ₃ A, C ₃ S)	70,000	10,500	80,500		ASTM C114, C150, IS 6925 and Flame photometer
10	Zinc Oxide	7,000	1,050	8,050		
11	Boiler Scale					
	Ca	7,000	1,050	8,050		AAS
	Mg	7,000	1,050	8,050		AAS
	Iron	7,000	1,050	8,050		AAS
	Silicon	7,000	1,050	8,050		AAS
12	Limestone					
	CaO, SiO ₂ , LOI	27,950	4,193	32,143		ASTM C 114
13	Polyelectrolyte				51,865	
	Color/Appearance	1,500	225	1,725		Spectrophotometric
	pH	1,500	225	1,725		ASTM D 1293/Glass electrode
	Interaction with chlorine	3,000	450	3,450		
	Viscosity	3,000	450	3,450		ASTM D88
	Water Solubility	1,500	225	1,725		Gravimetric
	Bulk Density	1,500	225	1,725		
	Insolubler Residue (IR)	7,000	1,050	8,050		ASTM C494
	% of Polymer	8,600	1,290	9,890		
	Jar Test	17,500	2,625	20,125		SM
14	NPKS Fertilizer				11,501	
	Nitrogen as NH ₃	3,500	525	4,025		Titrimetric
	Phosphate as P ₂ O ₅	1,750	263	2,013		Spectrophotometric
	Potassium as K ₂ O	3,000	450	3,450		Flame photometer
	Sulphur as SO ₄	1,750	263	2,013		Spectrophotometric

AIR ANALYSIS						
1	Stack/Chimney Gas Analysis (By gastec tubes)					
	SOx	8,000	1,200	9,200	104,823	
	NOx	8,000	1,200	9,200		
	CO ₂	8,000	1,200	9,200		
	CO	8,000	1,200	9,200		
	SPM	29,150	4,373	33,523		
	Noise Level	8,000	1,200	9,200		
	Extra fees for each site visit (dhaka and nearby only)	22,000	3,300	25,300		
(conveyance to be provided by client)						
2	Ambient Air Analysis (By gastec tubes)					
	SOx	7,000	1,050	8,050	99,073	
	NOx	7,000	1,050	8,050		
	CO ₂	7,000	1,050	8,050		
	CO	7,000	1,050	8,050		
	SPM	29,150	4,373	33,523		
	Noise Level	7,000	1,050	8,050		
	Extra fees for each site visit (inside dhaka)	22,000	3,300	25,300		
(conveyance to be provided by client)						

WATER ANALYSIS					
1	Aluminum (Al) (consumeable 300 taka)	4,000	600	4,600	AAS
2	Ammonium (NH ₄ ⁺)	1,200	180	1,380	Spectrophotometric
3	Arsenic (As) (consumeable 800 taka)	2,000	300	2,300	AAS
4	Barium (Ba)	2,000	300	2,300	Spectrophotometric
5	Biochemical Oxygen Demand (BOD ₅)	2,000	300	2,300	SM
6	Boron (B)	2,500	375	2,875	Spectrophotometric
7	Bicarbonate (HCO ₃)	1,000	150	1,150	Titrimetric
8	Carbonate (CO ₃)	1,000	150	1,150	Titrimetric
9	Calcium (Ca) (consumeable 300 taka)	1,800	270	2,070	AAS
10	Carbon dioxide (CO ₂)	1,000	150	1,150	SM
11	Chemical Oxygen Demand (COD)	2,000	300	2,300	SM
12	Chloride	900	135	1,035	ASTM E291
13	Cadmium (consumeable 300 taka)	2,000	300	2,300	AAS
14	Chromium (Cr), Hexavalent	1,500	225	1,725	Spectrophotometric
15	Chromium (Cr), Total (consumeable 300 taka)	1,800	270	2,070	AAS
16	Cobalt (consumeable 300 taka)	2,500	375	2,875	AAS
17	Coliform, Fecal	1,250	188	1,438	Plate counting
18	Coliform, Total	1,250	188	1,438	Plate counting
19	Color	500	75	575	Spectrophotometric
20	Color (Filtered)	650	98	748	Spectrophotometric
21	Conductivity	700	105	805	Glass Electrode
22	Copper (Cu) (consumeable 300 taka)	2,000	300	2,300	AAS
23	Density/ Specific Gravity	500	75	575	Gravimetric
24	Dissolved Oxygen (DO)	500	75	575	Glass electrode
25	Free Ammonia (NH ₃ - N)	1,200	180	1,380	Spectrophotometric
26	Fluoride, F	1,000	150	1,150	Spectrophotometric
27	Hydroxyl (OH ⁻)	2,000	300	2,300	Titrimetric
28	Iron (Fe) (consumeable 300 taka)	1,800	270	2,070	AAS
29	Fe ⁺²	6,500	975	7,475	
30	Fe ⁺³	2,000	300	2,300	
31	Lead (Pb) (consumeable 500 taka)	2,000	300	2,300	AAS
32	Magnesium (Mg) (consumeable 300 taka)	1,800	270	2,070	AAS
33	Manganese (Mn) (consumeable 300 taka)	1,800	270	2,070	AAS
34	Mercury (Hg) (consumeable 800 taka)	4,000	600	4,600	AAS
35	Nickel (Ni) (consumeable 300 taka)	2,000	300	2,300	AAS
36	Nitrogen (Kjeldahl)	12,000	1,800	13,800	
37	Nitrate Nitrogen (NO ₃ - N)	900	135	1,035	Spectrophotometric
38	Nitrite Nitrogen (NO ₂ - N)	900	135	1,035	Spectrophotometric
39	Total Nitrogen (if not performed Kjeldahl)	12,000	1,800	13,800	
40	Oil & Grease	6,000	900	6,900	Hexane extractable Gravimetric
41	pH	500	75	575	ASTM D 1293/Glass electrode
42	Phosphate	1,000	150	1,150	Spectrophotometric
43	Phosphorus (Total as P)	1,000	150	1,150	Spectrophotometric
44	Potassium (K) (consumeable 300 taka)	2,000	300	2,300	AAS

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45	Silica (SiO ₂)	1,200	180	1,380	Spectrophotometric
46	Silicon (Si) (consumeable 300 taka)	3,000	450	3,450	AAS
47	Inactive Silicon (as SiO ₂)	3,000	450	3,450	AAS
48	Sodium (Na) (consumeable 300 taka)	2,000	300	2,300	AAS
49	Sulfate	1,000	150	1,150	Spectrophotometric
50	Sulfide	1,000	150	1,150	Spectrophotometric
51	Total Alkalinity	1,000	150	1,150	Titrimetric
52	Phenolphthalein/Methyl Orange Alkalinity	1,000	150	1,150	Titrimetric
53	Total Dissolved Solids (TDS)	1,000	150	1,150	Glass Electrode
54	Total Hardness	1,000	150	1,150	Spectrophotometric
55	Carbonate Hardness (as CaCO ₃)	2,000	300	2,300	Spectrophotometric
56	Total Solids (TS)	1,000	150	1,150	Gravimetric
57	Total Suspended Solids (TSS)	1,000	150	1,150	Gravimetric
58	Turbidity	650	98	748	Spectrophotometric
59	Zinc (Zn) (consumeable 300 taka)	1,800	270	2,070	AAS

Drinking Water Parameters (Package)						
1	pH					ASTM D 1293/Glass electrode
2	Color (True or Apparent)					Spectrophotometric
3	Turbidity					Spectrophotometric
4	Total Hardness					Titrimetric
5	Chloride (Cl)	7,000	1,050	8,050		ASTM E 291
6	Total Dissolved Solids (TDS)					Glass Electrode
7	Manganese (Mn)					AAS
8	Arsenic (As)					AAS
9	Total Iron (Fe)					AAS/spectrophotometric
10	Total Coliform(TC)					Plate counting

OTHER TESTS						
1	Thermometer Calibration					
	up to 100 °C	5,000	750	5,750		
	up to 200 °C	8,000	1,200	9,200	26,450	
above 200 °C (up to 250 °C)	10,000	1,500	11,500			
2	Biodegradability of plastic/polymer	60,000	9,000	69,000	69,000	
3	Biomethane potential (BMP) of biomass/waste	60,000	9,000	69,000	69,000	Automatic BMP Setup
4	Moisture Meter Calibration	27,000	4,050	31,050	31,050	Gravimetric
5	Micro Plastics in water	32,500	4,875	37,375	37,375	Raman Microscopy
6	Jute Charcoal	40,500	6,075	46,575	46,575	BET

ADMIXTURE ANALYSIS

1	pH	1,500	225	1,725	32,775	ASTM D1293
2	Specific Gravity	1,500	225	1,725		ASTM C494
3	Chloride Content	7,000	1,050	8,050		ASTM E291/EN480
4	Density	1,500	225	1,725		ASTM C494
5	IR	7,000	1,050	8,050		ASTM C494
6	Dry material content	3,000	450	3,450		ASTM C494
7	Alkali Content	7,000	1,050	8,050		AAS

FOOD INGREDIENTS AND CONTAMINATION ANALYSIS						
1	Vitamins (Fat Soluble)	8,000	1,200	9,200	75,383	LC-MS/MS or Raman Microscopy
2	Vitamins (Water Soluble)	5,500	825	6,325		LC-MS/MS or Raman Microscopy
3	Aflatoxin (B1, B2, G1, G2, M1, M2, Ochratoxin)	8,100	1,215	9,315		LC-MS/MS
4	Total Aflatoxin (B1, B2, G1, G2)	9,200	1,380	10,580		LC-MS/MS
5	Pesticides (carbamate based)	8,000	1,200	9,200		LC-MS/MS or Raman Microscopy
6	Amino acid Profile	10,750	1,613	12,363		LC-MS/MS or Raman Microscopy
7	Antibiotics (Amoxicillin, Tylosin, Gentamicin, Tetracycline, Oxytetracycline, Chlorotetracycline, Doxycycline, Chloramphenicol, Nitrofurantoin Metabolites etc.)	8,000	1,200	9,200		LC-MS/MS or Raman Microscopy
8	Hormones and Steroids (Dexamethasone, Prednisolone etc.)	8,000	1,200	9,200		LC-MS/MS

MATERIALS AND CHEMICAL ANALYSIS						
1	Packaging Material Identification	3,250	488	3,738	112,874	Raman/ATR-FTIR
2	Pharmaceuticals API Identification	5,500	825	6,325		Raman Microscopy
3	Polymer Identification	5,500	825	6,325		Raman Microscopy
4	Azo compound Identification	5,500	825	6,325		Raman Microscopy
5	Pesticides (carbamate based)	8,000	1,200	9,200		LC-MS/MS or Raman Microscopy
6	Amino acid Profile	10,750	1,613	12,363		LC-MS/MS or Raman Microscopy
7	Chemical Identification with ATR-FTIR	2,150	323	2,473		ATR-FTIR
8	Physical Analysis with Scanning Electron Microscope (EDX costs additional 1000+VAT)	5,500	825	6,325		SEM
9	Celulosic compound Identification	5,500	825	6,325		Raman Microscopy
10	Nylon derivatived Identification	5,500	825	6,325		Raman Microscopy
11	Basic Inorganic Chemical Identification	5,500	825	6,325		Raman Microscopy
12	Basic organic Chemical Identification	5,500	825	6,325		Raman Microscopy
13	Solvents Identification	5,500	825	6,325		Raman Microscopy
14	Resin Identification	5,500	825	6,325		Raman Microscopy
15	Identification of Common ingredients in paints and pigments	5,500	825	6,325		Raman Microscopy
16	Identification of Hydrocarbons	5,500	825	6,325		Raman Microscopy

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17	Hormones and Steroids (Dexamethasone, Prednisolone etc.)	8,000	1,200	9,200	LC-MS/MS or Raman Microscopy
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FUEL

Sl. No.	Name of Test	Test Price (BDT)	VAI (15%) (BDT)	Total (BDT)	Grand Total (BDT)	Method
	Fuel Analysis					
1	Solid fuels (Coal, biomass, municipal solid waste)					
	Heating/calorific Value (300 tk consumable)	7,750	1,163	8,913	68,197	ASTM D2015
	Proximate analysis (Ash content, Fixed Carbon, Volatile matter, moisture content), 500 tk consumable cost)	8,600	1,290	9,890		ASTM D3172
	Elemental/Ultimate analysis (C, H, N, S, O, Ash) (500 tk consumable cost)	10,750	1,613	12,363		ASTM D5373
	Sulfur	8,000	1,200	9,200		ASTM D3177
	Moisture Content	3,000	450	3,450		ASTM D3173
	Inherent Moisture	3,000	450	3,450		ASTM D1412
	Surface Moisture	3,000	450	3,450		ASTM D1412
	Volatile Matter (250 tk consumable)	3,250	488	3,738		ASTM D3175
	Fixed Carbon (250 tk consumable)	3,250	488	3,738		ASTM D3172
	Size Distribution	6,000	900	6,900		ASTM D4749
	Ash Content (200 tk consumable)	2,700	405	3,105		ASTM D3172
2	Liquid fuels (furnace oil, petrol, diesel, HFO, NG condensate, etc.)					
	Free Acid (value) / Free Base (value) (300 tk consumable)	7,000	1,050	7,475	188,458	ASTM D4809
	TAN/TBN (500 tk consumable)	9,675	1,451	10,350		ASTM D4809
	TAN and TBN Combined Package (1000 tk consumable)	14,000	2,100	14,950		ASTM D664
	Lower Heating Value (500 tk consumable)	10,750	1,613	12,363		ASTM D664
	ASTM color	1,500	225	1,725		ASTM D664
	ASTM Distillation	5,500	825	6,325		ASTM D 1500
	Copper strip corrosion (50 tk consumable)	3,250	488	3,738		ASTM D 130-94
	Reid vapor pressure	5,500	825	6,325		ASTM D 86
	Carbon Type (2000 tk consumable)	21,500	3,225	24,725		ASTM D130
	Aniline point (100 tk consumable)	3,000	450	3,450		ASTM D323
	Density	1,500	225	1,725		ASTM D1298
	Fire Point	3,000	450	3,450		ASTM D611
	Flash Point	3,000	450	3,450		ASTM D 1298
	Gross Heating or calorific Value (500 tk consumable)	8,000	1,200	9,200		ASTM D 97
	Pour Point	3,000	450	3,450		ASTM D 93
	pH	1,500	225	1,725		ASTM D1293
	Sulphur (500 tk consumable)	8,000	1,200	9,200		ASTM D 3177
	Carbon Residue (500 tk consumable)	8,000	1,200	9,200		ASTM D189
	Volatile Matter (250 tk consumable)	6,000	900	6,900		ASTM D 5142

	Fixed Carbon (250 tk consumable)	3,250	488	3,738		ASTM D 5142
	Ash Content (200 tk consumable)	2,700	405	3,105		ASTM D 5142
	Cetane Index/Number	6,000	900	6,900		ASTM D482
	Diesel Index (100 tk consumable)	6,000	900	6,900		ASTM D4737
	Sediment	3,250	488	3,738		ASTM D 1796
	Solid Particle	3,000	450	3,450		ASTM D1796
	Water	3,000	450	3,450		ASTM D1796
	Bottom sediment and Water (BSW)	5,500	825	6,325		ASTM D 1796
	Oil particle contamination	9,675	1,451	11,126		ASTM D6217
3	Gaseous fuels (NG, LPG, etc.)					
	Composition and Heating Value (1000 tk consumable)	21,500	3,225	24,725	24,725	Gas Chromatography
4	Engine oil, Needle oil, Transformer Oil, Knitting oil					ASTM D664
	Free Acid (value) / Free Base (value) (300 tk consumable)	7,000	1,050	8,050		ASTM D664
	TAN/TBN (500 tk consumable)	9,675	1,451	11,126		ASTM D664
	TAN and TBN Combined Package (1000 tk consumable)	14,000	2,100	16,100		ASTM D664
	Volatile Content (200 tk consumable)	5,650	848	6,498		ASTM D5142
	Ash Content (200 tk consumable)	2,700	405	3,105		ASTM D5142
	Sulphur (500 tk consumable)	8,000	1,200	9,200		ASTM D3227
	Viscosity at one temperature (200 tk consumable)	2,700	405	3,105		ASTM D88
	Viscosity Index (includes viscosity at 40°C and 100°C) (200 tk consumable)	7,000	1,050	8,050	94,272	ASTM D88
	ASTM color	1,500	225	1,725		ASTM D1500
	ASTM Distillation	5,500	825	6,325		ASTM D 86
	Copper strip corrosion	3,250	488	3,738		ASTM D130
	Density	1,500	225	1,725		ASTM D 1298
	Fire Point	3,000	450	3,450		ASTM D 97
	Flash Point	3,000	450	3,450		ASTM D93
	Pour Point	3,000	450	3,450		ASTM D97
	PH	1,500	225	1,725		ASTM D 1293
	Solid Particle	3,000	450	3,450		ASTM D1796
5	Rifle Grease (According to PX-11)	17,500	2,625	20,125	20,125	
6	Rifle oil (According to PX-11)	17,500	2,625	20,125	20,125	

ESTeX

Sl no.	Test Type	Sample Type	Test price (BDT) (per batch)	15% Vat (BDT)	Total Price (BDT)	Equipment/Methods / Relevant Standards
1		Soil, Textile Sludge (up to 30 elements*)	55,000	8,250	63,250	

2		Water Sample (up to 30 elements*)	32,500	4,875	37,375	
	Element Analysis					TXRF
3		Feed (Dairy, Poultry, Hatchery) and agricultural product samples (up to 30 elements*)	55,000	8,250	63,250	
4		Pesticides, Herbicides, Water, Soil and Sludge	32,500	4,875	37,375	GC-MS
	Analysis of chlorinated compounds, Volatile Organic Compounds (VOCs), Alcohols, Aldehydes, Esters, Ketones, Fatty Acids and their derivatives, Semi-volatile Aromatic Hydrocarbons (PAHs and PCBs)					
5	Analysis of Functional Groups	Plastics, Textile Pigments, Polymers, Coatings, Antioxidants, UV Stabilizers, Nutrients and Adulterants	2,150	323	2,473	FT-IR
6	PPE Testing: Mask Synthetic Blood Penetration		21,500	3,225	24,725	ASTM F1862, Resistance of Medical Face Masks to Penetration by Synthetic Blood
7	PPE Testing: Mask Bacterial Filtration Efficiency	N95 Mask, KN95 Mask, Surgical Mask	13,975	2,097	16,072	ASTM F2101 Standard, Test Method for, Evaluating the Bacterial, Filtration Efficiency (BFE) of Medical Face Mask Materials, Using a Biological Aerosol of <i>Staphylococcus</i>

8	Protective Clothing Viral Penetration Resistance	Disposable Medical Gowns, Coveralls (Level 1,2,3,4)	37,650	5,250	40,250	ASTM F1671/F1671M, Standard Test Method for Resistance of Materials used in Protective Clothing to Penetration by Blood-Borne Pathogens using Phi-X174 Bacteriophage
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Cost: 10% Distributable amount

***Table 1: List of elements for element analysis and detection of heavy metals using different excitation lines of the TXRF**

SL. No.	Excitation line	Elements
1	Molybdenum K α (MoK line)	Sodium
2		Magnesium
3		Aluminum
4		Silicon
5		Phosphorus
6		Sulphur
7		Chlorine
8		Argon
9		Potassium
10		Calcium
11		Scandium
12		Titanium
13		Vanadium
14		Chromium
15		Manganese
16		Iron
17		Cobalt
18		Nickel
19		Copper
20		Zinc
21		Gallium
22		Germanium
23		Arsenic
24		Selenium
25		Bromine
26		Krypton
27		Rubidium
28		Strontium
29		Yttrium
30		Zirconium
31		Niobium
32		Molybdenum

33		Technetium
34		Ruthenium
35		Rhodium
36		Palladium
37		Silver
38		Cadmium
39	Tungsten L α (W-White line)	Indium
40		Tin
41		Antimony
42		Tellurium
43		Iodine
44		Xenon
45		Cesium
46		Barium
47		Lanthanum
48		Hafnium
49	Tungsten L β (W-L line)	Tantalum
50		Tungsten
51		Rhenium
52		Osmium
53		Iridium
54		Platinum
55		Gold
56		Mercury
57		Thallium
58		Lead
59		Bismuth
60		Radium
61		Actinium
62	Bremsstrahlung	Cerium
63		Praseodymium
64		Neodymium
65		Promethium
66		Samarium
67		Europium
68		Gadolinium
69		Terbium
70		Dysprosium
71		Holmium
72		Erbium
73		Thulium
74		Ytterbium
75		Lutetium
76	Thorium	
77	Palladium	
78	Uranium	
79	Neptunium	
80	Plutonium	

**Paint /
Red
Oxide
Primer**

Sl. No.	Name of Test	Test Price (BDT)	VAT (15%) (BDT)	Total (BDT)	Grand Total (BDT)	Methods
1	Flash point	2,800	420	3,220	169,168	ASTM D 93
2	Viscosity	2,800	420	3,220		ASTM D 1200 (BS 3900), Ford Cup No.4
3	Drying time	6,000	900	6,900		ASTM D 5895, ASTM D 1640, BDS 1706:2015
4	Coverage	7,000	1,050	8,050		ASTM D 5895
5	VOC	7,000	1,050	8,050		ASTM D 5895, ASTM D 3960
6	Lead Content	7,000	1,050	8,050		AAS
7	Color	2,800	420	3,220		visual inspection
8	Gloss	3,250	488	3,738		BDS ISO 2814 (A), ASTM D 523
9	Specific Gravity	2,800	420	3,220		ASTM D189
10	Finish/Grind	3,250	488	3,738		BDS 1833.2018 (A-1.3), ASTM D 1210
11	Opacity*	3,250	488	3,738		ASTM D 2805, BDS ISO 2814 (A)
12	Wet Film Thickness*	10,750	1,613	12,363		BDS 1706:2015
13	Dry Film Thickness*	10,750	1,613	12,363		BDS 1706:2015
14	WFT+DFT*	16,150	2,423	18,573		BDS 1706:2015
15	Pot life of mixed paint*	5,000	750	5,750		BDS 1706:2015
16	Storage properties*	32,500	4,875	37,375		BDS 1706:2015
17	Color fastness and Resistance to chalking*	7,000	1,050	8,050		BDS 1706:2015
18	Acid soluble residue on sieve*	12,000	1,800	13,800		BDS 1706:2015
19	Water repellency	5,000	750	5,750		Inhouse Method
20	Sagging Test					ASTM D 4400
*Paint Prices are based on logistics supplied by Client						

**GC-
GCMS**

Sl. No.	Refrigerent	Test Price (BDT)	VAT (15%) (BDT)	Total (BDT)	Grand Total (BDT)	Equipment/Method Used
1	R-600 A	21,500	3,225	24,725	24,725	Gas chromatography/ GC-MS
2	R-290					
Sl. No.	Stake Analysis					
1	Particulate Matter	107,500	16,125	123,625	123,625	Isokinetic air sampler
2	Gaseous pollutant (SOx, NOx, CO, CO2)					
Sl. No.	Organic chemicals					
1	Methanol					
2	Ethanol					

3	Propanol					
4	Butanol					
5	Hexane					
6	Pentane					
7	Benzene					
8	Cyclohexane					
9	Benzene	21,500	3,225	24,725	24,725	Gas chromatography/ GC-MS
10	Toluene					
11	Xylene					
12	MTBE					
13	Acetone					
14	Acetaldehyde					
15	Methyl ethyl keton (MEK)					
16	Dimethyl ether (DME)					
17	Ethyl benzene					
18	Hexanone					
Sl. No.	LPG/NG					
1	Naptha	27,000	4,050	31,050	124,200	Gas chromatography
2	Natural Gas	27,000	4,050	31,050		
3	Condensate	27,000	4,050	31,050		
4	LPG	27,000	4,050	31,050		
Sl. No.	Edible oil					
1	Density/SG	1,500	225	1,725	85,388	ASTM D1298
2	Moisture	3,000	450	3,450		ASTM D3173
3	Peroxide value	6,500	975	7,475		Titrimetric
4	Saponication value	6,500	975	7,475		Titrimetric
5	Free fatty acid	6,500	975	7,475		Titrimetric
6	Acid value	6,500	975	7,475		Titrimetric
7	Iodine value	7,500	1,125	8,625		Titrimetric
8	Isoluble impurities	7,000	1,050	8,050		Gravimetric
9	Trace elemental analysis	21,500	3,225	24,725		TXRF/AAS
10	Flash point	3,000	450	3,450		ASTM D93
11	Refractive index	3,250	488	3,738		Refractometric
12	Color	1,500	225	1,725		Visual inspection

Customs

Sl. No.	Name of Test	Test Price (BDT)	VAT (15%) (BDT)	Total (BDT)	Grand Total (BDT)	Methods
Chemical Analysis						
1	Refrigerant gas Composition	21,500	3,225	24,725	24,725	GC
2	Nonportland cement mixture Silica (SiO ₂) Lime (CaO) Alumina (Al ₂ O ₃) Magnesium Oxide (Mgo) Sulferous compound (SO ₃)	7,000 7,000 7,000 7,000 7,000	1,050 1,050 1,050 1,050 1,050	8,050 8,050 8,050 8,050 8,050	40,250	ASTM C114

3	Eterac 7331-1-XS-70 (Acrylic Polyol Polyurethane Coating) Color Solid content Acid value Solubility in water Flash point Relative density	21,500	3,225	24,725	24,725	Visual Inspection, ASTM D 1298, ASTM D93, ASTM D5142
4	Potassium Methyl Siliconate Potassium (K) Particle density Solid content pH	21,500	3,225	24,725	24,725	Flame Photometric, ASTM D1298, ASTM D3173
5	Fire bricks Silica (SiO ₂) Alumina (Al ₂ O ₃) Calcium Oxide (CaO) Sulfur trioxide (SO ₃) Iron oxide (Fe ₂ O ₃)	7,000 7,000 7,000 7,000 7,000	1,050 1,050 1,050 1,050 1,050	8,050 8,050 8,050 8,050 8,050	40,250	ASTM C114
6	Glucose/Starch Refractive index of glucose, solubility in hot water, cold water and alcohol pH Specific Gravity Melting Point Flammability Sulphate (SO ₄ 2-) Sodium	9,675 1,500 1,500 6,500 2,150 7,000 5,000	1,451 225 225 975 323 1,050 750	11,126 1,725 1,725 7,475 2,473 8,050 5,750	38,324	Refractometric, ASTM D1298, ASTM D1293, Flame Photometric, Spectrophotometric
7	Soda ash light or disodium carbonate Sodium carbonate Loss on drying Density	21,500	3,225	24,725	24,725	ASTM D1298, ASTM D3173, Titrimetric
8	Lubricating oil/Base oil/ Mineral oil Mineral Oil additives Flash Point Viscosity Density	21,500	3,225	24,725	24,725	ASTM D 1298, ASTM D 5142, ASTM D88, ASTM D93
9	Stone Chip/ Basalt / clay Appearance Size Shape Aggregate form	21,500	3,225	24,725	24,725	Visual Inspection, ASTM C 136, ASTM C 939
10	Micronutrient Premix B Vitamins Minerals Fe Ca Mg	21,500	3,225	24,725	24,725	Titration, Spectrophotometric

	Dolomite Powder (CaMg(CO3)2)					
11	Calcium (Ca) Magnesium (Mg)	21,500	3,225	24,725	24,725	ASTM C114
	BONDEX/Emulsion of acrylic Polymeric water					
12	Acrylic Polymer resin Moisture	21,500	3,225	24,725	24,725	ASTM D 3173
	Silica Sand/Sand C-778/Silica quartz					
13	Silica (SiO2) SO3 2- Loss of ignition	21,500	3,225	24,725	24,725	ASTM C114
	Sodium bicarbonate					
14	Sodium bicarbonate	7,000	1,050	8,050	8,050	Titrimetric
	Sodium (SBS) (NaHSO3)					
15	SO2, SO3 2- pH	21,500	3,225	24,725	24,725	ASTM D1293, Titrimetric
	Filler Master Batch (Black Color Masterbatch)					
16	Carbon black Melting Point Stability temperature Density	21,500	3,225	24,725	24,725	ASTM D1298, ASTM D1603
	Common Salt/Table salt					
17	Sodium Chloride Density Melting Point Boiling Point	21,500	3,225	24,725	24,725	AAS, ASTM D1298
	Azo dye Carbonamite					
18	Conformity test Con of Azo dye Al2O3 Cl	7,000 7,000 7,000 7,000	1,050 1,050 1,050 1,050	8,050 8,050 8,050 8,050	32,200	AAS, Titration, Raman Spectroscopy, Spectrophotometric
	DMI 65 Water Filtration media					
19	bulk density SG Chemical contents SiO2 Mn2O3 CaCO3	1,500 1,500 7,000 7,000 7,000	225 225 1,050 1,050 1,050	1,725 1,725 8,050 8,050 8,050	27,600	ASTM C114, ASTM C25, Gravimetric
	Compound Plasticizer					
20	Color SG Loss on drying Refractive index Acidity Ester content	21,500	3,225	24,725	24,725	Visual Inspection, Refractometric, Titrimetric, ASTM C494, Gravimetric
21	Na2SO4 Conc (%)	7,000	1,050	8,050	8,050	Titrimetric
	Beta carotene					
22	Solubility in water					

(Dept of Chemical Engg reserves the right to change the rates at any time without any prior notice)

22	Cyclohexane thermal decomposition on drying Bulk density	21,500	3,225	24,725	24,725	FTIR, Gravimetric
23	Microcapsule blue					
	Solid content					
	pH					
	Viscosity	21,500	3,225	24,725	24,725	Gravimetric, ASTM D1293, ASTM D88, ASTM D1298
	SG					
	Solubility in water Solubility in organic solvent					
24	Textile finishing agent					
	Solubility in water, Solubility in organic solvent					
	Density	21,500	3,225	24,725	24,725	Gravimetric, ASTM D1298, ASTM D3173
	Moisture					
	Organic and inorganic content					
25	Ethyl-vinyl acetate					
	Organic and inorganic materials	21,500	3,225	24,725	24,725	ASTM D3172
	Melting point					
26	Sulfur					
	Insoluble Residue					
	Solubility in CS ₂	21,500	3,225	24,725	24,725	Gravimetric, ASTM D3173, ASTM D3172
	Moisture content					
	S content					
27	Limestone					
	CaO content	7,000	1,050	8,050	40,250	ASTM C25
	SiO ₂	7,000	1,050	8,050		
	IR	7,000	1,050	8,050		
	MgO	7,000	1,050	8,050		
	LOI	7,000	1,050	8,050		
28	K₂SiO₃					
	SG	1,500	225	1,725	27,025	ASTM D88, ASTM D1298, Gravimetric, AAS
	Viscosity	3,000	450	3,450		
	Insoluble matter	7,000	1,050	8,050		
	K ₂ SiO ₃	7,000	1,050	8,050		
	Sodium content	5,000	750	5,750		
29	Bentonite powder sample					
	Gel time					
	Liquid limit	21,500	3,225	24,725	24,725	IS 12446-1988
	Swelling index					
30	Lubricating oil					
	Mineral base oil content					
	Flash point	21,500	3,225	24,725	24,725	ASTM D 88, ASTM D 93
	Viscosity and Viscosity Index					
31	Color speckle					
	Na ₂ CO ₃					
	NaCl	21,500	3,225	24,725	24,725	Titrimetric, AAS
	Na ₂ SO ₄					
	Binding materials					
	Aluminum Sulphate (Alum)					

32	Water solubility	3,000	450	3,450	38,640	ASTM C 2598, Visual Inspection, ASTM D1293
	Aluminum compound (Al ₂ O ₃)	7,000	1,050	8,050		
	Iron compound as Fe ₂ O ₃	7,000	1,050	8,050		
	Water soluble iron compound as Fe	7,000	1,050	8,050		
	Insoluble matter	7,000	1,050	8,050		
	pH	1,500	225	1,725		
	Color	1,100	165	1,265		
33	Floor hardener				32,200	ASTM C114
	Silica	7,000	1,050	8,050		
	Alumina	7,000	1,050	8,050		
	Iron oxide	7,000	1,050	8,050		
	Calcium oxide	7,000	1,050	8,050		
34	Hydraulic oil				3,450	ASTM D 88
	Kinematic viscosity @ 400C	3,000	450	3,450		
35	HSD (high speed diesel)				64,026	AAS, ASTM D 1298, ASTM D 1796, ASTM D 3177
	Density @ 15	1,500	225	1,725		
	Ash (200 tk consumable cost)	3,000	450	3,450		
	Carbon residue (500 tk consumable cost)	8,000	1,200	9,200		
	Total Sulphur (500 tk consumable cost)	8,000	1,200	9,200		
	Sediment	3,000	450	3,450		
	Water content	3,000	450	3,450		
	Particle contamination	3,000	450	3,450		
	Total of sodium (Na)+ Potassium (K)	9,675	1,451	11,126		
	Calcium	7,000	1,050	8,050		
	Lead	7,500	1,125	8,625		
Zinc	2,000	300	2,300			
36	Tri Sodium Phosphate				24,725	Spectrophotometric
	Purity	21,500	3,225	24,725		
	Phosphate (%) and Na ion					
37	Organoleptic				24,725	Visual Inspection, Turbidity meter, Extraction/Distillation
	Color					
	Turbidity	21,500	3,225	24,725		
	Odor Ethanol					
38	Nickel Acid				24,725	Titrimetric, Spectrophotometric
	Formic acid	21,500	3,225	24,725		
	Nickel Sulphate Spectrophotometric					
39	Stove Test				86,538	ISO 19867
	Thermal efficiency					
	Safety	75,250	11,288	86,538		
	Emission and IAP Test					
40	Acetic Acid				8,050	Titrimetric
	% of acetic acid Titrimetric	7,000	1,050	8,050		
41	Hydrotreating catalyst				40,538	BET, AAS, ASTM C25
	Surface Area	3,250	488	3,738		
	Pore volume	1,500	225	1,725		
	Bulk density	1,500	225	1,725		
	CaO	7,000	1,050	8,050		
	MoO ₃	7,000	1,050	8,050		
	S	8,000	1,200	9,200		

	CI	7,000	1,050	8,050		
42	Paint Thinner					
	VOC (250 tk consumable cost)	21,500	3,225	24,725	41,573	ASTM D 5142, ASTM D 1298, GC/GC-MS
	Density	1,500	225	1,725		
	Boiling Point	2,150	323	2,473		
	Flash Point	3,000	450	3,450		
	Sulfur content (500 tk consumable cost)	8,000	1,200	9,200		
43	Dosing Chemicals					
	Scale and Corrosion Inhibitor	10,750	1,613	12,363	20,413	Titrametric
	Chelation Value	7,000	1,050	8,050		
44	Soil					
	Bulk Density	1,500	225	1,725	21,850	Gravimetric
	Particle Density	1,500	225	1,725		
	Chemical Resistance	5,000	750	5,750		
	Uniformity Coefficient	5,000	750	5,750		
	Mesh Analysis	6,000	900	6,900		
45	Liquid Poly Aluminium Chloride (PAC)					
	Appearance	1,100	165	1,265	38,928	Colorimetric, Gravimetric, ASTM C 2598, Spectrophotometric
	pH	1,500	225	1,725		
	SO4 2-	7,000	1,050	8,050		
	Al2O3	7,000	1,050	8,050		
	Basicity (total alkalinity)	1,100	165	1,265		
	Iron as Fe	7,000	1,050	8,050		
	Arsenic	2,150	323	2,473		
	IR	7,000	1,050	8,050		
46	Water Wash detergent for compressor					
	pH				24,725	ASTM D1293
	SG	21,500	3,225	24,725		
	Emulsion stability					
47	Printing Ink					
	Appearance	1,100	165	1,265	25,415	ASTM D3172, ASTM D 5895, ASTM D1293, ASTM D1298, Visual Inspection
	Dry material content	3,000	450	3,450		
	Surface coating on fabric	5,000	750	5,750		
	Surface coating on paper	5,000	750	5,750		
	Surface coating on metal	5,000	750	5,750		
	pH	1,500	225	1,725		
	Density	1,500	225	1,725		