

PWD SCHEDULE OF RATES 2022 (2nd REVISED)

PART A: CIVIL WORKS

SIXTEENTH EDITION (2nd REVISED)

PUBLIC WORKS DEPARTMENT

GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH

EFFECTIVE FROM 22 JANUARY 2026

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
ব্যয় ব্যবস্থাপনা অনুবিভাগ
ব্যয় ব্যবস্থাপনা শাখা-৫
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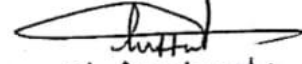
নং-০৭.০০.০০০০.০০০.১৫৫.১৫.২৬.০১.২৬-১৩

তারিখঃ ২৪ পৌষ ১৪৩২ বঃ
০৮ জানুয়ারি ২০২৬ খ্রিঃ

বিষয়ঃ- জাতীয় রাজস্ব বোর্ড কর্তৃক ২০২৫-২৬ অর্থবছরে মূল্য সংযোজন কর (ভ্যাট) ৭.৫০% এর পরিবর্তে ১০% নির্ধারণের ফলে সিডিউল অব রেটস এর আইটেমসমূহের ভ্যাটের মূল্য সমন্বয়করণ সংক্রান্ত।

সূত্রঃ- গৃহায়ন ও গণপূর্ত মন্ত্রণালয়ের স্মারক নং-২৫.০০.০০০০.০৩১.১৪.০০৩.২২-৫৯ তারিখ:-১৫/১২/২০২৫

উপর্যুক্ত বিষয় ও সূত্রোক্ত পত্রের পরিপ্রেক্ষিতে নির্দেশক্রমে জানানো যাচ্ছে যে, জাতীয় রাজস্ব বোর্ড কর্তৃক সিডিউল অব রেটস এর আইটেমসমূহের (মূল্য সংযোজন কর (ভ্যাট) মূল্য সমন্বয়ের বিষয়ে ইতঃপূর্বে অর্থ বিভাগ হতে অনুমোদিত বিভিন্ন দপ্তরের দর তফসিল অনুসরণপূর্বক জাতীয় রাজস্ব বোর্ড এর এস.আর.ও নম্বর ১৮২-আইন/২০২৫/৩১০-মুসক, তারিখ: ২৭/০৫/২০২৫ এর মাধ্যমে ২০২৫-২৬ অর্থবছর নির্মাণ সংস্থা এর ক্ষেত্রে মূল্য সংযোজন কর ৭.৫০% হতে উন্নীত করে ১০% হিসেবে প্রযোজ্য হবে।



০৮/০১/২০২৬
(কাজী লুতফুল হাসান)

উপসচিব

ফোন:-০২-২২৩৩৫৬০৩৭

ই-মেইল: lutful8082@gmail.com

সচিব

গৃহায়ন ও গণপূর্ত মন্ত্রণালয়
বাংলাদেশ সচিবালয়, ঢাকা।

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

গৃহায়ন ও গণপূর্ত মন্ত্রণালয়

পরিকল্পনা ও উন্নয়ন শাখা-৩

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স্মারক নং-২৫.০০.০০০০.০৩১.১৪.০০৩.২২/০২৪

তারিখ: ০৮ মাঘ ১৪৩২
২২ জানুয়ারি ২০২৬

বিষয়ঃ জাতীয় রাজস্ব বোর্ড কর্তৃক ২০২৫-২৬ অর্থবছরে মূল্য সংযোজন কর (ভ্যাট) ৭.৫০% এর পরিবর্তে ১০% নির্ধারণের ফলে সিডিউল অব রেটস এর আইটেমসমূহের ভ্যাটের মূল্য সমন্বয়করণ।

সূত্র: অর্থ বিভাগের স্মারক নং- ০৭.০০.০০০০.০০০.১৫৫.১৫.২৬.০১.২৬-১৩ তারিখ: ০৮ জানুয়ারি ২০২৬

উপর্যুক্ত বিষয় ও সূত্রস্থ পত্রের পরিপ্রেক্ষিতে নির্দেশক্রমে জানানো যাচ্ছে যে, জাতীয় রাজস্ব বোর্ড কর্তৃক সিডিউল অব রেটস এর আইটেমসমূহের (মূল্য সংযোজন কর (ভ্যাট) মূল্য সমন্বয়ের বিষয়ে ইতঃপূর্বে অর্থ বিভাগ হতে অনুমোদিত বিভিন্ন দপ্তরের দর তফসিল অনুসরণপূর্বক জাতীয় রাজস্ব বোর্ড এর এস.আর.ও নম্বর ১৮২-আইন/২০২৫/৩১০-মুসক, তারিখ: ২৭/০৫/২০২৫ এর মাধ্যমে ২০২৫-২৬ অর্থবছর নির্মাণ সংস্থা এর ক্ষেত্রে মূল্য সংযোজন কর ৭.৫০% হতে উন্নীত করে ১০% হিসেবে প্রযোজ্য হবে মর্মে অর্থ বিভাগের সম্মতি পাওয়া গিয়েছে।

সংযুক্তি: সূত্রস্থ স্মারকপত্র ০১ (এক) পাতা।


(মোঃ নাজমুল আলম)
উপসচিব
ফোনঃ ০২-৯৫১২২০৭

প্রধান প্রকৌশলী
গণপূর্ত অধিদপ্তর
পূর্ত ভবন, সেগুনবাগিচা
ঢাকা।

অনুলিপিঃ(জ্যেষ্ঠতার ভিত্তিতে নয়)

১. সচিব, অর্থ বিভাগ, অর্থ মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা।
২. অতিরিক্ত সচিব (পরিকল্পনা ও উন্নয়ন অনুবিভাগ), গৃহায়ন ও গণপূর্ত মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা।
৩. সচিব মহোদয়ের একান্ত সচিব, গৃহায়ন ও গণপূর্ত মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা (সচিব মহোদয়ের সময় অবগতির জন্য)।
৪. অফিস কপি/মাষ্টার কপি

ENDORSEMENT

The sixteenth edition (2nd Revised) of PWD Schedule of Rates 2022 Part A: Civil Works, approved by the Ministry of Finance, Government of the People's Republic of Bangladesh (GoB) vide memo no. 07.00.0000.000.155.15.26.01.26-13; dated: 08/01/2026 and duly endorsed by the Ministry of Housing and Public Works, GoB vide memo no. 25.00.0000.031.14.003.22/124; dated: 22/01/2026, is hereby endorsed by the undersigned for official use in Public Works Department (PWD), Bangladesh with effect from 22 January 2026.



Md Khalequezzaman Choudhury
Chief Engineer
Public Works Department

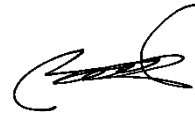
PREFACE

The sixteenth edition (2nd Revised) of PWD Schedule of Rates (SoR) 2022 is the revised and updated edition replacing the previous edition of 2022 (Revised). The sixteenth edition (Revised) of Schedule of Rates has been in effect since 23 February 2023. This edition of schedule of rates shall be effective from 22 January 2026.

The Value Added Tax (VAT) rate has been updated to 10% from the previous rate of 7.5%, in accordance with the Statutory Regulatory Order (SRO) no 182-Law/2025/310-VAT; dated: 27/05/2025 issued in the form of gazettee by the National Board of Revenue (NBR). This change in VAT has been endorsed for implementation by the Ministry of Finance vide memo no: 07.00.0000.000.155.15.26.01.26-13; dated: 08/01/2026. Then the Ministry of Housing and Public Works duly endorsed this vide memo no. 25.00.0000.031.14.003.22/124; dated: 22/01/2026. Necessary adjustments have been made in the rates to reflect this change.

This edition of the SoR has the consent by the Ministry of Finance. All efforts have been taken to keep this publication free from errors. Constructive suggestions are welcome for any necessary correction, modification or issuance of corrigendum, if required.

Preparation, updating and publication of the Schedule of Rates is a mammoth task, which has been accomplished through the sincere and relentless efforts of the members of the Schedule of Rates Preparation Committee. I would like to express my sincere gratitude to all concerned engineers and officers for their valuable cooperation, suggestions and constructive feedback.



Md. Shamsuddoha

Convenor

PWD Schedule of Rates Preparation Committee

&

Additional Chief Engineer (Planning & Special Project)

Public Works Department

25 January 2026
Purta Bhaban
Segun Bagicha, Dhaka

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CONVERSION TABLE

FPS AND METRIC SYSTEM

(TABLE – 1 TO 3)

TABLE – 1

FPS	METRIC	METRIC	FPS
1 inch	25.40 mm = 2.54 cm	1 mm	0.03937 inch
1 feet	30.48 cm = 0.3048 m	1 meter	3.281 ft
1 mile	1.609 km	1 km	0.6214 mile
1 gallon (UK)	4.546 liter	1 liter	0.22 gallon (UK)
1 pound	0. 4536 kg	1 kg	2.205 lb
1 seer	0.9331 kg	1 kg	1.072 seer
1 maund	37.324 kg	1 kg	85.74 tolas
1 ton	1.016 tonne	1 tonne	0.984 ton = 1000 kg.
1 cwt. (UK)	0.508 quintal	1 quintal	1.969 cwt (UK)
1 in ²	6.452 cm ²	1 cm ²	0.155 in ²
1 ft ²	0.093 m ²	1 m ²	10.764 ft ²

TABLE – 2

	CONVERSION FACTOR			CONVERSION FACTOR			Remarks
	British (FPS)	Metric	SI	SI	Metric	British (FPS)	
Length	1 in 1 ft 1 yd 1 mile 1 nautical mile	25.4 mm 0.3048 m 0.9144 m 1.609 km 1.852 km	25.4 mm 0.3048 m 0.9144 m 1.609 km 1.852 km	1 mm 1 cm 1 m 1 km 1 km	1 mm 1 cm 1 m 1 km 1 km	0.03937 in 0.3937 in 3.281 ft 0.6214 mi 0.5399 nautical mile	1 in = 2.54 cm
Area	1 in ² 1 ft ² 1 yd ² 1 mi ² acre	6.452 cm ² 0.0929 m ² 0.8361 m ² 2.59 km ² 0.4047 ha	6.452 cm ² 0.0929 m ² 0.8361 m ² 2.59 km ² 0.4047 ha	1 cm ² 1 m ² 1 m ² 1 km ² 1 ha	1 cm ² 1 m ² 1 m ² 1 km ² 1 ha	0.155 in ² 10.764 ft ² 1.196 yd ² 0.3861 mi ² 2.471 acre	1 in ² = 645.2 mm ² 1 acre = 43560 ft ² = 4047m ² 1 km ² = 247.105 acres 1 hectre = 10000 m ²
Volume	1 in ³ 1 ft ³ 1 yd ³ 1 gal (UK) 1 gal (US)	16.387 cm ³ 0.02832 m ³ 0.7648 m ³ 4.546 liters 3.7854 liters	16.387 cm ³ 0.02832 m ³ 0.7648 m ³ 4.546 liters 3.7854 liters	1 cm ³ 1 m ³ 1 m ³ 1 liter 1 liter	1 cm ³ 1 m ³ 1 m ³ 1 liter 1 liter	0.061 in ³ 35.315 ft ³ 1.308 yd ³ 0.22 gal (UK) 0.264 gal (US)	1 ft ³ = 6.23901 gal = 28.316 liters 1 bushel (imperial) = 36.37 liters
Moment of Inertia	1 in ⁴ 1 ft ⁴	41.623 cm ⁴ 0.008631 m ⁴	41.623 cm ⁴ 0.008631 m ⁴	1 cm ⁴ 1 m ⁴	1 cm ⁴ 1 m ⁴	0.024 in ⁴ 115.86 ft ⁴	
Power, Work, Energy, Quantity of heat	1 hp 1 btu	0.7457 kw 1.055 kilo joules	0.7457 kw 1.055 kilo joules	1 kw 1 kj 1 kcl	1 kw 1 kj 1 kcl	1.341 hp 0.9478 btu 3.9651 btu	1 J = 1 Nm 1 hp = 1.01387 metric hp = 550 ft-lb/sec 1 W = 1 J/sec

Miscellaneous Units:

1 great gross = 12 gross = 144 dozen
 1 quire= 24 sheets
 1 gross =12 dozen = 144 units
 1 ream = 20 quires = 480 sheets
 1 dozen = 12 units
 1 ream printing paper = 500 sheets
 1 score = 20 units

TABLE – 3

	CONVERSION FACTOR			CONVERSION FACTOR			Remarks
	British (FPS)	Metric	SI	SI	Metric	British (FPS)	
Mass	1 gr 1 oz (avoir) 1 lb (avoir)	0.0648 gm 28.349 gm 0.4536 kg	0.0648 gm 28.349 gm 0.4536 kg	1 gm 1 gm 1 kg	1 gm 1 gm 1 kg	15.432 gr 0.0353 oz 2.205 lbs	1 lb = 0.486 seer 1 kg = 1.072 seer = 85.74 tolas
Conc. load/force, mass, weight	1 lb 1 kip 1 ton 1 cwt	0.4536 kg 453.6 kg 1.016 tonne (1016 kg) 50.80 kg	4.4482 N 4.4482 kN 9.964 kN 0.4982 kN	 1 N 1 kN 1 kN	 0.102 kg 101.96 kg 101.96 kg	0.2248 lb 224.81 lb 2.007 cwt	1 kg = 2.2046 lb = 9.807 N 1 tonne = 10 quintal = 1000 kg = 26.7923 maund 1 kg = 0.01968 cwt 1 ton = 2200 lb = 907.2 kg
Linear loads (load per unit length)	1 lb/in 1 lb/ft 1 kip/ft 1 ton/ft	0.01786 kg/mm 1.488 kg/m 1488.19 kg/m 3.333 tonne/m	0.17512 N/mm 0.0146 kN/m 14.5939 kN/m 32.69 kN/m	1 N/mm 1 kN/m 1 kN/m	0.102 kg/mm 101.96 kg/m 0.102 tonne/m	5.71 lb/in 68.52lb/ft 0.031 ton/ft	1 kg/m = 9.80 N/m = 0.672 lb/ft.
Surface loads (load per unit area)	1 lb/in ² 1 lb/ft ² 1 kip/ft ² 1 ton/ft ²	0.0703 kg/cm ² 4.883 kg/m ² 4883 kg/m ² 10.937 tonne /m ²	6.895 kN/m ² 0.04788 kN/m ² 47.8803 kN/m ² 107.14 kN/m ²	1 MN/m ² 1 kN/m ² 1 kN/m ²	101972.6 kg/m ² 101.97 kg/m ² 0.102 tonne/m ²	145.038 lb/in ² 20.885 lb/ft ² 0.00933 ton/ft ²	1 kg /cm ² = 2048.16lb/ft ² 1 kg/cm ² = 0.968 atom 1 kg/m ² = 0.205 lb/ft ²
Density (unit weight)	1 lb/in ³ 1 lb/ft ³ 1 ton/ft ³	0.0000277 kg/mm ³ 16.02 kg/m ³ 35.88 tonne/m ³	0.00027N/mm ³ 0.1572 kN/m ³ 352.08 kN/m ³	1 N/mm ³ 1 kN/m ³ 1 kN/m ³	0.1021 kg/mm ³ 101.92 kg/m ³ 0.102 tonne/m ³	3703.70 lb/in ³ 6.361 lb/ft ³ 0.0028 ton/ft ³	1 kg/m ³ = 0.0624 lb/ft ³
Stress, modulus of elasticity, pressure	1 lb/in ² 1 kip/in ² 1 lb/ft ²	0.0703 kg/cm ² 70.3078 kg/cm ² 4.883 kg/m ²	6.895 kPa 6.895 mPa 47.8802 Pa	1 mPa 1 kPa	10.19 kg/cm ² 101.97 kg/m ²	145.038 lb/in ² 20.885 lb/ft ²	MPa = MN/m ² = N/mm ² = 1000 kN/m ² 1 Pa = 1N/m ² 1 kN = 224.809 lbs 1 kg/cm ² = 14.223 lb/in ² 1 ft. of water = 2.989 kPa
Moment/ Torque	1 lb-in 1 lb-ft 1 kip-ft 1 ton-ft	11.5214 kg-mm 0.1383 kg-m 138.3 kg-m 0.31 tonne-m	112.98 N-mm 1.3558 N-m 1.3558 kN-m 3.037 kN-m	1 N-mm 1 N-m 1 kN-m	0.102 kg-mm 0.102 kg-m 0.102 tonne-m	0.0088lb-in 0.738 lb-ft 0.3293 ton-ft	
Velocity/ Speed	1 ft/sec 1 mile/sec 1 mile/hr	0.3048 m/sec 1.609 km/sec 0.4470 m/sec	0.3048 m/sec 1.609 km/sec 0.4470 m/sec	1 m/sec 1 km/sec	1 m/sec 1 km/sec	3.281 ft/sec 2236.94 mi/hr	
Acceleration	1 ft/sec ²	0.3048 m/sec ²	0.3048 m/sec ²	1 m/sec ²	1 m/sec ²	3.281 ft/sec ²	
Temperature (Celsius)	1 degree Fahrenheit (°F) = (t°-32)/1.8 degree Celsius (°C)						

UNIT WEIGHT OF DIFFERENT ENGINEERING MATERIALS AND WEIGHT OF DIFFERENT STEEL SECTIONS (TABLE – 4 TO 8)

TABLE – 4
UNIT WEIGHT OF ENGINEERING MATERIALS

Unit Weight of Different Materials			Unit Weight of M.S. Flat Bars**			
Materials	Unit weight		Size		Weight	
	lb/cft	kg/cum	inch	mm*	lb/rft	kg/meter
Asphalt	66	1057	¾ x 1/8	20 x 3	0.32	0.471
Aluminium	165	2643	¾ x 3/16	20 x 5	0.48	0.785
Bamboo	25	400	¾ x ¼	20 x 6	0.64	0.942
Bitumen	65	1040	1 x 1/8	25 x 3	0.43	0.589
Brass	534	8552	1 x 3/16	25 x 5	0.64	0.981
Bricks	69	1110	1 x ¼	25 x 6	0.85	1.178
Brick ballast	60-70	960-1120	1 ¼ x 1/8	30 x 3	0.53	0.707
Brick chips	80-110	1280-1760	1 ¼ x 3/16	30 x 5	0.80	1.178
Brick work	120	1922	1 ¼ x ¼	30 x 6	1.06	1.413
Cast iron	450	7207	1 ½ x 1/8	40 x 3	0.64	0.942
Cement	90	1440	1 ½ x 3/16	40 x 5	0.96	1.570
Cement concrete	140	2240	1 ½ x ¼	40 x 6	1.28	1.884
Clay (dry to wet)	115-130	1840-2080	2 x 3/3/16	50 x 5	1.28	1.9625
Coal (loose)	50	800	2 x ¼	50 x 6	1.70	2.335
Copper	556	8905	UNIT WEIGHT OF M.S. SOLID SQUARE BARS			
			Size		Weight	
			inch	mm*	lb/rft	kg/meter
Earth (compacted & damp)	100	1600				
Earth (dry & loose)	90	1440				
Garjan timber	45-50	720-800	½ x ½	12 x 12	0.851	1.130
Gravel	90	1440	¾ x ¾	20 x 20	1.914	3.140
Lead	710	11371	1 x 1	25 x 25	3.403	4.906
Lime concrete	120	1920	UNIT WEIGHT OF M.S. Z-SECTION			
			Size		Weight	
			inch	mm*	lb/rft	kg/meter
Lime (slaked to fresh)	40-60	640-960				
Lime stone	150	2400				
Macadam (tar)	140	2242	¾ x ¾ x ¾ x 1/8	20 x 20 x 20 x 3	0.851	1.272
Marble	169	2707	¾ x ¾ x ¾ x 3/16	20 x 20 x 5	1.196	1.963
Mild steel	490	7850	1 x 1 x 1/8	25 x 25 x 3	1.170	1.625
Pebbles	90	1440	1 x 1 x 3/16	25 x 25 x 5	1.675	2.551
Plain concrete	144	2300	UNIT WEIGHT OF M.S. ANGLE			
			Size		Weight	
			inch	mm*	lb/rft	kg/meter
Reinforced cement concrete	150	2400				
Sal wood	60-65	960-1040				
Sand (dry to wet)	100-120	1600-1920	¾ x ¾ x 1/8	20 x 20 x 3	0.585	0.871
Shingles	90	1440	¾ x ¾ x 3/16	20 x 20 x 5	0.837	1.374
Silver	656	10506	¾ x ¾ x ¼	20 x 20 x 6	1.063	1.601
Stone ballast	100	1600	1 x 1 x 1/8	25 x 25 x 3	0.798	1.107
Sundari wood	55-65	880-1040	1 x 1 x 3/16	25 x 25 x 5	1.156	1.766
Surki	80	1280	1 x 1 x ¼	25 x 25 x 6	1.489	2.072
Surki mortar	85-120	1360-1920	1 ½ x 1 ½ x 1/8	40 x 40 x 3	1.223	1.813
Tar	90	1440	1 ½ x 1 ½ x 3/16	40 x 40 x 5	1.794	2.944
Teak wood	45-55	720-880	1 ½ x 1 ½ x ¼	40 x 40 x 6	2.339	3.485
Water at 40 C	62.45	1000	2 x 2 x 3/16	50 x 50 x 5	2.432	3.729
Wrought iron	480	7688	2 x 2 x ¼	20 x 20 x 6	3.190	4.427
			2 ½ x 2 ½ x ¼	65 x 65 x 6	4.041	5.840
			3 x 3 x ¼	75 x 75 x 6	4.891	6.782
			3 x 3 x 5/16	75 x 75 x 8	6.048	8.918

** Unit weight with respect to FPS measurements of materials

* Measurements in soft conversion

TABLE – 5

WEIGHT OF M.S. TEES PER RFT							
Size in inch	Weight in lbs.	Size in inch	Weight in lbs.	Size in inch	Weight in lbs.	Size in inch	Weight in lbs.
1 x 1 x 1/8	0.81	1 ½ x 1 ½ x ¼	2.35	2 ¼ x 2 ¼ x ¼	3.64	3 x 3 x 3/8	7.20
1 x 1 x ¼	1.54	1 ¾ x 1 ¾ x ¼	2.79	2 ½ x 2 ½ x ¼	4.07	3 x 3 x ½	9.38
1 ¼ x 1 ¼ x 3/16	1.50	1 ¾ x 1 ¾ x 3/16	2.11	2 ½ x 2 ½ x 5/16	5.00	3 ½ x 3 ½ x 3/8	8.49
1 ¼ x 1 ¼ x ¼	1.88	2 x 2 x ¼	3.21	2 ½ x 2 ½ x 3/8	5.92	3 ½ x 3 ½ x ½	11.08
1 ½ x 1 ½ x 3/16	1.81	2 x 2 x 3/8	4.64	3 x 3 x ¼	4.91		

TABLE – 6

WEIGHT OF M.S SHEET/PLATE PER SFT							
Thickness in BWG	Weight in lbs.	Thickness in inch	Weight in lbs.	Thickness in inch	Weight in lbs.	Thickness in inch	Weight in lbs.
24	1.01	1/16	2.55	5/16	12.75	5/8	25.50
22	1.27	1/8	5.10	3/8	15.30	3/4	30.60
20	1.59	3/16	7.65	7/16	17.85	7/8	35.70
18	2.04	1/4	10.20	1/2	20.40	1	40.80

TABLE – 7**CROSS-SECTIONAL AREA AND MASS OF ROUND BAR¹**

Nominal Size (dia in mm)	Bar No.	Cross-sectional area in mm ²	Perimeter in mm	Mass per running meter in kg	Length per 100 kg in meter
4		12.6	12.7	0.099	1010.10
5		19.6	15.71	0.154	644.35
6	2	28.3	18.85	0.222	450.45
7		38.5	21.99	0.302	331.12
8		50.3	25.13	0.395	253.16
10	3	78.5	31.42	0.616	162.34
12	4	113.0	37.70	0.888	112.61
16	5	201.0	50.27	1.579	63.33
20	6	314.0	62.83	2.466	40.55
22	7	380.0	69.11	2.980	33.56
25	8	491.0	78.54	3.854	25.95
28	9	616.0	87.96	4.830	20.70
32	10	804.0	100.53	6.313	15.8
40		1257.0	125.66	9.864	10.14

¹BDS 1313: 1991

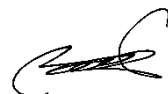



TABLE – 8
WIRE AND SHEET METAL GAUGES IN DECIMALS OF AN INCH

Name of Gauge	United States Standard Gauge		United States Steel Wire Gauge	American or Brown & Sharpe Wire Gauge	New Birmingham Standard Sheet & Hoop Gauge	British Imperial or English Legal Standard Wire Gauge (SWG)	Birmingham or Stubbs Iron Wire Gauge (BWG)
Principle Use	Uncoated Steel Sheets and Light Plates		Steel Wire except Music Wire	Non-Ferrous Sheets and Wire	Iron and Steel Sheets and Hoops	Wire	Strips, Bands, Hoops and Wire
Gauge No.	Weight oz. per sq. ft.	Approximate thickness in inch	Thickness in inch				
7/0's			0.4960	.	0.6666	0.5	
6/0's			0.4615	0.5800	0.625	0.464	
5/0's			0.4305	0.5165	0.5883	0.432	0.5
4/0's			0.3938	0.4600	0.5416	0.4	0.454
3/0's			0.3625	0.4096	0.5	0.372	0.425
2/0's			0.3310	0.3648	0.4452	0.348	0.38
0			0.3065	0.3249	0.3964	0.324	0.34
1			0.2830	0.2893	0.3532	0.3	0.3
2			0.2625	0.2576	0.3147	0.276	0.284
3	160	0.2391	0.2437	0.2294	0.2804	0.252	0.259
4	150	0.2242	0.2253	0.2043	0.25	0.232	0.238
5	140	0.2092	0.2070	0.1819	0.2225	0.212	0.22
6	130	0.1943	0.1920	0.1620	0.1981	0.192	0.203
7	120	0.1793	0.1770	0.1443	0.1764	0.176	0.18
8	110	0.1644	0.1620	0.1285	0.157	0.16	0.165
9	100	0.1495	0.1483	0.1144	0.1398	0.144	0.148
10	90	0.1345	0.1350	0.1019	0.125	0.128	0.134
11	80	0.1196	0.1205	0.0907	0.113	0.116	0.12
12	70	0.1046	0.1055	0.0808	0.0991	0.104	0.109
13	60	0.0897	0.0915	0.072	0.0882	0.092	0.095
14	50	0.0747	0.0800	0.0641	0.0785	0.08	0.083
15	45	0.0673	0.0720	0.0571	0.0699	0.072	0.072
16	40	0.0598	0.0625	0.0508	0.0626	0.064	0.065
17	36	0.0538	0.0540	0.0453	0.0556	0.056	0.058
18	32	0.0478	0.0475	0.0403	0.0495	0.048	0.049
19	28	0.0418	0.0410	0.0359	0.044	0.04	0.042
20	24	0.0359	0.0348	0.032	0.0392	0.036	0.035
21	22	0.0329	0.0318	0.0285	0.0349	0.032	0.032
22	20	0.0299	0.0286	0.0253	0.0313	0.028	0.028
23	18	0.0269	0.0258	0.0226	0.0278	0.024	0.025
24	16	0.0239	0.0230	0.0201	0.0248	0.022	0.022
25	14	0.0209	0.0204	0.0179	0.022	0.020	0.020
26	12	0.0179	0.0181	0.0159	0.0196	0.018	0.018
27	11	0.0164	0.0173	0.0142	0.0175	0.0164	0.016
28	10	0.0149	0.0162	0.0126	0.0156	0.0148	0.014
29	9	0.0135	0.0150	0.0113	0.0139	0.0136	0.013
30	8	0.0120	0.0140	0.01	0.0123	0.0124	0.012
31	7	0.0105	0.0132	0.0089	0.011	0.0116	0.01
32	6.5	0.0097	0.0128	0.008	0.0098	0.0108	0.009
33	6	0.0090	0.0118	0.0071	0.0087	0.01	0.008
34	5.5	0.0082	0.0104	0.0063	0.0077	0.0092	0.007
35	5	0.0075	0.0095	0.0056	0.0069	0.0084	0.005
36	4.5	0.0067	0.0090	0.005	0.0061	0.0076	0.004
37	4.25	0.0064	0.0085	0.0045	0.0054	0.0068	
38	4	0.0060	0.0080	0.004	0.0058	0.006	
39			0.0075	0.0035	0.0043	0.0052	
40			0.0070	0.0031	0.0039	0.0048	

U.S. Standard Gauge is officially a weight Gauge, in oz. Per sq. ft. as tabulated. The approximate thickness shown is the "Manufacturers' Standard" of the American Iron and Steel Institute, based on steel as weighing 501.81 lb. per cu. ft. (489.6 true weight plus 2.5% for average over-run in area and thickness).

Distance Matrix (District HQ to District HQ)**, Length in kilometer

From To	Dhaka (Zero Point)	Bagerhat	Bandarban	Barguna	Barisal	Bhola	Bogra	Brahmanbaria	Chandpur	Chittagong	Chuadanga	Comilla	Cox's Bazar	Dinajpur	Faridpur	Feni	Gaibandha	Gazipur	Gopalganj	Habiganj	Jamalpur	Jessore	Jhalokathi	Jhenaidah	Joypurhat	Khagrachhari	Khulna	Kishoreganj	Kurigram	Kushtia
Dhaka (Zero Point)	0	178	316	247	169	205	197	109	115	242	215	96	391	338	101	149	268	37	127	163	179	164	182	178	249	259	180	117	348	183
Bagerhat	178	0	437	160	119	155	328	283	182	363	175	269	512	467	140	270	397	215	52	336	357	93	100	139	378	381	34	290	477	184
Bandarban	316	437	0	469	391	427	510	301	271	85	526	225	121	651	413	167	581	350	386	376	492	476	404	490	563	133	439	379	661	499
Barguna	247	160	469	0	84	120	445	352	214	396	323	281	544	584	209	303	513	284	196	406	426	209	95	286	495	413	150	360	594	301
Barisal	169	119	391	84	0	36	366	273	135	317	244	202	465	505	131	224	435	206	117	327	348	168	19	207	416	334	109	281	515	222
Bhola	205	155	427	120	36	0	402	309	171	353	280	238	501	541	167	260	471	242	153	363	384	204	55	243	452	370	145	317	551	258
Bogra	197	328	510	445	366	402	0	274	309	437	192	291	585	141	239	344	71	169	324	328	172	235	379	190	52	454	295	201	151	144
Brahmanbaria	109	283	301	352	273	309	274	0	143	227	320	81	375	416	206	134	345	114	231	76	203	269	287	283	327	244	285	79	425	268
Chandpur	115	182	271	214	135	171	309	143	0	198	257	67	346	450	144	105	380	149	130	218	291	195	149	220	361	215	184	221	460	235
Chittagong	242	363	85	396	317	353	437	227	198	0	453	151	160	578	339	93	507	276	312	302	418	402	330	416	489	117	366	305	588	425
Chuadanga	215	175	526	323	244	280	192	320	257	453	0	306	601	331	118	360	261	237	171	373	276	82	231	37	243	470	142	305	341	49
Comilla	96	269	225	281	202	238	291	81	67	151	306	0	300	432	193	58	361	130	218	156	272	256	215	270	343	169	272	159	441	279
cox's Bazar	391	512	121	544	465	501	585	375	346	160	601	300	0	726	487	241	655	425	460	450	567	550	479	564	637	252	514	453	736	573
Dinajpur	338	467	651	584	505	541	141	416	450	578	331	432	726	0	378	485	120	310	463	469	313	374	519	329	89	595	434	342	134	283
Faridpur	101	140	413	209	131	167	239	206	144	339	118	193	487	378	0	246	308	128	89	260	235	96	144	81	290	356	155	214	388	96
Feni	149	270	167	303	224	260	344	134	105	93	360	58	241	485	246	0	414	183	219	209	325	309	237	323	396	110	273	212	495	332
Gaibandha	268	397	581	513	435	471	71	345	380	507	261	361	655	120	308	414	0	239	392	399	243	304	448	259	77	524	363	271	120	212
Gazipur	37	215	350	284	206	242	169	114	149	276	237	130	425	310	128	183	239	0	164	168	151	216	219	200	221	294	217	99	320	184
Gopalganj	127	52	386	196	117	153	324	231	130	312	171	218	460	463	89	219	392	164	0	285	305	89	91	135	374	329	54	239	473	180
Habiganj	163	336	376	406	327	363	328	76	218	302	373	156	450	469	260	209	399	168	285	0	257	322	340	336	380	319	338	132	479	322
Jamalpur	179	357	492	426	348	384	172	203	291	418	276	272	567	313	235	325	243	151	305	257	0	319	361	274	224	436	378	125	323	227
Jessore	164	93	476	209	168	204	235	269	195	402	82	256	550	374	96	309	304	216	89	322	319	0	148	46	286	419	59	277	384	92
Jhalokathi	182	100	404	95	19	55	379	287	149	330	231	215	479	519	144	237	448	219	91	340	361	148	0	194	430	348	90	294	528	236
Jhenaidah	178	139	490	286	207	243	190	283	220	416	37	270	564	329	81	323	259	200	135	336	274	46	194	0	240	433	105	281	339	46
Joypurhat	249	378	563	495	416	452	52	327	361	489	243	343	637	89	290	396	77	221	374	380	224	286	430	240	0	506	345	253	157	194
Khagrachhari	259	381	133	413	334	370	454	244	215	117	470	169	252	595	356	110	524	294	329	319	436	419	348	433	506	0	383	322	605	442
Khulna	180	34	439	150	109	145	295	285	184	366	142	272	514	434	155	273	363	217	54	338	378	59	90	105	345	383	0	292	444	151
Kishoreganj	117	290	379	360	281	317	201	79	221	305	305	159	453	342	214	212	271	99	239	132	125	277	294	281	253	322	292	0	352	256
Kurigram	348	477	661	594	515	551	151	425	460	588	341	441	736	134	388	495	120	320	473	479	323	384	528	339	157	605	444	352	0	293
Kushtia	183	184	499	301	222	258	144	268	235	425	49	279	573	283	96	332	212	184	180	322	227	92	236	46	194	442	151	256	293	0
Lakshmipur	137	209	229	241	162	198	331	164	43	155	284	89	303	472	171	62	402	171	157	239	313	222	176	248	384	172	211	242	482	262
Lalmonirhat	343	472	656	589	510	546	146	420	455	583	336	436	731	129	383	490	115	315	468	474	318	379	523	334	152	600	439	347	29	288
Madaripur	90	110	327	143	64	100	287	195	71	253	186	138	401	428	73	160	358	127	59	248	269	124	77	149	340	270	113	203	438	164
Magura	150	136	461	258	179	215	217	254	192	387	65	241	536	355	52	294	285	172	105	308	278	44	193	28	267	405	103	253	365	73
Manikganj	63	200	379	270	191	227	188	148	177	305	173	159	453	329	65	212	259	64	149	202	170	152	205	137	241	322	211	145	339	120
Meherpur	240	201	552	348	270	306	182	326	283	478	26	332	626	321	143	385	250	241	197	380	266	108	256	62	232	495	167	294	331	58
Moulvibazar	203	376	416	446	367	403	368	116	258	342	413	196	490	509	300	249	439	208	325	63	297	362	380	376	420	359	378	172	519	362
Munshiganj	27	179	329	248	169	205	221	123	128	256	216	109	404	362	102	163	292	61	127	176	203	165	183	179	274	273	181	130	372	194
Mymensingh	122	300	436	370	291	327	178	147	234	362	282	216	510	320	203	269	249	93	249	200	57	291	305	280	231	379	302	68	329	234
Naogaon	247	357	561	473	395	431	50	325	359	487	221	341	635	127	268	394	117	219	353	378	222	264	408	219	39	504	323	251	197	172
Narail	130	107	442	227	148	184	269	235	162	368	116	222	516	408	100	275	338	167	55	289	309	34	162	79	319	385	90	243	418	125
Narayanganj	17	186	314	255	177	213	211	107	113	240	223	94	389	352	109	147	282	51	134	161	193	172	190	186	264	258	188	115	362	199
Narsingdi	51	225	339	294	215	251	217	67	137	265	262	119	413	358	148	172	287	56	173	121	198	211	229	225	269	282	227	75	368	210
Natore	210	260	524	377	298	334	68	288	31	450	124	304	598	207	171	352	137	182	256	341	185	167	311	122	118	467	227	214	217	76
Nawabganj	302	352	616	469	390	426	160	380	403	542	217	396	690	216	264	449	229	274	348	433	278	259	404	214	128	559	319	306	309	168
Netrakona	158	336	444	406	327	363	217	144	270	370	321	224	518	359	239	277	288	129	285	197	96	327	340	319	270	387	338	65	368	273
Nilphamari	359	488	672	604	526	562	162	436	471	598	352	452	747	57	399	505	131	330	483	490	334	395	539	350	103	615	454	363	111	303
Noakhali	158	244	208	276	197	233	353	143	78	134	319	67	682	494	106	41	423	193	192	218	335	257	210	282	405	151	246	221	504	297
Pabna	216	234																												

Lakshmipur	Lalmonirhat	Madaripur	Magura	Manikganj	Meherpur	Moulvibazar	Munshiganj	Mymensingh	Naogaon	Narail	Narayanganj	Narsingdi	Natore	Nawabganj	Netrakona	Nilphamari	Noakhali	Pabna	Panchagarh	Patuakhali	Pirojpur	Rajbari	Rajshahi	Rangamati	Rangpur	Satkhira	Shariatpur	Sherpur	Sirajganj	Sunamganj	Sylhet	Tangail	Thakurgaon
137	343	90	150	63	240	203	27	122	247	130	17	51	210	302	158	359	158	216	443	204	185	118	256	293	304	240	101	188	134	296	241	92	407
209	472	110	136	200	201	376	179	300	357	107	186	225	260	352	336	488	244	234	572	151	66	167	306	415	433	94	134	366	311	470	414	270	536
229	656	327	461	379	552	416	329	436	561	442	314	339	524	616	444	672	208	530	757	426	438	434	569	74	618	499	317	501	447	509	454	406	720
241	589	143	258	270	348	446	248	370	473	227	255	294	377	469	406	604	276	350	689	44	96	236	423	447	550	206	166	435	381	539	483	340	652
162	510	64	179	191	270	367	169	291	395	148	177	215	298	390	327	526	197	272	610	41	53	158	344	368	471	164	87	357	302	460	405	261	574
198	546	100	215	227	306	403	205	327	431	184	213	251	334	426	363	562	233	308	646	77	89	194	380	404	507	200	123	393	338	496	441	297	610
331	146	287	217	188	182	368	221	178	50	269	211	217	68	160	217	162	353	127	246	401	350	208	114	488	107	307	298	188	72	462	406	105	210
164	420	195	254	148	326	116	123	147	325	235	107	67	288	380	144	436	143	294	521	308	290	204	334	278	382	344	205	204	211	209	153	170	484
43	455	71	192	177	283	258	128	234	359	162	113	137	311	403	270	471	78	285	555	170	182	171	357	249	416	243	62	300	246	351	295	204	519
155	583	253	387	305	478	342	256	362	487	368	240	265	450	542	370	598	134	456	683	352	364	360	496	78	544	425	244	427	373	436	380	332	646
284	336	186	65	173	26	413	216	282	221	116	223	262	124	217	321	352	319	98	437	279	198	108	170	504	297	154	209	291	176	507	451	209	400
89	436	138	241	159	332	196	109	216	341	222	94	119	304	396	224	452	67	310	537	237	249	214	350	203	398	331	128	281	227	290	234	186	500
303	731	401	536	453	626	490	404	510	635	516	389	413	598	690	518	747	282	604	831	500	512	509	644	195	692	574	392	576	522	584	528	480	795
472	129	428	355	329	321	509	362	320	127	408	352	358	207	216	359	57	494	266	94	540	489	347	205	629	78	446	439	329	213	603	547	246	58
171	383	73	52	65	143	300	102	203	268	100	109	148	171	264	239	399	206	145	484	166	147	31	217	390	345	168	96	250	190	393	337	148	447
62	490	160	294	212	385	249	163	269	394	275	147	172	357	449	277	505	41	363	590	259	271	267	403	144	451	332	151	334	280	343	287	239	553
402	115	358	285	259	250	439	292	249	117	338	282	287	137	229	288	131	423	195	216	470	419	277	182	558	76	376	368	258	142	532	476	176	179
171	315	127	172	64	241	208	61	93	219	167	51	56	182	274	129	330	193	188	415	241	222	119	228	328	276	287	138	159	105	301	246	64	378
157	468	59	105	149	197	325	127	249	353	55	134	173	256	348	285	483	192	230	568	152	59	116	302	363	429	114	82	314	260	418	363	219	532
239	474	248	308	202	380	63	176	200	378	289	161	121	341	433	197	490	218	347	574	362	343	257	387	353	435	398	258	265	137	81	223	538	
313	318	269	278	170	266	297	203	57	222	309	193	198	185	278	96	334	335	191	418	383	364	226	231	470	279	391	280	16	109	391	335	87	382
222	379	124	44	152	108	362	165	291	264	34	172	211	167	259	327	395	257	141	480	200	115	119	213	453	340	72	147	334	219	456	400	236	443
176	523	77	193	205	256	380	183	305	408	162	190	229	311	404	340	539	210	285	624	52	33	171	357	382	485	145	101	370	316	474	418	275	587
248	334	149	28	137	62	376	179	280	219	79	186	225	122	214	319	350	282	96	434	242	161	103	168	467	295	118	173	289	173	470	414	207	398
384	152	340	267	241	232	420	274	231	39	319	264	269	118	128	270	103	405	177	181	451	401	259	116	540	113	358	350	240	124	514	458	158	144
172	600	270	405	322	495	359	273	379	504	385	258	282	467	559	387	615	151	473	700	369	381	378	513	70	561	442	261	445	390	453	397	349	664
211	439	113	103	211	167	378	181	302	323	90	188	227	227	319	338	454	246	200	539	141	56	177	272	417	400	59	136	394	278	472	416	273	502
242	347	203	253	145	294	172	130	68	251	243	115	75	214	306	65	363	221	220	447	316	297	200	260	356	308	352	213	125	138	266	210	116	411
482	29	438	365	339	331	519	372	329	197	418	362	368	217	309	368	111	504	276	196	550	499	357	263	639	56	456	449	339	223	613	557	256	159
262	288	164	73	129	58	362	194	234	172	125	199	210	76	168	273	303	297	49	388	257	207	65	122	476	249	164	188	243	127	455	400	161	351
0	477	98	219	200	310	279	150	257	381	189	135	160	338	430	292	493	35	312	578	197	209	198	384	206	438	270	89	322	268	373	317	227	541
477	0	433	360	334	326	514	367	324	192	413	357	363	212	304	363	106	499	271	191	545	494	352	258	634	51	451	444	334	218	608	552	251	154
98	433	0	121	133	212	289	91	213	337	90	98	137	240	332	249	449	133	214	534	99	111	100	286	304	395	172	23	278	224	382	326	183	497
219	360	121	0	108	91	348	151	247	245	50	158	197	148	241	283	376	254	122	461	214	158	75	194	439	322	115	144	294	200	442	386	192	424
200	334	133	108	0	178	242	89	138	239	156	80	90	202	294	174	350	221	169	435	226	208	55	248	356	296	224	156	186	125	335	280	84	398
310	326	212	91	178	0	420	241	272	211	142	248	268	114	206	311	342	345	88	426	305	223	122	160	529	287	180	235	281	165	513	457	199	390
279	514	289	348	242	420	0	216	240	418	329	201	161	381	474	237	530	258	387	614	402	383	297	427	393	475	438	299	298	305	117	58	264	578
150	367	91	151	89	241	216	0	147	271	131	15	65	234	327	182	383	172	240	468	204	186	129	280	307	328	240	101	212	158	310	254	117	431
257	324	213	247	138	272	240	147	0	229	253	137	135	192	284	39	340	278	198	425	326	308	194	238	413	286	362	223	69	115	334	278	94	388
381	192	337	249	239	211	418	271	229	0	298	261	267	97	98	268	142	403	156	219	430	379	237	78	538	153	336	248	238	122	512	456	156	182
189	413	90	50	156	142	329	131	253	298	0	138	177	201	293	289	429	223	175	513	183	114	122	247	419	374	103	114	318	252	422	366	223	477
135	357	98	158	80	248	201	15	137	261	138	0	49	224	317	172	373	157	230	458	212	193	135	270	292	318	247	108	202	148	294	239	107	421
160	363	137	197	90	268	161	65	135	267	177	49	0	230	322	140	378	181	236	463	250	232	146	276	316	324	286	147	200	153	254	198	112	426
338	212	240	148	202	114	381	234	192	97	201	224	230	0	92	231	228	366	59	312	333	282	140	46	501	173	239	263	201	85	475			

MISCELLANEOUS MEASUREMENT RELATIONS

- Dry volume of concrete, mortar etc. = 1.5 x wet volume(approx.)
- 100 maunds of slaked lime or sand or Surki = 225 cft. (2.25 cft. = 1 maund)
- 100 cft. of khoa or brick chips required 850 Nos. bricks of size 9.5" x 4.5" x 2.75"
- Standard Bricks (9.5" x 4.5" x 2.75") 1000 Nos. = approx. 72 cft. = 2.039 cum = 3172 to 4000 kg.
- 1 bag of cement (British) = 1.25 cft. = 50 kg. (BDS EN 197 CEM-I)
- 1 Ton of C.I. Sheet (24 B.W.G.) = 10 bundles
- 1 bundle =

Size of C.I. sheet	No of C.I. sheet	Size of C.I. sheet	No of C.I. sheet
6' – 0" long	12 nos	8' – 0" long	9 nos
7' – 0" long	10 nos	9' – 0" long	8 nos
10' – 0" long	7 nos		

- Width of C.I. Sheet = 32 inch
- 950 rft of barbed wire (12 B.W.G.) = 1 cwt
- 200 Nos. of 2.5" long nails = 1 seer
- 1 gallon of plastic emulsion paint / synthetic enamel paint covers 300 sft of new surface (approx.)
- 1 gallon of distemper covers 250 sft of new surface (approx.)
- 1 drum (40 kg) of snowcem covers 2070 square meters (approx.)
- 100 cft masonry brick work requires 1100 nos standard bricks (size 9.5" x 4.5" x 2.75") with 0.25" thickness of mortar

Brick Soling:

- Single brick flat soling requires : 300 Nos. bricks per % sft (Brick size 9.5" x 4.5" x 2.75")
- Double brick flat soling requires : 600 Nos. bricks per % sft (Brick size 9.5" x 4.5" x 2.75")
- Herringbone bond (HBB) brick soling requires : 500 Nos. bricks pre % sft (Brick size 9.5" x 4.5" x 2.75")
- Brick on end edging requires : 250 Nos. bricks per % rft (Brick size 9.5" x 4.5" x 2.75")

RATES OF MAN, MATERIAL AND MARK-UPS

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
1	MARK-UPS					
1	Contractor's Profit		10.00%	10.00%	10.00%	10.00%
2	Contractor's Overhead Expenses		3.50%	3.50%	3.50%	3.50%
3	VAT		10.00%	10.00%	10.00%	10.00%
4	Additional Incidental Expenses for Gas Line Installation Works		10.00%	10.00%	10.00%	10.00%
C1	LABOUR & MAN-POWER: PER DAY					
1	Head mason / Mosaic head mistry	per day	800.00	800.00	750.00	750.00
2	Mason / Mosaic mistry	per day	700.00	700.00	650.00	650.00
3	Skilled labour	per day	600.00	580.00	550.00	550.00
4	Ordinary labour	per day	550.00	540.00	500.00	500.00
5	Field Engineer (minimum BSc in Eng. with 3yrs exp or Diploma in Eng. with 8yrs exp)	per day	1,900.00	1,900.00	1,900.00	1,900.00
6	Skilled technician	per day	1,200.00	1,200.00	1,200.00	1,200.00
7	Semi skilled technician	per day	800.00	800.00	750.00	750.00
8	Foreman/Supervisor	per day	850.00	850.00	800.00	800.00
9	Electrician	per day	700.00	700.00	650.00	650.00
10	Assistant Electrician	per day	575.00	560.00	525.00	525.00
11	Rod binder	per day	700.00	700.00	650.00	650.00
12	Mosaic mistry	per day	700.00	700.00	650.00	650.00
13	Plumber	per day	700.00	700.00	650.00	650.00
14	Painter	per day	700.00	700.00	650.00	650.00
15	Carpenter	per day	700.00	700.00	650.00	650.00
16	Welder	per day	700.00	700.00	650.00	650.00
17	Polish mistry	per day	700.00	700.00	650.00	650.00
18	Helper to carpenter/ painter/ plumber/ rod binder/ electrician/ polish mistry/ rig operator	per day	550.00	540.00	500.00	500.00
19	Machine operator	per day	700.00	700.00	650.00	650.00
20	Pile rig operator	per day	700.00	700.00	650.00	650.00
21	Diesel hammer mounted rig operator	per day	700.00	700.00	650.00	650.00
22	Helper to diesel hammer mounted rig operator	per day	600.00	580.00	550.00	550.00
23	Rig operator including site allowances for soil exploration	per day	700.00	700.00	650.00	650.00
24	Assistant laboratory technician	per day	850.00	850.00	800.00	800.00
25	Laboratory technician (diploma in engineering in relevant field having minimum 3yrs exp)	per day	1,400.00	1,400.00	1,400.00	1,400.00
26	Laboratory engineer (minimum BSc in relevant field with minimum 3yrs exp)	per day	1,900.00	1,900.00	1,900.00	1,900.00
27	Ghorami	per day	700.00	700.00	650.00	650.00
28	Sweeper for ODD JOB	per use	800.00	800.00	750.00	750.00
29	Tube-well mistry	per day	700.00	700.00	650.00	650.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
30	Tube-well head mistry	per day	800.00	800.00	750.00	750.00
31	Surveyor (10yrs Exp / diploma Engineer trained in survey)	per day	1,400.00	1,400.00	1,400.00	1,400.00
32	Helper to surveyor	per day	800.00	800.00	750.00	750.00
C2	EQUIPMENT, TOOLS & PLANTS, VEHICLE, SCAFFOLDING ETC.					
33	Scaffolding	per sft	10.00	10.00	10.00	10.00
34	Carrying charge of earth by 5-ton capacity truck in Dhaka/ Mymensingh	per trip	2,000.00	-	-	-
35	Carrying charge of earth by 5-ton capacity truck in Chattogram/ Sylhet	per trip	-	2,000.00	-	-
36	Carrying charge of earth by 5-ton capacity truck in Gopalganj/ Barisal/ Khulna	per trip	-	-	1,850.00	-
37	Carrying charge of earth by 5-ton capacity truck in Rajshahi/ Rangpur	per trip	-	-	-	1,850.00
38	Carriage of earth by any means for site development in Dhaka/ Mymensingh	cft	8.50	-	-	-
39	Carriage of earth by any means for site development in Chattogram/ Sylhet	cft	-	8.50	-	-
40	Carriage of earth by any means for site development in Gopalganj/ Barisal/ Khulna	cft	-	-	7.50	-
41	Carriage of earth by any means for site development in Rajshahi/ Rangpur	cft	-	-	-	7.50
42	5-ton capacity truck-fare including loading & unloading (within 30 km radius)	per trip	2,300.00	2,300.00	2,100.00	2,100.00
43	Hire charge of concrete mixer machine	per day	1,200.00	1,200.00	1,200.00	1,200.00
44	Hire charge of concrete vibrator	per day	550.00	540.00	500.00	500.00
45	Hire charge of water pump for concreting or similar purposes	per day	530.00	530.00	530.00	530.00
46	Hire charge of diesel operated 1/4 cusec capacity water pump	per day	640.00	640.00	640.00	640.00
47	Hire charge of electricity operated 1 cusec capacity water pump	per day	850.00	850.00	850.00	850.00
48	Hire charge of 1 cusec capacity diesel operated water pump	per day	1,300.00	1,300.00	1,300.00	1,300.00
49	Fuel & lubricant for mixer machine, vibrator, pump etc.	per day	1,275.00	1,275.00	1,275.00	1,275.00
50	Hire charge of mosaic cutting machine	per day	550.00	550.00	550.00	550.00
51	Hire charge of marble cutting and shaping machine including cutting disc.	per day	550.00	550.00	550.00	550.00
52	Hire charge of marble polishing machine including polishing stone	per day	620.00	620.00	620.00	620.00
53	Hire charge of marble cutting disk	per day	450.00	450.00	450.00	450.00
54	Hire charge of electric grinding machine	per day	260.00	260.00	260.00	260.00
55	Hire charge of cast-in-situ pile boring complete rig set including operational expenses	per day	8,500.00	8,500.00	8,500.00	8,500.00
56	Hire charge of pre-cast pile driving complete rig set including operational expenses	per day	6,000.00	6,000.00	6,000.00	6,000.00
57	Hire charge of pre-cast micro pile driving complete rig set including operational expenses	per day	5,000.00	5,000.00	5,000.00	5,000.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
58	Hire charge of load testing devices including hydraulic fluid: up to 200 ton capacity	per test	7,000.00	7,000.00	7,000.00	7,000.00
59	Hire charge of pile load testing devices including hydraulic fluid: up to 400 ton capacity	per test	9,000.00	9,000.00	9,000.00	9,000.00
60	Hire charge of diesel hammer mounted completed rig set.	per day	25,200.00	25,200.00	25,200.00	25,200.00
61	Hire charge of auger boring complete rig set including operational expenses	per day	76,300.00	76,300.00	76,300.00	76,300.00
62	Hire charge of crane for auger boring	per day	55,000.00	55,000.00	55,000.00	55,000.00
63	Hire charge of total station	per day	3,000.00	3,500.00	3,500.00	3,500.00
64	Hire charge of Hanging working Platform (Gondola)	per day	1,000.00	1,000.00	1,000.00	1,000.00
65	Hire charge for air pressure pump	per day	500.00	500.00	500.00	500.00
66	Hire charge of pump for dewatering	per day	1,000.00	1,000.00	1,000.00	1,000.00
67	Hire charge of Crane (crawler) (50 to 55 Ton) including cost of fuel and lubricant etc. for driving/ lifting sheet pile	per day	19,692.00	19,962.00	19,962.00	19,962.00
68	Hire charge of vibratory hammer for driving sheet pile	per day	15,000.00	15,000.00	15,000.00	15,000.00
69	Hire charge of air compressor for auger boring	per day	5,300.00	5,300.00	5,300.00	5,300.00
70	Hire charge of concreting equipment for auger boring	per day	5,300.00	5,300.00	5,300.00	5,300.00
71	Hire charge of generator for auger boring	per day	5,300.00	5,300.00	5,300.00	5,300.00
72	Hire charge of excavator for auger boring	per day	10,000.00	10,000.00	10,000.00	10,000.00
73	Hire charge of desander for auger boring	per day	6,450.00	6,450.00	6,450.00	6,450.00
74	Hire charge of mud silo for auger boring	per day	1,100.00	1,100.00	1,100.00	1,100.00
75	Hire charge of water bowser for auger boring	per day	5,600.00	5,600.00	5,600.00	5,600.00
76	Hire charge of hydraulic static pile driver complete rig set	per day	76,200.00	76,200.00	76,200.00	76,200.00
77	Generator, fuel, lubricant for hydraulic static pile driver	per day	20,400.00	20,400.00	20,400.00	20,400.00
78	Hire charge of 3HP mud pump	per day	645.00	645.00	645.00	645.00
79	Hire charge of MS steel tank (6'-6" x 10'-0" x 4'-0")	per trip	350.00	350.00	350.00	350.00
80	Truck fare for carrying diesel hammer mounted rig	per trip	15,200.00	15,200.00	15,200.00	15,200.00
81	Hire charge of 8 - 12 ton road roller	per day	6,050.00	6,050.00	6,050.00	6,050.00
82	Hire charge of vibratory (ride on) roller with 2 steel drum compactor (3-5 tons)	per day	5,500.00	5,500.00	5,500.00	5,500.00
83	Hire charge of pneumatic multiple tired roller (7 tires, 8-10 tons)	per day	5,000.00	5,000.00	5,000.00	5,000.00
84	Hire charge of asphalt plant	per day	15,000.00	15,000.00	15,000.00	15,000.00
85	Hire charge of AC paver	per day	6,100.00	6,100.00	6,100.00	6,100.00
86	Hire charge of dump truck/ tripping trucks	per day	5,000.00	5,000.00	5,000.00	5,000.00
87	Hire charge of distributor	per day	5,500.00	5,500.00	5,500.00	5,500.00
88	Hire charge of water tanker (truck mounted)	per day	3,200.00	3,200.00	3,200.00	3,200.00
89	Hire-charge of chain dozer	per day	8,200.00	8,200.00	8,200.00	8,200.00
90	Fuel & lubricants, spares, maintenance, driver etc. for 8-12 ton road roller.	per day	1,500.00	1,500.00	1,500.00	1,500.00
91	Hire charge of paint spray machine	per day	700.00	700.00	700.00	700.00
92	Hire charge of machine for cutting terrazzo tiles	per % sft	555.00	555.00	555.00	555.00
93	Chisel for heavy duty power hammer (100 sft capacity)	each	1,900.00	1,900.00	1,900.00	1,900.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
94	Hire charge of heavy duty chisel machine	per day	700.00	700.00	700.00	700.00
95	Shuttering including prop for partial dismantling of R.C.C.	per sft	28.00	28.00	28.00	28.00
96	Hire charge of welding machine	per day	750.00	750.00	750.00	750.00
97	Hire charge of survey instrument (Level / Theodolite etc.)	per day	1,000.00	1,000.00	1,000.00	1,000.00
98	Hire charge of aggregate base paver	per day	30,500.00	30,500.00	30,500.00	30,500.00
99	Hire charge of Pay loader	per day	13,000.00	13,000.00	13,000.00	13,000.00
100	Hire charge of motor grader	per day	10,500.00	10,500.00	10,500.00	10,500.00
101	Hire charge of Rebar forging and threading machines - full set (including local carriage, power and all other related consumables)	per day	12,000.00	12,000.00	12,000.00	12,000.00
102	Hire charge of cold extrusion coupler press machine - full set (including local carriage, power and all other related consumables)	per day	4,500.00	4,500.00	4,500.00	4,500.00
103	Hire Charge of Compressive Strength Testing Machine with necessary accessories	per month	3,000.00	3,000.00	3,000.00	3,000.00
104	Compressive Strength Testing Machine Initial Calibration	each	32,500.00	32,500.00	32,500.00	32,500.00
105	Concrete Cylinder Mold	each	1,350.00	1,350.00	1,350.00	1,350.00
106	10mm Tamping Rod, 300mm long	each	100.00	100.00	100.00	100.00
107	Rubber Mallet	each	500.00	500.00	500.00	500.00
108	Metal tray, 600mm x 450mm, 2-1.5mm thickness	each	1,200.00	1,200.00	1,200.00	1,200.00
109	Steel unbonded caps for cylinder compression testing	per pair	3,000.00	3,000.00	3,000.00	3,000.00
110	Elastomeric neoprene pads for specimen (assuming 150 set of cylinder and 1 pair of pad required for every 10 set cylinder)	per pair	180.00	180.00	180.00	180.00
111	Slide Calipers, 300mm length	each	1,000.00	1,000.00	1,000.00	1,000.00
112	Sieve with opening size 1.5" (37.5mm)	each	1,350.00	1,350.00	1,350.00	1,350.00
113	Sieve with opening size 1" (25mm)	each	1,350.00	1,350.00	1,350.00	1,350.00
114	Sieve with opening size 3/4" (19mm)	each	1,350.00	1,350.00	1,350.00	1,350.00
115	Sieve with opening size 14mm	each	1,350.00	1,350.00	1,350.00	1,350.00
116	Sieve with opening size 1/2" (12.5mm)	each	1,350.00	1,350.00	1,350.00	1,350.00
117	Sieve with opening size 3/8" (9.5mm)	each	1,350.00	1,350.00	1,350.00	1,350.00
118	Sieve with opening size 6.3mm	each	1,350.00	1,350.00	1,350.00	1,350.00
119	Sieve No. 4	each	1,350.00	1,350.00	1,350.00	1,350.00
120	Sieve No. 8	each	1,350.00	1,350.00	1,350.00	1,350.00
121	Sieve No. 16	each	1,350.00	1,350.00	1,350.00	1,350.00
122	Sieve No. 30	each	1,350.00	1,350.00	1,350.00	1,350.00
123	Sieve No. 50	each	1,350.00	1,350.00	1,350.00	1,350.00
124	Sieve No. 100	each	1,350.00	1,350.00	1,350.00	1,350.00
125	Sieve No. 200	each	1,350.00	1,350.00	1,350.00	1,350.00
126	Pan under sieves	each	1,350.00	1,350.00	1,350.00	1,350.00
127	Lid Cover for sieves	each	600.00	600.00	600.00	600.00
128	Sieve Brush	each	500.00	500.00	500.00	500.00
129	Weighing balance, 0.1g sensitivity, 16kg capacity, pan size 330mm ~ 220mm	each	14,000.00	14,000.00	14,000.00	14,000.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
130	Metal Scoop	each	500.00	500.00	500.00	500.00
131	Aggregate bowl	each	500.00	500.00	500.00	500.00
132	Multiplug	each	500.00	500.00	500.00	500.00
133	Slump Mold with base plate, Metal body	each	2,100.00	2,100.00	2,100.00	2,100.00
134	16mm tamping rod, 600mm long	each	200.00	200.00	200.00	200.00
135	Measurement tape (30 m length)	each	300.00	300.00	300.00	300.00
136	Measurement tape (6 m length)	each	120.00	120.00	120.00	120.00
137	Steel Tape (6 m length)	each	90.00	90.00	90.00	90.00
138	Moisture meter	each	3,500.00	3,500.00	3,500.00	3,500.00
139	Distance meter	each	1,200.00	1,200.00	1,200.00	1,200.00
C3	WORK RATE EXCLUDING COST OF MATERIALS					
140	Breaking of 50 mm down brick chips	per % cft	870.00	870.00	860.00	860.00
141	Breaking of 20 mm down brick chips	per % cft	970.00	970.00	960.00	960.00
142	Breaking of 12 mm (1/2") down brick chips	per % cft	1,220.00	1,220.00	1,210.00	1,210.00
143	Breaking of 20 mm down stone chips	per % cft	2,200.00	2,200.00	2,180.00	2,180.00
144	Breaking of 12 mm down stone chips	per % cft	2,400.00	2,400.00	2,380.00	2,380.00
145	Placing and removing of shutter for formwork	per sft	18.00	18.00	18.00	18.00
146	Making steel shutter for formwork	per sft	90.00	90.00	90.00	90.00
147	Making steel door-window frame and shutter	per sft	78.00	78.00	78.00	78.00
148	Making fixed steel glazed frame	per sft	66.00	66.00	66.00	66.00
149	Making steel grill	per sft	51.00	51.00	51.00	51.00
150	Filling and stitching gunny bags	per bag	12.00	12.00	12.00	12.00
151	Load testing result sheet preparation	per test	6,500.00	6,500.00	6,500.00	6,500.00
152	Carrying cost of timber	per cft	48.00	48.00	48.00	48.00
153	Seasoning of timber in plant	per cft	165.00	165.00	165.00	165.00
154	Carrying cost of steel door and window	each	77.00	77.00	77.00	77.00
155	Fabrication and erection of mild steel truss	Per 50 kg	2,550.00	2,550.00	2,550.00	2,550.00
156	Fitting and fixing of safety net framing system	per sft	30.00	30.00	30.00	30.00
157	Fabrication of safety net	per kg	25.00	25.00	25.00	25.00
158	Fabrication of light section steel	per 50 kg	360.00	360.00	360.00	360.00
C4	WORK RATE INCLUDING COST OF MATERIALS					
159	Point welding	per point	3.00	3.00	3.00	3.00
160	Line welding (at field)	per inch	5.00	5.00	5.00	5.00
161	Bituminous coating (for damp proof course (D.P.C))	per % sft	920.00	920.00	900.00	900.00
162	Coal-tar (over timber surface)	per sft	8.20	8.20	8.00	8.00
163	Glass pan fitting including putty	per sft	18.70	18.70	18.40	18.40
164	Jute hessian (for making formwork water-tight)	per sft	3.00	3.00	3.00	3.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
C5	BRICKS AND SCREEN BLOCKS					
165	1st class/Picked jhama standard bricks	per % 0 nos	13,000.00	13,000.00	12,500.00	12,500.00
166	Automatic machine made 1st class standard bricks	per % 0 nos	16,000.00	16,000.00	16,000.00	16,000.00
167	Sand cement solid block (SCSB) (250x115x115)mm	per % 0 nos	12,000.00	12,000.00	12,000.00	12,000.00
168	1st class 10 holes machine made 9.5" x 4.5" x 2.75" / 237.5 mm x 112.5 mm x 68.75 mm size ceramic bricks	per % 0 nos	19,900.00	19,900.00	19,900.00	19,900.00
169	9.5" x 4.5" x 2.75" / 237.5 mm x 112.5 mm x 68.75 mm size machine made solid klinker facing bricks	per % 0 nos	14,500.00	14,500.00	14,500.00	14,500.00
170	9.5" x 4.5" x 2.75" / 237.5 mm x 112.5 mm x 68.75 mm size 10 hole machine made rock-face/textured klinker facing bricks	per % 0 nos	20,000.00	20,000.00	20,000.00	20,000.00
171	9.5" x 4.5" x 2.75" / 237.5 mm x 112.5 mm x 68.75 mm size 3 hole machine made reinforcing facing bricks	per % 0 nos	23,750.00	23,750.00	23,750.00	23,750.00
172	8" x 4" x 2" / 200 x 100 x 50 mm machine made hard pressed klinker facing bricks	per % 0 nos	19,750.00	19,750.00	19,750.00	19,750.00
173	8" x 2" x 2" / 200 x 50 x 50 mm machine made klinker facing red or maroon strips	per % 0 nos	18,000.00	18,000.00	18,000.00	18,000.00
174	200 mm x 62 mm x 16.51 mm machine made clay wall tile red strips	per % 0 nos	18,900.00	18,900.00	18,900.00	18,900.00
175	200 mm x 62 mm x 12.7 mm machine made clay wall tile beige strips	per % 0 nos	21,500.00	21,500.00	21,500.00	21,500.00
176	200 mm x 62 mm x 8.9 mm machine made clay wall tile red strips	per % 0 nos	16,900.00	16,900.00	16,900.00	16,900.00
177	241 mm x 70 mm x 12.7 mm machine made clay wall tile red strips	per % 0 nos	28,500.00	28,500.00	28,500.00	28,500.00
178	241 mm x 70 mm x 12.7 mm machine made clay wall tile matt glazed textured strips	per % 0 nos	34,500.00	34,500.00	34,500.00	34,500.00
179	4.5" x 4.5" x 4.5" / 112.5 mm x 112.5 mm x 112.5 mm fancy screen block	per % 0 nos	29,000.00	29,000.00	29,000.00	29,000.00
180	5.5" x 5.5" x 4" / 137.5 mm x 137.5 mm x 100 mm fancy screen block	per % 0 nos	35,000.00	35,000.00	35,000.00	35,000.00
181	6" x 6" x 4" / 150 mm x 150 mm x 100 mm fancy screen block	per % 0 nos	38,000.00	38,000.00	38,000.00	38,000.00
182	8" x 8" x 4.25" / 200 mm x 200 mm x 106.25 mm fancy screen block	per % 0 nos	48,000.00	48,000.00	48,000.00	48,000.00
183	8" x 4.75" x 4" / 200 mm x 118.75 mm x 100 mm fancy screen block	per % 0 nos	48,000.00	48,000.00	48,000.00	48,000.00
184	6" x 6" x 6" / 150 mm x 150 mm x 150 mm fancy screen block	per % 0 nos	38,000.00	38,000.00	38,000.00	38,000.00
185	9.5" x 4.5" x 2.75" / 237.5 mm x 112.5 mm x 68.75 mm fancy screen block	per % 0 nos	38,000.00	38,000.00	38,000.00	38,000.00
186	190 mm x 190 mm size glass bricks	each	370.00	370.00	370.00	370.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	Rajshahi, Rangpur
C6	CEMENT					
187	Ordinary Portland Cement, BDS-EN - 197-1-CEM-I ,52.5N, 50 kg bag	per bag	520.00	520.00	520.00	520.00
188	Portland Composite Cement ,(CEM-II/B-M 42.5N (42.5MPa) (6-20% constituents other than clinker): 50 kg bag	per bag	500.00	500.00	500.00	500.00
189	White Cement	per kg	27.00	27.00	27.00	27.00
C7	STONE/ BOULDER/ MOSAIC CHIPS/ BITUMEN/ ADMIXTURE/ MEMBRANE					
190	Uncrushed boulder	per % cft	19,604.00	20,171.00	17,784.00	16,793.00
191	19 mm (3/4") down grade crushed stone chips	per % cft	21,804.00	22,371.00	19,964.00	18,973.00
192	12 mm (1/2") down grade stone chips	per % cft	17,840.00	17,982.00	16,990.00	16,509.00
193	6 mm (1/4") down grade stone chips	per % cft	15,500.00	15,550.00	15,200.00	15,000.00
194	Stone shingles	per % cft	15,000.00	15,050.00	14,800.00	14,600.00
195	Stone dust (2.38 mm down grade)	per % cft	5,500.00	5,500.00	5,400.00	5,400.00
196	Pea-gravel	per % cft	9,345.00	9,345.00	8,495.10	8,495.10
197	Slaked lime	per kg	25.00	25.00	25.00	25.00
198	Surki from 1st class brick	per cft	113.00	113.00	109.00	109.00
199	Pakistan origin (onix) mosaic chips	per kg	20.00	20.00	20.00	20.00
200	Indian origin (deradun) mosaic chips	per kg	18.00	18.00	18.00	18.00
201	Pumice stone for finishing mosaic work	each	175.00	175.00	175.00	175.00
202	Minar stone for finishing mosaic work	each	420.00	420.00	420.00	420.00
203	Colour pigment	per lbs	80.00	80.00	80.00	80.00
204	20 mm x 50 mm glass strip	per foot	10.00	10.00	10.00	10.00
205	60/70 grade bitumen for road work	per M. ton	89,000.00	87,000.00	91,000.00	91,000.00
206	Water-proofing PVC membrane	per sqm	610.00	610.00	610.00	610.00
207	Primer for laying PVC membrane on wall	per litre	580.00	580.00	580.00	580.00
208	Water reducing admixture in concrete: Type - A	per litre	150.00	150.00	150.00	150.00
209	Retarding admixture in concrete: Type - B	per litre	160.00	160.00	160.00	160.00
210	Accelerating admixture in concrete: Type - C	per litre	110.00	110.00	110.00	110.00
211	Water reducing and retarding admixture in concrete: Type-D	per litre	210.00	210.00	210.00	210.00
212	Water reducing and accelerating admixture in concrete: Type-E	per litre	180.00	180.00	180.00	180.00
213	Water reducing high range admixture in concrete: Type - F	per litre	210.00	210.00	210.00	210.00
214	Water reducing high range retarding admixture in concrete: Type - G	per litre	155.00	155.00	155.00	155.00
215	Micro fibre for concrete	per kg	740.00	740.00	740.00	740.00
216	Shutter releasing agent/ form oil	per litre	180.00	180.00	180.00	180.00
217	Polymer based curing compound	per litre	230.00	230.00	230.00	230.00
218	Epoxy bonding agent	per litre	1,810.00	1,810.00	1,810.00	1,810.00
219	Corrosion inhibiting admixture	per litre	750.00	750.00	750.00	750.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
C8	EARTH/SAND					
220	Royalty of earth	per % 0 cft	2,200.00	2,200.00	2,100.00	2,100.00
221	Royalty of sand	per % 0 cft	6,806.00	6,940.00	6,806.00	6,806.00
222	Royalty of turf	per % sft	30.00	30.00	28.00	28.00
223	Sand (F.M. 0.5)	per 100 cft	1,530.00	1,544.80	1,530.60	1,530.60
224	Sand (F.M. 0.8)	per % cft	1,670.00	1,680.00	1,610.00	1,610.00
225	Sand (F.M. 1.2)	per % cft	1,900.00	1,915.00	1,845.00	1,845.00
226	Sand (F.M. 2.2)	per % cft	5,380.00	5,200.00	5,270.00	5,210.00
C9	TIMBER / BOARD / TIMBER PRODUCT					
227	Garjan/Jam/local Sal	per cft	2,200.00	2,100.00	2,250.00	2,250.00
228	Mehgani	per cft	2,000.00	2,000.00	2,000.00	2,000.00
229	Silkarai/Chikrashi	per cft	2,500.00	2,500.00	2,500.00	2,500.00
230	Teak Chambal	per cft	3,700.00	3,600.00	3,750.00	3,750.00
231	Chattogram teak	per cft	4,400.00	4,300.00	4,599.00	4,599.00
232	Jessore & other local teak	per cft	3,000.00	3,000.00	3,000.00	3,000.00
233	Kathal	per cft	2,400.00	2,400.00	2,400.00	2,400.00
234	Gamari	per cft	1,900.00	1,800.00	2,000.00	2,000.00
235	Chapalish	per cft	2,300.00	2,200.00	2,400.00	2,400.00
236	Timber for formwork	per cft	550.00	550.00	500.00	500.00
237	Bamboo	per foot	13.50	13.50	12.00	12.00
238	Shal ballah (avg. dia 6") for driving	per foot	80.00	80.00	78.00	78.00
239	Myanmar(Burma) teak veneered flush door shutter	per sft	340.00	340.00	340.00	340.00
240	Champ veneered flush door shutter	per sft	240.00	240.00	240.00	240.00
241	Chapalish veneered flush door shutter	per sft	240.00	240.00	240.00	240.00
242	Garjan veneered flush door shutter	per sft	252.00	252.00	252.00	252.00
243	Door frame:For wall finished thickness 5.75" Hatil model no-HCL-101-101-Bch-5-88 or equivalent	per rft	1,149.00	1,149.00	1,149.00	1,149.00
244	Door frame:For wall finished thickness 5.75" Hatil model no-HCL-101-101-Bch-6-88 or equivalent	per rft	1,803.00	1,803.00	1,803.00	1,803.00
245	Door shutter:Hatil Model: HCL-102-118-BCH-1-88 or equivalent	per sft	1,538.00	1,538.00	1,538.00	1,538.00
246	Door shutter:Hatil Model no- HCL-102-128-BCH-1-88 or equivalent	per sft	1,437.00	1,437.00	1,437.00	1,437.00
247	Door shutter:Partex model no- SD- 029 or equivalent	per sft	2,315.00	2,315.00	2,315.00	2,315.00
248	Formica laminated door shutter (commercial lipping)	per sft	375.90	375.90	375.90	375.90
249	HPL Sheet (0.8 mm)	per sft	110.00	110.00	110.00	110.00
250	12 mm Thick MDF Board	per sft	45.00	45.00	45.00	45.00
251	12 mm thick Plain Particle board : 550kg/m ³	per sft	40.00	40.00	41.00	41.00
252	Melamine board (12 mm thick): 8' -0" x 4'-0" size, 700kg/m ³	per pc	2,150.00	2,150.00	2,152.00	2,152.00
253	8 mm thick Melamine board	per sft	36.00	36.00	36.00	36.00
254	9 mm thick gypsum board	per sft	36.00	36.00	36.00	36.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
255	9 mm thick perforated gypsum board (600 mm x 600 mm grid)	per sft	39.00	39.00	39.00	39.00
256	8 mm thick perforated gypsum board (600 mm x 600 mm grid)	per sft	30.00	30.00	30.00	30.00
257	8 mm thick perforated gypsum board (600 mm x 1200 mm grid)	per sft	42.00	42.00	42.00	42.00
258	15mm thick Perforated wooden acoustic panel	per sft	360.00	360.00	360.00	360.00
259	12 mm thick gypsum board	per sft	42.00	42.00	42.00	42.00
260	12 mm thick fire rated gypsum board	per sft	50.00	50.00	50.00	50.00
261	12mm thick BT ply board	per sft	115.00	115.00	115.00	115.00
262	18mm thick BT ply board	per sft	145.00	145.00	145.00	145.00
263	5mm thick Garjan ply board	per sft	50.00	50.00	50.00	50.00
264	12mm thick Garjan ply board	per sft	78.00	78.00	78.00	78.00
265	18mm thick Garjan ply board	per sft	110.00	110.00	110.00	110.00
266	18mm thick B.T. Marine ply board	per sft	190.00	190.00	190.00	190.00
267	18mm thick HPL board	per sft	375.00	375.00	375.00	375.00
268	12 mm thick laminated vinyl board: 550 kg/m ³	per sft	68.00	68.00	68.00	68.00
269	12 mm thick Myanmar (Burma) Teak veneered board: 550 kg/m ³	per sft	88.00	88.00	88.00	88.00
270	12 mm thick commercial veneer	per sft	73.00	73.00	73.00	73.00
271	18 mm thick Myanmar (Burma) Teak veneered board	per sft	110.00	110.00	110.00	110.00
272	Making hole in Myanmar (Burma) Teak board	per sft	35.00	35.00	35.00	35.00
273	Fire rated Wood Acoustic Panel (WAP)	per sft	500.00	500.00	500.00	500.00
274	15mm thick wooden grooved standard acoustic panel	per sft	350.00	350.00	350.00	350.00
275	15mm thick wooden grooved moisture proof acoustic panel	per sft	370.00	370.00	370.00	370.00
276	15mm thick wooden grooved fire retardant acoustic panel	per sft	380.00	380.00	380.00	380.00
277	15 mm thick acoustic Mineral fiber board (Asian standard)	per sft	60.00	60.00	60.00	60.00
278	15 mm thick acoustic Mineral fiber board (European standard)	per sft	220.00	220.00	220.00	220.00
279	20mm thick Auditorium Mineral Fiber Acoustic ceiling board (Asian standard)	per sft	300.00	300.00	300.00	300.00
280	20mm thick Auditorium Mineral Fiber Acoustic ceiling board (European standard)	per sft	560.00	560.00	560.00	560.00
281	Myanmar (Burma) teak	per cft	7,100.00	7,000.00	7,200.00	7,200.00
282	50 mm thick glass wool	per sft	222.00	222.00	222.00	222.00
283	Black/ gray airtight cloth bearded	per sft	75.00	75.00	75.00	75.00
284	Edging	per bundle	2,000.00	2,000.00	2,000.00	2,000.00
285	18mm PVC edging	per sft	3.00	3.00	3.00	3.00
286	Moulding for furniture work	per sft	851.00	851.00	851.00	851.00
287	Rubber gum	per kg	655.00	655.00	655.00	655.00
C10	STEEL					
288	Grade 300 (300MPa/ 300N/mm ² ≈ 43500psi/ 40 Grade): BDS- 6935-2006 - B300 and Ratio fy to fu ≥ 1.25	per M. ton	80,000.00	80,000.00	80,000.00	80,000.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
289	Grade 400/ 420 (400MPa/ 400N/mm ² $\approx$ 60900 psi/ 60 Grade), BDS-6935-2006, B400: and ratio f_y to $f_u \geq 1.25$	per M. ton	89,000.00	89,000.00	89,000.00	89,000.00
290	Grade 500 (500MPa), BDS-6935-2016 and ratio f_y to $f_u \geq 1.25$	per M. ton	87,000.00	87,000.00	87,000.00	87,000.00
291	Upset forging parallel thread rebar Coupler for (Grade 400) 20 mm dia deformed bar	each	110.00	110.00	110.00	110.00
292	Upset forging parallel thread rebar Coupler for (Grade 400) 25 mm dia deformed bar	each	200.00	200.00	200.00	200.00
293	Upset forging parallel thread rebar Coupler for (Grade 400) 32 mm dia deformed bar	each	300.00	300.00	300.00	300.00
294	Cold extrusion mechanical rebar Coupler for (Grade 400) 16 mm dia deformed bar	each	160.00	160.00	160.00	160.00
295	Cold extrusion mechanical rebar Coupler for (Grade 400) 20 mm dia deformed bar	each	240.00	240.00	240.00	240.00
296	Cold extrusion mechanical rebar Coupler for (Grade 400) 22 mm dia deformed bar	each	330.00	330.00	330.00	330.00
297	Cold extrusion mechanical rebar Coupler for (Grade 400) 25 mm dia deformed bar	each	450.00	450.00	450.00	450.00
298	Cold extrusion mechanical rebar Coupler for (Grade 400) 32 mm dia deformed bar	each	880.00	880.00	880.00	880.00
299	18/20/22 BWG MS Sheet/plate	per M. ton	77,000.00	77,000.00	77,000.00	77,000.00
300	M.S. angle, T and Z-section, Channel etc.	per M. ton	70,000.00	70,000.00	70,000.00	70,000.00
301	M.S. plain bar and F.I. bar (non-structural use)	per M. ton	70,000.00	70,000.00	70,000.00	70,000.00
302	MS hollow box (3 mm thick)	per M. ton	140,000.00	140,000.00	140,000.00	140,000.00
303	Solid square bar	per M. ton	77,000.00	77,000.00	77,000.00	77,000.00
304	0.45 mm thick C.I. sheet	per M. ton	79,000.00	79,000.00	79,000.00	79,000.00
305	0.45 mm thick C.I. sheet	per sqm	700.00	700.00	700.00	700.00
306	0.27 mm thick 6'-0" x 18" ridging	per pc	360.00	360.00	360.00	360.00
307	0.27 mm thick 6'-0" x 18" coloured ridging	per pc	420.00	420.00	420.00	420.00
308	Anchor bolt fitting charge	per Kg	27.00	27.00	27.00	27.00
309	Galvanized anchor bolt of varying dia	per M.Ton	125,000.00	125,000.00	125,000.00	125,000.00
310	MS plate of grade 345 MPa	per M.Ton	77,000.00	77,000.00	77,000.00	77,000.00
311	MS plate of grade 275 MPa	per M.Ton	74,000.00	74,000.00	74,000.00	74,000.00
312	Hot rolled W, I, S, T shape sections of grade 275 MPa	per M.Ton	80,000.00	80,000.00	80,000.00	80,000.00
313	Hot rolled Steel pipe & tube of grade 275 MPa	per M.Ton	135,000.00	135,000.00	135,000.00	135,000.00
314	U-shape hot rolled steel sheet pile	per M.Ton	95,000.00	95,000.00	95,000.00	95,000.00
315	6 mm thick ASTM A572 Chequered plate	per M.Ton	138,000.00	138,000.00	138,000.00	138,000.00
316	Roof sheet / wall sheet 0.47 mm zinc alum colour bond	per M.Ton	245,000.00	245,000.00	245,000.00	245,000.00
317	MS tube/ angle	per M.Ton	76,000.00	76,000.00	76,000.00	76,000.00
318	Fabrication charge for column, beam, rafter using MS plates including the cost of electricity, LP gas, machineries etc.	per M.Ton	20,000.00	20,000.00	20,000.00	20,000.00
319	Fabrication charge for column, beam, rafter using Hot Rolled sections including the cost of electricity, LP gas, machineries etc.	per M.Ton	12,000.00	12,000.00	12,000.00	12,000.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
320	Fabrication charge of Hot Rolled sections for shore piles of grade 250 MPa including the cost of electricity, LP gas, machineries etc.	per M.Ton	5,000.00	5,000.00	5,000.00	5,000.00
321	Fabrication charge of chequered plate including the cost of electricity, LP gas, machineries etc.	per M.Ton	12,000.00	12,000.00	12,000.00	12,000.00
322	Fabrication charge of roof sheet/wall sheet including the cost of electricity, LP gas, machineries etc.	per M.Ton	7,500.00	7,500.00	7,500.00	7,500.00
323	MS sheet for purlin of any thickness	per M.Ton	77,000.00	77,000.00	77,000.00	77,000.00
324	GP sheet for purlin of any thickness	per M.Ton	118,000.00	117,000.00	118,000.00	118,000.00
325	0.70 mm thick GP decking sheet of Grade 345 MPa	per M.Ton	127,000.00	127,000.00	127,000.00	127,000.00
326	0.47mm colour profile sheet	per M.Ton	145,000.00	145,000.00	145,000.00	145,000.00
327	Fastener/ roof, wall screw	per pcs	4.50	4.50	4.50	4.50
328	Decking screw/fastener	per pcs	8.00	8.00	8.00	8.00
329	Galvanized nut bolt of varying dia ASTM 325	per Kg	280.00	280.00	280.00	280.00
330	Galvanized nut bolt of varying dia ASTM 307	per Kg	250.00	250.00	250.00	250.00
331	Fabrication charge for roof/ wall sheet	per M.Ton	7,500.00	7,500.00	7,500.00	7,500.00
332	8 mm thick double bubble insulation	per sqm	147.00	147.00	147.00	147.00
333	Fabrication charge for decking panel	per M.Ton	9,000.00	9,000.00	9,000.00	9,000.00
334	Fabrication charge for Purlin	per M.Ton	8,400.00	8,400.00	8,400.00	8,400.00
335	Erection charge for built-up or hot rolled sections	per M.Ton	9,600.00	9,600.00	9,600.00	9,600.00
336	Erection charge for decking panel	per Kg	8.00	8.00	8.00	8.00
337	Erection charge for purlin	per Kg	4.00	4.00	4.00	4.00
338	Erection charge for roof/wall sheet including flashing and trims	per Kg	8.00	8.00	8.00	8.00
339	Fitting and fixing of double bubble insulation on roof and wall	sqm	50.00	50.00	50.00	50.00
340	CNC Machine cutting	sft	155.00	155.00	155.00	155.00
341	Safety Shade (with 22BWG MS sheet)	sft	42.75	42.75	42.75	42.75
342	Safety Net (chain link with 24BWG wire net)	sft	25.00	25.00	25.00	25.00
343	Erection and de-installation	per Kg	16.00	16.00	16.00	16.00
344	Galvanization at plant	per Kg	55.00	55.00	55.00	55.00
345	Anti corrosive epoxy paint	per litre	950.00	950.00	950.00	950.00
346	Anti corrosive red oxide paint	per litre	180.00	180.00	180.00	180.00
347	Thinner for anti corrosive red oxide paint	per litre	120.00	120.00	120.00	120.00
348	Red Oxide Primer	per kg	3.24	3.24	3.24	3.24
349	Labour charge for red oxide painting	per M.Ton	600.00	600.00	600.00	600.00
350	Labour charge for enamel painting	per M.Ton	3,500.00	3,500.00	3,500.00	3,500.00
351	Labour charge for application of non-shrink grout including the cost of making shutter	per cft	50.00	50.00	50.00	50.00
352	16 mm steel wire	per meter	126.00	126.00	126.00	126.00
353	16 mm I bolt with heal side washer and clamp	per set	178.00	178.00	178.00	178.00
354	12 mm I bolt with heal side washer and clamp	per set	157.00	157.00	157.00	157.00
355	Shear stud of variable dia of grade 275 MPa	per Kg	126.00	126.00	126.00	126.00
356	Making thread for sag rod	per Kg	13.00	13.00	13.00	13.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
357	Nut with washer for 12 mm dia sag rod	per Kg	155.00	155.00	155.00	155.00
358	cost of non-shrink grout per bag (25 kg)	per bag	1,500.00	1,500.00	1,500.00	1,500.00
359	Labour charge for wire bracing	per foot	12.00	12.00	12.00	12.00
360	Local carriage, load-unload	per M.Ton	1,700.00	1,700.00	1,700.00	1,700.00
C11	TILES / MARBLE STONE / GRANITE STONE					
361	18 mm thick marble stone, Indian standard quality (Bansowara/ Indian grey/ Indian pink or equivalent)	per sft	460.00	460.00	460.00	460.00
362	16 mm thick marble stone, Indian standard quality (Bansowara/ Indian grey/ Indian pink or equivalent)	per sft	420.00	420.00	420.00	420.00
363	12 mm thick marble stone, Indian standard quality (Bansowara/ Indian grey/ Indian pink or equivalent)	per sft	380.00	380.00	380.00	380.00
364	12 mm thick marble stone, Indian superior quality	per sft	410.00	410.00	410.00	410.00
365	18 mm thick marble stone, Indian superior quality	per sft	510.00	510.00	510.00	510.00
366	16 mm thick marble stone, Indian superior quality	per sft	430.00	430.00	430.00	430.00
367	18 mm thick marble stone, Italian or equivalent	per sft	650.00	650.00	650.00	650.00
368	12 mm thick marble stone, Italian or equivalent	per sft	600.00	600.00	600.00	600.00
369	Country made wall tiles less than , equal or equivalent to 250mmx330mm in sizes	per sft	48.00	48.00	48.00	48.00
370	Country made wall tiles more than 250 mm x 330 mm & less than 310 mm x 510 mm in sizes or equivalent	per sft	65.00	65.00	65.00	65.00
371	Country made wall tiles more than 310 mm X 510 mm in sizes or equivalent	per sft	85.00	85.00	85.00	85.00
372	Wall tiles less than, equal or equivalent to 250 mm x 750 mm in sizes	per sft	91.00	91.00	91.00	91.00
373	Country made decor tiles	per sft	103.00	103.00	103.00	103.00
374	Country made border Tiles	per sft	270.00	270.00	270.00	270.00
375	Country made rustic wall tiles less than or equal to 300 mm x 600 mm	per sft	92.00	92.00	92.00	92.00
376	GP (glazed/ unglazed homogeneous) 300 mm x 300 mm floor tiles country made	per sft	60.00	60.00	60.00	60.00
377	GP (glazed/ unglazed Homogeneous) 400 mm x 400 mm floor tiles country made	per sft	70.00	70.00	70.00	70.00
378	GP (homogeneous) 300 mm x 600 mm floor tiles	per sft	79.00	79.00	79.00	79.00
379	GP (homogeneous) 600 mm x 600 mm floor tiles	per sft	82.00	82.00	82.00	82.00
380	GP (homogeneous) 600 mm x 1200 mm floor tiles	per sft	184.00	184.00	184.00	184.00
381	GP (homogeneous) 305 mm x 305 mm high traffic floor tiles	per sft	67.00	67.00	67.00	67.00
382	GP (mirror polished) 300 mm x 300 mm floor tiles country made	per sft	65.00	65.00	65.00	65.00
383	GP (mirror polished) 400 mm x 400 mm floor tiles country made	per sft	82.00	82.00	82.00	82.00
384	GP (mirror polished) 600 mm x 600 mm floor tiles country made	per sft	105.00	105.00	105.00	105.00
385	GP (mirror polished) 500 mm x 500 mm floor tiles country made	per sft	92.00	92.00	92.00	92.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
386	GP (mirror polished) 800 mm x 800 mm floor tiles country made	per sft	115.00	115.00	115.00	115.00
387	GP (mirror polished) 600 mm x 900 mm country made	per sft	134.00	134.00	134.00	134.00
388	GP (mirror polished) 600 mm x 1200 mm country made	per sft	165.00	165.00	165.00	165.00
389	GP Mirror Polished (Double Charge) 600 mm x 600 mm floor tiles	per sft	121.00	121.00	121.00	121.00
390	GP Mirror Polished (Double Charge) 800 mm x 800 mm floor tiles	per sft	156.00	156.00	156.00	156.00
391	Matt or rustic floor tiles of size 400 mm x 400 mm and min. thick 8.4 mm (country made)	per sft	87.00	87.00	87.00	87.00
392	Matt or rustic floor tiles of size 600 mm x 600 mm and min. thick 9.8 mm (country made)	per sft	103.00	103.00	103.00	103.00
393	Matt or rustic floor tiles of size 800 mm x 800 mm and min. thick 9.8 mm (country made)	per sft	135.00	135.00	135.00	135.00
394	GP 300 mm x 300 mm stair tiles (country made)	per sft	68.00	68.00	68.00	68.00
395	GP 300 mm x 600 mm stair tiles (country made)	per sft	97.00	97.00	97.00	97.00
396	GP 300 mm x 600 mm (Double Charge) stair tiles (country made)	per sft	136.00	136.00	136.00	136.00
397	Stair tiles size 300 mm x 600 mm foreign (China/equivalent) made	per sft	110.00	110.00	110.00	110.00
398	Rustic stair tiles country made	per sft	90.00	90.00	90.00	90.00
399	Rustic stair tiles foreign (China/equivalent) made	per sft	95.00	95.00	95.00	95.00
400	Mirror polish 600 mm x 600 mm floor tiles foreign(China/equivalent) made	per sft	150.00	150.00	150.00	150.00
401	Mirror polish 800 mm x 800 mm floor tiles foreign(China/equivalent) made	per sft	170.00	170.00	170.00	170.00
402	Mirror polish 600 mm x 1200 mm floor tiles foreign(China/equivalent) made	per sft	300.00	300.00	300.00	300.00
403	Mirror polish 1000 mm x1000 mm floor tiles foreign(China/equivalent) made	per sft	400.00	400.00	400.00	400.00
404	Mirror polish1200 mm x 1200 mm floor tiles foreign(China/equivalent) made	per sft	500.00	500.00	500.00	500.00
405	Glazed / Matt or Semi polished 300 mm x 600 mm floor tiles(Spain or equivalent) made	per sft	425.00	425.00	425.00	425.00
406	Glazed / Matt or Semi polished 600 mm x 600 mm floor tiles(Spain or equivalent) made	per sft	435.00	435.00	435.00	435.00
407	Glazed / Matt or Semi polished 450 mm x 900 mm floor tiles(Spain or equivalent) made	per sft	450.00	450.00	450.00	450.00
408	Glazed / Matt or Semi polished 800 mm x 800 mm floor tiles(Spain or equivalent) made	per sft	550.00	550.00	550.00	550.00
409	Glazed / Matt or Semi polished 600 mm x 1200 mm floor tiles(Spain or equivalent) made	per sft	650.00	650.00	650.00	650.00
410	Matt or rustic floor tiles of size 600 mm x 600 mm and minimum thickness 9.8 mm foreign(China/equivalent) made	per sft	180.00	180.00	180.00	180.00
411	Matt or rustic floor tiles of size 600 mm x 900 mm and minimum thickness 9.8 mm foreign (China/Malaysia or equivalent) made	per sft	320.00	320.00	320.00	320.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
412	foreign (China/ equivalent) glazed wall tiles of size 300 mm x 600 mm with matching floor tiles, décor and border (if any)	per sft	160.00	160.00	160.00	160.00
413	foreign (Spain or equivalent) glazed wall tiles of size 200 mm x 600 mm	per sft	355.00	355.00	355.00	355.00
414	foreign (Spain or equivalent) glazed wall tiles of size 300 mm x 600 mm	per sft	380.00	380.00	380.00	380.00
415	foreign (Spain or equivalent) glazed wall tiles of size 450 mm x 900 mm	per sft	500.00	500.00	500.00	500.00
416	foreign (Spain or equivalent) glazed wall tiles of size 300 mm x 900 mm	per sft	565.00	565.00	565.00	565.00
417	foreign (China/equivalent) rustic wall tiles of size 300 mm x 600 mm with matching floor tiles, décor and border (if any)	per sft	160.00	160.00	160.00	160.00
418	20 mm to 25 mm thick machine made cement pavement tiles(country made)	per sft	50.00	50.00	50.00	50.00
419	Roof tiles of size 100 mm x 200 mm or equivalent (Red colour) (country made)	per % sft	14,690.00	14,690.00	14,690.00	14,690.00
420	Roof tiles of size 125 mm x 170 mm to 200 mm x 200 mm or equivalent (red colour) (country made)	per % sft	17,575.00	17,575.00	17,575.00	17,575.00
421	Roof tiles of size 160 mm x 268 mm or equivalent (red colour) (country made)	per % sft	15,600.00	15,600.00	15,600.00	15,600.00
422	Roof tiles of size 225 mm x 300 mm or larger (red colour) (country made)	per % sft	16,200.00	16,200.00	16,200.00	16,200.00
423	Flower shaped roof tiles of size 175 mm x 175 mm or equivalent (red colour) (country made)	per % sft	22,420.00	22,420.00	22,420.00	22,420.00
424	Roof tiles of size 100 mm x 200 mm or equivalent (beige colour) (country made)	per % sft	14,500.00	14,500.00	14,500.00	14,500.00
425	Roof tiles of size 125 mm x 170 mm to 200 mm x 200 mm or equivalent (beige colour) (country made)	per % sft	18,500.00	18,500.00	18,500.00	18,500.00
426	Roof tiles of size 225 mm x 300 mm or larger (beige colour)	per % sft	18,000.00	18,000.00	18,000.00	18,000.00
427	Flower shaped roof tiles of size 175 mm x 175 mm or equivalent (beige colour) (country made)	per % sft	23,600.00	23,600.00	23,600.00	23,600.00
428	Flower shaped roof tiles of size 175 mm x 175 mm or equivalent (grey or black colour) (country made)	per % sft	26,200.00	26,200.00	26,200.00	26,200.00
429	Pasting tiles adhesive	per kg	21.00	21.00	21.00	21.00
430	Tiles grout / joint filler	per kg	85.00	85.00	85.00	85.00
431	18 mm thick granite stone (Indian/equivalent)	per sft	550.00	550.00	550.00	550.00
432	18 mm thick granite stone (Italian/equivalent)	per sft	650.00	650.00	650.00	650.00
433	12 mm thick granite stone(Indian/equivalent)	per sft	400.00	400.00	400.00	400.00
434	12 mm thick granite stone(Italian/equivalent)	per sft	500.00	500.00	500.00	500.00
435	14-22 mm thick natural Kota stone (Indian or equivalent)	per sft	270.00	270.00	270.00	270.00
436	foreign (China/ Malaysia or equivalent) swimming pool wall /floor tiles of size 115 mm x 240 mm	per sft	190.00	190.00	190.00	190.00
437	Acid stone	each	450.00	450.00	450.00	450.00
438	Water Proofing Paper (12 Size)	each	22.00	22.00	22.00	22.00
439	Water Proofing Paper (320 Size)	each	24.00	24.00	24.00	24.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
C12	PROPS / PIPES / I-SECTION/BOX CHANNEL FOR CONCRETING WORK					
440	Bamboo prop including top supports	each	138.00	138.00	138.00	138.00
441	Salballah prop including top supports	each	1,150.00	1,150.00	1,150.00	1,150.00
442	50 mm/2" dia M.S. pipe	per foot	162.00	162.00	162.00	162.00
443	38 mm/1.5" dia M.S. pipe	per foot	135.00	135.00	135.00	135.00
444	19 mm/0.75" dia M.S. pipe	per foot	66.00	66.00	66.00	66.00
445	38 mm dia swivel clamp	each	85.00	85.00	85.00	85.00
446	32 mm dia MS nipple	each	75.00	75.00	75.00	75.00
447	50 mm/2" dia G.I. pipe	per foot	215.00	215.00	215.00	215.00
448	38 mm/1.5" dia G.I. pipe	per foot	175.00	175.00	175.00	175.00
449	19 mm/3/4" dia G.I. pipe	per foot	82.00	82.00	82.00	82.00
450	13 mm/1/2" dia G.I. pipe	per foot	61.00	61.00	61.00	61.00
451	Adjustable mechanism including top and bottom plate	per set	624.00	624.00	624.00	624.00
452	I-section joist to support inclined prop	per foot	425.00	425.00	425.00	425.00
453	4" x 2" M.S. box channel with 1/8" thick M.S. sheet	per foot	370.00	370.00	370.00	370.00
454	Steel prop with adjustable mechanism including top and bottom plate	per set	1,700.00	1,700.00	1,700.00	1,700.00
455	Turn-buckle including tie rod	per set	450.00	450.00	450.00	450.00
C13	PAINT / POLISHING					
456	Standard exterior emulsion paint	per litre	310.00	310.00	310.00	310.00
457	Premium exterior emulsion paint	per litre	430.00	430.00	430.00	430.00
458	Sealer for exterior emulsion paint	per litre	195.00	195.00	195.00	195.00
459	Standard Silicon based paint/coating	per litre	350.00	350.00	350.00	350.00
460	Premium Silicon based paint/coating	per litre	950.00	950.00	950.00	950.00
461	Ready-mix putty (exterior)	per kg	64.00	64.00	64.00	64.00
462	Ready-mix putty (interior)	per kg	80.00	80.00	80.00	80.00
463	Thinner for oil-based paint (turpentine) for general purpose	per litre	130.00	130.00	130.00	130.00
464	Synthetic polyvinyl (S.P.) distemper	per litre	102.00	102.00	102.00	102.00
465	Synthetic polyvinyl (S.P.) distemper primer /sealer	per litre	175.00	175.00	175.00	175.00
466	Acrylic plastic emulsion paint (plastic/matt finish)	per litre	245.00	245.00	245.00	245.00
467	Acrylic plastic emulsion paint (silky finish)	per litre	437.00	437.00	437.00	437.00
468	Acrylic plastic emulsion paint (odorless)	per litre	669.00	669.00	669.00	669.00
469	Sealer for acrylic plastic emulsion paint	per litre	172.00	172.00	172.00	172.00
470	Standard synthetic enamel paint	per litre	220.00	220.00	220.00	220.00
471	Premium synthetic enamel paint	per litre	290.00	290.00	290.00	290.00
472	Oil based anticorrosive primer	per litre	196.00	196.00	196.00	196.00
473	Thinner for oil-based paint (turpentine) for general purpose	per litre	130.00	130.00	130.00	130.00
474	Chlorinated rubber paint	per litre	638.00	638.00	638.00	638.00
475	Chlorinated rubber sealer	per litre	503.00	503.00	503.00	503.00
476	Chlorinated rubber paint thinner	per litre	208.00	208.00	208.00	208.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
477	Ultra Violet (UV) Lacquer Polish on both sides of wooden surface	per sft	350.00	350.00	350.00	350.00
478	Standard Duco Paint	per litre	1,700.00	1,700.00	1,700.00	1,700.00
479	Premium Duco Paint	per litre	1,950.00	1,950.00	1,950.00	1,950.00
480	Standard Tua colour	per litre	270.00	270.00	270.00	270.00
481	Premium Tua colour	per litre	340.00	340.00	340.00	340.00
482	Standard NC Thinner for duco paint	per gallon	700.00	700.00	700.00	700.00
483	Premium NC Thinner for duco paint	per gallon	1,000.00	1,000.00	1,000.00	1,000.00
484	Standard Al Karin Astor	per gallon	850.00	850.00	850.00	850.00
485	Premium Al Karin Astor	per gallon	1,180.00	1,180.00	1,180.00	1,180.00
486	Hardener (putty) for doco paint	per litre	1,300.00	1,300.00	1,300.00	1,300.00
487	Hardener (hyco.mat)	per litre	2,200.00	2,200.00	2,200.00	2,200.00
488	steel Formica	each	25.00	25.00	25.00	25.00
489	Wood grain filler	per kg	820.00	820.00	820.00	820.00
490	PU base coat clear sealer	per litre	520.00	520.00	520.00	520.00
491	PU top coat pigmented	per litre	1,050.00	1,050.00	1,050.00	1,050.00
492	PU general purpose hardener	per litre	695.00	695.00	695.00	695.00
493	Wood putty clear	per kg	900.00	900.00	900.00	900.00
494	Solvent stain teak	per litre	1,505.00	1,505.00	1,505.00	1,505.00
495	Solvent stain walnut	per litre	3,000.00	3,000.00	3,000.00	3,000.00
496	Solvent stain mahogany	per litre	3,000.00	3,000.00	3,000.00	3,000.00
497	Thermo plastic paint	per litre	1,375.00	1,375.00	1,375.00	1,375.00
498	Epoxy enamel primer including base, curing agent & thinner	per litre	520.00	520.00	520.00	520.00
499	Epoxy enamel paint including base, curing agent & thinner	per litre	450.00	450.00	450.00	450.00
500	Textured coating including sealer, texture coat & top coat	per litre	270.00	270.00	270.00	270.00
501	Wood varnishing: Yacht (alkyd based)	per litre	280.00	280.00	280.00	280.00
502	Wood varnishing: Egg-shell (alkyd based)	per litre	280.00	280.00	280.00	280.00
503	Wood varnishing: Matt (alkyd based)	per litre	290.00	290.00	290.00	290.00
504	Thinner for alkyd based wood varnishing	per litre	131.00	131.00	131.00	131.00
505	Self leveling epoxy coating (3 mm thickness)	per sft	135.00	135.00	135.00	135.00
506	Self leveling epoxy coating (4 mm thickness)	per sft	161.00	161.00	161.00	161.00
507	Self leveling epoxy coating (5 mm thickness)	per sft	225.00	225.00	225.00	225.00
508	Oxalic acid	per litre	105.00	105.00	105.00	105.00
509	Wax for polishing	per kg	300.00	300.00	300.00	300.00
510	Design Paint including base coat, design coat & protection coat	per litre	417.00	417.00	417.00	417.00
French-Polishing						
511	French powder	per kg	30.00	30.00	30.00	30.00
512	Spirit	per lb	150.00	150.00	150.00	150.00
513	Gala	per kg	900.00	900.00	900.00	900.00
514	Karpa	per kg	550.00	550.00	550.00	550.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	Rajshahi, Rangpur
515	Sand paper	each	16.00	16.00	16.00	16.00
516	Putty	per kg	107.00	107.00	107.00	107.00
517	Markin cloth	per yard	12.00	12.00	12.00	12.00
518	Shari cloth	each	30.00	30.00	30.00	30.00
519	Tuli / Hockey brush	each	30.00	30.00	30.00	30.00
520	Cotton	per lbs	105.00	105.00	105.00	105.00
C14	ALUMINIUM :					
	I. Aluminium Channel / Sections: Rate per foot					
521	101.60 mm, 44.45 mm wall frame of 1.5 mm thick (Anodized at any colour)	per foot	154.50	154.50	154.50	154.50
522	101.60 mm, 44.45 mm wall frame of 1.5 mm thick (Powder coated at any colour)	per foot	177.50	177.50	177.50	177.50
523	54 mm, 46 mm shutter side of 2.0 mm thick (Anodized at any colour)	per foot	139.00	139.00	139.00	139.00
524	54 mm, 46 mm shutter side of 2.0 mm thick (Powder coated at any colour)	per foot	169.50	169.50	169.50	169.50
525	16.54 mm, 15.49 mm Door glass bit of 0.99 mm thick (Anodized at any colour)	per foot	19.00	19.00	19.00	19.00
526	16.54 mm, 15.49 mm Door glass bit of 0.99 mm thick (Powder coated at any colour)	per foot	20.50	20.50	20.50	20.50
527	101.60 mm, 42.93 mm closure section of 1.8 mm thick (Anodized at any colour)	per foot	134.00	134.00	134.00	134.00
528	101.60 mm, 42.93 mm closure section of 1.8 mm thick (Powder coated at any colour)	per foot	161.00	161.00	161.00	161.00
529	101.60 mm closure cover of 1.5 mm thick (Anodized at any colour)	per foot	51.00	51.00	51.00	51.00
530	101.60 mm closure cover of 1.5 mm thick (Powder coated at any colour)	per foot	62.00	62.00	62.00	62.00
531	101.60 mm, 12.70 mm floor bottom of 4 mm thick (Anodized at any colour)	per foot	140.00	140.00	140.00	140.00
532	101.60 mm, 12.70 mm floor bottom of 4 mm thick (Powder coated at any colour)	per foot	172.50	172.50	172.50	172.50
533	82.60 mm, 43.99 mm door shutter bottom of 1.8 mm thick (Anodized at any colour)	per foot	176.00	176.00	176.00	176.00
534	82.60 mm, 43.99 mm door shutter bottom of 1.8 mm thick (Powder coated at any colour)	per foot	205.50	205.50	205.50	205.50
535	51 mm, 43.99 mm door shutter top of 1.8 mm thick (Anodized at any colour)	per foot	147.00	147.00	147.00	147.00
536	51 mm, 43.99 mm door shutter top of 1.8 mm thick (Powder coated at any colour)	per foot	169.00	169.00	169.00	169.00
537	101.60 mm, 38.10 mm, 25.4 mm door handle (short) of 2.3 mm, 2.3 mm, 4.01 mm thick (Anodized at any colour)	per foot	194.00	194.00	194.00	194.00
538	101.60 mm, 38.10 mm, 25.4 mm door handle (short) of 2.3 mm, 2.3 mm, 4.01 mm thick (Powder coated at any colour)	per foot	227.50	227.50	227.50	227.50
539	101.60 mm, 44.45 mm top & side minimum 1.2 mm thick (Anodized at any colour)	per foot	180.00	180.00	180.00	180.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
540	101.60 mm, 44.45 mm top & side minimum 1.2 mm thick (Powder coated at any colour)	per foot	196.00	196.00	196.00	196.00
541	101.35 mm, 44.45 mm bottom of minimum 1.2 mm thick (Anodized at any colour)	per foot	108.00	108.00	108.00	108.00
542	101.35 mm, 44.45 mm bottom of minimum 1.2 mm thick (Powder coated at any colour)	per foot	151.00	151.00	151.00	151.00
543	44.32 mm, 19.61 mm fixed bottom cover of minimum 1.2 mm thick (Anodized at any colour)	per foot	55.00	55.00	55.00	55.00
544	44.32 mm, 19.61 mm fixed bottom cover of minimum 1.2 mm thick (Powder coated at any colour)	per foot	67.50	67.50	67.50	67.50
545	83.21mm, 16.00 mm fixed groove cover of minimum 1.2 mm thick (Anodized at any colour)	per foot	81.00	81.00	81.00	81.00
546	83.21mm, 16.00 mm fixed groove cover of minimum 1.2 mm thick (Powder coated at any colour)	per foot	96.00	96.00	96.00	96.00
547	39.09mm, 14.81mm fixed glass protector of 1.0 mm thick (Anodized at any colour)	per foot	27.00	27.00	27.00	27.00
548	39.09mm, 14.81mm fixed glass protector of 1.0 mm thick (Powder coated at any colour)	per foot	34.00	34.00	34.00	34.00
549	15.75 mm, 14.81mm fixed glass protector bit of 0.99 mm thick (Anodized at any colour)	per foot	19.00	19.00	19.00	19.00
550	15.75 mm, 14.81mm fixed glass protector bit of 0.99 mm thick (Powder coated at any colour)	per foot	23.00	23.00	23.00	23.00
551	75.50 mm, 17.79 mm outer low bottom of minimum 1.2 mm thick (Anodized at any colour)	per foot	90.00	90.00	90.00	90.00
552	75.50 mm, 17.79 mm outer low bottom of minimum 1.2 mm thick (Powder coated at any colour)	per foot	113.00	113.00	113.00	113.00
553	75.5 mm, 28.50 mm outer top of minimum 1.2 mm thick (Anodized at any colour)	per foot	106.00	106.00	106.00	106.00
554	75.5 mm, 28.50 mm outer top of minimum 1.2 mm thick (Powder coated at any colour)	per foot	126.00	126.00	126.00	126.00
555	33 mm, 26.80 mm, shutter top of minimum 1.2 mm thick (Anodized at any colour)	per foot	64.00	64.00	64.00	64.00
556	33 mm, 26.80 mm, shutter top of 1.3 mm thick (Powder coated at any colour)	per foot	87.50	87.50	87.50	87.50
557	60 mm, 24.40 mm shutter bottom of minimum 1.2 mm thick (Anodized at any colour)	per foot	89.00	89.00	89.00	89.00
558	60 mm, 24.40 mm shutter bottom of minimum 1.2 mm thick (Powder coated at any colour)	per foot	123.50	123.50	123.50	123.50
559	75.50 mm, 19.90 mm outer side of minimum 1.2 mm thick (Anodized at any colour)	per foot	80.00	80.00	80.00	80.00
560	75.50 mm, 19.90 mm outer side of minimum 1.2 mm thick (Powder coated at any colour)	per foot	105.00	105.00	105.00	105.00
561	49.20 mm, 25.80 mm shutter lock of minimum 1.2 mm thick (Anodized at any colour)	per foot	82.00	82.00	82.00	82.00
562	49.20 mm, 25.80 mm shutter lock of minimum 1.2 mm thick (Powder coated at any colour)	per foot	116.50	116.50	116.50	116.50
563	34.40 mm, 32.10 mm shutter inter lock of minimum 1.2 mm thick (Anodized at any colour)	per foot	85.00	85.00	85.00	85.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
564	34.40 mm, 32.10 mm shutter inter lock of minimum 1.2 mm thick (Powder coated at any colour)	per foot	111.00	111.00	111.00	111.00
565	31.75 mm shutter divider of minimum 1.2 mm thick (Anodized at any colour)	per foot	68.00	68.00	68.00	68.00
566	31.75 mm shutter divider of minimum 1.2 mm thick (Powder coated at any colour)	per foot	82.00	82.00	82.00	82.00
567	7.14 mm spandrel of 1.5 mm thick (Anodized at any colour)	per foot	118.50	118.50	118.50	118.50
568	7.14 mm spandrel of 1.5 mm thick (Powder coated at any colour)	per foot	138.00	138.00	138.00	138.00
569	75.50 mm, 32 mm outer bottom (high) of minimum 1.2 mm thick (Anodized at any colour)	per foot	98.00	98.00	98.00	98.00
570	75.50 mm, 32 mm outer bottom (high) of minimum 1.2 mm thick (Powder coated at any colour)	per foot	123.50	123.50	123.50	123.50
571	95 mm, 22.39 mm outer bottom (low) of minimum 1.2 mm thick (Anodized at any colour)	per foot	105.50	105.50	105.50	105.50
572	95 mm, 22.39 mm outer bottom (low) of minimum 1.2 mm thick (Powder coated at any colour)	per foot	121.00	121.00	121.00	121.00
573	95.5 mm, 28.50 mm outer top of minimum 1.2 mm thick (Anodized at any colour)	per foot	119.00	119.00	119.00	119.00
574	95.5 mm, 28.50 mm outer top of minimum 1.2 mm thick (Powder coated at any colour)	per foot	180.00	180.00	180.00	180.00
575	17.40 mm, 31.78 mm bottom cover of minimum 1.2 mm thick (Anodized at any colour)	per foot	41.00	41.00	41.00	41.00
576	17.40 mm, 31.78 mm bottom cover of minimum 1.2 mm thick (Powder coated at any colour)	per foot	53.50	53.50	53.50	53.50
577	76.20 mm, 38.10 mm fixed bottom of minimum 1.2 mm thick (Anodized at any colour)	per foot	121.00	121.00	121.00	121.00
578	76.20 mm, 38.10 mm fixed bottom of minimum 1.2 mm thick (Powder coated at any colour)	per foot	139.00	139.00	139.00	139.00
579	57.15 mm, 15.88 mm grouve cover of minimum 1.2 mm thick (Anodized at any colour)	per foot	62.00	62.00	62.00	62.00
580	57.15 mm, 15.88 mm grouve cover of minimum 1.2 mm thick (Powder coated at any colour)	per foot	81.00	81.00	81.00	81.00
581	76.20 mm, 38.10 mm, 57.15 mm fixed top & side of minimum 1.2 mm thick (Anodized at any colour)	per foot	134.00	134.00	134.00	134.00
582	76.20 mm, 38.10 mm, 57.15 mm fixed top & side of minimum 1.2 mm thick (Powder coated at any colour)	per foot	156.50	156.50	156.50	156.50
583	38.88 mm, 36.63 mm casement outer 1.5 mm thick (Anodized at any colour)	per foot	57.00	57.00	57.00	57.00
584	38.88 mm, 36.63 mm casement outer 1.5 mm thick (Powder coated at any colour)	per foot	66.50	66.50	66.50	66.50
585	47.62 mm, 28.57 mm, 40.82 mm casement shutter of 1.9 mm thick (Anodized at any colour)	per foot	98.00	98.00	98.00	98.00
586	47.62 mm, 28.57 mm, 40.82 mm casement shutter of 1.9 mm thick (Powder coated at any colour)	per foot	116.00	116.00	116.00	116.00
587	15.87 mm, 27.00 mm casement glass clip of 1.245 mm thick (Anodized at any colour)	per foot	29.00	29.00	29.00	29.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
588	15.87 mm, 27.00 mm casement glass clip of 1.245 mm thick(Powder coated at any colour)	per foot	33.50	33.50	33.50	33.50
589	76.00 mm, 38.10 mm wall frame of minimum 1.2 mm thick (Anodized at any colour)	per foot	97.00	97.00	97.00	97.00
590	76.00 mm, 38.10 mm wall frame of minimum 1.2 mm thick (Powder coated at any colour)	per foot	123.00	123.00	123.00	123.00
591	55.02 mm, 37.39 mm louver Z-section of 1.5 mm thick (Anodized at any colour)	per foot	54.00	54.00	54.00	54.00
592	55.02 mm, 37.39 mm louver Z-section of 1.5 mm thick (Powder coated at any colour)	per foot	62.00	62.00	62.00	62.00
593	39.67 mm, 15.06 mm louver outer U-section of minimum 1.2 mm thick (Anodized at any colour)	per foot	39.00	39.00	39.00	39.00
594	39.67 mm, 15.06 mm louver outer U-section of minimum 1.2 mm thick (Powder coated at any colour)	per foot	47.50	47.50	47.50	47.50
595	95.00 mm, 38.00 mm outer bottom of minimum 1.2 mm thick (Anodized at any colour)	per foot	119.00	119.00	119.00	119.00
596	95.00 mm, 38.00 mm outer bottom of minimum 1.2 mm thick (Powder coated at any colour)	per foot	150.00	150.00	150.00	150.00
597	95.00 mm, 28.50 mm outer top of minimum 1.2 mm thick (Anodized at any colour)	per foot	119.00	119.00	119.00	119.00
598	95.00 mm, 28.50 mm outer top of minimum 1.2 mm thick (Powder coated at any colour)	per foot	180.00	180.00	180.00	180.00
599	95.00 mm, 19.50 mm outer side of minimum 1.2 mm thick (Anodized at any colour)	per foot	95.00	95.00	95.00	95.00
600	95.00 mm, 19.50 mm outer side of minimum 1.2 mm thick (Powder coated at any colour)	per foot	126.50	126.50	126.50	126.50
601	42.2 mm, 13.2 mm net section of minimum 1.2 mm thickness (Anodized at any colour)	per foot	61.00	61.00	61.00	61.00
602	42.2 mm, 13.2 mm net section of minimum 1.2 mm thickness (Powder coated at any colour)	per foot	79.00	79.00	79.00	79.00
603	91.50 mm, 38.00 mm outer bottom of 1.5 mm thick EDF(Anodized at any colour)	per foot	124.50	124.50	124.50	124.50
604	91.50 mm, 38.00 mm outer bottom of 1.5 mm thick EDF(Powder coated at any colour)	per foot	143.00	143.00	143.00	143.00
605	91.00 mm, 28.70 mm outer top of 1.5 mm thick EDF(Anodized at any colour)	per foot	133.00	133.00	133.00	133.00
606	91.00 mm, 28.70 mm outer top of 1.5 mm thick EDF(Powder coated at any colour)	per foot	152.50	152.50	152.50	152.50
607	65.00 mm, 27.30 mm shutter top of 1.5 mm thick EDF(Anodized at any colour)	per foot	119.00	119.00	119.00	119.00
608	65.00 mm, 27.30 mm shutter top of 1.5 mm thick EDF(Powder coated at any colour)	per foot	136.00	136.00	136.00	136.00
609	72.20 mm, 24.65 mm shutter bottom of 1.5 mm thick EDF(Anodized at any colour)	per foot	129.00	129.00	129.00	129.00
610	72.20 mm, 24.65 mm shutter bottom of 1.5 mm thick EDF(Powder coated at any colour)	per foot	148.00	148.00	148.00	148.00
611	91.50 mm, 28.50 mm outer side of 1.5 mm thick EDF(Anodized at any colour)	per foot	125.50	125.50	125.50	125.50

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
612	91.50 mm, 28.50 mm outer side of 1.5 mm thick EDF (Powder coated at any colour)	per foot	144.00	144.00	144.00	144.00
613	65.30 mm, 26.00 mm shutter lock of 1.5 mm thick EDF (Anodized at any colour)	per foot	109.50	109.50	109.50	109.50
614	65.30 mm, 26.00 mm shutter lock of 1.5 mm thick EDF (Powder coated at any colour)	per foot	125.50	125.50	125.50	125.50
615	55.20 mm, 26.00 mm inter lock of 1.5 mm thick EDF (Anodized at any colour)	per foot	118.00	118.00	118.00	118.00
616	55.20 mm, 26.00 mm inter lock of 1.5 mm thick EDF (Powder coated at any colour)	per foot	135.00	135.00	135.00	135.00
617	55.20 mm, 13.20 mm net section of 1.5 mm thick EDF (Anodized at any colour)	per foot	85.50	85.50	85.50	85.50
618	55.20 mm, 13.20 mm net section of 1.5 mm thick EDF (Powder coated at any colour)	per foot	98.00	98.00	98.00	98.00
619	1 in square pipe (Anodized at any colour)	per foot	41.00	41.00	41.00	41.00
620	1 in square pipe (Powder coated at any colour)	per foot	52.50	52.50	52.50	52.50
621	Mosquito net (fiber net)	per sft	20.00	20.00	20.00	20.00
622	T-section (main T) for false ceiling (Anodized at any colour)	per foot	28.00	28.00	28.00	28.00
623	T-section (main T) for false ceiling (Powder coated at any colour)	per foot	30.00	30.00	30.00	30.00
624	T-section (cross T) for false ceiling (Anodized at any colour)	per foot	24.00	24.00	24.00	24.00
625	T-section (cross T) for false ceiling (Powder coated at any colour)	per foot	26.00	26.00	26.00	26.00
626	L-section for wall and ceiling (Anodized at any colour)	per foot	23.00	23.00	23.00	23.00
627	L-section for wall and ceiling (Powder coated at any colour)	per foot	25.00	25.00	25.00	25.00
628	Aluminium curtain rail including hard-wares and fittings (Anodized at any colour)	per foot	31.00	31.00	31.00	31.00
629	Aluminium curtain rail including hard-wares and fittings (Powder coated at any colour)	per foot	38.50	38.50	38.50	38.50
630	44 mm, 44 mm, 1.50 mm thick box (Anodized at any colour)	per foot	117.00	117.00	117.00	117.00
631	44 mm, 44 mm, 1.50 mm thick box (Powder coated at any colour)	per foot	134.00	134.00	134.00	134.00
632	25 mm, 25 mm, 1.50 mm thick angle (Anodized at any colour)	per foot	49.50	49.50	49.50	49.50
633	25 mm, 25 mm, 1.50 mm thick angle (Powder coated at any colour)	per foot	59.50	59.50	59.50	59.50
634	50 mm, 25 mm, 1.5 mm thick box (Anodized at any colour)	per foot	110.50	110.50	110.50	110.50
635	50 mm, 25 mm, 1.5 mm thick box (Powder coated at any colour)	per foot	127.00	127.00	127.00	127.00
636	25 mm, 32 mm, 3.0 mm thick fitting angle (Anodized at any colour)	per foot	71.00	71.00	71.00	71.00
637	25 mm, 32 mm, 3.0 mm thick fitting angle (Powder coated at any colour)	per foot	80.50	80.50	80.50	80.50
638	25 mm, 25 mm, 2.0 mm thick box (Anodized at any colour)	per foot	93.50	93.50	93.50	93.50
639	25 mm, 25 mm, 2.0 mm thick box (Powder coated at any colour)	per foot	119.00	119.00	119.00	119.00
640	Aluminium composite Panel Fire Rated	per sft	550.00	550.00	550.00	550.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
641	Curtain wall sub mullium (134mm X70 mm X 3.5 mm) (Anodized at any colour)	per foot	728.00	728.00	728.00	728.00
642	Curtain wall sub mullium (134mm X70 mm X 3.5 mm) (Powder coated at any colour)	per foot	835.00	835.00	835.00	835.00
643	Curtain wall sub mullium (100mm X 50 mm X 2.00 mm) (Anodized at any colour)	per foot	333.00	333.00	333.00	333.00
644	Curtain wall sub mullium (100mm X 50 mm X 2.00 mm) (Powder coated at any colour)	per foot	365.50	365.50	365.50	365.50
645	Curtain wall sub mullium (50mm X 50 mm X 2.00 mm) (Anodized at any colour)	per foot	212.00	212.00	212.00	212.00
646	Curtain wall sub mullium (50mm X 50 mm X 2.00 mm) (Powder coated at any colour)	per foot	243.00	243.00	243.00	243.00
647	Casement outer frame (29mm X 20 mm X 1.50 mm) (Anodized at any colour)	per foot	30.00	30.00	30.00	30.00
648	Casement outer frame (29mm X 20 mm X 1.50 mm) (Powder coated at any colour)	per foot	33.50	33.50	33.50	33.50
649	Casement shutter section (58.40 mm X 37.20 mm X 57.40 mm X 3.0 mm) (Anodized at any colour)	per foot	160.00	160.00	160.00	160.00
650	Casement shutter section (58.40 mm X 37.20 mm X 57.40 mm X 3.0 mm) (Powder coated at any colour)	per foot	208.00	208.00	208.00	208.00
651	Aluminium angle (50 mm X 50 mm X 6 mm) (Anodized at any colour)	per foot	249.00	249.00	249.00	249.00
652	Aluminium angle (50 mm X 50 mm X 6 mm) (Powder coated at any colour)	per foot	294.00	294.00	294.00	294.00
653	Aluminium cover (63.50 mm X 25.60 mm X 2.0 mm) (Anodized at any colour)	per foot	79.00	79.00	79.00	79.00
654	Aluminium cover (63.50 mm X 25.60 mm X 2.0 mm) (Powder coated at any colour)	per foot	81.50	81.50	81.50	81.50
655	50mm X 6 mm X 2 mm angle for casement shutter (Anodized at any colour)	per foot	83.00	83.00	83.00	83.00
656	50 mm X 6 mm X 2 mm angle for casement shutter (Powder coated at any colour)	per foot	82.00	82.00	82.00	82.00
657	38 mm x 38 mm Aluminium frame (Wall box) of 2.0 mm (Anodized at any colour)	per foot	136.00	136.00	136.00	136.00
658	38 mm x 38 mm Aluminium frame (Wall box) of 2.0 mm (Powder coated at any colour)	per foot	158.50	158.50	158.50	158.50
659	20 mm Aluminium pipe (Anodized at any colour)	per foot	95.00	119.50	119.50	119.50
660	20 mm Aluminium pipe (Powder coated at any colour)	per foot	125.50	125.50	125.50	125.50
661	44 mm X 44 mm aluminium box	per foot	82.00	82.00	82.00	82.00
662	25 mm Aluminium pipe	per foot	140.00	140.00	140.00	140.00
663	100 mm x 25 mm wall frame of 1.20 mm thick	per foot	137.50	137.50	137.50	137.50
664	125 mm x 50 mm aluminium box section	per foot	342.00	342.00	342.00	342.00
665	Butterfly hanger	per foot	43.50	43.50	43.50	43.50
II. Accessories for aluminium door-window works						
666	Swing door closure	set	3,200.00	3,200.00	3,200.00	3,200.00
667	Swing door lock	set	750.00	750.00	750.00	750.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
668	Swing door Mohiar	foot	5.00	5.00	5.00	5.00
669	Fixed Neoprene	foot	3.00	3.00	3.00	3.00
670	Flush bolt	set	320.00	320.00	320.00	320.00
671	Argon gas charge for double glazing glass	sft	30.00	30.00	30.00	30.00
672	Insulated Gum/Structural silicon for Gas sealing in double glazing glass	sft	70.00	70.00	70.00	70.00
673	Aluminium slp,desiccant(silica gel) for double glazing glass	sft	50.00	50.00	50.00	50.00
674	1.52 mm thick PVB lamination	per foot	250.00	250.00	250.00	250.00
675	1/2" x 2.5" nut-bolt	set	32.00	32.00	32.00	32.00
676	Sliding door lock	set	200.00	200.00	200.00	200.00
677	Sliding door show lock	set	110.00	110.00	110.00	110.00
678	Sliding door /window wheel	no	80.00	80.00	80.00	80.00
679	Sliding door /window Mohiar	foot	1.50	1.50	1.50	1.50
680	Sliding Neoprene	foot	2.80	2.80	2.80	2.80
681	Sealant	gm	3.10	3.10	3.10	3.10
682	Sliding window key lock	set	90.00	90.00	90.00	90.00
683	Bolts and Screws including sealants	LS	75.00	75.00	75.00	75.00
684	4-bar hinge	each	750.00	750.00	750.00	750.00
685	Casement handle	each	252.00	252.00	252.00	252.00
686	Rivet	each	5.00	5.00	5.00	5.00
687	Rivets (normal)	each	2.00	2.00	2.00	2.00
688	S.S. screws	each	2.50	2.50	2.50	2.50
689	Screws	each	1.00	1.00	1.00	1.00
690	5 mm tinted glass	sft	90.00	90.00	90.00	90.00
691	5 mm tinted tempered glass	sft	155.00	155.00	155.00	155.00
692	5 mm clear glass	sft	71.00	71.00	71.00	71.00
693	5 mm clear tempered glass	sft	162.00	162.00	162.00	162.00
694	5 mm ambushed glass	sft	70.00	70.00	70.00	70.00
695	5 mm reflective glass	sft	102.00	102.00	102.00	102.00
696	5 mm reflective tempered glass	sft	190.00	190.00	190.00	190.00
697	6 mm clear glass	sft	90.00	90.00	90.00	90.00
698	6 mm clear tempered glass	sft	190.00	190.00	190.00	190.00
699	6 mm ambushed glass	sft	170.00	170.00	170.00	170.00
700	6 mm reflective glass	sft	115.00	115.00	115.00	115.00
701	6 mm reflective tempered glass	sft	187.00	187.00	187.00	187.00
702	6 mm low-E clear glass	sft	195.00	195.00	195.00	195.00
703	6 mm low-E clear tempered glass	sft	280.00	280.00	280.00	280.00
704	8 mm clear glass	sft	130.00	130.00	130.00	130.00
705	8 mm clear tempered glass	sft	255.00	255.00	255.00	255.00
706	8 mm low-E clear glass	sft	235.00	235.00	235.00	235.00
707	8 mm low-E clear tempered glass	sft	355.00	355.00	355.00	355.00
708	10 mm clear glass	sft	142.00	142.00	142.00	142.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
709	10 mm clear tempered glass	sft	280.00	280.00	280.00	280.00
710	12 mm clear glass	sft	195.00	195.00	195.00	195.00
711	12 mm clear tempered glass	sft	400.00	400.00	400.00	400.00
712	Rubber gasket	rft	2.00	2.00	2.00	2.00
713	Aluminium sheet	Kg.	405.00	405.00	405.00	405.00
714	Protector bit (Single)	foot	20.00	20.00	20.00	20.00
715	Protector bit (Double)	foot	28.10	28.10	28.10	28.10
716	Silicon (1 piece 300 mm)	each	325.00	325.00	325.00	325.00
717	75 mm rowel bolt	each	75.00	75.00	75.00	75.00
718	55 mm rowel bolt	each	21.00	21.00	21.00	21.00
719	100 mm longs SS hinge	each	100.00	100.00	100.00	100.00
720	Locking arrangement with magnet	each	250.00	250.00	250.00	250.00
721	Steel rowel bolt	each	42.00	42.00	42.00	42.00
722	Norton Tap	each	28.00	28.00	28.00	28.00
723	Masking tape	each	25.00	25.00	25.00	25.00
724	Structural sealant	each	12.50	12.50	12.50	12.50
725	Casement 4-bar huge	each	520.00	520.00	520.00	520.00
726	Casement handle	each	252.00	252.00	252.00	252.00
727	Sealant Gum	each	405.00	405.00	405.00	405.00
728	Arm lock	each	420.00	420.00	420.00	420.00
729	M.S. angle	each	115.00	115.00	115.00	115.00
730	Curtain wall jointer	each	345.00	345.00	345.00	345.00
731	Dow coling silicon gum	pcs	675.00	675.00	675.00	675.00
732	Fin connector	each	4,430.00	4,430.00	4,430.00	4,430.00
733	Fin hanger	each	5,245.00	5,245.00	5,245.00	5,245.00
734	Thread Rod	per rft	30.00	30.00	30.00	30.00
735	MS "U" bar /channel	each	50.00	50.00	50.00	50.00
736	1.5 mm thick 12 mm x 12 mm aluminium U channel	foot	45.00	45.00	45.00	45.00
737	1.5 mm thick 38 mm x 18 mm aluminium U channel	foot	95.00	95.00	95.00	95.00
738	62 mm x 25 mm alluminium U Channel	foot	175.00	175.00	175.00	175.00
739	SS U Channel	foot	205.00	205.00	205.00	205.00
740	3 mm SS Channel	foot	100.00	100.00	100.00	100.00
741	SS Spider Set	each	9,500.00	9,500.00	9,500.00	9,500.00
742	S.S. angle	each	100.00	100.00	100.00	100.00
743	8 mm thick PVC board of size 600 x 600 mm	per sft	55.00	55.00	55.00	55.00
744	6 mm thick PVC board of size 600 x 600 mm	per sft	45.00	45.00	45.00	45.00
745	0.6 mm thick plain aluminium board of size 600x600 mm	per sft	111.00	111.00	111.00	111.00
746	0.6 mm thick perforated aluminium board of size 600x600 mm	per sft	88.00	88.00	88.00	88.00
747	6 mm thick Fiber cement board	per sft	92.00	92.00	92.00	92.00
748	38x12.5x0.5 mm U bar/ Furring channel	per foot	23.00	23.00	23.00	23.00
749	19 mm x 19 mm x 0.5 mm G.I. angle	per foot	26.00	26.00	26.00	26.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
750	12 mm thick solid PVC board	per sft	114.00	114.00	114.00	114.00
751	Wall paper	per sft	62.00	62.00	62.00	62.00
III. Vertical Venetian Blinds						
752	Head rail, Aluminium	per foot	9.50	9.50	9.50	9.50
753	Rod tilt / Hexagon Aluminium Rod	per foot	9.00	9.00	9.00	9.00
754	End cap set / End closure set	per set	82.00	82.00	82.00	82.00
755	Weight plate / Weight bar	each	11.50	11.50	11.50	11.50
756	Link Chain / Weight Chain	per foot	11.50	11.50	11.50	11.50
757	Ball Chain / Plastic Chain	per foot	11.00	11.00	11.00	11.00
758	Plastic Washer / Fabric upper clip	each	3.00	3.00	3.00	3.00
759	Spacer (Link) / Plastic Runner Spring	each	9.75	9.75	9.75	9.75
760	Handling Cord /Nylon Cord	per foot	3.25	3.25	3.25	3.25
761	Thread bar	each	10.50	10.50	10.50	10.50
762	Angle Clip	each	8.50	8.50	8.50	8.50
763	Plastic Runner	each	4.00	4.00	4.00	4.00
764	Glass fiber Fabrics (<i>special quality, foreign made</i>)	per sft	105.00	105.00	105.00	105.00
765	Angle	each	5.00	5.00	5.00	5.00
766	Fitting-fixing charge	per sft	4.00	4.00	4.00	4.00
IV. Horizontal Venetian Blind/Horizontal Zebra Blind						
767	Head rail	per foot	9.50	9.50	9.50	9.50
768	Bottom rail	per foot	5.50	5.50	5.50	5.50
769	Aluminium Strips (<i>special quality, foreign made</i>)	per foot	85.00	85.00	85.00	85.00
770	synthetic net	per foot	62.00	62.00	62.00	62.00
771	50 mm thick polyester/fibreglass insulation	per sft	30.00	30.00	30.00	30.00
772	Air tight fabrics in/c heat stitching	per sft	75.00	75.00	75.00	75.00
773	polyester fabrics	per foot	73.00	73.00	73.00	73.00
774	vinyl or PVC coated strip	per foot	93.00	93.00	93.00	93.00
775	Rod till / hexagon aluminium Rod	per foot	8.00	8.00	8.00	8.00
776	Gear box /tilter	each	11.50	11.50	11.50	11.50
777	Support and cord drum	each	6.50	7.50	6.50	6.50
778	Cord lock	each	6.50	6.50	6.50	6.50
779	Stop ring	each	8.50	8.50	8.50	8.50
780	Tassel	ach	5.00	5.00	5.00	5.00
781	Ladder cord	per foot	4.25	4.25	4.25	4.25
782	Stick / tilt wand	each	8.50	8.50	8.50	8.50
783	Bracket/metal intermediate bracket	each	8.50	8.50	8.50	8.50
784	Bottom cap / end cap for head rail	each	11.00	11.00	11.00	11.00
785	Tape holder	each	6.50	6.50	6.50	6.50
786	Steel washer	each	8.50	8.50	8.50	8.50
787	Head cap set	each	13.00	13.00	13.00	13.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
788	Handling cord	per foot	5.50	5.50	5.50	5.50
789	Labour cost	per sft	4.00	4.00	4.00	4.00
V. Blackout/ Translucent roller Blind						
790	Head control tube, 38mm aluminium tube with wall thickness 1mm	per foot	22.00	20.00	20.00	20.00
791	one idler aluminium rod	per foot	16.00	15.00	15.00	15.00
792	End cap set/end closure set	Per set	54.00	50.00	50.00	50.00
793	Weight plate/weight bar	each	11.50	11.00	11.00	11.00
794	Link chain/weight chain	per foot	12.00	11.00	11.00	11.00
795	Ball chain/plastic chain	per foot	11.00	10.00	10.00	10.00
796	Plastic washer/fabricupper clip	each	3.00	3.00	3.00	3.00
797	Mounting brackets cover	per foot	13.00	13.00	13.00	13.00
798	Handling cord/nylon cord	per foot	3.00	3.00	3.00	3.00
799	Thread bar	each	10.50	10.50	10.50	10.50
800	Angle clip	each	8.50	8.50	8.50	8.50
801	Plastic runner	each	4.00	4.00	4.00	4.00
802	PVC/ vinyl laminated fiberglass fabrics	per sft	100.00	100.00	100.00	100.00
803	Polypropylene(PP) fiber carpet tiles - size 20" x 20" & thickness 5mm	per sft	410.00	410.00	410.00	410.00
804	Angle	each	5.00	5.00	5.00	5.00
805	clip in brackets with cover	per set	10.00	10.00	10.00	10.00
806	38mm clutch	each	22.50	20.00	20.00	20.00
807	piano wire flat springs	per foot	16.00	16.00	16.00	16.00
808	elastic spindle	each	27.00	27.00	27.00	27.00
809	38mm thick rope chain bead clutch	per set	73.00	73.00	73.00	73.00
810	bead chain	per foot	22.00	22.00	22.00	22.00
811	25mm thick bottom aluminum tube with 1mm wall thickness	per foot	15.50	15.50	15.50	15.50
812	lifting plastic kit	each	10.50	10.50	10.50	10.50
813	clutch connectors	each	87.00	87.00	87.00	87.00
814	mounting profile for outside mount of roller tube	per foot	33.00	33.00	33.00	33.00
815	bottom bar end cap	each	17.00	17.00	17.00	17.00
816	pull with tassel	each	56.00	56.00	56.00	56.00
817	Fitting-fixing charge	per sft	4.00	4.00	4.00	4.00
C15	PVC					
	I. uPVC Pipe for Electric Conduit					
818	Wall grade 3/4" / 19 mm dia pipe, 1.2mm thick	per foot	5.50	5.50	5.50	5.50
819	Wall grade 1" / 25 mm dia pipe, 1.2mm thick	per foot	8.00	8.00	8.00	8.00
820	Roof grade 3/4"/19 mm dia pipe, 1.5mm thick	per foot	6.50	6.50	6.50	6.50
821	Roof grade 1" / 25 mm dia pipe, 1.5mm thick	per foot	9.00	9.00	9.00	9.00
822	Roof grade 1.25" / 32 mm dia pipe, 1.5mm thick	per foot	12.00	12.00	12.00	12.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	II. Fittings for uPVC Pipe for Electric Conduit					
823	3/4"/19 mm Socket	per dzn	50.00	50.00	50.00	50.00
824	1" / 25 mm Socket	per dzn	70.00	70.00	70.00	70.00
825	1.25"/ 32 mm Socket	per dzn	73.00	73.00	73.00	73.00
826	3/4" / 19 mm Plain bend	per dzn	88.00	88.00	88.00	88.00
827	1"/ 25 mm Plain bend	per dzn	93.00	93.00	93.00	93.00
828	1.25"/ 32 mm Plain bend	per dzn	132.00	132.00	132.00	132.00
829	3/4"/ 19 mm Circular box single	per dzn	108.00	108.00	108.00	108.00
830	3/4" / 19 mm Circular box double	per dzn	109.00	109.00	109.00	109.00
831	1"/ 25 mm Circular box single	per dzn	116.00	116.00	116.00	116.00
832	1"/ 25 mm Circular box double	per dzn	117.00	117.00	117.00	117.00
833	Solvent cement for jointing	per grm	2.00	2.00	2.00	2.00
	III. Plastic Door, Windows & Partition					
834	uPVC plastic door shutter with uPVC plastic frame with panel wall thickness 1.7 mm-2.2 mm (size: 750mm X 2100mm)	per set	4,000.00	4,000.00	4,000.00	4,000.00
835	uPVC plastic door shutter with uPVC plastic frame with panel wall thickness 2.4 mm-2.76 mm (size: 750mm X 2100mm)	per set	8,000.00	8,000.00	8,000.00	8,000.00
836	PVC door frame thickness min 2.5 mm	per meter	120.00	120.00	120.00	120.00
837	G.I inner joint (76.2 mm x 38.1 mm) clamp	each	14.00	14.00	14.00	14.00
838	G.I inner joint (72.2 mm x 76.2 mm) clamp	each	13.50	13.50	13.50	13.50
839	G.I outer clamp	each	13.80	13.80	13.80	13.80
840	G.I. wall clamp (216 x 19 mm)	each	16.50	16.50	16.50	16.50
841	Garjan wood 25.4 x 22.22 mm	per meter	30.00	30.00	30.00	30.00
842	uPVC hollow section wall thickness 2.5 mm	per meter	950.00	950.00	950.00	950.00
843	uPVC side clip 2.5mm	per meter	28.50	28.50	28.50	28.50
844	Screw 25.5 mm	each	3.25	3.25	3.25	3.25
845	Tower bolt Ø 9.38 x 152.4mm	each	62.50	62.50	62.50	62.50
846	Plastic handle 146 mm long	each	58.00	58.00	58.00	58.00
847	Hinges 76.2 x 57.15 mm	each	54.00	54.00	54.00	54.00
848	Hasp bolt Ø 25 x ↔ 254 mm	each	210.00	210.00	210.00	210.00
849	Round lock normal (China/Korea/Taiwan)	each	616.00	616.00	616.00	616.00
850	Rod Ø 9.52 mm x 3 Pcs.	each	48.00	48.00	48.00	48.00
851	Nut with washer 6 Pcs.	each	13.00	13.00	13.00	13.00
852	Rowel plug	each	1.00	1.00	1.00	1.00
853	T-frame	per meter	145.00	145.00	145.00	145.00
854	L-frame	per meter	145.00	145.00	145.00	145.00
855	Hollow bit	per meter	64.00	64.00	64.00	64.00
856	Screw for hollow partition	each	2.30	2.30	2.30	2.30
857	T-inner joint clamp	each	10.00	10.00	10.00	10.00
858	L-inner joint clamp	each	14.50	14.50	14.50	14.50
859	Glass bit	per meter	67.00	67.00	67.00	67.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
860	Round rubber bit	per meter	23.00	23.00	23.00	23.00
861	Rubber bit	per meter	11.21	11.21	11.21	11.21
862	Adhesive	per kg	222.00	222.00	222.00	222.00
863	10mm glass for partition wall	per sqm	310.00	310.00	10.00	310.00
IV. Plastic Door, Windows & Partition						
864	8 mm thick PVC sheet	per pc	1,700.00	1,700.00	1,700.00	1,700.00
865	Partition frame (Profile)	per foot	67.00	69.00	69.00	69.00
866	4" New sash (Profile)	per foot	157.00	161.00	161.00	161.00
867	Sliding glass bead (Profile)	per foot	21.00	23.00	23.00	23.00
868	Partition frame (Reinforcement)	per foot	30.00	32.20	32.20	32.20
869	Rubber	per foot	7.50	7.50	7.50	7.50
870	Screw	per pc	1.00	1.00	1.00	1.00
871	Hinge	per pc	49.00	49.00	49.00	49.00
872	Sitkani	each	74.00	74.00	74.00	74.00
873	Handle	each	54.00	54.00	54.00	54.00
874	Steel clamp (8")	each	11.00	11.00	11.00	11.00
875	Partition glass bit	per foot	11.00	11.00	11.00	11.00
876	Sliding frame	per foot	38.00	38.00	38.00	38.00
877	Sliding sash	per foot	43.00	43.00	43.00	43.00
878	Sliding interlock	per foot	13.50	13.50	13.50	13.50
879	Brush	per foot	10.00	10.00	10.00	10.00
880	Lock (2")	each	38.00	38.00	38.00	38.00
881	Sliding frame: reinforcement	per foot	31.00	31.00	31.00	31.00
882	Sliding sash: reinforcement	per foot	31.00	31.00	31.00	31.00
883	5 mm clear glass	per sft	71.00	71.00	71.00	71.00
884	3 mm thick plastic wood	per pc	720.00	720.00	720.00	720.00
885	2" Screw	per pack	115.00	115.00	115.00	115.00
886	Wall bit (9/64)	per pc	42.00	42.00	42.00	42.00
887	Super bit	per pc	174.00	174.00	174.00	174.00
888	Sun-star Glue	per litre	120.00	120.00	120.00	120.00
889	Tarpin	per gallon	280.00	280.00	280.00	280.00
890	Super Glue	per pc	30.00	30.00	30.00	30.00
891	6 mm thick plastic wood	per pc	1,420.00	1,420.00	1,420.00	1,420.00
892	12 mm thick plastic wood	per pc	3,100.00	3,100.00	3,100.00	3,100.00
893	2" Magnet	each	45.00	45.00	45.00	45.00
894	Chain Hinge (kabja)	each	130.00	130.00	130.00	130.00
895	S.S. Chain Hinge	each	250.00	250.00	250.00	250.00
896	Metal Handle	each	210.00	210.00	210.00	210.00
897	Cloth	per yds	11.50	11.50	11.50	11.50
898	Rowl plug (10 Nos. per pack)	per pack	22.00	22.00	22.00	22.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
C16	GAS CONNECTION WORK					
	I. 50 PSI API 5L, Grade-B ERW M.S. Pipe					
899	100 mm ND (114.30 mm OD)	per foot	800.00	800.00	800.00	800.00
900	75 mm ND (88.90 mm OD)	per foot	400.00	400.00	400.00	400.00
901	50 mm ND (60.30 mm OD)	per foot	215.00	215.00	215.00	215.00
902	25 mm ND (33.40 mm OD)	per foot	104.00	104.00	104.00	104.00
903	20 mm ND (26.70 mm OD)	per foot	66.00	66.00	66.00	66.00
904	12mm ND (20.0mm OD)	per foot	50.00	50.00	50.00	50.00
	II. Consumable					
905	4" x 400' Black tape	per roll	6,370.00	6,370.00	6,370.00	6,370.00
906	2" x 200' Black tape	per roll	1,270.00	1,270.00	1,270.00	1,270.00
907	Primer	per litre	700.00	700.00	700.00	700.00
	III. Butt welded joints					
908	75 mm ND (88.90 mm OD)	each	210.00	210.00	210.00	210.00
909	50 mm ND (60.30 mm OD)	each	180.00	180.00	180.00	180.00
910	25 mm ND (33.40 mm OD)	each	140.00	140.00	140.00	140.00
911	20 mm ND (26.70 mm OD)	each	120.00	120.00	120.00	120.00
	IV. Fittings & accessories					
912	50 x 50 x 50 mm N.D. Tee CD40	each	227.00	227.00	227.00	227.00
913	50 x 50 x 25 mm N.D. Tee CD40	each	375.00	375.00	375.00	375.00
914	25 x 25 x 25 mm N.D. Tee CD40	each	25.00	125.00	125.00	125.00
915	50 mm x 90° Elbow	each	180.00	180.00	180.00	180.00
916	25 mm x 90° Elbow	each	150.00	150.00	150.00	150.00
917	50 mm x 45° Elbow	each	77.00	77.00	77.00	77.00
918	50 x 25 mm reducer	each	90.00	90.00	90.00	90.00
919	20 mm plug/socket	each	385.00	385.00	385.00	385.00
920	50 x 20 mm saddle	each	315.00	315.00	315.00	315.00
921	50 mm dia end cap	each	67.00	67.00	67.00	67.00
922	25 mm dia end cap	each	74.00	74.00	74.00	74.00
923	50 x 50 mm equal tee	each	10,025.00	10,025.00	10,025.00	10,025.00
924	25 x 25 x 25 mm service tee	each	3,575.00	3,575.00	3,575.00	3,575.00
925	50 x 25 mm service tee	each	8,000.00	8,000.00	8,000.00	8,000.00
926	50 mm insulating kits	each	980.00	980.00	980.00	980.00
927	50 mm flange W/N 150 R/F	each	815.00	815.00	815.00	815.00
928	5/8" x 3" long nut bolt including washer	each	75.00	75.00	75.00	75.00
929	Valve Pit (Titas Gas T&D Co. Ltd. design & plan.) (for 2" dia above)	each	48,500.00	48,500.00	48,500.00	48,500.00
930	M.S. sheet cover supplied by Titas Gas T & D Co. Ltd. (for 2" dia above)	each	20,721.00	20,721.00	20,721.00	20,721.00
931	Testing & purging	per meter	22.00	22.00	22.00	22.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
932	Material cost for cathode protection in gas connection works	each	21,000.00	21,000.00	21,000.00	21,000.00
933	1st stage regulator for gas line works	each	150,000.00	150,000.00	150,000.00	150,000.00
934	MS seamless Schedule 40- 2" dia pipe line	per foot	1,500.00	1,500.00	1,500.00	1,500.00
935	Cylinder heading line	each	12,500.00	12,500.00	12,500.00	12,500.00
936	LP gas pigtail, ball valve and other necessary fittings	each set	2,500.00	2,500.00	2,500.00	2,500.00
937	Supply and installation of 45KG LPG Cylinder	each	6,000.00	6,000.00	6,000.00	6,000.00
938	50 mm ND dia ball valve class 150 R.F.	each	7,320.00	7,320.00	7,320.00	7,320.00
939	25 mm ND dia plug valve class 150 R.F.	each	5,417.00	5,417.00	5,417.00	5,417.00
940	25 mm dia flange W/N 150 R.F.	each	392.00	392.00	392.00	392.00
941	50 mm dia flange W/N 150 R.F.	each	814.00	814.00	814.00	814.00
942	50 mm dia gasket	each	156.00	156.00	156.00	156.00
943	25 mm dia gasket (asbestos)	each	200.00	200.00	200.00	200.00
944	1/2" x 2.5" nut-bolt	each	32.00	32.00	32.00	32.00
945	3/4" dia G.I. pipe (NTL or eqv.)	per foot	67.00	67.00	67.00	67.00
946	1/2" dia G.I. pipe (NTL or eqv.)	per foot	48.00	48.00	48.00	48.00
947	12 x 6 mm gas stop cock	each	275.00	275.00	275.00	275.00
948	20 x 20 mm gas stop cock	each	500.00	500.00	500.00	500.00
C17	TERMITE TREATMENT					
949	DURS BAN 20 EC	per litre	1,050.00	1,050.00	1,050.00	1,050.00
950	NEOCIDOL-60	per % ml	165.00	165.00	165.00	165.00
951	Kerosene / Diesel	per litre	68.00	68.00	68.00	68.00
C18	CONCRETE HOLLOW BLOCKS & PAVING STONE WORKS					
952	70 mm non load bearing concrete hollow block	each	26.00	26.00	26.00	26.00
953	Transportation 70 mm block	each	4.00	4.00	4.00	4.00
954	Mortar mix	per litre	290.00	290.00	290.00	290.00
955	90 mm non load bearing concrete hollow block	each	40.00	40.00	40.00	40.00
956	Transportation 90 mm block	each	3.50	3.50	3.50	3.50
957	AAC block of 600mmx200mmx240mm	each	98.00	98.00	98.00	98.00
958	AAC block of 600mmx200mmx200mm	each	90.00	90.00	90.00	90.00
959	AAC block of 600mmx200mmx150mm	each	82.00	82.00	82.00	82.00
960	Polymer Modified Adhesive Mortar (40 kgs bag)	per bag	700.00	700.00	700.00	700.00
961	Hollow block of 390mmx190mmx240mm	each	95.00	95.00	95.00	95.00
962	Hollow block of 390mmx190mmx112mm	each	40.00	40.00	40.00	40.00
963	Hollow block of 240mmx114mmx70mm 3H	each	12.00	12.00	12.00	12.00
964	140 mm non load bearing concrete hollow block	each	58.00	58.00	58.00	58.00
965	Transportation 140/190 mm block	each	9.00	9.00	9.00	9.00
966	140 mm load bearing concrete hollow block	each	60.00	60.00	60.00	60.00
967	190 mm load bearing concrete hollow block	each	65.00	65.00	65.00	65.00
968	150 mm concrete ceiling block	each	70.00	70.00	70.00	70.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
969	Transportation 150/200 mm ceiling block	each	10.00	10.00	10.00	10.00
970	200 mm concrete ceiling block	each	99.00	99.00	99.00	99.00
971	External plaster mix	per litre	295.00	295.00	295.00	295.00
972	60 mm grey Uni- block of 222mmx110mmx60mm	each	17.50	17.50	17.50	17.50
973	70 mm grey Uni- block of 222mmx110mmx70mm	each	19.50	19.50	19.50	19.50
974	70 mm Coloured Uni- block of 222mmx110mmx70mm	each	21.00	21.00	21.00	21.00
975	80 mm grey Uni- block of 222mmx110mmx80mm	each	25.00	25.00	25.00	25.00
976	80 mm Coloured Uni- block of 222mmx110mmx80mm	each	28.00	28.00	28.00	28.00
977	90 mm grey Uni- block of 222mmx110mmx90mm	each	26.00	26.00	26.00	26.00
978	90 mm Coloured Uni- block of 222mmx110mmx90mm	each	29.00	29.00	29.00	29.00
979	100 mm grey Uni- block of 222mmx110mmx100mm	each	32.00	32.00	32.00	32.00
980	100 mm Coloured Uni- block of 222mmx110mmx100mm	each	34.00	34.00	34.00	34.00
981	60 mm grey uniblock: 15 N/mm ²	each	15.00	15.00	15.00	15.00
982	60 mm coloured Uni- block of 222mmx110mmx60mm	each	20.00	20.00	20.00	20.00
983	Transportation 60/80 mm uniblock/Rec-block	each	2.20	2.20	2.20	2.20
984	60 mm grey uniblock: 49 N/mm ²	each	20.00	20.00	20.00	20.00
985	60 mm coloured uniblock: 49 N/mm ²	each	22.00	22.00	22.00	22.00
986	80 mm grey uniblock: 49 N/mm ²	each	24.00	24.00	24.00	24.00
987	80 mm coloured uniblock: 49 N/mm ²	each	30.00	30.00	30.00	30.00
988	Solid block of 240mmx114mmx70mm	each	13.00	13.00	13.00	13.00
989	Grey rec- block of 200mmx100mmx100mm	each	26.00	26.00	26.00	26.00
990	Coloured rec- block of 200mmx100mmx100mm	each	28.00	28.00	28.00	28.00
991	Grey rec- block of 200mmx100mmx80mm	each	23.00	23.00	23.00	23.00
992	Coloured rec- block of 200mmx100mmx80mm	each	25.00	25.00	25.00	25.00
993	Rectangular grey block (200mmx100mmx60mm)	each	16.00	16.00	16.00	16.00
994	Rectangular coloured block (200mmx100mmx60mm)	each	20.00	20.00	20.00	20.00
995	250 x 250 mm grey engraved CC tiles	per sft	50.00	50.00	50.00	50.00
996	250 x 250 mm coloured engraved CC tiles	per sft	60.00	60.00	60.00	60.00
997	Transportation of 250 mm x 250 mm tiles	per sft	2.10	2.10	2.10	2.10
998	Roof Engraved Tile	per sft	40.00	40.00	40.00	40.00
999	Solid block (215 x 100 x 65) mm	each	15.00	15.00	15.00	15.00
1000	Transportation Solid block (215 x 100 x 65) mm	each	1.70	1.70	1.70	1.70
1001	200 mm x 92 mm x 37.5 mm grey solid cladding block	each	14.00	14.00	14.00	14.00
1002	Transportation solid cladding block	each	2.50	2.50	2.50	2.50
1003	200 mm x 92 mm x 37.5 mm coloured solid cladding block	each	16.00	16.00	16.00	16.00
1004	400 mm x 92 mm x 50 mm grey split cladding	each	18.00	18.00	18.00	18.00
1005	Transportation split cladding	each	2.20	2.20	2.20	2.20
1006	400 mm x 92 mm x 50 mm coloured split cladding	each	23.00	23.00	23.00	23.00
1007	420 mm x 330 mm x 15 mm coloured facial cladding	each	38.00	38.00	38.00	38.00
1008	418 mm x 330 mm x 17 mm red colour roof tiles	each	160.00	160.00	160.00	160.00
1009	Transportation roof tiles	each	3.80	3.80	3.80	3.80

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
1010	J-hook with nut and washer	each	11.50	11.50	11.50	11.50
1011	418 mm x 330 mm x 17 mm oriental colour roof tiles	each	45.00	45.00	45.00	45.00
1012	418 mm x 330 mm x 17 mm antique red colour roof tiles	each	52.00	52.00	52.00	52.00
1013	418 mm x 330 mm x 17 mm green colour roof tiles	each	55.00	65.00	65.00	65.00
1014	500x350x100mm Kerb-stone	each	165.00	165.00	165.00	165.00
1015	600 mm x 300 mm x 100/50 mm kerb stone	each	160.00	160.00	160.00	160.00
1016	Transportation of kerb stone	each	33.00	33.00	33.00	33.00
1017	100 mm non-load bearing concrete hollow block	each	32.00	32.00	32.00	32.00
1018	Transportation of 100 mm hollow block	each	4.00	4.00	4.00	4.00
1019	250 mm concrete ceiling block	each	102.00	102.00	102.00	102.00
1020	Transportation 250 mm ceiling block	each	9.50	9.50	9.50	9.50
1021	300 mm concrete ceiling block	each	120.00	120.00	120.00	120.00
1022	Transportation of 300 mm ceiling block	each	15.00	15.00	15.00	15.00
1023	100 mm concrete ceiling block	each	40.00	40.00	40.00	40.00
1024	Transportation of 100 mm ceiling block	each	6.00	6.00	6.00	6.00
1025	418 mm x 330 mm x 17 mm brown colour roof tiles	each	55.00	55.00	55.00	55.00
1026	418 mm x 330 mm x 17 mm Navy blue roof tiles	each	55.00	55.00	55.00	55.00
1027	418 mm x 330 mm x 17 mm Mahogany colour roof tiles	each	60.00	60.00	60.00	60.00
1028	418 mm x 330 mm x 17 mm Rust Gold colour roof tiles	each	60.00	60.00	60.00	60.00
1029	All type concrete ridge: red colour	each	160.00	160.00	160.00	160.00
1030	60 mm gray trihex	each	22.00	22.00	22.00	22.00
1031	60 mm colour trihex	each	31.00	31.00	31.00	31.00
1032	390 mm x190 mm x112 mm sand cement Hollow Block (SCHB)	each	30.00	30.00	30.00	30.00
1033	250 mm x 115 mm x 115 mm sand cement solid block	each	12.00	12.00	12.00	12.00
1034	300 mm x 115 mm x 115 mm size thermal block	each	27.00	27.00	27.00	27.00
1035	240 mm x 115 mm x 70 mm size compressed stabilized earth block (CSEB)	each	7.50	7.50	7.50	7.50
1036	300 mm x 115 mm x 70 mm size sand cement solid block (SCSB)	each	12.00	12.00	12.00	12.00
C19	SANITARY AND WATER SUPPLY WORK					
	I. Misc. items					
1037	Water sealed heavy type 18" / 450 mm dia C.I. M.H. cover having locking arrangement	each	910.00	910.00	910.00	910.00
1038	Water sealed heavy type 24" / 600 mm dia C.I. M.H. cover having locking arrangement	each	1,400.00	1,400.00	1,400.00	1,400.00
1039	Commode Seat cover	each	1,250.00	1,250.00	1,250.00	1,250.00
1040	RCC tees	each	450.00	450.00	450.00	450.00
1041	CI brackets	per pair	150.00	150.00	150.00	150.00
1042	Heavy type CI brackets	per pair	180.00	180.00	180.00	180.00
1043	Nuts with washer	each	30.00	30.00	30.00	30.00
1044	Clamp	each	40.00	40.00	40.00	40.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
1045	50 mm screw & rowel plug	each	9.00	9.00	9.00	9.00
1046	75 mm Screw, Rowel plug & Washer	each	14.00	14.00	14.00	14.00
1047	Plastic clip	each	11.00	11.00	11.00	11.00
1048	Solvent cement	per ml	0.85	0.85	0.85	0.85
1049	Hem	per sqm	32.00	32.00	32.00	32.00
1050	Scaffolding	per foot	3.50	3.50	3.50	3.50
1051	Teflon	per pcs	17.00	17.00	17.00	17.00
1052	Nipples with jum-nuts	each	60.00	60.00	60.00	60.00
1053	PVC connection pipe	each	45.00	45.00	45.00	45.00
1054	32 mm dia PVC waste pipe for W-Basin connection	each	360.00	360.00	360.00	360.00
1055	CP chain with rubber plug	each	80.00	80.00	80.00	80.00
1056	Grating with brass coupling	each	300.00	300.00	300.00	300.00
II. Fixtures & Accessories						
Combi-closet (Country Made)						
1057	Approx. 670~690 X 360~ 362 mm size, minimum 27.5 kg of weight; Equivalent to Stella:Victoria /Stella: Imola / RAK: Karla or similar brand	each	6,075.00	6,075.00	6,075.00	6,075.00
1058	Approx. 665~ 704 X 360~ 390 mm size, minimum 31.00 kg of weight : Equivalent to CHARU :CM18/ CHARU: CM15 / Stella :Marcela / RAK :Tampa or similar brand	each	7,300.00	7,300.00	7,300.00	7,300.00
1059	Approx. 639~670 X 370 ~399 mm size, minimum 32.5 kg of weight, Equivalent to RAK :Orient delux / RAK orient Standard /Stella: Verso or similar brand	each	8,100.00	8,100.00	8,100.00	8,100.00
1060	Approx. 670~670 X 350~390 mm size, minimum 25.2 kg of weight, Equivalent to COTTO: C13960 / RAK Series 600 or similar brand	each	9,580.00	9,580.00	9,580.00	9,580.00
1061	Approx. 668~750 x 356 ~430 mm size, minimum 37 .0 kg of weight, Equivalent to Stella:Isabella /RAK: Washington / RAK: Jumairah or similar brand	each	11,703.00	11,703.00	11,703.00	11,703.00
1062	Approx. 700~725 X 360~ 380 mm size, minimum 34.1 kg of weight; Equivalent to COTTO - C1470 / RAK: Venic or similar brand	each	13,300.00	13,300.00	13,300.00	13,300.00
1063	Approx. 702~ 750x 380~412 mm size, minimum 40.0 kg of weight, Equivalent to COTTO: C118 / RAK: Shino or similar brand	each	16,771.00	16,771.00	16,771.00	16,771.00
1064	Approx. 730~ 735x 430~440 mm size, minimum 42.0 kg of weight, Equivalent to COTTO: 109 / COTTO: 129 or similar brand	each	19,000.00	19,000.00	19,000.00	19,000.00
1065	Approx. 695~719 X 340~395 mm size, minimum 39.5 kg of weight; Equivalent to RAK :Metropolitan / Stella: Vivana or similar brand	each	13,100.00	13,100.00	13,100.00	13,100.00
1066	Approx. 685~729 X 360~406 mm size, minimum 36.0 kg of weight; Equivalent RAK: Oasis/Stella: Evana/ Stella: Marlina or equivalent model	each	16,500.00	16,500.00	16,500.00	16,500.00
1067	Approx. 715~735 X 280~480 mm size, minimum 39.5 kg of weight; Equivalent to COTTO - C1053 / COTTO: 1141 / CHARU: CM 950 / RAK: Galaxy or similar brand	each	20,000.00	20,000.00	20,000.00	20,000.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
1068	Approx. 760~735 X 430~490 mm size, minimum 40 kg of weight, Equivalent to Stella: Viola / COTTO: C1026 or similar brand	each	25,000.00	25,000.00	25,000.00	25,000.00
1069	Approx. 540 X 360 mm size, minimum 16.00 kg of weight	each	17,200.00	17,200.00	17,200.00	17,200.00
1070	Approx. 570 X 375 mm size, minimum 22.00 kg of weight	each	23,400.00	23,400.00	23,400.00	23,400.00
1071	Approx. 560 X 360 mm size, minimum 26 kg of weight	each	31,000.00	31,000.00	31,000.00	31,000.00
1072	approx. 380 mm x 710 mm x 800 mm size, 28.00 kg of weight (flush valve)	each	20,700.00	20,700.00	20,700.00	20,700.00
Country made urinal						
1073	Approx. 330 X 355 X 445 mm size, minimum 10.0 kg of weight	each	1,705.00	1,705.00	1,705.00	1,705.00
1074	Approx. 300 X 370 X 510 mm size, minimum 11.0 kg of weight.	each	2,360.00	2,360.00	2,360.00	2,360.00
1075	Approx. 315 X 330 X 600 mm size, minimum 17.0 kg of weight.	each	4,700.00	4,700.00	4,700.00	4,700.00
1076	Approx. 300 X 350 X 690 mm size, minimum 18.0 kg of weight	each	9,630.00	9,630.00	9,630.00	9,630.00
1077	approx. 510 mm x 380 mm x 85 mm in size, minimum 9.5 kg of weight (flat urinal)	each	2,050.00	2,050.00	2,050.00	2,050.00
Long Pan						
1078	Approx. 520 X 406.4 X 223.52 mm size, minimum 10.0 kg of weight	each	860.00	860.00	860.00	860.00
1079	Approx. 530 X 400 X 230 mm size, minimum 11.0 kg of weight	each	1,015.00	1,015.00	1,015.00	1,015.00
1080	Approx. 554 X 439 X 249 mm size, minimum 12.5 kg of weight	each	1,390.00	1,390.00	1,390.00	1,390.00
1081	Approx. 540 X 460 X 290 mm size, minimum 13.5 kg of weight	each	1,420.00	1,420.00	1,420.00	1,420.00
1082	Approx. 540 X 470 X 290 mm size, minimum 16 kg of weight	each	1,520.00	1,520.00	1,520.00	1,520.00
Low-down						
1083	Porcelain: approx. 365 X 185 X 325 mm size, minimum 10.00 kg of weight, CHARU CM-10 or equivalent	each	2,025.00	2,025.00	2,025.00	2,025.00
1084	Porcelain: approx. 490 X 190 X 345 mm size, minimum 11.00 kg of weight, CHARU CM-15 or equivalent brand	each	2,358.00	2,358.00	2,358.00	2,358.00
1085	Porcelain: approx. 490 X 190 X 350 mm size, minimum 14 kg of weight, RAK or equivalent brand	each	2,400.00	2,400.00	2,400.00	2,400.00
1086	Plastic low down complete Per set including internal fittings	each	900.00	900.00	900.00	900.00
1087	Internal and external fittings for plastic low down	each	550.00	550.00	550.00	550.00
Flush valve						
1088	Flush valve (local)	each	11,475.00	11,475.00	11,475.00	11,475.00
1089	Flush Valve (foreign)	each	19,500.00	19,500.00	19,500.00	19,500.00
1090	Flush valve for urinal	each	4,200.00	4,200.00	4,200.00	4,200.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	Rajshahi, Rangpur
	Wash basin excluding pedestal					
1091	Over Counter: Approx. 400X200 mm, minimum weight 6.0 kg	each	1,300.00	1,300.00	1,300.00	1,300.00
1092	Over Counter: Approx. 445X345 mm, minimum weight 7.0 kg	each	1,530.00	1,530.00	1,530.00	1,530.00
1093	Over Counter: Approx. 535X 435 mm, minimum weight 7.5 kg	each	1,970.00	1,970.00	1,970.00	1,970.00
1094	Over Counter: Approx. 560 X475 mm size, minimum weight 10.0 kg	each	2,050.00	2,050.00	2,050.00	2,050.00
1095	Under Counter: Approx. 570 X420 mm size, minimum weight 7.5 kg	each	1,905.00	1,905.00	1,905.00	1,905.00
1096	Under Counter: Approx. 515 X365 mm size, minimum weight 9.5 kg	each	3,225.00	3,225.00	3,225.00	3,225.00
1097	Table Top: Approx. 400X400mm size, minimum weight 6.0kg	each	2,920.00	2,920.00	2,920.00	2,920.00
1098	Table Top: Approx. 450X450 mm size, minimum weight 10.0kg	each	3,760.00	3,760.00	3,760.00	3,760.00
1099	Table Top: Approx. 480X 370 mm size, minimum weight 10.0kg	each	3,940.00	3,940.00	3,940.00	3,940.00
1100	Table Top: Approx. 485X 380 mm size, minimum weight 11.0kg	each	4,850.00	4,850.00	4,850.00	4,850.00
1101	Corner Basin: Approx. 540X 400 mm size, minimum weight 7.5 kg	each	1,350.00	1,350.00	1,350.00	1,350.00
1102	Corner Basin: Approx. 460X 390 mm size, minimum weight 15.0 kg	each	2,110.00	2,110.00	2,110.00	2,110.00
	Wash basin including pedestal					
1103	Approx. 436 x 343 mm, minimum weight 14.8 kg	each	1,784.00	1,784.00	1,784.00	1,784.00
1104	Approx. 457 x 406 mm, minimum weight 15.3 kg	each	1,985.00	1,985.00	1,985.00	1,985.00
1105	Approx. 521 x 419 mm, minimum weight 17.7 kg	each	2,080.00	2,080.00	2,080.00	2,080.00
1106	Approx. 508 x 394 mm, minimum weight 17.3 kg	each	2,100.00	2,100.00	2,100.00	2,100.00
1107	Approx. 540 x 450 mm, minimum weight 20.1 kg	each	2,140.00	2,140.00	2,140.00	2,140.00
1108	Approx. 495 x 394 mm, minimum weight 17.3 kg	each	2,250.00	2,250.00	2,250.00	2,250.00
1109	Approx. 513 x 432 mm, minimum weight 17.8 kg	each	2,350.00	2,350.00	2,350.00	2,350.00
1110	Approx. 564 x 419 mm, minimum weight 18.8 kg	each	2,450.00	2,450.00	2,450.00	2,450.00
1111	Approx. 584 x 437 mm, minimum weight 20.0 kg	each	2,600.00	2,600.00	2,600.00	2,600.00
1112	Approx. 560 x 450 mm, minimum weight 22.8 kg	each	2,655.00	2,655.00	2,655.00	2,655.00
1113	Approx. 572 x 437 mm, minimum weight 20.3 kg	each	2,745.00	2,745.00	2,745.00	2,745.00
1114	Approx. 648 x 488 mm, minimum weight 20.0 kg	each	2,975.00	2,975.00	2,975.00	2,975.00
1115	Approx. 605 x 485 mm, minimum weight 22.5 kg	each	3,040.00	3,040.00	3,040.00	3,040.00
1116	Approx. 630 x 520 mm, minimum weight 28.0 kg	each	3,250.00	3,250.00	3,250.00	3,250.00
1117	Approx. 559 x 483 mm, minimum weight 24.5 kg	each	3,450.00	3,450.00	3,450.00	3,450.00
1118	Approx. 656 x 510 mm, minimum weight 26.0 kg	each	4,410.00	4,410.00	4,410.00	4,410.00
1119	Approx. 500 x 450 mm, minimum weight 25.6 kg	each	4,490.00	4,490.00	4,490.00	4,490.00
1120	Approx. 520 x 425 mm, minimum weight 26.2 kg	each	4,770.00	4,770.00	4,770.00	4,770.00
1121	Approx. 665 x 490 mm, minimum weight 29.5 kg	each	4,875.00	4,875.00	4,875.00	4,875.00
1122	Approx. 660 x 525 mm, minimum weight 31.5 kg	each	5,035.00	5,035.00	5,035.00	5,035.00
1123	Approx. 600 x 440 mm, minimum weight 26.0 kg	each	5,100.00	5,100.00	5,100.00	5,100.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
1124	Approx. 525 x 415 mm, minimum weight 27.4 kg	each	5,540.00	5,540.00	5,540.00	5,540.00
1125	Approx. 650 x 510 mm, minimum weight 25.0 kg	each	5,600.00	5,600.00	5,600.00	5,600.00
1126	Approx. 550 x 470 mm, minimum weight 34.0 kg	each	7,100.00	7,100.00	7,100.00	7,100.00
	Wash basin (including half-pedestal)					
1127	Approx. 510X 400 mm size, minimum weight 15.0 kg	each	2,060.00	2,060.00	2,060.00	2,060.00
1128	Approx. 550X 440 mm size, minimum weight 17.0 kg	each	3,880.00	3,880.00	3,880.00	3,880.00
1129	Approx. 600X 500 mm size, minimum weight 18.5 kg	each	4,550.00	4,550.00	4,550.00	4,550.00
1130	Approx. 550 X 460 mm size, minimum weight 20.0 kg	each	4,690.00	4,690.00	4,690.00	4,690.00
	Pedestal					
1131	approx. size of 670 mm x 186 mm x 170 mm	each	1,800.00	1,800.00	1,800.00	1,800.00
	Bathroom and kitchen accessories					
1132	Porcelain sink: 635 mm x 480 mm x195 mm size, 19.5 kg of weight	each	1,920.00	1,920.00	1,920.00	1,920.00
	Single bowl stainless steel sink:	each				
1133	Approx. 508 X 406 mm size single bowl without sink tray	each	1,705.50	1,705.50	1,705.50	1,705.50
1134	Approx. 508 X 457 mm size single bowl without sink tray	each	1,795.50	1,795.50	1,795.50	1,795.50
1135	Approx. 610 X 457 mm size single bowl without sink tray	each	2,115.00	2,115.00	2,115.00	2,115.00
1136	Approx. 762 X 457 mm size single bowl with sink tray	each	3,100.00	3,100.00	3,100.00	3,100.00
1137	Approx. 914 X 457 mm size single bowl with sink tray	each	3,200.00	3,200.00	3,200.00	3,200.00
1138	Approx. 1016 X 508 mm size single bowl with sink tray	each	3,991.50	3,991.50	3,991.50	3,991.50
	Double bowl stainless steel sink:					
1139	Approx. 1160 x 500 mm size double bowl with sink tray (Standard)	each	5,000.00	5,000.00	5,000.00	5,000.00
1140	Approx. 1160 x 500 mm size double bowl with sink tray (Super)	each	8,000.00	8,000.00	8,000.00	8,000.00
1141	Approx. 1160 x 500 mm size double bowl with sink tray (Special)	each	12,500.00	12,500.00	12,500.00	12,500.00
1142	Local Mirror, 5 mm thickness	sqm	1,055.00	1,055.00	1,055.00	1,055.00
1143	Belgium Mirror, 5 mm thickness	sqm	1,120.00	1,120.00	1,120.00	1,120.00
1144	600 x 125 x 5 mm size coloured glass shelf with fancy brackets	each	1,250.00	1,250.00	1,250.00	1,250.00
1145	600 x 125 x 5 mm size white glass shelf with fancy brackets	each	600.00	600.00	600.00	600.00
1146	C.P. towel ring/ 450 mm long single towel rail	each	500.00	500.00	500.00	500.00
1147	600 mm long C.P. single towel rail	each	500.00	500.00	500.00	500.00
1148	600 mm long C.P. double towel rail	each	945.00	945.00	945.00	945.00
1149	600 mm long C.P. towel shelf	each	1,256.00	1,256.00	1,256.00	1,256.00
	Country made Toilet paper holder/soap tray					
1150	PVC toilet paper holder	each	180.00	180.00	180.00	180.00
1151	C.P iron bracket toilet paper holder	each	245.00	245.00	245.00	245.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
1152	Porcelain toilet paper holder (any color)	each	600.00	600.00	600.00	600.00
1153	Stainless steel toilet paper holder	each	400.00	400.00	400.00	400.00
1154	PVC soap tray	each	60.00	60.00	60.00	60.00
1155	C.P. soap tray	each	130.00	130.00	130.00	130.00
1156	Porcelain soap tray (any color)	each	280.00	280.00	280.00	280.00
1157	Stainless steel soap tray	each	450.00	450.00	450.00	450.00
1158	Automatic liquid soap dispenser (local): standard quality	each	928.00	928.00	928.00	928.00
1159	Automatic liquid soap dispenser (local): super quality	each	2,723.00	2,723.00	2,723.00	2,723.00
1160	Automatic liquid soap dispenser (foreign): special quality	each	5,950.00	5,950.00	5,950.00	5,950.00
1161	Push-Up type liquid soap dispenser (local): standard quality	each	695.00	695.00	695.00	695.00
1162	Push-Up type liquid soap dispenser (local): super quality	each	1,270.00	1,270.00	1,270.00	1,270.00
1163	Push-Up type liquid soap dispenser (foreign):superior quality	each	4,550.00	4,550.00	4,550.00	4,550.00
1164	Push-Up type liquid soap dispenser (foreign): special quality	each	6,790.00	6,790.00	6,790.00	6,790.00
Floor grating						
1165	Approx. 50~75 mm dia stainless steel floor grating net	each	85.00	85.00	85.00	85.00
1166	Approx. 100~125 mm dia stainless steel floor grating net	each	200.00	200.00	200.00	200.00
1167	Approx. 50 mm x 50 mm stainless steel floor grating net	each	85.00	85.00	85.00	85.00
1168	Approx. 100 mm x 100 mm stainless steel floor grating net	each	105.00	105.00	105.00	105.00
1169	Approx. 125 mm x 125 mm stainless steel floor grating net	each	740.00	740.00	740.00	740.00
1170	125 mm dia convex cast iron grating on rain water down pipe (roof top)	each	400.00	400.00	400.00	400.00
1171	100 mm floor drain with vertical outlet	each	1,050.00	1,050.00	1,050.00	1,050.00
FAUCETS						
1172	Round headed CP Conceal Bib Cock short body (Essco/ coaster/ star/ diamond/ delux/ deco/ orbed/ delin/ triple/ master/ classic headed or similar head)	each	850.00	850.00	850.00	850.00
1173	Lever CP Conceal Bib Cock long body with aerator (Oliver/ spoon/ delta/ decent lever or similar)	each	850.00	850.00	850.00	850.00
1174	12 mm CP open Bib Cock	each	695.00	695.00	695.00	695.00
1175	12 mm CP Two in One Bib Cock	each	1,400.00	1,400.00	1,400.00	1,400.00
1176	Elbow action CP Bib Cock	each	2,560.00	2,560.00	2,560.00	2,560.00
1177	CP Push Cock	each	720.00	720.00	720.00	720.00
1178	CP Leaf Cock	each	560.00	560.00	560.00	560.00
1179	12 mm dia CP Concealed Stop Cock	each	835.00	835.00	835.00	835.00
1180	20 mm dia CP Concealed Stop Cock	each	875.00	875.00	875.00	875.00
1181	25 mm dia CP Concealed Stop Cock	each	1,000.00	1,000.00	1,000.00	1,000.00
1182	CP angle stop cock	each	700.00	700.00	700.00	700.00
1183	CP Two in One angle stop cock	each	925.00	925.00	925.00	925.00
1184	CP Round headed fixed Pillar cock	each	1,150.00	1,150.00	1,150.00	1,150.00
1185	CP Single lever pillar cock	each	1,150.00	1,150.00	1,150.00	1,150.00
1186	CP Single lever pillar cock (High top 8")	each	2,396.00	2,396.00	2,396.00	2,396.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
1187	CP Single lever pillar cock (High top 12")	each	3,196.00	3,196.00	3,196.00	3,196.00
1188	CP Single lever moving pillar cock	each	1,436.00	1,436.00	1,436.00	1,436.00
1189	CP Elbow action Pillar cock	each	2,560.00	2,560.00	2,560.00	2,560.00
1190	CP One way Swan Cock	each	4,720.00	4,720.00	4,720.00	4,720.00
1191	CP Two way Swan Cock	each	5,520.00	5,520.00	5,520.00	5,520.00
1192	CP Tree way Swan Cock	each	6,560.00	6,560.00	6,560.00	6,560.00
1193	Sensor Type self closing pillar cock	each	7,360.00	7,360.00	7,360.00	7,360.00
1194	Push Type Self closing pillar cock	each	956.00	956.00	956.00	956.00
1195	12 mm CP concealed fixed sink cock	each	875.00	875.00	875.00	875.00
1196	12 mm CP concealed super quality moving sink cock	each	1,268.00	1,268.00	1,268.00	1,268.00
1197	12 mm CP concealed special moving sink cock	each	1,436.00	1,436.00	1,436.00	1,436.00
1198	Single handle/ lever basin mixer	each	2,395.00	2,395.00	2,395.00	2,395.00
1199	Fixed basin mixer	each	2,550.00	2,550.00	2,550.00	2,550.00
1200	Moving basin mixer	each	2,600.00	2,600.00	2,600.00	2,600.00
1201	Moving sink mixer	each	1,436.00	1,436.00	1,436.00	1,436.00
1202	CP shower mixture including shower head only	each	4,592.00	4,592.00	4,592.00	4,592.00
1203	CP shower mixture including shower head and faucet	each	5,700.00	5,700.00	5,700.00	5,700.00
1204	Bathtub mixer without hand shower	each	3,595.00	3,595.00	3,595.00	3,595.00
1205	Bathtub mixer including hand shower	each	3,960.00	3,960.00	3,960.00	3,960.00
1206	Single lever angle stop mixer	each	1,756.00	1,756.00	1,756.00	1,756.00
1207	Moving type 100 mm CP shower head	each	915.00	915.00	915.00	915.00
1208	Moving type 150 mm CP shower head	each	1,750.00	1,750.00	1,750.00	1,750.00
1209	Moving type 200 mm CP shower head	each	1,960.00	1,960.00	1,960.00	1,960.00
1210	Moving type 250 mm CP shower head	each	2,200.00	2,200.00	2,200.00	2,200.00
1211	Moving type hand shower	each	10,802.00	10,802.00	10,802.00	10,802.00
1212	Moving type push shower	each	750.00	750.00	750.00	750.00
III. Pipes & Accessories						
(a) HDPE Pipe						
1213	110 mm dia HDPE pipe	per foot	221.00	221.00	221.00	221.00
1214	110 mm HDPE plain tee/T-Y	each	1,650.00	1,650.00	1,650.00	1,650.00
1215	110 mm HDPE plain bend	each	1,155.00	1,155.00	1,155.00	1,155.00
1216	160 mm dia HDPE pipe	per foot	405.00	405.00	405.00	405.00
1217	160 mm HDPE plain tee/T-Y	each	2,520.00	2,520.00	2,520.00	2,520.00
1218	160 mm HDPE plain bend	each	1,790.00	1,790.00	1,790.00	1,790.00
1219	200 mm dia HDPE pipe	per foot	732.00	732.00	732.00	732.00
1220	200 mm HDPE plain tee/T-Y	each	2,960.00	2,960.00	2,960.00	2,960.00
1221	200 mm HDPE plain bend	each	3,255.00	3,255.00	3,255.00	3,255.00
1222	250 mm dia HDPE pipe	per foot	1,031.00	1,031.00	1,031.00	1,031.00
1223	250 mm HDPE plain tee/T-Y	each	7,610.00	7,610.00	7,610.00	7,610.00
1224	250 mm HDPE plain bend	each	5,005.00	5,005.00	5,005.00	5,005.00
1225	Electro fusion welding joint(up to 110 mm)	each	475.00	475.00	475.00	475.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	Rajshahi, Rangpur
1226	Electro fusion welding joint(over 110 mm)	each	590.00	590.00	590.00	590.00
1227	110 mm dia HDPE pipe for under-ground	per foot	224.00	224.00	224.00	224.00
1228	110 mm HDPE plain Tee/T-Y for under-ground	each	835.00	835.00	835.00	835.00
1229	110 mm HDPE plain Bend for under-ground	each	651.00	651.00	651.00	651.00
1230	160 mm dia HDPE pipe for under-ground	per foot	405.00	405.00	405.00	405.00
1231	160 mm HDPE plain Tee/T-Y for under-ground	each	1,195.00	1,195.00	1,195.00	1,195.00
1232	160 mm HDPE plain bend for under-ground	each	1,052.00	1,052.00	1,052.00	1,052.00
1233	200 mm dia HDPE pipe for under-ground	per foot	732.00	732.00	732.00	732.00
1234	200 mm HDPE plain tee/T-Y for under-ground	each	2,960.00	2,960.00	2,960.00	2,960.00
1235	200 mm HDPE plain bend for under-ground	each	1,980.00	1,980.00	1,980.00	1,980.00
1236	250 mm dia HDPE pipe for under-ground	per foot	1,031.00	1,031.00	1,031.00	1,031.00
1237	250 mm HDPE plain tee/T-Y for under-ground	each	5,440.00	5,440.00	5,440.00	5,440.00
1238	250 mm HDPE plain bend for under-ground	each	3,660.00	3,660.00	3,660.00	3,660.00
1239	280 mm dia HDPE pipe for under-ground	per foot	1,427.00	1,427.00	1,427.00	1,427.00
1240	280 mm HDPE plain tee/T-Y for under-ground	each	7,110.00	7,110.00	7,110.00	7,110.00
1241	280 mm HDPE plain bend for under-ground	each	5,140.00	5,140.00	5,140.00	5,140.00
1242	315 mm dia HDPE pipe for under-ground	per foot	1,792.00	1,792.00	1,792.00	1,792.00
1243	315 mm HDPE plain tee/T-Y for under-ground	each	9,512.00	9,512.00	9,512.00	9,512.00
1244	315 mm HDPE plain bend for under-ground	each	7,015.00	7,015.00	7,015.00	7,015.00
1245	400 mm dia HDPE pipe for under-ground	per foot	2,903.00	2,903.00	2,903.00	2,903.00
1246	400 mm HDPE plain tee/T-Y for under-ground	each	18,250.00	18,250.00	18,250.00	18,250.00
1247	400 mm HDPE plain bend for under-ground	each	14,010.00	14,010.00	14,010.00	14,010.00
1248	630 mm dia HDPE pipe for under-ground	per foot	6,800.00	6,800.00	6,800.00	6,800.00
1249	630 mm HDPE plain tee/T-Y for under-ground	each	51,000.00	51,000.00	51,000.00	51,000.00
1250	630 mm HDPE plain bend for under-ground	each	40,100.00	40,100.00	40,100.00	40,100.00
1251	710 mm dia HDPE pipe for under-ground	per foot	8,950.00	8,950.00	8,950.00	8,950.00
1252	710 mm HDPE plain tee/T-Y for under-ground	each	60,100.00	60,100.00	60,100.00	60,100.00
1253	710 mm HDPE plain bend for under-ground	each	51,055.00	51,055.00	51,055.00	51,055.00
1254	900 mm dia HDPE pipe for under-ground	per foot	13,100.00	13,100.00	13,100.00	13,100.00
1255	900 mm HDPE plain Tee/T-Y for under-ground	each	108,000.00	108,000.00	108,000.00	108,000.00
1256	900 mm HDPE plain bend for under-ground	each	85,000.00	85,000.00	85,000.00	85,000.00
Butt Welding Joint						
1257	Butt fusion welding joint(75-355 mm dia HDPE pipe)	each	430.00	430.00	430.00	430.00
1258	Butt fusion welding joint(400-560 mm dia HDPE pipe)	each	540.00	540.00	540.00	540.00
1259	Butt fusion welding joint(630-1000 mm dia HDPE pipe)	each	710.00	710.00	710.00	710.00
(b) uPVC						
1260	12 mm dia uPVC pipe	per foot	12.75	12.75	12.75	12.75
1261	12 mm dia uPVC plain Tee	each	10.00	10.00	10.00	10.00
1262	12 mm dia uPVC plain elbow	each	8.00	8.00	8.00	8.00
1263	12 mm dia uPVC faucet elbow	each	10.00	10.00	10.00	10.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
1264	12 mm dia uPVC plain socket	each	7.50	7.50	7.50	7.50
1265	12 mm dia uPVC thread plug	each	5.20	5.20	5.20	5.20
1266	19 mm dia uPVC pipe	per foot	17.00	17.00	17.00	17.00
1267	19 mm dia uPVC plain tee	each	13.20	13.20	13.20	13.20
1268	19 mm dia uPVC plain elbow	each	12.50	12.50	12.50	12.50
1269	19 mm dia uPVC plain socket	each	8.00	8.00	8.00	8.00
1270	19mm x 12 mm dia uPVC reduced tee	each	30.00	30.00	30.00	30.00
1271	19mm x 12 mm dia uPVC reduced elbow	each	30.00	30.00	30.00	30.00
1272	25 mm dia uPVC pipe	per foot	27.20	27.20	27.20	27.20
1273	25 mm x 19 mm dia reduced tee	each	35.00	35.00	35.00	35.00
1274	32 mm dia uPVC pipe	per foot	34.80	34.80	34.80	34.80
1275	32 mm dia uPVC tee	each	34.00	34.00	34.00	34.00
1276	32 mm dia uPVC socket	each	45.00	45.00	45.00	45.00
1277	32 mm dia elbow	each	28.00	28.00	28.00	28.00
1278	32 mm plain bend 90°	each	28.00	28.00	28.00	28.00
1279	37 mm dia uPVC pipe	per foot	40.50	40.50	40.50	40.50
1280	37 mm dia uPVC tee	each	29.00	29.00	29.00	29.00
1281	37 mm dia uPVC socket	each	37.50	37.50	37.50	37.50
1282	37 mm dia uPVC elbow	each	26.50	26.50	26.50	26.50
1283	50 mm dia uPVC pipe: 20 foot (6m) long	per foot	46.75	46.75	46.75	46.75
1284	50 mm dia uPVC bend/offset	each	35.00	35.00	35.00	35.00
1285	50 mm dia uPVC Tee/T-Y/Y (50 x 50 mm)	each	125.00	125.00	125.00	125.00
1286	60 mm dia uPVC pipe	per foot	72.00	72.00	72.00	72.00
1287	60 mm tee	each	170.00	170.00	170.00	170.00
1288	60 mm socket	each	85.00	85.00	85.00	85.00
1289	60 mm elbow	each	120.00	120.00	120.00	120.00
1290	75 mm dia uPVC pipe	per foot	80.00	80.00	80.00	80.00
1291	75 mm dia tee	each	210.00	210.00	210.00	210.00
1292	75 mm dia socket	each	90.00	90.00	90.00	90.00
1293	75 mm dia elbow	each	180.00	180.00	180.00	180.00
1294	88 mm dia uPVC pipe	per foot	94.00	94.00	94.00	94.00
1295	88 mm dia tee	each	225.00	225.00	225.00	225.00
1296	88 mm dia socket	each	135.00	135.00	135.00	135.00
1297	88 mm dia elbow	each	192.00	192.00	192.00	192.00
1298	114 mm dia uPVC pipe	per foot	125.00	125.00	125.00	125.00
1299	114 mm dia tee	each	320.00	320.00	320.00	320.00
1300	114 mm dia socket	each	160.00	160.00	160.00	160.00
1301	114 mm dia elbow	each	202.00	202.00	202.00	202.00
1302	100 mm dia uPVC Pipe: 20 foot (6m) long	per foot	124.00	124.00	124.00	124.00
1303	100 mm dia uPVC bend/offset	each	195.00	195.00	195.00	195.00
1304	100 mm dia uPVC Tee/T-Y/Y (50 x 50 mm)	each	230.00	230.00	230.00	230.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
1305	110 mm dia uPVC pipe	per foot	88.00	88.00	88.00	88.00
1306	110 mm dia door tee (Back)	each	220.00	220.00	220.00	220.00
1307	110 mm dia uPVC plain bend 90	each	130.00	130.00	130.00	130.00
1308	110 mm dia uPVC long trap	each	290.00	290.00	290.00	290.00
1309	110 mm dia round grating	each	403.00	403.00	403.00	403.00
1310	110 mm dia uPVC vent cowl	each	40.00	40.00	40.00	40.00
1311	150 mm dia uPVC Pipe: 20 foot (6m) long	per foot	263.00	263.00	263.00	263.00
1312	150 mm dia uPVC bend/offset/cowl	each	375.00	375.00	375.00	375.00
1313	150 mm dia uPVC Tee/T-Y/Y (50 x 50 mm)	each	403.00	403.00	403.00	403.00
1314	150 mm dia uPVC for under-ground	per foot	170.00	170.00	170.00	170.00
1315	200 mm dia uPVC pipe for under-ground	per foot	402.00	402.00	402.00	402.00
1316	250 mm dia uPVC pipe for under-ground	per foot	646.00	646.00	646.00	646.00
1317	280 mm dia uPVC pipe for under-ground	per foot	723.00	723.00	723.00	723.00
1318	315 mm dia uPVC pipe for under-ground	per foot	944.00	944.00	944.00	944.00
(c) G.I. Pipe & fittings						
1319	12 mm dia GI pipe	per foot	68.00	68.00	68.00	68.00
1320	12 mm dia elbow	each	28.00	28.00	28.00	28.00
1321	12 mm dia tee	each	35.00	35.00	35.00	35.00
1322	12 mm dia nipple	each	23.00	23.00	23.00	23.00
1323	12 mm dia plug	each	12.00	12.00	12.00	12.00
1324	12 mm dia socket	each	18.50	18.50	18.50	18.50
1325	20 mm dia GI pipe	per foot	89.00	89.00	89.00	89.00
1326	20 mm dia elbow	each	45.00	45.00	45.00	45.00
1327	20 mm dia tee	each	55.00	55.00	55.00	55.00
1328	20 mm dia nipple	each	30.00	30.00	30.00	30.00
1329	20 mm dia plug	each	15.00	15.00	15.00	15.00
1330	20 mm dia reducer	each	40.00	40.00	40.00	40.00
1331	20 mm dia socket	each	32.00	32.00	32.00	32.00
1332	25 mm dia GI pipe	per foot	121.00	121.00	121.00	121.00
1333	25 mm dia elbow	each	65.00	65.00	65.00	65.00
1334	25 mm dia tee	each	70.00	70.00	70.00	70.00
1335	25 mm dia nipple	each	45.00	45.00	45.00	45.00
1336	25 mm dia plug	each	25.00	25.00	25.00	25.00
1337	25 mm dia reducer	each	45.00	45.00	45.00	45.00
1338	25 mm dia socket	each	40.00	40.00	40.00	40.00
1339	32 mm dia GI pipe	per foot	155.00	155.00	155.00	155.00
1340	32 mm dia elbow	each	85.00	85.00	85.00	85.00
1341	32 mm dia tee	each	102.00	102.00	102.00	102.00
1342	32 mm dia nipple	each	57.00	57.00	57.00	57.00
1343	32 mm dia plug	each	30.00	30.00	30.00	30.00
1344	32 mm dia reducer	each	65.00	65.00	65.00	65.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
1345	32 mm dia socket	each	60.00	60.00	60.00	60.00
1346	40 mm dia GI pipe	per foot	198.00	198.00	198.00	198.00
1347	40 mm dia elbow	each	105.00	105.00	105.00	105.00
1348	40 mm dia tee	each	107.00	107.00	107.00	107.00
1349	40 mm dia nipple	each	85.00	85.00	85.00	85.00
1350	40 mm dia plug	each	45.00	45.00	45.00	45.00
1351	40 mm dia reducer	each	85.00	85.00	85.00	85.00
1352	40 mm dia socket	each	75.00	75.00	75.00	75.00
1353	50 mm dia GI pipe	per foot	250.00	250.00	250.00	250.00
1354	50 mm dia Elbow	each	150.00	150.00	150.00	150.00
1355	50 mm dia tee	each	130.00	130.00	130.00	130.00
1356	50 mm dia nipple	each	98.00	98.00	98.00	98.00
1357	50 mm dia plug	each	60.00	60.00	60.00	60.00
1358	50 mm dia reducer	each	108.00	108.00	108.00	108.00
1359	50 mm dia socket	each	100.00	100.00	100.00	100.00
1360	62 mm dia GI pipe	per foot	396.00	396.00	396.00	396.00
1361	62 mm dia elbow	each	250.00	250.00	250.00	250.00
1362	62 mm dia tee	each	350.00	350.00	350.00	350.00
1363	62 mm dia nipple	each	200.00	200.00	200.00	200.00
1364	62 mm dia plug	each	80.00	80.00	80.00	80.00
1365	62 mm dia reducer	each	170.00	170.00	170.00	170.00
1366	62 mm dia socket	each	220.00	220.00	220.00	220.00
1367	75 mm dia GI pipe	per foot	416.00	416.00	416.00	416.00
1368	75 mm dia elbow	each	450.00	450.00	450.00	450.00
1369	75 mm dia tee	each	400.00	400.00	400.00	400.00
1370	75 mm dia nipple	each	220.00	220.00	220.00	220.00
1371	75 mm dia plug	each	170.00	170.00	170.00	170.00
1372	75 mm dia reducer	each	190.00	190.00	190.00	190.00
1373	75 mm dia socket	each	280.00	280.00	280.00	280.00
1374	100 mm dia G.I. pipe	per foot	603.00	603.00	603.00	603.00
1375	100 mm dia elbow	each	650.00	650.00	650.00	650.00
1376	100 mm dia tee	each	820.00	820.00	820.00	820.00
1377	100 mm dia nipple	each	420.00	420.00	420.00	420.00
1378	100 mm dia plug	each	275.00	275.00	275.00	275.00
1379	100 mm dia reducer	each	390.00	390.00	390.00	390.00
1380	100 mm dia socket	each	400.00	400.00	400.00	400.00
(d) SS Pipe & fittings						
1381	62 mm dia stainless steel (2 mm thick) pipe	per foot	285.00	285.00	285.00	285.00
1382	50 mm dia stainless steel (2 mm thick) pipe	per foot	225.00	225.00	225.00	225.00
1383	40 mm dia stainless steel (2 mm thick) pipe-(grade A304)	per foot	280.00	280.00	280.00	280.00
1384	40 mm dia stainless steel (2 mm thick) pipe-(grade A201)	per foot	170.00	170.00	170.00	170.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
1385	37 mm dia stainless steel (1.5 mm thick) pipe-(grade A304)	per foot	183.00	183.00	183.00	183.00
1386	37 mm dia stainless steel (1.5 mm thick) pipe-(grade A201)	per foot	138.00	138.00	138.00	138.00
1387	32 mm dia stainless steel (1.2 mm thick) pipe	per foot	140.00	140.00	140.00	140.00
1388	25 mm dia stainless steel (2 mm thick) pipe-(grade A304)	per foot	180.00	180.00	180.00	180.00
1389	25 mm dia stainless steel (2 mm thick) pipe-(grade A201)	per foot	109.00	109.00	109.00	109.00
1390	25 mm dia stainless steel (1.2 mm thick) pipe	per foot	100.00	100.00	100.00	100.00
1391	20 mm dia stainless steel (2 mm thick) pipe	per foot	76.00	76.00	76.00	76.00
1392	20 mm dia stainless steel (1 mm thick) pipe	per foot	70.00	70.00	70.00	70.00
1393	12 mm dia stainless steel (2 mm thick) pipe	per foot	41.00	41.00	41.00	41.00
1394	6 mm dia stainless steel (1.5 mm thick) pipe	per foot	24.00	24.00	24.00	24.00
1395	12 mm x 12 mm SS hollow (1.5 mm thick) bar	per foot	48.00	48.00	48.00	48.00
1396	25 mm x 25 mm SS square solid bar	per foot	170.00	170.00	170.00	170.00
1397	SS hollow round pipe 1.5mm thickness	per kg	300.00	300.00	300.00	300.00
1398	Top cap for 40 mm dia SS pipe	each	94.00	94.00	94.00	94.00
1399	Bottom cap for 40 mm dia SS pipe	each	73.00	73.00	73.00	73.00
1400	65 mm x 55 mm x 6 mm SS plate	each	173.00	173.00	173.00	173.00
1401	75 mm x 75 mm x 2 mm SS box (grade A304)	per foot	988.00	988.00	988.00	988.00
1402	75 mm x 75 mm x 2 mm SS box (grade A201)	per foot	741.00	741.00	741.00	741.00
1403	62 mm x 25 mm x 2 mm SS Box for hand-rail	per foot	260.00	260.00	260.00	260.00
1404	50 mm x 50 mm x 1.5 mm SS box (grade A304)	per foot	510.00	510.00	510.00	510.00
1405	50 mm x 50 mm x 1.5 mm SS box (grade A201)	per foot	300.00	300.00	300.00	300.00
1406	50 mm x 38 mm, 1.5 mm thick SS box	per foot	285.00	285.00	285.00	285.00
1407	50mm x 25mm, 2 mm thick S.S. Box	per foot	225.00	225.00	225.00	225.00
1408	50 mm x 12 mm, 1.5 mm thick SS box	per foot	175.00	175.00	175.00	175.00
1409	50 mm x 18 mm, 2 mm thick SS Box	per foot	215.00	215.00	215.00	215.00
1410	38 mm x 38 mm, 1.5 mm thick SS box (grade A304)	per foot	220.00	220.00	220.00	220.00
1411	38 mm x 38 mm, 1.5 mm thick SS box (grade A201)	per foot	180.00	180.00	180.00	180.00
1412	38 mm x 12 mm, 1.5 mm thick SS box (grade A304)	per foot	167.00	167.00	167.00	167.00
1413	38 mm x 12 mm, 1.5 mm thick SS box (grade A201)	per foot	126.00	126.00	126.00	126.00
1414	25 mm x 25 mm, 1.5mm thick SS square box (grade A304)	per foot	150.00	150.00	150.00	150.00
1415	25 mm x 25 mm, 1.5mm thick SS square box (grade A201)	per foot	115.00	115.00	115.00	115.00
1416	50 mm x 25 mm x 2 mm SS box:	per foot	72.00	72.00	72.00	72.00
1417	50 mm x 25 mm x 1.5 mm SS box:(grade A304)	per foot	388.00	388.00	388.00	388.00
1418	50 mm x 25 mm x 1.5 mm SS box:(grade A201)	per foot	291.00	291.00	291.00	291.00
1419	19 mm x 19 mm x 3 mm SS angle (grade A304)	per foot	98.00	98.00	98.00	98.00
1420	19 mm x 19 mm x 3 mm SS angle (grade A201)	per foot	74.00	74.00	74.00	74.00
1421	19 mm x 19 mm x 1.5 mm SS angle (grade A304)	per foot	187.00	187.00	187.00	187.00
1422	19 mm x 19 mm x 1.5 mm SS angle (grade A201)	per foot	141.00	141.00	141.00	141.00
1423	25 mm x 25 mm x 3 mm SS angle (grade A304)	per foot	123.00	123.00	123.00	123.00
1424	25 mm x 25 mm x 3 mm SS angle (grade A201)	per foot	93.00	93.00	93.00	93.00
1425	25 mm x 25 mm x 6 mm SS angle	per foot	225.00	225.00	225.00	225.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
1426	30 mm x 30 mm x 6 mm SS angle	per foot	240.00	240.00	240.00	240.00
1427	38 mm x 38 mm x 3 mm SS angle	per foot	205.00	205.00	205.00	205.00
1428	38 mm x 38 mm x 6 mm Angle (grade A304)	per kg	400.00	400.00	400.00	400.00
1429	38 mm x 38 mm x 6 mm SS angle (grade A201)	per foot	310.00	310.00	310.00	310.00
1430	50 mm x 50 mm x 3 mm SS angle	per foot	253.00	253.00	253.00	253.00
1431	50 mm x 50 mm x 5 mm SS angle	per foot	272.00	272.00	272.00	272.00
1432	50 mm x 50 mm x 6 mm SS angle	per foot	397.00	397.00	397.00	397.00
1433	SS galvanized barbed wire (dia 2.5 mm)	per kg	800.00	800.00	800.00	800.00
1434	SS rod (grade A304)	per kg	400.00	400.00	400.00	400.00
1435	SS rod (grade A201)	per kg	300.00	300.00	300.00	300.00
1436	4mm thick SS base plate	per kg	250.00	250.00	250.00	250.00
1437	100 mm x 100 mm x 6 mm SS base plate	each	200.00	200.00	200.00	200.00
1438	65mm x 55mm, 6 mm thick SS Plate	each	173.00	173.00	173.00	173.00
1439	Solid SS royal bolt with cap	each	40.00	40.00	40.00	40.00
1440	75mm dia SS Wheel	each	1,800.00	1,800.00	1,800.00	1,800.00
1441	19 mm x 3 mm SS flat bar (grade A304)	per foot	51.50	51.50	51.50	51.50
1442	19 mm x 3 mm SS flat bar (grade A201)	per foot	39.00	39.00	39.00	39.00
1443	25 mm x 3 mm SS flat bar (grade A304)	per foot	68.80	68.80	68.80	68.80
1444	25 mm x 3 mm SS flat bar (grade A201)	per foot	51.00	51.00	51.00	51.00
1445	38 mm x 3 mm SS flat bar	per foot	103.00	103.00	103.00	103.00
1446	50 mm x 3 mm SS flat bar	per foot	127.00	127.00	127.00	127.00
1447	50 mm x 5 mm SS flat bar	per foot	167.00	167.00	167.00	167.00
1448	50 mm x 6 mm SS flat bar (grade A304)	per foot	230.00	230.00	230.00	230.00
1449	50 mm x 6 mm SS flat bar (grade A201)	per foot	174.00	174.00	174.00	174.00
1450	SS 12mm dia Royal Bolt cap	each	30.00	30.00	30.00	30.00
1451	SS 62mm dia end cap	each	70.00	70.00	70.00	70.00
1452	SS 20mm dia end cap	each	40.00	40.00	40.00	40.00
1453	25 mm dia SS knob	each	100.00	100.00	100.00	100.00
1454	75mm x 75 mm, 3mm thick SS vertical Post	each	2,250.00	2,250.00	2,250.00	2,250.00
1455	75mm x 75 mm, 2mm thick SS vertical Post	each	2,000.00	2,000.00	2,000.00	2,000.00
1456	50mm dia 2mm thick SS vertical Post	each	1,800.00	1,800.00	1,800.00	1,800.00
1457	50mm dia 3mm thick SS vertical Post	each	2,000.00	2,000.00	2,000.00	2,000.00
1458	50mm dia x 25mm dia, 2mm thick SS post	each	2,200.00	2,200.00	2,200.00	2,200.00
1459	MS Glass Holder	each	125.00	125.00	125.00	125.00
1460	SS Glass Holder	each	225.00	225.00	225.00	225.00
1461	6" x 6" x 1/4" thick S.S. plate	each	250.00	250.00	250.00	250.00
1462	6" x 4" x 1/4" thick S.S. plate	each	225.00	225.00	225.00	225.00
1463	4" x 4" x 1/4" thick S.S. plate	each	200.00	200.00	200.00	200.00
1464	6"/8" Glass clamp with 4" x 4" S.S. plate	each	1,200.00	1,200.00	1,200.00	1,200.00
1465	62mm dia 2mm thick SS post with 4 Nos SS Glass holder & 1 nos railing holder	per rft	2,000.00	2,000.00	2,000.00	2,000.00
1466	50mm dia x 25mm, 2mm thick SS newel post	per rft	1,400.00	1,400.00	1,400.00	1,400.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
1467	50mm x 6mm SS double plate newel post with SS knob	per rft	2,500.00	2,500.00	2,500.00	2,500.00
1468	SS pipe post with glass holder	per foot	345.00	345.00	345.00	345.00
1469	SS base cup 38 mm	each	230.00	230.00	230.00	230.00
1470	50 x 62 x 2 mm SS pipe post with glass holder	each	345.00	345.00	345.00	345.00
1471	SS welding rod	per pcs	7.25	7.25	7.25	7.25
1472	Cutting charge of MS angle	each	10.00	10.00	10.00	10.00
1473	Cutting charge of SS angle	each	7.30	7.30	7.30	7.30
1474	62 mm dia SS bend	each	73.00	73.00	73.00	73.00
1475	62 mm dia end socket	each	36.00	36.00	36.00	36.00
1476	50 mm dia SS bend	each	62.00	62.00	62.00	62.00
1477	50 mm dia end socket	each	23.00	23.00	23.00	23.00
1478	40 mm dia end socket	each	18.00	18.00	18.00	18.00
1479	20 mm dia end socket	each	13.00	13.00	13.00	13.00
1480	25 mm dia socket	each	15.00	15.00	15.00	15.00
1481	20 mm dia pipe holder	each	125.00	125.00	125.00	125.00
1482	SS hole cutting	each	10.00	10.00	10.00	10.00
1483	Royal bolt	each	57.00	57.00	57.00	57.00
1484	Glass hole	each	31.00	31.00	31.00	31.00
1485	Spider knob	each	85.00	85.00	85.00	85.00
(e) CPVC						
1486	12 mm dia CPVC pipe	per foot	27.00	27.00	27.00	27.00
1487	12 mm dia CPVC plain tee	each	36.00	36.00	36.00	36.00
1488	12 mm dia CPVC plain elbow	each	28.00	28.00	28.00	28.00
1489	12 mm dia CPVC faucet elbow	each	26.00	26.00	26.00	26.00
1490	12 mm dia CPVC plain socket	each	20.00	20.00	20.00	20.00
1491	12 mm dia CPVC thread plug	each	6.00	6.00	6.00	6.00
1492	19 mm dia CPVC pipe	per foot	42.00	42.00	42.00	42.00
1493	19 mm dia CPVC plain tee	each	58.00	58.00	58.00	58.00
1494	19 mm dia CPVC plain elbow	each	55.00	55.00	55.00	55.00
1495	19 mm dia CPVC plain socket	each	18.00	18.00	18.00	18.00
1496	19mm x 12 mm dia CPVC reduced tee	each	80.00	80.00	80.00	80.00
1497	19mm x 12 mm dia CPVC reduced elbow	each	58.00	58.00	58.00	58.00
1498	25 mm dia CPVC pipe	per foot	60.00	60.00	60.00	60.00
1499	25 mm x 19 mm dia reduced Tee	each	141.00	141.00	141.00	141.00
1500	32 mm dia CPVC pipe	per foot	89.00	89.00	89.00	89.00
1501	32 mm dia CPVC tee	each	210.00	210.00	210.00	210.00
1502	32 mm dia CPVC socket	each	65.00	65.00	65.00	65.00
1503	32 mm dia elbow	each	135.00	135.00	135.00	135.00
1504	37 mm dia CPVC pipe	per foot	138.00	138.00	138.00	138.00
1505	37 mm dia CPVC tee	each	310.00	310.00	310.00	310.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
1506	37 mm dia CPVC socket	each	102.00	102.00	102.00	102.00
1507	37 mm dia CPVC elbow	each	260.00	260.00	260.00	260.00
1508	50 mm dia CPVC pipe	per foot	210.00	210.00	210.00	210.00
1509	50 mm dia CPVC tee	each	650.00	650.00	650.00	650.00
1510	50 mm dia CPVC socket	each	365.00	365.00	365.00	365.00
1511	50 mm dia CPVC elbow	each	490.00	490.00	490.00	490.00
(f) PP-R Pipe						
1512	1/2" PP-R pipe (minimum wall thickness 2.8 mm)	per foot	15.00	15.00	15.00	15.00
1513	3/4" PP-R pipe (minimum wall thickness 3.5 mm)	per foot	23.75	23.75	23.75	23.75
1514	1" PP-R pipe (minimum wall thickness 4.4 mm)	per foot	37.05	37.05	37.05	37.05
1515	1.25" PP-R pipe (minimum wall thickness 5.5 mm)	per foot	57.00	57.00	57.00	57.00
1516	1.5" PP-R pipe (minimum wall thickness 6.59 mm)	per foot	80.00	80.00	80.00	80.00
1517	2" PP-R pipe (minimum wall thickness 8.6 mm)	per foot	126.00	126.00	126.00	126.00
PP-R Fittings						
1518	1/2" PP-R elbow	each	7.60	8.50	8.50	8.50
1519	1/2" PP-R tee	each	9.75	11.90	11.90	11.90
1520	1/2" PP-R end cap	each	7.12	7.50	7.50	7.50
1521	1/2" PP-R plug	each	6.65	7.65	7.65	7.65
1522	1/2" PP-R reducer	each	20.00	22.00	22.00	22.00
1523	1/2" PP-R socket	each	7.50	7.65	7.65	7.65
1524	3/4" PP-R elbow	each	11.40	11.90	11.90	11.90
1525	3/4" PP-R tee	each	15.00	17.00	17.00	17.00
1526	3/4" PP-R end cap	each	11.50	7.65	7.65	7.65
1527	3/4" PP-R plug	each	8.55	10.20	10.20	10.20
1528	3/4" PP-R reducer	each	29.00	18.70	18.70	18.70
1529	3/4" PP-R socket	each	8.50	8.50	8.50	8.50
1530	1" PP-R elbow	each	18.00	19.55	19.55	19.55
1531	1" PP-R tee	each	22.00	24.65	24.65	24.65
1532	1" PP-R end cap	each	16.50	10.20	10.20	10.20
1533	1" PP-R plug	each	14.50	11.05	11.05	11.05
1534	1" PP-R reducer	each	31.00	32.30	32.30	32.30
1535	1" PP-R socket	each	19.00	14.45	14.45	14.45
1536	1.25" PP-R elbow	each	60.00	52.70	52.70	52.70
1537	1.25" PP-R tee	each	62.00	52.70	52.70	52.70
1538	1.25" PP-R end cap	each	38.00	39.10	39.10	39.10
1539	1.25" PP-R plug	each	37.00	14.45	14.45	14.45
1540	1.25" PP-R reducer	each	67.50	54.40	54.40	54.40
1541	1.25" PP-R socket	each	24.00	24.65	24.65	24.65
1542	1.5" PP-R elbow	each	78.00	56.10	56.10	56.10
1543	1.5" PP-R tee	each	90.00	57.80	57.80	57.80

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	Rajshahi, Rangpur
1544	1.5" PP-R end cap	each	95.00	39.10	39.10	39.10
1545	1.5" PP-R plug	each	22.00	17.00	17.00	17.00
1546	1.5" PP-R reducer	each	105.00	69.70	69.70	69.70
1547	1.5" PP-R socket	each	45.00	29.75	29.75	29.75
1548	2" PP-R elbow	each	140.00	133.45	133.45	133.45
1549	2" PP-R tee	each	150.00	164.90	164.90	164.90
1550	2" PP-R end cap	each	145.00	95.20	95.20	95.20
1551	2" PP-R plug	each	22.00	18.70	18.70	18.70
1552	2" PP-R reducer	each	132.00	66.30	66.30	66.30
1553	2" PP-R socket	each	62.00	65.45	65.45	65.45
	PP-R Union (plain)					
1554	1/2" PP-R union	each	135.00	88.40	88.40	88.40
1555	3/4" PP-R union	each	160.00	95.20	95.20	95.20
1556	1" PP-R union	each	178.00	139.40	139.40	139.40
1557	1.25" PP-R union	each	340.00	238.85	238.85	238.85
1558	1.5" PP-R union	each	596.00	351.05	351.05	351.05
1559	2" PP-R union	each	732.00	447.95	447.95	447.95
	PP-R Gate-Valve					
1560	1/2" PP-R Gate-valve	each	205.00	268.60	268.60	268.60
1561	3/4" PP-R Gate-valve	each	310.00	387.60	387.60	387.60
1562	1" PP-R Gate-valve	each	350.00	461.55	461.55	461.55
1563	1.25" PP-R Gate-valve	each	650.00	544.00	544.00	544.00
1564	1.5" PP-R Gate-valve	each	700.00	629.00	629.00	629.00
1565	2" PP-R Gate-valve	each	900.00	986.00	986.00	986.00
	(g) RCC Pipes					
1566	150 mm dia RCC pipe (stone-chips, 40 mm thickness. 6'-0" long)	Each (6'-0")	1,160.00	1,160.00	1,160.00	1,160.00
1567	225 mm dia RCC pipe (stone-chips, 40 mm thickness. 6'-0" long)	Each (6'-0")	1,825.00	1,825.00	1,825.00	1,825.00
1568	300 mm dia RCC pipe (stone-chips, 50 mm thickness. 6'-0" long)	Each (6'-0")	3,210.00	3,210.00	3,210.00	3,210.00
1569	375 mm dia RCC pipe (stone-chips, 50 mm thickness. 6'-0" long)	Each (6'-0")	4,150.00	4,150.00	4,150.00	4,150.00
1570	900 mm dia RCC pipe (stone-chips, 100 mm thickness. 6'-0" long)	Each (6'-0")	15,510.00	15,510.00	15,510.00	15,510.00
1571	900mm dia. RCC Socket	each	400.00	400.00	400.00	400.00
	iv) G.I. Union					
1572	12 mm dia union	each	45.00	45.00	45.00	45.00
1573	20 mm dia union	each	70.00	70.00	70.00	70.00
1574	25 mm dia union	each	85.00	85.00	85.00	85.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
1575	32 mm dia union	each	115.00	115.00	115.00	115.00
1576	40 mm dia union	each	155.00	155.00	155.00	155.00
1577	50 mm dia union	each	190.00	190.00	190.00	190.00
1578	62 mm dia union	each	420.00	420.00	420.00	420.00
1579	75 mm dia union	each	605.00	605.00	605.00	605.00
1580	100 mm dia union	each	890.00	890.00	890.00	890.00
v) G.I. Gate-Valve (brass)						
1581	12 mm dia gate-valve	each	275.00	275.00	275.00	275.00
1582	20 mm dia gate-valve	each	400.00	400.00	400.00	400.00
1583	25 mm dia gate-valve	each	470.00	470.00	470.00	470.00
1584	32 mm dia gate-valve	each	680.00	680.00	680.00	680.00
1585	40 mm dia gate-valve	each	750.00	750.00	750.00	750.00
1586	50 mm dia gate-valve	each	1,290.00	1,290.00	1,290.00	1,290.00
1587	62 mm dia gate-valve	each	2,800.00	2,800.00	2,800.00	2,800.00
1588	75 mm dia gate-valve	each	3,850.00	3,850.00	3,850.00	3,850.00
1589	100 mm dia gate-valve	each	6,200.00	6,200.00	6,200.00	6,200.00
vi) G.I. Globe-Valve						
1590	12 mm dia globe-valve	each	315.00	315.00	315.00	315.00
1591	20 mm dia globe-valve	each	365.00	365.00	365.00	365.00
1592	25 mm dia globe-valve	each	555.00	555.00	555.00	555.00
1593	32 mm dia globe-valve	each	780.00	780.00	780.00	780.00
1594	40 mm dia globe-valve	each	895.00	895.00	895.00	895.00
1595	50 mm dia globe-valve	each	1,500.00	1,500.00	1,500.00	1,500.00
1596	62 mm dia globe-valve	each	3,350.00	3,350.00	3,350.00	3,350.00
1597	75 mm dia globe-valve	each	4,280.00	4,280.00	4,280.00	4,280.00
1598	100 mm dia globe-valve	each	6,900.00	6,900.00	6,900.00	6,900.00
vii) G.I. Check-Valve						
1599	12 mm dia check-valve	each	280.00	280.00	280.00	280.00
1600	20 mm dia check-valve	each	340.00	340.00	340.00	340.00
1601	25 mm dia check-valve	each	480.00	480.00	480.00	480.00
1602	32 mm dia check-valve	each	650.00	650.00	650.00	650.00
1603	40 mm dia check-valve	each	790.00	790.00	790.00	790.00
1604	50 mm dia check-valve	each	1,275.00	1,275.00	1,275.00	1,275.00
1605	62 mm dia check-valve	each	2,310.00	2,310.00	2,310.00	2,310.00
1606	75 mm dia check-valve	each	3,190.00	3,190.00	3,190.00	3,190.00
1607	100 mm dia check-valve	each	5,400.00	5,400.00	5,400.00	5,400.00
viii) Float-Valve						
1608	12 mm dia float-valve	each	250.00	250.00	250.00	250.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
1609	20 mm dia float-valve	each	350.00	350.00	350.00	350.00
1610	25 mm dia float-valve	each	385.00	385.00	385.00	385.00
1611	32 mm dia float-valve	each	680.00	680.00	680.00	680.00
1612	40 mm dia float-valve	each	850.00	850.00	850.00	850.00
ix) Drainage Pipe Fittings:						
1613	50 mm plastic Y or T-Y cleanout	each	180.00	180.00	180.00	180.00
1614	50 mm plastic "P" or "S" trap	each	390.00	390.00	390.00	390.00
1615	100 mm "Y" or "T-Y" plastic cleanout	each	350.00	350.00	350.00	350.00
1616	100 mm plastic P or S trap	each	250.00	250.00	250.00	250.00
Water pressure reducing valve						
1617	12 mm dia water pressure reducing valve (MS)	each	1,950.00	1,950.00	1,950.00	1,950.00
1618	19 mm dia water pressure reducing valve (MS)	each	2,620.00	2,620.00	2,620.00	2,620.00
1619	25 mm dia water pressure reducing valve (MS)	each	3,300.00	3,300.00	3,300.00	3,300.00
1620	32 mm dia water pressure reducing valve (MS)	each	5,000.00	5,000.00	5,000.00	5,000.00
1621	38 mm dia water pressure reducing valve (MS)	each	6,200.00	6,200.00	6,200.00	6,200.00
1622	50 mm dia water pressure reducing valve (MS)	each	9,200.00	9,200.00	9,200.00	9,200.00
1623	62 mm dia water pressure reducing valve (MS)	each	16,000.00	16,000.00	16,000.00	16,000.00
1624	75 mm dia water pressure reducing valve (MS)	each	23,000.00	23,000.00	23,000.00	23,000.00
1625	19 mm dia water pressure reducing valve (Brass double net)	each	3,176.00	3,176.00	3,176.00	3,176.00
1626	25 mm dia water pressure reducing valve (Brass double net)	each	4,118.00	4,118.00	4,118.00	4,118.00
1627	38 mm dia water pressure reducing valve (Brass double net)	each	7,647.00	7,647.00	7,647.00	7,647.00
1628	50 mm dia water pressure reducing valve (Brass double net)	each	10,588.00	10,588.00	10,588.00	10,588.00
Food graded plastic overhead water reservoir						
1629	1000 liter capacity	each	7,300.00	7,300.00	7,300.00	7,300.00
1630	1500 liter capacity	each	10,950.00	10,950.00	10,950.00	10,950.00
1631	2000 liter capacity	each	14,600.00	14,600.00	14,600.00	14,600.00
1632	3000 liter capacity	each	21,900.00	21,900.00	21,900.00	21,900.00
1633	5000 liter capacity	each	36,500.00	36,500.00	36,500.00	36,500.00
Food-graded plastic internal mini water tank (loft tank)						
1634	150 liter capacity	each	2,250.00	2,250.00	2,250.00	2,250.00
1635	300 liter capacity	each	3,500.00	3,500.00	3,500.00	3,500.00
1636	500 liter capacity	each	3,650.00	3,650.00	3,650.00	3,650.00
Food graded ferro-cement water tank (HBRI)						
1637	400 gallon capacity	each	7,200.00	7,200.00	7,200.00	7,200.00
1638	450 mm long plastic flexible lead (connection) pipe	each	50.00	50.00	50.00	50.00
1639	600 mm long plastic flexible lead (connection) pipe	each	60.00	60.00	60.00	60.00
1640	450 mm long metal cover connection pipe	each	112.00	112.00	112.00	112.00
1641	600 mm long metal cover connection pipe	each	140.00	140.00	140.00	140.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
1642	12 mm or 19 mm dia ball cock for water tank	each	180.00	180.00	180.00	180.00
1643	19 mm dia overflow pipe with jam-nut for plastic water tank	each	90.00	90.00	90.00	90.00
	Water Purifier					
1644	Water purification capacity: 10 L/hr, storage 6 litre; RO+MF	each	14,500.00	14,500.00	14,500.00	14,500.00
1645	Water purification capacity: 10~12 L/hr, digital display, storage minimum 9 litre, 7 stage purification; Ro+UV+MF	each	25,500.00	25,500.00	25,500.00	25,500.00
1646	Water purification capacity: 15 L/hr; storage 8 litre, RO+UF	each	17,500.00	17,500.00	17,500.00	17,500.00
1647	Water purification capacity: 20 L/hr, minimum storage 8 litre, 6 stage purification; RO+UV+MF	each	23,000.00	23,000.00	23,000.00	23,000.00
1648	Water purification capacity: 60 L/hr, at least 5 stage filtration RO purifier ;	each	75,000.00	75,000.00	75,000.00	75,000.00
1649	Water dispenser	each	3,500.00	3,500.00	3,500.00	3,500.00
	Automatic pressure and flow controller					
1650	Maximum flow rate-80 Liter/min	each	8,600.00	8,600.00	8,600.00	8,600.00
1651	Maximum flow rate-200 Liter/min	each	13,500.00	13,500.00	13,500.00	13,500.00
	Hand drier					
1652	Automatic Hand drier Local (Standard quality)	each	4,500.00	4,500.00	4,500.00	4,500.00
1653	Automatic Hand drier Local (Super quality)	each	5,500.00	5,500.00	5,500.00	5,500.00
1654	Automatic Hand drier Local (Superior quality)	each	7,000.00	7,000.00	7,000.00	7,000.00
1655	Automatic Hand drier (Special quality)	each	11,200.00	11,200.00	11,200.00	11,200.00
C20	ARBORICULTURE WORK					
1656	Alluvial loamy silty soil	per % cft	1,800.00	1,800.00	1,800.00	1,800.00
1657	Well decomposed cow dung	per % cft	2,500.00	2,500.00	2,500.00	2,500.00
1658	Possible cost/royalty of lawn grass	per % sft	50.00	50.00	50.00	50.00
1659	16'-0" long muli bamboo (for split)	each	140.00	140.00	140.00	140.00
1660	25'-0" long muli bamboo (full size)	each	240.00	240.00	240.00	240.00
1661	Borrak bamboo (for post)	per foot	13.50	13.50	13.50	13.50
1662	Borrak bamboo (full size)	each	405.00	405.00	405.00	405.00
1663	200 mm size earthen tub	each	42.00	42.00	42.00	42.00
1664	250 mm size earthen tub	each	50.00	50.00	50.00	50.00
1665	300 mm size earthen tub	each	70.00	70.00	70.00	70.00
1666	350 mm size earthen tub	each	95.00	95.00	95.00	95.00
1667	400 mm size earthen tub	each	165.00	165.00	165.00	165.00
1668	300 mm size earthen plate	each	30.00	30.00	30.00	30.00
1669	Mustard oil cake	per kg	46.00	46.00	46.00	46.00
1670	Bone mele	per kg	45.00	45.00	45.00	45.00
1671	Urea fertilizer	per kg	25.00	25.00	25.00	25.00
1672	Murate of potash	per kg	22.00	22.00	22.00	22.00
1673	Triple super phosphate (TSP)	per kg	30.00	30.00	30.00	30.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
1674	Spade (kodal)	each	450.00	450.00	450.00	450.00
1675	Spray machine (plastic), 5ltr capacity	each	1,800.00	1,800.00	1,800.00	1,800.00
1676	Steel funna, 450 mm size with wooden handle	each	370.00	370.00	370.00	370.00
1677	Hand hoe, 250 mm size	each	100.00	100.00	100.00	100.00
1678	Standard Steel hand trolley	each	6,200.00	6,200.00	6,200.00	6,200.00
1679	Hedge scissors	each	1,200.00	1,200.00	1,200.00	1,200.00
1680	10" size Secature	each	650.00	650.00	650.00	650.00
1681	22 BWG G.I. water can (2.5 gallon)	each	350.00	350.00	350.00	350.00
1682	300 mm size G.I. bucket	each	280.00	280.00	280.00	280.00
1683	19 mm dia plastic hose pipe	per foot	18.00	18.00	18.00	18.00
1684	400 mm blade Hand Lawn Mower, Model no 1403 – 16 (USA)	each	12,500.00	12,500.00	12,500.00	12,500.00
1685	4.5 h.p., 550 mm blade power lawn mower machine	each	44,500.00	44,500.00	44,500.00	44,500.00
1686	6.5 h.p., 550 mm blade power lawn mower machine	each	58,400.00	58,400.00	58,400.00	58,400.00
1687	22 h.p. 1150 mm cutting blade power riding lawn mower machine	each	480,000.00	480,000.00	480,000.00	480,000.00
1688	perfekthion 1-100ml ,bottle	each	245.00	245.00	245.00	245.00
1689	Redomil gold, 500gm packet	each	825.00	825.00	825.00	825.00
1690	Ripcord 1-100 ml bottle	each	220.00	220.00	220.00	220.00
1691	Proclaim, 1 box (10gm-10 pack)	each	635.00	635.00	635.00	635.00
1692	Vertimec, 1-50ml bottle	each	120.00	120.00	120.00	120.00
C21	DEEP TUBE-WELL					
	I. For Test boring & design					
1693	Mobilization of equipment for drilling 38 mm dia test and observation well	LS	6,400.00	6,400.00	6,400.00	6,400.00
1694	Boring by using 100 mm dia cutter (0 m to 50 m)	meter	160.00	160.00	160.00	160.00
1695	Best quality heavy type hand type pump no 6	each	2,600.00	2,600.00	2,600.00	2,600.00
1696	2.91 mm wall thick 38 mm dia G.I. pipe	meter	650.00	650.00	650.00	650.00
1697	4 mm wall thick 50 mm dia G.I. pipe	meter	930.00	930.00	930.00	930.00
1698	5 mm wall thick 75 mm dia G.I. pipe	meter	1,710.00	1,710.00	1,710.00	1,710.00
1699	5 mm wall thick 100 mm dia G.I. pipe	meter	2,215.00	2,215.00	2,215.00	2,215.00
1700	38 mm dia water grade PVC pipe (D-Class or eqv.) including carriage	meter	130.00	130.00	130.00	130.00
1701	38 mm dia water grade PVC Strainer (D-Class or eqv.) including carriage	meter	160.00	160.00	160.00	160.00
1702	38 mm dia socket adopter	each	80.00	80.00	80.00	80.00
1703	Best quality 38 mm dia PVC Cap.	each	60.00	60.00	60.00	60.00
1704	Complete development of the tube-well (test boring) up to 200 m depth.	LS	7,200.00	7,200.00	7,200.00	7,200.00
1705	Design of production well upto 200 m	LS	9,300.00	9,300.00	9,300.00	9,300.00
1706	Design of production well beyond 200m	LS	15,100.00	15,100.00	15,100.00	15,100.00
1707	Disinfections of tube-well using bleaching powder	LS	370.00	370.00	370.00	370.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
1708	Maintaining and filling and sealing test bore	each bore	3,600.00	3,600.00	3,600.00	3,600.00
II. For Production well						
1709	Mobilization of drilling rig for shrouded production wells of depth up to 100 m	LS	39,100.00	39,100.00	39,100.00	39,100.00
1710	325 mm dia boring: up to 50 m depth.	meter	780.00	780.00	780.00	780.00
1711	350 mm dia boring: up to 50 m depth.	meter	850.00	850.00	850.00	850.00
1712	400 mm dia boring: up to 50 m depth.	meter	890.00	890.00	890.00	890.00
1713	600 mm dia boring: up to 50 m depth.	meter	1,120.00	1,120.00	1,120.00	1,120.00
1714	800 mm dia boring: up to 50 m depth.	meter	1,260.00	1,260.00	1,260.00	1,260.00
1715	50 mm dia Class C PVC pipe	meter	146.00	146.00	146.00	146.00
1716	50 mm dia Class D PVC pipe	meter	178.00	178.00	178.00	178.00
1717	50 mm dia Class E PVC pipe	meter	233.00	233.00	233.00	233.00
1718	50 mm dia Class D PVC strainer	meter	196.61	196.61	196.61	196.61
1719	50 mm dia Class E PVC strainer	meter	251.18	251.18	251.18	251.18
1720	75 mm dia Class C PVC pipe	meter	281.00	281.00	281.00	281.00
1721	75 mm dia Class D PVC pipe	meter	382.00	382.00	382.00	382.00
1722	75 mm dia Class E PVC pipe	meter	493.00	493.00	493.00	493.00
1723	75 mm dia Class D PVC strainer	meter	418.07	418.07	418.07	418.07
1724	75 mm dia Class E PVC strainer	meter	529.01	529.01	529.01	529.01
1725	100 mm dia Class C PVC pipe	meter	421.00	421.00	421.00	421.00
1726	100 mm dia Class D PVC pipe	meter	531.00	531.00	531.00	531.00
1727	100 mm dia Class E PVC pipe	meter	791.00	791.00	791.00	791.00
1728	100 mm dia Class D PVC strainer	meter	692.65	692.65	692.65	692.65
1729	100 mm dia Class E PVC strainer	meter	858.62	858.62	858.62	858.62
1730	150 mm dia Class C PVC pipe	meter	1,051.00	1,051.00	1,051.00	1,051.00
1731	150 mm dia Class D PVC pipe	meter	1,436.00	1,436.00	1,436.00	1,436.00
1732	150 mm dia Class E PVC pipe	meter	1,759.00	1,759.00	1,759.00	1,759.00
1733	150 mm dia Class D PVC strainer	meter	1,544.67	1,544.67	1,544.67	1,544.67
1734	150 mm dia Class E PVC strainer	meter	1,873.50	1,873.50	1,873.50	1,873.50
1735	50 mm dia PVC cap	each	100.00	100.00	100.00	100.00
1736	100 mm dia PVC cap	each	400.00	400.00	400.00	400.00
1737	150 mm dia PVC cap	each	888.00	888.00	888.00	888.00
1738	125 mm x 50 mm PVC reducer	each	849.00	849.00	849.00	849.00
1739	150 mm x 75 mm PVC reducer	each	1,236.00	1,236.00	1,236.00	1,236.00
1740	200 mm x 100 mm PVC reducer	each	1,850.00	1,850.00	1,850.00	1,850.00
1741	200 mm x 150 mm PVC reducer	each	2,008.00	2,008.00	2,008.00	2,008.00
1742	250 mm x 150 mm PVC reducer	each	3,000.00	3,000.00	3,000.00	3,000.00
1743	125 mm dia PVC housing pipe Class C	meter	812.00	812.00	812.00	812.00
1744	125 mm dia PVC housing pipe Class D	meter	1,002.00	1,002.00	1,002.00	1,002.00
1745	125 mm dia PVC housing pipe Class E	meter	1,192.00	1,192.00	1,192.00	1,192.00
1746	150 mm dia PVC housing pipe Class C	meter	1,191.00	1,191.00	1,191.00	1,191.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
1747	150 mm dia PVC housing pipe Class D	meter	1,679.00	1,679.00	1,679.00	1,679.00
1748	150 mm dia PVC housing pipe Class E	meter	2,055.00	2,055.00	2,055.00	2,055.00
1749	200 mm dia PVC housing pipe Class C	meter	1,882.00	1,882.00	1,882.00	1,882.00
1750	200 mm dia PVC housing pipe Class D	meter	2,548.00	2,548.00	2,548.00	2,548.00
1751	200 mm dia PVC housing pipe Class E	meter	3,074.00	3,074.00	3,074.00	3,074.00
1752	250 mm dia PVC housing pipe Class C	meter	2,500.00	2,500.00	2,500.00	2,500.00
1753	250 mm dia PVC housing pipe Class D	meter	3,550.00	3,550.00	3,550.00	3,550.00
1754	250 mm dia PVC housing pipe Class E	meter	4,740.00	4,740.00	4,740.00	4,740.00
1755	PVC Tape	each	105.00	105.00	105.00	105.00
1756	PVC Solution / gum	no	660.68	660.68	660.68	660.68
1757	Petrol	litre	89.00	89.00	89.00	89.00
1758	Diesel	litre	68.00	68.00	68.00	68.00
1759	M.S split centralizer	meter	470.00	470.00	470.00	470.00
1760	S.S split centralizer	meter	1,510.00	1,510.00	1,510.00	1,510.00
1761	Complete development of the tube-well up to 200 m depth (50 mm x 150 mm tube-well).	LS	25,500.00	25,500.00	25,500.00	25,500.00
1762	Complete development of the tube-well up to 200 m depth. (75 mm x 150 mm tube-well)	LS	33,800.00	33,800.00	33,800.00	33,800.00
1763	Complete development of the tube-well up to 200 m depth. (100 mm x 200 mm tube-well)	LS	41,500.00	41,500.00	41,500.00	41,500.00
1764	Complete development of the tube-well up to 200 m depth. (150 mm x 200 mm tube-well)	LS	49,600.00	49,600.00	49,600.00	49,600.00
1765	Complete development of the tube-well up to 200 m depth. (400 mm x 200 mm tube-well)	LS	47,100.00	47,100.00	47,100.00	47,100.00
1766	Hire charge of pump including spare and maintenance	hour	320.00	320.00	320.00	320.00
1767	Disinfections of tube-well using bleaching powder (for 50 mm x 125 mm tube-well)	LS	1,340.00	1,340.00	1,340.00	1,340.00
1768	150 mm dia and 4 mm thick M.S. pipe	meter	2,550.00	2,550.00	2,550.00	2,550.00
1769	200 mm dia and 6 mm thick M.S. pipe welded	meter	3,600.00	3,600.00	3,600.00	3,600.00
1770	200 mm dia and 6 mm thick M.S. pipe seamless	meter	4,010.00	4,010.00	4,010.00	4,010.00
1771	4 mm thick 200 mm dia plate	each	1,240.00	1,240.00	1,240.00	1,240.00
1772	5 mm thick 250 mm dia plate	each	1,400.00	1,400.00	1,400.00	1,400.00
1773	6 mm thick 150 mm dia M.S. Cap	each	1,220.00	1,220.00	1,220.00	1,220.00
1774	6 mm thick 200 mm dia M.S. Cap	each	1,560.00	1,560.00	1,560.00	1,560.00
1775	150 mm dia 4.85 mm thick G.I. pipe	meter	2,950.00	2,950.00	2,950.00	2,950.00
1776	200 mm dia 6 mm thick G.I. pipe	meter	6,200.00	6,200.00	6,200.00	6,200.00
1777	150 mm dia stainless steel strainer of continuous slot	meter	14,600.00	14,600.00	14,600.00	14,600.00
1778	150 mm dia 2.5 mm thick stainless steel bridge type strainer	meter	11,005.00	11,005.00	11,005.00	11,005.00
1779	200 mm dia 2.5 mm thick stainless steel strainer of continuous slot	meter	17,500.00	17,500.00	17,500.00	17,500.00
1780	200 mm dia 2.5 mm thick stainless steel bridge type strainer	meter	11,500.00	11,500.00	11,500.00	11,500.00
1781	75 mm dia 2.5 mm thick stainless steel strainer of continuous slot		7,733.70	7,733.70	7,733.70	7,733.70

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
1782	75 mm dia 2.5 mm thick stainless steel bridge type strainer	meter	6,500.00	6,500.00	6,500.00	6,500.00
1783	100 mm dia 2.5 mm thick stainless steel strainer of continuous slot		8,737.00	8,737.00	8,737.00	8,737.00
1784	100 mm dia 2.5 mm thick stainless steel bridge type strainer	meter	6,580.00	6,580.00	6,580.00	6,580.00
1785	50 mm dia 2.5 mm thick stainless steel strainer of continuous slot		6,863.40	6,863.40	6,863.40	6,863.40
1786	50 mm dia 2.5 mm thick stainless steel bridge type strainer	meter	5,660.00	5,660.00	5,660.00	5,660.00
1787	75 mm dia 2.5 mm thick stainless steel bridge type strainer	meter	7,680.00	7,680.00	7,680.00	7,680.00
1788	200 mm x 400 mm dia 6 mm thick M.S. reducer	each	2,530.00	2,530.00	2,530.00	2,530.00
1789	150 mm x 300 mm dia 6 mm thick M.S. reducer	each	2,420.00	2,420.00	2,420.00	2,420.00
1790	200 mm x 300 mm dia 6 mm thick M.S. reducer	each	2,420.00	2,420.00	2,420.00	2,420.00
1791	50 mm x 150 mm dia M.S. reducer	each	825.00	825.00	825.00	825.00
1792	75 mm x 150 mm dia M.S. reducer	each	825.00	825.00	825.00	825.00
1793	100 mm x 200 mm dia M.S. reducer	each	1,100.00	1,100.00	1,100.00	1,100.00
1794	(i) 300 mm dia 6 mm thick M.S. housing pipe welded	meter	5,994.00	5,994.00	5,994.00	5,994.00
1795	(ii) 300 mm dia 6 mm thick M.S. housing pipe seamless	meter	8,250.00	8,250.00	8,250.00	8,250.00
1796	(iii) 400 mm dia 6 mm thick M.S. housing pipe welded	meter	9,422.00	9,422.00	9,422.00	9,422.00
1797	(iv) 400 mm dia 6 mm thick M.S. housing pipe seamless	meter	11,550.00	11,550.00	11,550.00	11,550.00
1798	150 mm dia 6 mm thick M.S. housing pipe welded	meter	4,400.00	4,400.00	4,400.00	4,400.00
1799	150 mm dia 6 mm thick M.S. housing pipe seamless	meter	3,850.00	3,850.00	3,850.00	3,850.00
1800	350 mm dia 6 mm thick M.S. cap	each	2,200.00	2,200.00	2,200.00	2,200.00
1801	450 mm dia 6 mm thick M.S. cap	each	1,950.00	1,950.00	1,950.00	1,950.00
1802	40 mm dia "D" grade pipe	foot	40.00	40.00	40.00	40.00
1803	50 mm dia C-Class water- grade pipe	foot	90.00	90.00	90.00	90.00
1804	3 m long 40 mm dia PVC strainer	each	400.00	400.00	400.00	400.00
1805	EPI / RFL (medium) brand no 6 Pump with necessary fittings etc.	each	3,000.00	3,000.00	3,000.00	3,000.00
1806	50 mm x 40 mm socket (reducer)	each	80.00	80.00	80.00	80.00
1807	40 mm dia pipe nipple	each	123.00	123.00	123.00	123.00
1808	4'-0" long cylinder	each	205.00	205.00	205.00	205.00
1809	Tie foot ball	Pair	40.00	40.00	40.00	40.00
1810	Tie plunger	each	80.00	80.00	80.00	80.00
1811	3/8" dia socket	each	20.00	20.00	20.00	20.00
1812	3/8" dia nut	each	18.00	18.00	18.00	18.00
1813	Solution big size	each	500.00	500.00	500.00	500.00
1814	Tape	each	24.00	24.00	24.00	24.00
III. Testing of water including arsenic, collected from the test bore in BUET Laboratory						
1815	pH/Hydrogen Ion density	per test	500.00	500.00	500.00	500.00
1816	Colour (filtered)	per test	500.00	500.00	500.00	500.00
1817	Carbon dioxide (CO ₂)	per test	500.00	500.00	500.00	500.00
1818	Chlorine (Cl)	per test	800.00	800.00	800.00	800.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
1819	Fluorine (FI)	per test	700.00	700.00	700.00	700.00
1820	Iron (Fe)	per test	2,500.00	2,500.00	2,500.00	2,500.00
1821	Manganese (Mn)	per test	1,800.00	1,800.00	1,800.00	1,800.00
1822	Nitrate-Nitrogen (NO ₃ -N)	per test	900.00	900.00	900.00	900.00
1823	Total Alkalinity	per test	600.00	600.00	600.00	600.00
1824	Total hardness	per test	1,100.00	1,100.00	1,100.00	1,100.00
1825	Total dissolved solids (TDS)	per test	1,100.00	1,100.00	1,100.00	1,100.00
1826	Arsenic (As)	per test	1,800.00	1,800.00	1,800.00	1,800.00
1827	Turbidity	per test	500.00	500.00	500.00	500.00
1828	Sieve analysis for sand from different layer	per test	3,800.00	3,800.00	3,800.00	3,800.00
C22	SUB-SOIL INVESTIGATION WORK					
	I. Operational cost					
1829	Truck fare within 20 km including loading & un-loading	per trip	1,850.00	1,850.00	1,850.00	1,850.00
1830	Temporary camp at site for soil investigation work	per site	1,250.00	1,250.00	1,250.00	1,250.00
1831	Field Engineer including site allowances: 1-3yrs Exp, Membership with IEB	per day	1,900.00	1,900.00	1,900.00	1,900.00
1832	Foundation Engineer: 5-10yrs exp , Membership with IEB	per day	3,000.00	3,000.00	3,000.00	3,000.00
1833	Foreman including site allowances	per day	910.00	910.00	860.00	860.00
1834	Rig operators including site allowances	per day	750.00	750.00	700.00	700.00
1835	Helper to rig operator/c site allowances	per day	640.00	620.00	590.00	590.00
1836	Unskilled labour including site allowances	per day	590.00	580.00	540.00	540.00
1837	Asstt laboratory technician	per day	850.00	850.00	800.00	800.00
1838	Laboratory technician	per day	1,400.00	1,400.00	1,400.00	1,400.00
1839	Laboratory engineer	per day	1,800.00	1,800.00	1,800.00	1,800.00
1840	Conveyance within 25 km	per day	120.00	120.00	120.00	120.00
1841	Wooden plank (mango)	per cft	700.00	700.00	700.00	700.00
1842	Rope	per kg	55.00	55.00	55.00	55.00
1843	Small boat	per day	850.00	850.00	850.00	850.00
1844	Drum (defects free)	each	1,200.00	1,200.00	1,200.00	1,200.00
1845	Hire charge of boring rig	per day	3,200.00	3,200.00	3,200.00	3,200.00
	II Laboratory Charge for Sub-Soil Investigation Work					
1846	Sp. gr. test	per test	235.00	235.00	235.00	235.00
1847	Hydrometer, sieve analysis & sp. gr., & Classification according to ASTM	per test	1,370.00	1,370.00	1,370.00	1,370.00
1848	Linear shrinkage	per test	810.00	810.00	810.00	810.00
1849	Shrinkage limit	per test	570.00	570.00	570.00	570.00
1850	Liquid limit	per test	350.00	350.00	350.00	350.00
1851	Plastic limit	per test	350.00	350.00	350.00	350.00
1852	Unit weight (wet & dry)	per test	290.00	290.00	290.00	290.00
1853	Void ratio	per test	1,160.00	1,160.00	1,160.00	1,160.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
1854	Moisture content	per test	240.00	240.00	240.00	240.00
1855	Organic matter content	per test	1,390.00	1,390.00	1,390.00	1,390.00
1856	Consolidated quick test (direct shear test)	per test	1,390.00	1,390.00	1,390.00	1,390.00
1857	Unconfined compression	per test	1,730.00	1,730.00	1,730.00	1,730.00
1858	Ground water level location	per site	580.00	580.00	580.00	580.00
1859	Visual Inspection & Classification of soil for engineering purposes	per test	180.00	180.00	180.00	180.00
C23	FITTINGS					
	I. Fittings for Wooden Door-windows/ Hard wares/ Glass/ CI sheet					
1860	250 mm long iron tower bolt	each	60.00	60.00	60.00	60.00
1861	250 mm long brass tower bolt	each	400.00	400.00	400.00	400.00
1862	200 mm long brass tower bolt	each	350.00	350.00	350.00	350.00
1863	150 mm long brass tower bolt	each	400.00	400.00	400.00	400.00
1864	250 mm long SS tower bolt	each	150.00	150.00	150.00	150.00
1865	200 mm socket bolt	each	50.00	50.00	50.00	50.00
1866	200 mm long brass socket bolt	each	300.00	300.00	300.00	300.00
1867	200 mm long SS socket bolt	each	220.00	220.00	220.00	220.00
1868	150 mm long SS socket bolt	each	200.00	200.00	200.00	200.00
1869	Hatch bolt	each	350.00	350.00	350.00	350.00
1870	100 mm long hinges nickel plated	each	70.00	70.00	70.00	70.00
1871	100 mm long brass hinge	each	150.00	150.00	150.00	150.00
1872	75 mm long brass hinge	each	110.00	110.00	110.00	110.00
1873	100 mm long SS hinge	each	100.00	100.00	100.00	100.00
1874	75 mm long SS hinge	each	70.00	70.00	70.00	70.00
1875	Nickel plated handle	each	80.00	80.00	80.00	80.00
1876	150 mm Brass handle	each	100.00	100.00	100.00	100.00
1877	100 mm Brass handle	each	200.00	200.00	200.00	200.00
1878	150 mm SS handle	each	70.00	70.00	70.00	70.00
1879	100 mm SS handle	each	100.00	100.00	100.00	100.00
1880	1'-6" Long 25 mm SS Handle	each	450.00	450.00	450.00	450.00
1881	3mm thick 2" x 2" plate Nos for locking arrangement	each	130.00	130.00	130.00	130.00
1882	Iron screws	per dzn	18.00	18.00	18.00	18.00
1883	Hinged cleats.	each	20.00	20.00	20.00	20.00
1884	SS Hinged cleats.	each	50.00	50.00	50.00	50.00
1885	Screws for Hinged cleats.	each	10.00	10.00	10.00	10.00
1886	Hinged cleats and buffer block	set	62.00	62.00	62.00	62.00
1887	plastic / rubber buffer block	each	8.00	8.00	8.00	8.00
1888	Country made door viewer	each	160.00	160.00	160.00	160.00
1889	Foreign made door viewer	each	250.00	250.00	250.00	250.00
1890	Knob catchment	each	40.00	40.00	40.00	40.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
1891	Best quality round lock/ rim lock	each	650.00	650.00	650.00	650.00
1892	Best quality security lock	each	950.00	950.00	950.00	950.00
1893	62 mm dia iron rings	each	18.00	18.00	18.00	18.00
1894	250 mm long & 12 mm dia tower bolt	each	60.00	60.00	60.00	60.00
1895	150 mm Socket bolt	each	45.00	45.00	45.00	45.00
1896	75 mm long Iron hinges	each	12.00	12.00	12.00	12.00
1897	225 mm long catch hook	each	17.00	17.00	17.00	17.00
1898	150 mm long brass tower & socket bolt	each	250.00	250.00	250.00	250.00
1899	75 mm long brass hinges	each	120.00	120.00	120.00	120.00
1900	150 mm long catch hooks	each	15.00	15.00	15.00	15.00
1901	Heavy type nickel plated handle	each	80.00	80.00	80.00	80.00
1902	SS Screws	per doz.	30.00	30.00	30.00	30.00
1903	Brass screw/38 mm screw	per doz.	25.00	25.00	25.00	25.00
1904	Magnetic catch	each	50.00	50.00	50.00	50.00
1905	Magnetic Door Holder	each	180.00	180.00	180.00	180.00
1906	Magnetic Door Holder (Hettich model no- 9228707, Yale model no- YDH 010-AB)	each	550.00	550.00	550.00	550.00
1907	SS screw	per dozen	30.00	30.00	30.00	30.00
1908	SS Magnetic Door Holder	each	550.00	550.00	550.00	550.00
1909	Door closer (Hettich model no- 9228767, Hafele model no- 499.30.003, Yale model no- Yale 7712)	each	3,500.00	3,500.00	3,500.00	3,500.00
1910	Hettich mortice door lock with lever handle model no- 9250321 , thumbturn cylinder and mortise or equivalent	each	3,850.00	3,850.00	3,850.00	3,850.00
1911	Mortise lock with Tubular handle with Yale handle model no- YTL060, Hafele handle model no- 903.92.556, Dorset model no- ML SL OR ASS 19 or equivalent	each	5,000.00	5,000.00	5,000.00	5,000.00
1912	Mortise lock with Satin Stainless Steel Solid lever handle (Yale handle model no- YSL804, Dorset model no- PR 10 (SS) / Hafele model no- 903.92.636 solid lever handle or equivalent)	each	6,000.00	6,000.00	6,000.00	6,000.00
1913	Knob lock with Satin Stainless Steel finish knob (Hettich model no- 9228341, Yale model no- VCA5147 US32D 60BS, Hafele model no- 489.10.250 or equivalent)	each	1,400.00	1,400.00	1,400.00	1,400.00
1914	Knob lock with Antique Brass finish (Yale model no- VCN5127 US5 60BS, Hettich model no- 9228345 or equivalent)	each	1,550.00	1,550.00	1,550.00	1,550.00
1915	5 mm thick clear glass	per sft	71.00	71.00	71.00	71.00
1916	5 mm thick reflected glass	per sft	102.00	102.00	102.00	102.00
1917	6 mm thick clear glass	per sft	90.00	90.00	90.00	90.00
1918	8 mm thick clear glass	per sft	130.00	130.00	130.00	130.00
1919	10 mm thick clear glass	per sft	142.00	142.00	142.00	142.00
1920	5 mm thick ambush / frosted glass	per sft	70.00	70.00	70.00	70.00
1921	5 mm thick tinted glass	per sft	90.00	90.00	90.00	90.00
1922	6 mm thick reflected glass	per sft	115.00	115.00	115.00	115.00
1923	3 mm thick clear glass	per sft	50.00	50.00	50.00	50.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
1924	1.5 mm thick corrugated fiber glass	per sft	85.00	85.00	85.00	85.00
1925	1.5 mm thick fiber glass sheet ridging	per foot	155.00	155.00	155.00	155.00
	Glass Door					
1926	10 mm thick tempered glass	per sft	390.00	390.00	390.00	390.00
1927	10 mm thick non- tempered glass	per sft	165.00	165.00	165.00	165.00
1928	Auto closer set	per set	6,200.00	6,200.00	6,200.00	6,200.00
1929	Top and bottom clamping device	per set	1,202.00	1,202.00	1,202.00	1,202.00
1930	Locking device	per set	2,800.00	2,800.00	2,800.00	2,800.00
1931	Top hinge	per set	1,250.00	1,250.00	1,250.00	1,250.00
1932	Handle	per set	2,800.00	2,800.00	2,800.00	2,800.00
	I. Hardware for steel door-window					
1933	Stopper handle	each	22.00	22.00	22.00	22.00
1934	300 mm long iron cleats	each	34.00	34.00	34.00	34.00
1935	50 mm long pin hinges	each	26.00	26.00	26.00	26.00
1936	100 mm long iron hinges	each	57.00	57.00	57.00	57.00
1937	Hand lock	each	53.00	53.00	53.00	53.00
1938	150 mm long clamp	each	37.00	37.00	37.00	37.00
C24	MISCELLANEOUS ITEMS					
1939	Nails and wires	per kg	70.00	70.00	70.00	70.00
1940	G.I. wire	per kg	120.00	120.00	120.00	120.00
1941	Chalk powder	per kg	30.00	30.00	30.00	30.00
1942	38 mm x 38 mm x 6 mm brass	per foot	320.00	320.00	320.00	320.00
1943	Polythene sheet	per % sft	260.00	260.00	260.00	260.00
1944	EPS sheet (62mm thick) density 15 kg per cum	per cft	100.00	100.00	100.00	100.00
1945	Ready made commercial wooden shutter: minimum 36 mm thick & 400 kg/cum	per sft	514.50	514.50	514.50	514.50
1946	Ready made Myanmar(Burma) teak wooden shutter: minimum 36 mm thick & 400 kg/cum	per sft	2,205.00	2,205.00	2,205.00	2,205.00
1947	Ready made mahogany wooden shutter: minimum 36 mm thick & 400 kg/cum	per sft	666.75	666.75	666.75	666.75
1948	Ready made beech wood shutter: minimum 36 mm thick & 400 kg/cum	per sft	1,323.00	1,323.00	1,323.00	1,323.00
1949	Wood plastic composite (WPC) door shutter & door frame (Door size: 6'9" x 2'6")	per set	14,111.00	14,111.00	14,111.00	14,111.00
1950	Wood plastic composite (WPC) door shutter & door frame (Door size: 6'9" x 3'0")	per set	17,059.00	17,059.00	17,059.00	17,059.00
1951	Wood plastic composite (WPC) door shutter & door frame (Door size: 6'9" x 3'4")	per set	18,485.00	18,485.00	18,485.00	18,485.00
1952	perforated aluminium board	per sft	110.00	110.00	110.00	110.00
1953	Lubricants	per litre	220.00	220.00	220.00	220.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
1954	Glass Fiber Mesh (10mm X 10mm grid and weight 110 gm/sqm)	per sft	7.50	7.50	7.50	7.50
1955	Water proof, damp proof, dry & breathable cement STN-EN - 1015-11 , compressive strength 34 MPa), Max depth of water penetration into hardened plaster is < 1 mm (25 kg bag) (Only for plaster work)	per bag	1,800.00	1,800.00	1,800.00	1,800.00
1956	Fire rated door complying standard specification	per sft	3,435.00	3,435.00	3,435.00	3,435.00
1957	Installation charge of fire rated door	per sft	240.00	240.00	240.00	240.00
1958	Nut-bolts, J-hooks etc.	per kg	160.00	160.00	160.00	160.00
1959	Empty gunny bags/ Polymer bag to fill sand for load test	each	20.00	20.00	20.00	20.00
1960	Salballah for driving	per foot	130.00	130.00	130.00	130.00
1961	Counter-sunk rivets for shoe-plate	each	55.00	55.00	55.00	55.00
1962	20 mesh 24 BWG wire mesh	per sft	25.00	25.00	25.00	25.00
1963	18 BWG galvanized wire mesh (2 mesh per 25mm)	per sft	20.00	20.00	20.00	20.00
1964	225 mm dia RCC pipe	per foot	270.00	270.00	270.00	270.00
1965	300 mm dia RCC pipe	per foot	460.00	460.00	460.00	460.00
1966	12 BWG barbed wire	per M. ton	120,000.00	120,000.00	120,000.00	120,000.00
1967	Rivet, washer, wire nails etc.	per kg	90.00	90.00	90.00	90.00
1968	38 mm dia M.S. wheel for collapsible gate	each	32.00	32.00	32.00	32.00
1969	75 mm - 150 mm M.S. clamp	each	32.00	32.00	32.00	32.00
1970	Electrodes including electricity	each	10.00	10.00	10.00	10.00
1971	Grease/lubricant etc.	per lb	65.00	65.00	65.00	65.00
1972	38 mm dia iron ring	each	20.00	20.00	20.00	20.00
1973	38 mm dia heavy type gate wheel	each	160.00	160.00	160.00	160.00
1974	Clamp with huskel dumney	each	145.00	145.00	145.00	145.00
1975	Heavy duty gate locking arrangement	each	280.00	280.00	280.00	280.00
1976	MS box holder	each	175.00	175.00	175.00	175.00
1977	125 mm M.S. hinges	each	70.00	70.00	70.00	70.00
1978	High performance elastomeric cementitious waterproof coating	per kg	225.00	225.00	225.00	225.00
1979	Acrylic based fiber reinforced elastomeric liquid	per liter	628.00	628.00	628.00	628.00
1980	15.62 mm socket bolt	each	62.00	62.00	62.00	62.00
1981	China made spring for rolling shutter	per foot	55.00	55.00	55.00	55.00
1982	Spring box for rolling shutter	each	80.00	80.00	80.00	80.00
1983	12 mm dia nut-bolt	each	12.00	12.00	12.00	12.00
1984	Coal-tar	per kg	70.00	70.00	70.00	70.00
1985	150 mm long brass tower & socket bolt	each	250.00	250.00	250.00	250.00
1986	75 mm long brass hinges	each	120.00	120.00	120.00	120.00
1987	150mmx 38mm ss hinges	each	2,500.00	2,500.00	2,500.00	2,500.00
1988	900 mm Long 40 Long 40mm x 40 mm (1.5mm thick) box SS Handle	each	150.00	150.00	150.00	150.00
1989	150 mm long catch hooks	each	15.00	15.00	15.00	15.00
1990	Screws	per doz.	12.00	12.00	12.00	12.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
1991	24 BWG wire-net	per sft	22.00	22.00	22.00	22.00
1992	Color Hardener for stamped concrete	per lb	77.50	77.50	77.50	77.50
1993	Release Agent for stamped concrete	per lb	680.00	680.00	680.00	680.00
1994	Solvent-Borne Acrylic Sealer for stamped concrete	per liter	1,800.00	1,800.00	1,800.00	1,800.00
1995	Gum	per kg	200.00	200.00	200.00	200.00
1996	Blue	per kg	200.00	200.00	200.00	200.00
1997	Pigment for colour washing	per kg	200.00	200.00	200.00	200.00
1998	300 mm long brass hasp bolt	each	380.00	380.00	380.00	380.00
1999	14" long 20mm dia solid SS hasp bolt	each	500.00	500.00	500.00	500.00
2000	lock	each	200.00	200.00	200.00	200.00
2001	Hydraulic door closer	each	2,000.00	2,000.00	2,000.00	2,000.00
2002	Mortice door lock	each	700.00	700.00	700.00	700.00
2003	Rim (round) door lock	each	550.00	550.00	550.00	550.00
2004	SS Pad lock	each	500.00	500.00	500.00	500.00
2005	Magnetic door-shock absorber	each	100.00	100.00	100.00	100.00
2006	Used and empty Bitumen drum	each	250.00	250.00	250.00	250.00
2007	Fire-wood	per mound	220.00	220.00	220.00	220.00
2008	Detergent powder	per kg	120.00	120.00	120.00	120.00
2009	Bleaching powder	per kg	100.00	100.00	100.00	100.00
2010	Fly proof wire-net	per sqm	100.00	100.00	100.00	100.00
2011	25 mm expanded metal net	per sqm	120.00	120.00	120.00	120.00
2012	Bamboo darma	per sqm	43.00	43.00	43.00	43.00
2013	Single layer double bamboo tarja	per sqm	140.00	140.00	140.00	140.00
2014	Premix cement plaster	per kg	45.00	45.00	45.00	45.00
2015	Skim coat	per kg	2,000.00	2,000.00	2,000.00	2,000.00
2016	Cementitious pinhole filler	per kg	100.00	100.00	100.00	100.00
2017	Bentonite	per kg	36.00	36.00	36.00	36.00
2018	16 gauge thick 50 mm x 50 mm ss hollow box	per ft	320.00	320.00	320.00	320.00
2019	16 gauge thick 50 mm x 38 mm ss hollow box	per ft	270.00	270.00	270.00	270.00
2020	18 gauge thick 50 mm x 12 mm ss hollow box	per ft	190.00	190.00	190.00	190.00
2021	2 ply petroleum asphalt (Chinese)	per sft	10.00	10.00	10.00	10.00
2022	Coal	per kg	7.00	7.00	7.00	7.00
2023	2.44 m x 1.22 m size hard board	per piece	600.00	600.00	600.00	600.00
2024	PVC water stopper (with non-centre bulb)	per foot	160.00	160.00	160.00	160.00
2025	PVC water stopper (with centre bulb)	per foot	180.00	180.00	180.00	180.00
2026	Sign board including material, painting, lettering etc all complete	sft	250.00	250.00	250.00	250.00
2027	Autocad operator	per day	1,200.00	1,200.00	1,200.00	1,200.00
2028	printing of drawing	sft	20.00	20.00	20.00	20.00
2029	A2 size printing	each	150.00	150.00	150.00	150.00
2030	As built work survey & report	per day	1,800.00	1,800.00	1,800.00	1,800.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
2031	Providing expertised Architect 5years exp with registration in respective professional body	per month	80,000.00	80,000.00	80,000.00	80,000.00
2032	Providing junior/ project Architect with registration in respective professional body	per month	50,000.00	50,000.00	50,000.00	50,000.00
2033	Providing expertised engineer 10 years exp with registration in respective professional body	per month	120,000.00	120,000.00	120,000.00	120,000.00
2034	Providing junior/ project engineer with registration in respective professional body	per month	50,000.00	50,000.00	50,000.00	50,000.00
2035	Providing pick up (double Cabined)	per month	70,000.00	70,000.00	70,000.00	70,000.00
2036	photographer	per day	1,200.00	1,200.00	1,200.00	1,200.00
2037	Drone rent	per day	15,000.00	15,000.00	15,000.00	15,000.00
2038	photo print , post card size	each	8.50	8.50	8.50	8.50
2039	Engineer, Expertise in microsoft MS Project /Primavera and experience by min 5yrs	per month	150,000.00	150,000.00	150,000.00	150,000.00
2040	Engineer, min graduate in relevant field	per day	1,900.00	1,900.00	1,900.00	1,900.00
2041	Diploma Engineer, min 5yrs Exp	per day	1,400.00	1,400.00	1,400.00	1,400.00
2042	Diploma Engineer, min 1yrs Exp	per day	1,100.00	1,100.00	1,100.00	1,100.00
2043	Trained operator for tower crane	per month	17,610.00	17,610.00	17,610.00	17,610.00
2044	Helper for tower crane	per month	10,000.00	10,000.00	10,000.00	10,000.00
2045	Maintenance & Electricity bill for tower crane	per month	4,000.00	4,000.00	4,000.00	4,000.00
2046	Generator/ Power consumption per kwh	per kwh	11.00	11.00	11.00	11.00
2047	Royalty of Earth	per thousand cft	2,200.00	2,200.00	2,200.00	2,200.00
2048	Royalty of Dredge material in the water body	per thousand cft	1,400.00	1,400.00	1,400.00	1,400.00
2049	Calibration of pressure gauge	per set	5,400.00	5,400.00	5,400.00	5,400.00
2050	Calibration of hydraulic jack & pressure gauge combined	per set	33,100.00	33,100.00	33,100.00	33,100.00
2051	Arc welding at workshop / factory	per foot	27.00	27.00	25.70	25.70
2052	Cutting by oxy-ace of 12 mm M.S plate, top & bott plate	per foot	37.00	37.00	36.00	36.00
2053	12 mm MS Plate Grinding to V bevel top & bott	per foot	52.50	52.50	51.00	51.00
2054	25 mm dia Hole in 12 mm M.S plate	per nos	52.50	52.50	51.00	51.00
2055	Cutting by shearing granding and hole for steel jacket, 6 mm plate on 2U x (top & bott) - C or U form	per foot	15.00	15.00	15.00	15.00
2056	6 mm MS Plate Grinding to V bevel on faces of U legs for top & bott	per foot	80.00	80.00	80.00	80.00
2057	Charge to bend 6 mm MS Plates	per foot	34.00	34.00	37.50	37.50
2058	50 mm dia Hole in 6 mm M.S plate	p/nos	125.00	125.00	125.00	125.00
2059	38 mm G.I/ MS pipe for dowel bar	per foot	215.00	215.00	225.00	215.00
2060	Fabrication: bending of 20 mm bar in U	per M.Ton	6,700.00	6,700.00	6,700.00	6,700.00
2061	Data logging engineer at hydraulic pile driver	per day	1,900.00	1,900.00	1,900.00	1,900.00
2062	Chief Mechanic, at hydraulic pile driver	per day	1,400.00	1,400.00	1,400.00	1,400.00
2063	Helper to mechanic, at hydraulic pile driver	per day	600.00	600.00	600.00	600.00
2064	Foreman, at hydraulic pile driver	per day	850.00	850.00	850.00	850.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
2065	Crane Operator, at hydraulic pile driver	per day	850.00	850.00	850.00	850.00
2066	Asst. Crane Operator, at hydraulic pile driver	per day	650.00	650.00	650.00	650.00
2067	Machine Operator, at hydraulic pile driver	per day	650.00	650.00	650.00	650.00
2068	Asst machine operator, at hydraulic pile driver	per day	650.00	650.00	650.00	650.00
2069	Helper to crane operator, at hydraulic pile driver	per day	600.00	600.00	600.00	600.00
2070	Helper to machine operator, at hydraulic pile driver	per day	600.00	600.00	600.00	600.00
2071	Generator Operator, at hydraulic pile driver	per day	650.00	650.00	650.00	650.00
2072	Surveyor to pile layout, at hydraulic pile driver	per day	1,200.00	1,200.00	1,200.00	1,200.00
2073	Helper to surveyor, at hydraulic pile driver	per day	850.00	850.00	850.00	850.00
2074	Skilled Labor, at hydraulic pile driver	per day	600.00	600.00	600.00	600.00
2075	ordinary labor, at hydraulic pile driver	per day	550.00	550.00	550.00	550.00
2076	Compilation of driving report, pile capacity log & submission to PE on signing it on hydraulic pile driver	per day	12,000.00	12,000.00	12,000.00	12,000.00
2077	PIT : mobilization, demobilization, accommodation +12pile PIT	per 100km within Dhaka	28,000.00	28,000.00	28,000.00	28,000.00
2078	Pile Integrity Test (PIT)	per pile after 1st 12 pile	1,200.00	1,200.00	1,200.00	1,200.00
2079	PIT expert engineer graduated in civil engr. and in geotech. engineer by profession, 10 yrs experience	per month	250,000.00	250,000.00	250,000.00	250,000.00
2080	Asst to PIT expert engineer: civil engr / geotech engineer by profession, 5yrs experience	per month	150,000.00	150,000.00	150,000.00	150,000.00
2081	Mobilization and demobilization of equipment, hammer, guide frame and a 40 Ton capacity crane for PDA test	per trip	29,000.00	29,000.00	29,000.00	29,000.00
2082	One 40 Ton Capacity Crane including operator, assistant and fuel for PDA test	per day	40,000.00	40,000.00	40,000.00	40,000.00
2083	Supply of data aquisition unit complete with sensors, guide frame, hammer and accessories and acquiring data from pile for PDA test	per set	25,000.00	25,000.00	25,000.00	25,000.00
2084	Report preparation for PDA test	per set	6,000.00	6,000.00	6,000.00	6,000.00
GLASS: Float / Anealed						
2085	Float / annealed glass thickness :2.5mm	sft	38.00	38.00	38.00	38.00
2086	Float / annealed glass thickness :3.0mm	sft	38.00	38.00	38.00	38.00
2087	Float / annealed glass thickness :3.5mm	sft	45.00	45.00	45.00	45.00
2088	Float / annealed glass thickness :4.0mm	sft	52.00	52.00	52.00	52.00
2089	Float / annealed glass thickness :5.0mm	sft	76.00	76.00	76.00	76.00
2090	Float / annealed glass thickness :6.0mm	sft	90.00	90.00	90.00	90.00
2091	Float / annealed glass thickness :8.0mm	sft	135.00	135.00	135.00	135.00
2092	Float / annealed glass thickness :10.0mm	sft	142.00	142.00	142.00	142.00
2093	Float / annealed glass thickness :12.0mm	sft	195.00	195.00	195.00	195.00
GLASS: Tempered Glass						
2094	Tempered glass thickness 5.0mm	sft	162.00	162.00	162.00	162.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
2095	Tempered glass thickness 6.0mm	sft	190.00	190.00	190.00	190.00
2096	Tempered glass thickness 8.0mm	sft	255.00	255.00	255.00	255.00
2097	Tempered glass thickness 10.0mm	sft	280.00	280.00	280.00	280.00
2098	Tempered glass thickness 12.0mm	sft	400.00	400.00	400.00	400.00
2099	Tempered glass thickness 15.0mm	sft	1,010.00	1,010.00	1,010.00	1,010.00
2100	Tempered glass thickness 19.0mm	sft	1,520.00	1,520.00	1,520.00	1,520.00
2101	12 mm two in one bib cock	each	1,200.00	1,200.00	1,200.00	1,200.00
2102	Fibre mesh	per kg	1,250.00	1,250.00	1,250.00	1,250.00
2103	3 mm thick frosted glass	sft	55.00	55.00	55.00	55.00
2104	Synthetic fly proof net.	sqm	160.00	160.00	160.00	160.00
2105	100 mm x 38 mm x 6 mm size clamp	each	16.00	16.00	16.00	16.00
2106	Stone lime	kg	20.00	20.00	20.00	20.00
2107	Surki	cum	1,600.00	1,600.00	1,600.00	1,600.00
2108	25 mm mesh expanded metal for using under patent stone	sft	17.00	17.00	17.00	17.00
2109	25 mm iron screw	dz	9.00	9.00	9.00	9.00
2110	50 mm iron screw	dz	16.00	16.00	16.00	16.00
2111	25 mm brass screw	dz	16.00	16.00	16.00	16.00
2112	38 mm iron hinge	each	5.00	5.00	5.00	5.00
2113	38 mm brass hinge	each	7.00	7.00	7.00	7.00
2114	75 mm long catch hook	each	5.00	5.00	5.00	5.00
2115	100 mm long catch hook	each	7.00	7.00	7.00	7.00
2116	150 mm long catch hook	each	9.00	9.00	9.00	9.00
2117	200 mm long catch hook	each	11.00	11.00	11.00	11.00
2118	225 mm long catch hook	each	17.00	17.00	17.00	17.00
2119	50 mm dia 100 mm long socket bolt	each	9.00	9.00	9.00	9.00
2120	50 mm dia 100 mm long socket bolt (SS)	each	38.00	38.00	38.00	38.00
2121	50 mm dia 150 mm long socket bolt	each	12.50	12.50	12.50	12.50
2122	50 mm dia 150 mm long socket bolt (SS)	each	60.00	60.00	60.00	60.00
2123	50 mm dia 200 mm long socket bolt	each	22.00	22.00	22.00	22.00
2124	50mm dia 200 mm long socket bolt (SS)	each	76.00	76.00	76.00	76.00
2125	50 mm dia 150 mm long brass socket bolt	each	120.00	120.00	120.00	120.00
2126	50 mm dia 200 mm long brass socket bolt	each	155.00	155.00	155.00	155.00
2127	50 mm dia 250 mm long brass socket bolt	each	190.00	190.00	190.00	190.00
2128	75 mm long hinge	each	27.00	27.00	27.00	27.00
2129	100 mm long hinge	each	50.00	50.00	50.00	50.00
2130	75 mm long brass hinge	each	115.00	115.00	115.00	115.00
2131	100 mm long brass hinge	each	155.00	155.00	155.00	155.00
2132	50 mm dia iron ring	each	15.00	15.00	15.00	15.00
2133	50 mm dia brass ring	each	42.00	42.00	42.00	42.00
2134	Digital print name plate	sft	250.00	250.00	250.00	250.00
2135	Acrylic transparent sheet for name plate	each	1,000.00	1,000.00	1,000.00	1,000.00
2136	Colouring materials	kg	190.00	190.00	190.00	190.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
2137	Lacquer spray polishing	litre	580.00	580.00	580.00	580.00
2138	Materials for french polishing: 3 coats on new surface	% sft	820.00	820.00	820.00	820.00
2139	Earthoil	kg	55.00	55.00	55.00	55.00
2140	40 mm dia G.I. Socket	each	110.00	110.00	110.00	110.00
2141	3 gal capacity C. I. Cistern (Not available in market)	each	1,300.00	1,300.00	1,300.00	1,300.00
2142	300 long clamp: Iron	each	25.00	25.00	25.00	25.00
2143	150 long clamp: Iron	each	13.00	13.00	13.00	13.00
2144	Aluminium paint	gallon (U.K.)	1,475.00	1,475.00	1,475.00	1,475.00
2145	36 " dia RCC ring for latrine and soak well	each	300.00	300.00	300.00	300.00
2146	36" dia RCC Slab for soak well cover	each	300.00	300.00	300.00	300.00
2147	36" dia RCC Slab with ceramic long pan and sanitary seal	each	950.00	950.00	950.00	950.00
2148	3" dia RCC post 12'-0" long	each	950.00	950.00	950.00	950.00
2149	0.45 mm couragated sheet walling & roofing	per sft	30.00	30.00	30.00	30.00
2150	Waste bin made of plastic material	each	1,250.00	1,250.00	1,250.00	1,250.00
2151	Plastic low-down cistern	each	950.00	950.00	950.00	950.00
2152	Siphon set for plastic low-down	set	438.00	438.00	438.00	438.00
2153	Jarul	per cft	1,800.00	1,800.00	1,800.00	1,800.00
2154	Loha/ Pyankado	per cft	2,700.00	2,700.00	2,700.00	2,700.00
2155	25mm dia G.I. Pipe for structural work	foot	80.00	80.00	80.00	80.00
2156	China made spring for rolling shutter	foot	18.00	18.00	18.00	18.00
2157	Spring box for rolling shutter	each	130.00	130.00	130.00	130.00
2158	Scaffolding including safety provision	per sft	12.00	12.00	12.00	12.00
2159	Hygienic Gown	each	120.00	120.00	120.00	120.00
2160	Thermometer	each	80.00	80.00	80.00	80.00
2161	Infra- red Thermometer	each	1,650.00	1,650.00	1,650.00	1,650.00
2162	Adhesive dressings pack	each	150.00	150.00	150.00	150.00
2163	Antiseptic Solution 100ml bottle	each	125.00	125.00	125.00	125.00
2164	Bandages pack	each	250.00	250.00	250.00	250.00
2165	Cotton balls or Swabs	each	50.00	50.00	50.00	50.00
2166	Emergency blanket	each	600.00	600.00	600.00	600.00
2167	Gloves (powdered)	each	550.00	550.00	550.00	550.00
2168	Hand Sanitizer 250 ml	each	250.00	250.00	250.00	250.00
2169	Hand Sanitizer 100 ml	each	150.00	150.00	150.00	150.00
2170	Ice bag	each	300.00	300.00	300.00	300.00
2171	Saline box	each	100.00	100.00	100.00	100.00
2172	Hand Wash liquid soap	each	150.00	150.00	150.00	150.00
2173	Basin with soap with necessary water supply facility	each	5,000.00	5,000.00	5,000.00	5,000.00
2174	Safety Helmet	each	200.00	200.00	200.00	200.00
2175	Safety Belt	each	400.00	400.00	400.00	400.00
2176	Safety Shoe	each	600.00	600.00	600.00	600.00
2177	Apron	each	120.00	120.00	120.00	120.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
2178	Gumboot	each	250.00	250.00	250.00	250.00
2179	Goggles	each	80.00	80.00	80.00	80.00
2180	Hiring of complete Surveillance facility for monitoring construction work	1 job	40,000.00	40,000.00	40,000.00	40,000.00
2181	0.45 mm thick foreign made celluloid paper	rft	10.00	10.00	10.00	10.00
2182	Adhesive glue for fixing celluloid paper to fair face shutter	liter	160.00	160.00	160.00	160.00
2183	Tar boiler	per day	1,120.00	1,120.00	1,120.00	1,120.00
2184	Vibrating roller Pedestrian (0.5 - 1 ton)	per day	3,500.00	3,500.00	3,500.00	3,500.00
2185	Cart fare within 5 km	per trip	600.00	600.00	600.00	600.00
2186	2 mm geo-textile	per sft	11.33	11.33	11.33	11.33
C25	CARRIAGE OF MATERIALS					
2187	Carriage of materials except bricks and bats by motor trucks bullock carts or any other means, including loading, unloading at both ends and stacking properly at site as per direction of the Engineer.					
(a)	Up to 1.5 kilometer	per M. ton	226.00	226.00	226.00	226.00
(b)	Up to 3.0 kilometer	per M. ton	310.00	310.00	310.00	310.00
(c)	Up to 5.0 kilometer	per M. ton	405.00	405.00	405.00	405.00
(d)	For each additional km beyond 5.0 kilometer and up to 30.0 kilometer	per M. ton	21.00	21.00	21.00	21.00
(e)	For each additional km beyond 30.0 kilometer and up to 80.0 kilometer	per M. ton	15.00	15.00	15.00	15.00
(f)	Beyond 80.0 kilometer	per M. ton	10.50	10.50	10.50	10.50
2188	Weighing at both ends for items of steel materials only	per M. ton	124.00	124.00	124.00	124.00
2189	Carriage of bricks or bats by motor truck, bullock carts or any other means including loading, unloading at both ends and stacking properly at site as per direction of the Engineer.					
(a)	Up to 1.5 kilometer	per % 0 nos	355.00	355.00	355.00	355.00
(b)	Up to 3.0 kilometer	per % 0 nos	475.00	475.00	475.00	475.00
(c)	Up to 5.0 kilometer	per % 0 nos	632.00	632.00	632.00	632.00
(d)	For each additional km beyond 5.0 kilometer and up to 30.0 kilometer	per % 0 nos	34.00	34.00	34.00	34.00
(e)	For each additional km beyond 30.0 kilometer and up to 80.0 kilometer	per % 0 nos	22.00	22.00	22.00	22.00
(f)	Beyond 80.0 kilometer	per % 0 nos	7.00	7.00	7.00	7.00
C26	BATCHING AND READY MIX CONCRETE					
2190	Hire and operational cost for batching mixture plant per cum (excluding fuel)	per cum	273.00	273.00	273.00	273.00
2191	Hire and operational cost for pay loader per cum (excluding fuel)	per cum	131.00	131.00	131.00	131.00
2192	Hire and operational cost of pump machine (excluding fuel)	per cum	206.00	206.00	206.00	206.00

SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
2193	Hire and operational cost of transit mixture (excluding fuel)	per cum	143.00	143.00	143.00	143.00
2194	Production cost of Ready Mix Concrete (excluding material cost) including carrying and pumping at site	per cum	410.00	410.00	410.00	410.00
2195	Water reducing high range chemical (for batching/RMC) admixture Type G	per kg	140.00	140.00	140.00	140.00
2196	Micro Silica (for high strength concrete)	per kg	80.00	80.00	80.00	80.00

CHAPTER 01: GENERAL, SITE FACILITIES AND SAFETY

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
01.1	Erection and maintenance of semi-permanent site office and removal of the same after completion of work in accordance with the conditions of contract. In addition to the office required for own use, the contractor shall provide and maintain furnished site office for the use of Engineer-in-charge and his staff. The site office must have tiles floor, adequate foundation, brick walls, false ceiling of gypsum board and all windows are to be glazed, shuttered and provided with steel grill. Outside and inside wall surface are to be painted on plaster acceptable to the Engineer-in-charge. The site office shall be maintained in a secure condition by the contractor until the completion of the contract and shall be provided with electricity, water supply, wash rooms and sewerage facilities. All doors shall be fitted with approved locks and windows shall be provided with curtain/blinds. Before construction the contractor shall submit plans and drawings showing proposed details and location for the site office, including foundations, access roads, shades, layout of electrical and water supply and hard standings there for the approval of Engineer-in-charge. The Engineer-in-charge may require revision of the plans prior to giving approval for construction. The contractor shall also submit detailed proposed furniture, fittings and other items of equipment and plant to the Engineer-in-charge for approval. These items shall be of the standard quality suitable for site. The office, complete with furnishings, fittings, access roads and hard standings shall be ready for occupation by the Engineer-in-charge within 28 days from the date of taking over site by the contractor. The contractor shall provide day and night guards and an attendant for the field office. At the end of the contract all materials, equipment and plant, furniture, fittings recovered from dismantling the office and removing access road will be the property of the contractor. No interim payment shall be certified unless engineer's office with required facilities are constructed and accepted by the Engineer-in-charge. (This is a time related item; proportionate payment for this item shall be made distributing in each bill on the basis of percentage progress of the whole works under contract)					
01.1.1	Engineer's site office of minimum 10 sqm plinth area with providing necessary facilities including office furniture, consumables, stationeries etc.	job	51,706.00	51,706.00	51,706.00	51,706.00
01.1.2	Engineer's site office of minimum 15 sqm plinth area with providing necessary facilities including office furniture, consumables, stationeries, water purifier etc.	job	82,603.00	82,603.00	82,603.00	82,603.00
01.1.3	Engineer's site office of minimum 38 sqm plinth area with providing necessary facilities including office furniture, 24000 BTU air cooler, umbrella, crockeries, water purifier,	job	500,661.00	500,661.00	500,661.00	500,661.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	PC with monitor, uninterruptible power supply (UPS), laser jet printer (minimum 20 ppm), LED flood light fittings (Halogen) for sight security etc.					
01.1.4.1	Providing necessary facilities in construction site for maintaining site safety of 30 nos construction worker including safety helmet, safety belt, apron, gumboot, goggles etc.	set	39,725.00	39,725.00	39,725.00	39,725.00
01.1.4.2	Providing necessary facilities in construction site for maintaining site safety of 10 nos construction inspection team member including safety helmet, safety goggles, safety shoe etc.	set	11,098.00	11,098.00	11,098.00	11,098.00
01.1.4.3	Supplying and providing of first aid box with necessary materials/medicine (hygienic gown, thermometer, adhesive dressings, antiseptic solutions, bandages, cotton balls or swabs, emergency blanket, gloves, hand sanitizer, ice pack, saline etc.) all complete as per direction of Engineer-in-charge.	each	16,666.00	16,666.00	16,666.00	16,666.00
01.1.5	Hiring, installation, testing & commissioning of CCTV/Surveillance facilities for monitoring construction site including supply, fixing of 5.0 megapixel IR fixed bullet network IP camera including lens, bracket, housing with outdoor night vision facilities, full HD 1080 pixel, real time video, network video recorder (NVR) , 2 TB HDD for NVR , 4/8/16/32 port PoE switch, 32"/42" Full HD CCTV monitor, cable & accessories, internet connection with operation & maintenance cost throughout contract completion period, re-fitting & re-fixing with progress of construction all complete as per direction of Engineer-in-charge.	job	50,444.00	50,444.00	50,444.00	50,444.00
01.1.6	Providing and maintenance one project profile signboards to be placed at a suitable place of the site including submission of proposals for the materials of the signboards and text layout containing 3D picture, safety instructions, project information with security light etc. to the Engineer-in-charge for approval which will be positioned as directed by the Engineer-in-charge and removing the same on completion of the works or as instructed by the Engineer-in-charge.	sqm	3,392.00	3,367.00	3,329.00	3,329.00
01.2.1	Providing 3 sets as-built drawings subject to Engineer's approval produced in AutoCAD software in 584.5 mm x 413.5 mm (A-2 size) standard drawing paper, and operating and maintenance manual of the equipment and plant incorporated in the works, if any, in original by the date stated in the particular conditions of contract (PCC). If the contractor does not supply the as-built drawings and operating & maintenance manuals by the date stated in the particular conditions of contract (PCC), or they do not receive the Engineer- in-charge's approval, the Engineer-in-charge shall	per tender	29,041.00	29,041.00	29,041.00	29,041.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	withhold the amount stated in the PCC from the payments due to the contractor. The as-built drawings must show the permanent works as actually constructed and reflect the revision of drawings supplied to the contractor during the Contract as well as revisions of drawings supplied to the contractor during the contract. (One set of as-built drawings shall be considered for measurement and payment)					
01.2.2	Providing additional copy of as-built drawing produced in AutoCAD software in 584.5 mm x 413.5 mm (A-2) standard drawing paper accepted by the Engineer-in-charge.	sqm of drawing sheet	340.00	340.00	340.00	340.00
01.3.1	Providing coloured progress picture & video of works, CCTV monitoring system operation and related data processing, regular data updating & all other relevant works regarding online monitoring system etc.	per month	33,401.00	33,401.00	33,401.00	33,401.00
01.4.1	Preparation & submission of work programme / schedule to the Engineer-in-charge for approval prior ground breaking showing the events (works) and successive sub-events of works including all the management & control parameters like Earliest Start Time (EST), Earliest Finish Time (EFT), float events on critical path, etc. with description of general method of works, in orderly manner all in the form of network diagram prepared in computer software like MS project/ Primavera and presenting in displayable hard and soft copy minimum 3 (three) sets.	per tender	32,967.00	32,967.00	32,967.00	32,967.00
01.4.2	Updating the work programme and submission to the Engineer-in-charge at intervals no longer than 28 days showing actual physical and financial progress achieved on each activity and the effect of the progress on the timing of the remaining work, including any changes to the sequence of the activities. However, Engineer's approval of the programme shall not alter the contractor's obligations. The contractor may revise the programme and submit it to the Engineer-in-charge again at any time. A revised programme shall show the variations and events related to change of contract price. Month wise documentation shall be the basis of payments on this item.	per revision	9,763.00	9,763.00	9,763.00	9,763.00
01.5	Providing all necessary logistic support to frame 'monthly progress meeting' between contractor/contractor's representatives and employer / employer's representatives at the Engineer-in-charge's office at site. Month wise documentation shall be the basis of payments on this item.	per month	2,493.00	2,447.00	2,266.00	2,266.00
01.6	Providing layout and carry over PWD/ temporary bench-mark (BM) at site from nearby BM pillar, property lines, existing ground level (EGL), formation ground level (FGL), highest flood levels (HFL), plinth levels (PL), setting and marking all pillars, marker, pegs etc. showing and	sqm	34.00	33.00	31.00	31.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	maintaining reduced levels (RL's) including locating, establishing, protecting all public utilities within the premise of work and finally all to be presented in black and white.					
01.7	Mobilization and cleaning site before commencing actual physical work and during contract period and demobilization after completion of the works under contract to be accepted by the Engineer-in-charge. This work shall also cover cleaning and clearing, cutting or filling, dressing the project area on and in the ground to an extent that all the events of works of the project can be executed smoothly in a working environment with a particular attention on safety and security in all respects, and to stockpile the end outcome to a place for disposal agreed by the Engineer-in-charge, where, payments are to be based on ground area determined by the Engineer-in-charge and be proportionate to the percentage progress of work under contract as a whole in all respects and approved by the Engineer-in-charge.	sqm	224.00	220.00	204.00	204.00
01.8	Providing expertise architect having minimum qualification Bachelor of Architecture and relevant experience(s) more than 5 years with registration in respective professional body for detail documentation of architectural themes, drawings, working out shop drawings, communication with theme architect & getting approval, specifying architectural needs according to approved master architectural themes & plan, certifying as built drawing for the approval etc. and any relevant jobs assigned by the HOPE or his official at site. (max. man month not greater than 1/4 of initial contract duration or contract completion time whichever is less & payment for the item subject to submission of CV & approved by HOPE or his authorized officer).	per month	80,000.00	80,000.00	80,000.00	80,000.00
01.9	Providing expertise engineer having minimum qualification B.Sc. in Civil Engineering and relevant experience(s) more than 10 years with registration in respective professional body for project documentation, progress study & adjustment, preparation of project material schedule and testing schedule for approval etc. & jobs assigned by the HOPE or his official, at site. (max. man month not greater than 1/4 of initial contract duration or contract completion time whichever is less & payment for the item subject to submission of CV & approved by HOPE or his authorized officer).	per month	120,000.00	120,000.00	120,000.00	120,000.00
01.10	Providing transport facilities for quality control part of project which includes carrying test samples, work samples, report collection & emergency services of project including cost of fuel, driver, maintenance etc. (Total duration is 1/2 of the initial contract duration or contract completion time whichever is less).	per month	70,000.00	70,000.00	70,000.00	70,000.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
01.11	Supplying, fitting, fixing, operating and maintenance of the construction supervision lift (1000Kg capacity) for supervision of building construction work during the entire construction period including all necessary components like, steel frame, car, guide rails, push button, driving motor, gear box, car door, travelling cable, RCC base for steel frame, necessary connections with the building, electric supply & electricity bill and dismantling the same after completion of the building construction etc. all complete complying all safety factors and accepted by the Engineer-in-charge. (The construction supervision lift shall be the contractor property after completion of work). Number of month shall be calculated as 1/2 (half) of the initial contract period or contract completion time whichever is less for new construction and full contract period for vertical extension work. The contractor must submit detail structural drawing of supporting frame with foundation and lift specification prior to supply on site.					
01.11.1	6th to 9th floor, hoisting speed 40 m/min	per month	18,222.00	18,222.00	18,222.00	18,222.00
01.11.2	10th to 14th floor, hoisting speed 40 m/min	per month	22,066.00	22,066.00	22,066.00	22,066.00
01.11.3	15th to 19th floor, hoisting speed 50 m/min	per month	25,852.00	25,852.00	25,852.00	25,852.00
01.11.4	20th to 24th floor, hoisting speed 60 m/min	per month	29,961.00	29,961.00	29,961.00	29,961.00
01.11.5	25th to 29th floor, hoisting speed 60 m/min	per month	33,319.00	33,319.00	33,319.00	33,319.00

..... END OF CHAPTER ONE

CHAPTER 02: EXCAVATION, FILLING & SITE DEVELOPMENT AND PALISADING

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
02.1	Earth work in excavation in all kinds of soil for foundation trenches including layout, providing center lines, local bench-mark pillars, levelling, ramming and preparing the base, fixing bamboo spikes and marking layout with chalk powder, providing necessary tools and plants, protecting and maintaining the trench dry etc., stacking, cleaning the excavated earth at a safe distance out of the area enclosed by the layout etc. all complete and accepted by the Engineer-in-charge, subject to submit method statement of carrying out excavation work to the Engineer-in-charge for approval. However, engineer's approval shall not relieve the contractor of his responsibilities and obligations under the contract.					
02.1.1	Layout and marking for earthwork in excavation in foundation accepted by the Engineer-in-charge. [Plinth area of the structure shall be considered for measurement]	sqm	20.00	19.00	18.00	18.00
02.1.2	Earthwork in excavation in foundation trenches up to 1.5 m depth and maximum 10 m lead	cum	173.00	169.00	158.00	158.00
02.1.3	Added rate for each additional 0.5 meter depth exceeding 1.5 meter.	cum	31.00	30.00	28.00	28.00
02.1.4	Added rate for each 1 m additional lead beyond 10 m.	cum	4.00	4.00	4.00	4.00
02.2	Bailing out of trapped water caused by inundation or rain, by pump from foundation trenches.	hour	526.00	487.00	471.00	471.00
02.3	Supplying of straight and strong borrak bamboo posts of having minimum 75 mm diameter althrough and driving the same vertically in the ground up to required depth by any means shaping the top of the post, all complete and accepted by the Engineer-in-charge.	meter	93.00	92.00	83.00	83.00
02.4	Supplying of wooden ballah having an average diameter not less than 150 mm (without barks) at one third distance from larger end with a minimum end diameter of 100 mm for retaining purpose and driving to a depth as per design and drawing by any method including all arrangement for staging, hoisting, carrying etc. complete and accepted by the Engineer-in-charge.	meter	621.00	614.00	587.00	587.00
02.5	Palisading work by supplying of bitumen drum sheet walling tied with 20 BWG G.I. wire fixing the same with already driven borrak bamboo posts with half split borrak bamboo runners @ 450mm c/c horizontally with iron nails, G.I wire etc. all complete and accepted by the Engineer-in-charge. (Rate is excluding the cost of bamboo post).	sqm	630.00	624.00	599.00	599.00
02.6	Supplying and fitting-fixing horizontal bracing in palisading with half split wooden ballah having an average diameter not less than 150 mm with a minimum end diameter of 100 mm @ 450 mm c/c including supply of iron nails, gazals etc. complete approved and accepted by the Engineer-in-charge.	meter	233.00	232.00	224.00	224.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
02.7.1	Shore protection work during excavation in foundation trenches up to 1.5 m depth to protect loss due to damage of property by palisading accepted by the Engineer-in-charge. [The rate is including the cost of vertical post]	sqm	731.00	725.00	692.00	692.00
02.7.2	Shore protection work during excavation in foundation trenches beyond 1.5 m depth to protect loss due to damage of property by palisading accepted by the Engineer-in-charge, [The rate is including the cost of vertical post]	sqm	1,076.00	1,078.00	1,024.00	1,024.00
02.8	Supply of 2 mm thick best quality geo-textile from approved manufacturer/origin and laying as per manufacturer's instructions approved and accepted by the Engineer-in-charge. Before commencement of laying of geo-textile, the contractor must submit the method statement for carrying out this work including sample with evidence of origin and compliance certificate from independent testing laboratory for approval.	sqm	219.00	218.00	215.00	215.00
02.9	Removing sludge or semi-liquid clay/substances etc. not suitable for pumping out or carrying by head load from the bottom of any marshy land, lake, ditch, pond by mixing fine local sand of minimum F.M. 0.8 to a proportion such that it can be carried to an intermediate point of disposal and cutting the same including stacking and spreading properly on a suitable place to dry in the sun for a certain days and dispose the dried sludge or clay to a safe distance etc. complete and accepted by Engineer-in-charge subject to submit method statement to the engineer in charge for carrying out the works including ultimate disposal of the sludge under this item for approval. However, engineer's approval shall not relieve the Contractor of his responsibilities and obligations under the contract.	cum	1,083.00	1,073.00	996.00	996.00
02.10.1	Sand filling in foundation trenches and plinth with sand having minimum F.M. 0.5 in 150 mm layers including leveling, watering and compaction to achieve minimum dry density of 95% with optimum moisture content (Modified proctor test) by ramming each layer up to finished level as per design supplied by the design office only, all complete and accepted by the Engineer-in-charge.	cum	1,118.00	1,123.00	1,099.00	1,099.00
02.10.2	Sand filling in foundation trenches and plinth with sand having minimum F.M. 0.8 in 150 mm layers including leveling, watering and compaction to achieve minimum dry density of 95% with optimum moisture content (Modified proctor test) by ramming each layer up to finished level as per design supplied by the design office only, all complete and accepted by the Engineer-in-charge.	cum	1,199.00	1,201.00	1,145.00	1,145.00
02.10.3	Sand filling in foundation trenches and plinth with sand having min. F.M. 1.2 in 150 mm in layers including leveling, watering and compaction to achieve minimum dry density of 95% with optimum moisture content (Modified proctor test) by ramming each layer up to finished level as per design supplied by the design office only, all complete and accepted by the Engineer-in-charge.	cum	1,332.00	1,338.00	1,281.00	1,281.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
02.10.4	Sand filling in foundation trenches and plinth with sand having min. F.M. 2.2 in 150 mm layers including leveling, watering and compaction to achieve minimum dry density of 95% with optimum moisture content (Modified proctor test) by ramming each layer up to finished level as per design supplied by the design office only, all complete and accepted by the Engineer-in-charge.	cum	3,347.00	3,239.00	3,264.00	3,229.00
02.11	50 mm downgraded picked jhama khoa consolidation in foundation trenches by mixing the same with best quality local sand (F.M. 1.2) in (2:1) (Khoa:Sand) proportion to achieve minimum dry density of 95% with optimum moisture content (Modified proctor test) including breaking and screening chips, laying and spreading in 150 mm layers uniformly and compacting etc. all complete and accepted by the Engineer-in-charge.	cum	6,223.00	6,207.00	5,947.00	5,947.00
02.12	50 mm downgraded picked jhama khoa consolidation in foundation trenches by mixing in mixer machine with best quality local sand (F.M. 1.2) and cement in (1:6:12) (Cement:Sand:Khoa) proportion to achieve minimum dry density of 95% with optimum moisture content (Modified proctor test) including breaking and screening chips, laying and spreading in 150 mm layers uniformly and compacting etc. all complete and accepted by Engineer-in-charge.	cum	7,211.00	7,200.00	6,960.00	6,960.00
02.13	Earth filling in foundation trenches and plinth in 150 mm layer with earth available within 90 m of the building site to achieve minimum dry density of 95% with optimum moisture content (Modified proctor test) including carrying watering, leveling, dressing and compacting to a specified percentage each layer up to finished level etc. all complete and accepted by Engineer-in-charge.	cum	213.00	208.00	194.00	194.00
02.14	Cleaning and disposing of excavated earth from the construction site by truck or by any other means to a place within 30 km radius of the city or town area including loading & unloading at both ends, leveling and dressing the carried earth etc. complete and accepted by the Engineer-in-charge.	cum	779.00	774.00	707.00	707.00
02.15	Earth filling in foundation trenches and plinth in 150 mm layers with carted earth carried by truck or by any other means including loading and unloading at both ends, leveling, watering and compacting to achieve minimum dry density of 95% with optimum moisture content (modified proctor test) including local carriage each layer up to finished level including cost of water and test (carried from beyond 300 m) etc. all complete and accepted by the Engineer-in-charge.	cum	729.00	725.00	657.00	657.00
02.16	Site development/Improvement by carted earth or dredged sand, sandy silt (free from any organic, foreign, environmental hazardous substances) carried by head or truck or any other means including cost of cutting or by dredging of sand, sandy silt, all; including local carrying, placing the earth/sand, sandy silt in the designated area, maintaining slopes, breaking lumps, levelling and dressing in layers up to finished level etc. all complete as per direction and accepted by the Engineer-in-charge.					

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
02.16.1	By other method/means than dredging.	cum	781.00	776.00	703.00	703.00
02.16.2	By dredging including necessary systems thereof.	cum	524.00	523.00	472.00	472.00
02.17	Mechanical compaction of earth beyond plinth area , required for pre-approved specific engineering purpose in 150 mm layers including levelling, watering and consolidation each layer with chain dozer, grader, roller etc. to achieve minimum dry density of 95% with optimum moisture content (modified proctor test) up to finished level all complete and accepted by the engineer-in-charge subjected to submission of the method statement.	cum	255.00	225.00	214.00	214.00
02.18	Earthwork in excavation of pond of any dimension in all kinds of soil including cutting up to required depth including bailing out water and throwing on the embankment, breaking clods, ramming and leveling, dressing in 225 mm layer with maintaining the side slopes and level of both pond and the embankment as per design and accepted by the Engineer-in-charge.					
02.18.1	For initial lead of 30 m and lift of 1.5 m	cum	266.00	262.00	243.00	243.00
02.18.2	Added for each additional lift of 0.3 m beyond 1.5 m and up to 3 m	cum	9.00	9.00	8.00	8.00
02.18.3	Added for each additional lift of 0.3 m beyond 3 m and up to 4.5 m	cum	14.00	13.00	12.00	12.00
02.18.4	Added for each additional lift of 0.3 m beyond 4.5 m and up to 6 m	cum	19.00	19.00	18.00	18.00
02.18.5	Added for each additional lead of 30 m or part thereof beyond initial lead 30 meter	cum	36.00	35.00	32.00	32.00
02.19.1	Bailing out water by 1 cusec diesel operated pump including hire charge of pump, fuel, operator, spares and maintenance etc. all complete and accepted by the Engineer-in-charge.	per hour	693.00	686.00	659.00	659.00
02.19.2	Bailing out water by 1 cusec electricity operated pump including hire charge of pump, fuel, operator, spares and maintenance etc. all complete and accepted by the Engineer-in-charge.	per hour	575.00	569.00	542.00	542.00

..... END OF CHAPTER TWO

CHAPTER 03: BRICK SOLING, CC, DPC ETC.

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
03.1.1	One layer brick flat soling in foundation or in floor with first class/picked jhama bricks (BDS 208) including preparation of bed and filling the interstices with local sand, leveling etc. complete and accepted by the Engineer-in-charge.	sqm	654.00	651.00	624.00	624.00
03.1.2	One layer brick flat soling in foundation or in floor with sand cement solid block (SCSB) (240x114x70) mm including preparation of bed and filling the interstices with local sand, leveling etc. complete and accepted by the Engineer-in-charge.	sqm	613.00	612.00	607.00	607.00
03.2.1	One layer Herringbone bond (HBB) brick soling in foundation or in floor with first class/picked jhama bricks (BDS 208) including preparation of bed and filling the interstices with local sand, leveling including supply of water, other charges, costs of tools and plants etc. all complete and accepted by the Engineer-in-charge.	sqm	1,029.00	1,026.00	984.00	984.00
03.2.2	One layer Herringbone bond (HBB) brick soling in foundation or in floor with sand cement solid block (SCSB) (240x114x70) mm including preparation of bed and filling the interstices with local sand, leveling including supply of water, other charges, costs of tools and plants etc. all complete and accepted by the Engineer-in-charge.	sqm	1,027.00	1,024.00	1,016.00	1,016.00
03.3.1	Brick on end edging with 1st class brick (BDS 208) including preparation of bed and filling the interstices with local sand, leveling, maintaining alignment and grid etc. all complete and accepted by the Engineer-in-charge.	meter	156.00	155.00	149.00	149.00
03.3.2	Brick on end edging with Automatic machine made 1st class brick (240x114x70) mm including preparation of bed and filling the interstices with local sand, leveling, maintaining alignment and grid etc. all complete and accepted by the Engineer-in-charge.	meter	187.00	186.00	185.00	185.00
03.3.3	Brick on end edging with Sand Cement Solid block (SCSB) (240x114x70) mm including preparation of bed and filling the interstices with local sand, leveling, maintaining alignment and grid etc. all complete and accepted by the Engineer-in-charge.	meter	156.00	155.00	154.00	154.00
03.4	Lean/ blinding concrete (1:3:6) in foundation or in floor with cement, sand (F.M. 1.2) and picked jhama brick chips including breaking of chips, screening, mixing, laying, compacting to required level and curing for at least 7 days including the supply of water, electricity, costs of tools & plants and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M)					
03.4.1	Lean/ blinding concrete in foundation (1:3:6) with cement, brick chips and sand of F.M. 1.2	cum	9,622.00	9,607.00	9,335.00	9,335.00
03.4.2	Lean/ blinding concrete in floor (1:3:6) with cement, brick chips and sand of F.M. 1.2	cum	9,516.00	9,500.00	9,221.00	9,221.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
03.5	Mass concrete (1:2:4) in foundation or in floor with cement, sand (F.M. 1.2) and picked jhama brick chips including breaking of chips, screening, mixing, laying, compacting to required level and curing for at least 7 days including the supply of water, electricity, costs of tools & plants and other charges etc. all complete and accepted by Engineer-in-charge. (Cement: CEM-II / B-M)					
03.5.1	Mass concrete in foundation (1:2:4) with brick chips and local sand of F.M. 1.2.	cum	10,796.00	10,780.00	10,508.00	10,508.00
03.5.2	Mass concrete in floor (1:2:4) with brick chips and local sand of F.M. 1.2.	cum	10,749.00	10,734.00	10,457.00	10,457.00
03.6	Damp proof course (DPC) (1:1.5:3) of cement concrete with cement, sand and stone chips including breaking of chips, screening, centering, shuttering, casting, curing and finishing with a coat of bitumen including the supply of water, electricity, costs of tools & plants and other charges etc. all complete and accepted by Engineer-in-charge. (Cement: CEM-II/B-M)					
03.6.1	75 mm thick damp proof course (1:1.5:3) with cement, Sylhet sand (F.M. 2.2) and stone chips.	sqm	1,642.00	1,639.00	1,577.00	1,563.00
03.6.2	150 mm thick damp proof course (1:1.5:3) with cement, Sylhet sand (F.M. 2.2), stone chips and water-proofing admixture/agent approved by Engineer-in-charge.	cum	16,994.00	16,991.00	16,473.00	16,284.00
03.7	Supplying and laying of single layer polythene sheet weighing one kilogram per 6.5 square meter in floor or anywhere below cement concrete complete in all respect and accepted by Engineer-in-charge.	sqm	48.00	48.00	47.00	47.00

..... END OF CHAPTER THREE

CHAPTER 04: BRICK WORKS, PATENT STONE IN FLOOR AND FANCY SCREEN BLOCK WORKS

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
04.1	Brick works with first class bricks with cement sand (F.M. 1.2) mortar (1:6) in foundation and plinth, filling the joints/interstices fully with mortar, racking out the joints, cleaning and soaking the bricks at least for 24 hours before use and curing at least for 7 days etc. all complete including cost of water, electricity and other charges and accepted by the Engineer-in-charge.(Cement: CEM-II/B-M)	cum	9,394.00	9,366.00	8,987.00	8,987.00
04.2	Brick works of width one brick or one and a half brick length of first class bricks with cement sand (F.M. 1.2) mortar (1:6) in superstructure including raking out joints, filling the interstices with mortar, cleaning and soaking the bricks at least for 24 hours before use and washing of sand, necessary scaffolding, curing at least for 7 days etc. all complete (measurement to given as 250 mm width for one brick length and 375 mm for one brick and a half brick length) and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	cum	10,057.00	10,018.00	9,599.00	9,599.00
04.3	Brick works with first class bricks with cement sand (F.M. 1.2) mortar (1:4) in exterior walls including filling the interstices with mortar, raking out joints, cleaning and socking the bricks at least for 24 hours before use and washing of sand, necessary scaffolding, curing at least for 7 days etc. all complete including cost of water, electricity and other charges (measurement to given as 250 mm width for one brick length and 375 mm for one brick and a half brick length) accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	cum	10,377.00	10,340.00	9,925.00	9,925.00
04.4	Exposed brick works (for exterior wall without outside plaster) with special quality sorted out first class bricks , very carefully laid in cement sand (F.M. 1.2) mortar (1:4) in superstructure with uniform width and depth of joints, true to vertical and horizontal lines including raking out joints, scaffolding, soaking the bricks at least for 24 hours before use, washing and screening of sand, curing at least for 7 days and high class flush pointing with cement sand (F.M. 1.2) mortar (1:1) including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	cum	11,323.00	11,284.00	10,827.00	10,827.00
04.5	Exposed brick works (for exterior wall without outside plaster) with automatic machine made first class bricks , very carefully laid in cement sand (F.M. 1.2) mortar (1:4) in superstructure with uniform width and depth of joints, true to vertical and horizontal lines including raking out joints, scaffolding, soaking the bricks at least for 24 hours before use, washing and screening of sand, curing at least for 7 days and high class flush pointing with cement sand (F.M. 1.2) mortar 1:1) including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	cum	12,156.00	12,117.00	11,929.00	11,929.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
04.6	Brick works with 10 holes machine made bricks of approved size (241 mm x 114 mm x 70 mm) having uniform colour carefully laid in cement sand (F.M. 1.2) mortar (1:4) in superstructure with uniform width and depth of joints, true to vertical and horizontal lines including raking out joints, filling the interstices with mortar, cleaning and soaking bricks at least for 24 hours before use and washing and screening of sand, necessary scaffolding, curing at least for 7 days and pointing with cement sand (F.M. 1.2) mortar (1:2) including cost of water, electricity and other charges etc. complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	cum	14,067.00	14,027.00	13,839.00	13,839.00
04.7	Brick work with 241 mm x 114 mm x 70 mm size machine made solid klinker facing bricks having uniform colour carefully laid in cement sand (F.M. 1.2) mortar (1:4) in superstructure with uniform width and depth of joints, true to vertical and horizontal lines including raking out joints, filling the interstices with mortar, cleaning and soaking bricks at least for 24 hours before use and washing and screening of sand, necessary scaffolding, curing at least for 7 days and pointing with cement sand (F.M. 1.2) mortar (1:2) including cost of water, electricity and other charges etc. complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	cum	11,335.00	11,298.00	11,116.00	11,116.00
04.8	Brick works with 241 mm x 114 mm x 70 mm size 10 hole machine made rock-face or textured klinker facing bricks having uniform colour carefully laid in cement sand (F.M. 1.2) mortar (1:4) in superstructure with uniform width and depth of joints, true to vertical and horizontal lines including raking out joints, filling the interstices with mortar, cleaning and soaking bricks at least for 24 hours before use and washing and screening of sand, necessary scaffolding, curing at least for 7 days and pointing with cement sand (F.M. 1.2) mortar (1:2) including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	cum	13,815.00	13,782.00	13,616.00	13,616.00
04.9	Brick works with 241 mm x 114 mm x 70 mm size 3 hole machine made reinforced klinker facing bricks having uniform colour carefully laid in cement sand (F.M. 1.2) mortar (1:4) in superstructure with uniform width and depth of joints, true to vertical and horizontal lines including raking out joints, filling the interstices with mortar, cleaning and soaking bricks at least for 24 hours before use and washing and screening of sand, necessary scaffolding, curing at least for 7 days and pointing with cement sand (F.M. 1.2) mortar (1:2) including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	cum	15,840.00	15,797.00	15,637.00	15,634.00
04.10	Added cost for each additional floor above ground floor for brick works (Item No.- 4.2 to 4.9)	cum	184.00	180.00	167.00	167.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
04.11	Added cost for brick work for each additional meter (or part of meter) free height of brick wall beyond 4 m from the respective floor in auditorium, godown, overhead water tank etc. as description of the Item No. 4.2 to 4.9 including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Added cost shall be incorporated in the estimate only when both sides of wall is uninterruptedly free beyond 4.0 meter)	cum	233.00	230.00	218.00	218.00
04.12	Providing brick works for 200 mm x 100 mm facing in superstructure with 200 mm x 100 mm x 50 mm machine made klinker hard pressed facing bricks of approved quality with cement sand (F.M. 1.2) mortar (1:4), including racking out joints, cutting the bricks to required size wherever necessary including high class recessed pointing, cleaning and soaking the bricks at least for 24 hours before use and washing and screening of sand, necessary scaffolding, curing at least for 7 days for all floors up to 4th floor including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (100 mm x 200 mm face should be placed for facing). (Cement: CEM-II/B-M) In ground floor	sqm	2,089.00	2,082.00	2,037.00	2,037.00
04.13	Providing brick works for 200 mm x 50 mm facing in superstructure with 200 mm x 50 mm x 50 mm machine made hard pressed klinker facing red or maroon strips of approved quality with 20 mm thick cement sand (F.M.1.2) mortar (1:4), 10 mm thick cement mortar in adjacent sides including racking out joints and cutting the bricks to required sizes wherever necessary with high class recessed pointing, cleaning and soaking the bricks for at least 24 hours before use and washing of sand, necessary scaffolding, curing at least for 7 days for all floors up to 4th floor including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	sqm	3,015.00	3,008.00	2,962.00	2,962.00
04.14	Providing clay wall tile facing strips (water absorption ratio below 4.5%) in superstructure with machine made hard pressed klinker facing strips of approved quality with 20 mm thick cement sand (F.M.1.2) mortar (1:3) in adjacent side wall, column, drop wall etc. and racking out joints, cutting to required sizes wherever necessary with high class recessed pointing, cleaning and soaking at least for 24 hours before use washing and screening of sand and necessary scaffoldings, curing at least 7 days including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor.					
04.14.1	With 200 mm x 62 mm x 16.51 mm red strip	sqm	2,736.00	2,727.00	2,681.00	2,681.00
04.14.2	With 200 mm x 62 mm x 12.7 mm beige strip	sqm	2,984.00	2,976.00	2,930.00	2,930.00
04.14.3	With 200 mm x 62 mm x 8.9 mm red strip	sqm	2,545.00	2,536.00	2,490.00	2,490.00
04.14.4	With 241 mm x 70 mm x 12.7 mm red strip	sqm	3,019.00	3,010.00	2,964.00	2,964.00
04.14.5	With 242 mm x 70 mm x 12.7 mm matt glazed textured strip	sqm	3,458.00	3,450.00	3,404.00	3,404.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
04.15	125 mm brick work with first class bricks with cement sand (F.M. 1:2) mortar (1:6) and making bond with connected walls including necessary scaffolding, raking out joints, cleaning and soaking the bricks for at least 24 hours before use and washing of sand, curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	sqm	1,411.00	1,405.00	1,345.00	1,345.00
04.16	125 mm brick works with first class bricks with cement sand (F.M. 1:2) mortar (1:4) and making bond with connected walls including necessary scaffolding, raking out joints, cleaning and soaking the bricks for at least 24 hours before use and washing of sand, curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	sqm	1,447.00	1,442.00	1,383.00	1,383.00
04.17	Exposed 125 mm thick pointing ornamental brick work with sorted out first class bricks with cement sand (F.M. 1:2) mortar (1:4) and making bond with connected walls including necessary scaffolding, raking out joints, cleaning and soaking the bricks for at least 24 hours before use and washing of sand, curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	sqm	1,763.00	1,756.00	1,682.00	1,682.00
04.18	Exposed 125 mm thick pointing ornamental brick work with automatic machine made first class bricks with cement sand (F.M. 1:2) mortar (1:4) and making bond with connected walls including necessary scaffolding, raking out joints, cleaning and soaking the bricks for at least 24 hours before use and washing of sand, curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	sqm	1,820.00	1,813.00	1,776.00	1,776.00
04.19	Providing 125 mm thick brick work in superstructure (partition walls) with cement sand (F.M. 1:2) mortar (1:4) with 10 hole machine made ceramic bricks of approved size having uniform colour, carefully laid in cement mortar of uniform width & depth of joints, true to vertical and horizontal lines including racking out joints, filling the interstices with same mortar, making bond with connected walls, cleaning, soaking brick at least 24 hours and washing of sand, curing 7 days in all floors, including cost of water, electricity and other charges accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	sqm	1,979.00	1,973.00	1,942.00	1,942.00
04.20	Fancy screen work with different size hollow machine made design blocks of uniform colour, carefully laid in cement sand (F.M. 1:2) mortar(1:3) in all floors in wall with					

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	uniform mortar joints, true to vertical and horizontal line including racking out joints, cleaning and soaking the blocks for minimum 24 hours before use including washing and screening of sand, scaffolding, curing etc. complete in all respect including supply of all necessary materials, cost of water, electricity and other charges accepted by the Engineer-in-charge. (Cement: CEM-II/B-M)					
04.20.1	With design block size: 114 mm x 114 mm x 114 mm or equivalent volume & design. In ground floor	sqm	4,695.00	4,684.00	4,628.00	4,628.00
04.20.2	With design block size: 140 mm x 140 mm x 102 mm or equivalent volume & design. In ground floor	sqm	3,361.00	3,350.00	3,297.00	3,297.00
04.20.3	With design block size: 152 mm x 152 mm x 102 mm or 152 mm x 152 mm x 114 mm or equivalent volume and design. In ground floor	sqm	3,104.00	3,094.00	3,040.00	3,040.00
04.20.4	With design block size: 203 mm x 203 mm x 108 mm or equivalent volume and design. In ground floor	sqm	2,327.00	2,316.00	2,270.00	2,270.00
04.20.5	With design block size: 203 mm x 121 mm x 102 mm or equivalent volume and design. In ground floor	sqm	2,555.00	2,544.00	2,498.00	2,498.00
04.20.6	With design block size: 152 mm x 152 mm x 152 mm or equivalent volume and design. In ground floor	sqm	3,104.00	3,094.00	3,040.00	3,040.00
04.20.7	With design block size: 241 mm x 114 mm x 70 mm or equivalent volume and design. In ground floor	sqm	2,485.00	2,475.00	2,421.00	2,421.00
04.21	Added cost for each additional floor above ground floor for brick and screen block works (Item No. - 4.12 to 4.20)	sqm	30.00	29.00	27.00	27.00
04.22	Klinker paving brick works in floor or pavement with machine made pressed bricks of approved quality with cement sand (F.M. 1.2) mortar (1:4) on minimum 12 mm thick cement sand (F.M. 1.2) mortar (1:4) including raking out joints, cutting the bricks to required size, soaking the same for 24 hours before use wherever necessary including high class flush pointing in cement mortar (1:2), cleaning, curing at least for 7 days etc. including washing and screening of sand, cost of water, electricity and other charges complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M)					
04.22.1	100 mm thick flat brick pavement with 200 mm x 100 mm x 50 mm size klinker facing bricks.	sqm	3,260.00	3,247.00	3,200.00	3,200.00
04.22.2	50 mm thick brick on edge pavement with 200 mm x 100 mm x 50 mm klinker paving bricks in 1:4 cement sand mortar having 200 mm x 100 mm face at top.	sqm	1,993.00	1,982.00	1,943.00	1,943.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
04.22.3	50 mm thick brick pavement with 200 mm x 50 mm x 50 mm klinker facing bricks.	sqm	2,934.00	2,922.00	2,879.00	2,879.00
04.23	125 mm thick brick pavement or flooring with first class brick on edge with cement sand (F.M. 1:2) mortar (1:4) on minimum 12 mm thick cement sand (F.M. 1:2) mortar (1:4) including cutting the bricks as per requirement, cleaning and racking out joints, finishing with flush pointing with cement sand (F.M. 1:2) mortar (1:2) and curing for at least 7 days etc. including cost of water, washing and screening of sand (F.M. 1:2), electricity and other charges complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M)	sqm	1,671.00	1,660.00	1,588.00	1,588.00
04.24	125 mm thick brick pavement/flooring with 10 hole machine made ceramic bricks with cement sand (F.M. 1:2) mortar (1:4) on minimum 12 mm thick cement sand (F.M. 1:2) mortar (1:4) including cutting the bricks as per requirement, cleaning and racking out joints, finishing with flush pointing with cement sand (F.M. 1:2) mortar (1:2) and curing for at least 7 days etc. including cost of water, washing and screening of sand (F.M. 1:2), electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M)	sqm	2,140.00	2,129.00	2,090.00	2,090.00
04.25	75 mm thick cement concrete (1:3:6) flooring with cement, best quality coarse sand and 19 mm downgraded picked jhama brick chips including breaking of chips, screening, mixing, laying, compacting, washing and screening of sand (F.M. 1:2) and curing at least for 7 days etc. including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M)	sqm	721.00	721.00	699.00	699.00
04.26	25 mm thick artificial patent stone (1:2:4) flooring with cement, best quality coarse sand (50% quantity of Sylhet sand or coarse sand of equivalent F.M. 2.2 and 50% best quality local sand of FM 1.2) and 12 mm down well graded brick chips including breaking chips, screening, laying the concrete in alternate panels, compacting and finishing the top with neat cement and curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	sqm	551.00	546.00	525.00	525.00
04.27	38 mm thick artificial patent stone (1:2:4) flooring with cement, best quality coarse sand (50% quantity of Sylhet sand or coarse sand of equivalent F.M. 2.2 and 50% best quality local sand of FM 1.2) and 12 mm down well graded brick chips including breaking chips, screening, laying the concrete in alternate panels, compacting and finishing the top with neat cement and curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	sqm	685.00	679.00	656.00	656.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
04.28	25 mm thick artificial patent stone (1:2:4) flooring with cement, best quality coarse sand (50% quantity of Sylhet sand or coarse sand of equivalent F.M. 2.2 and 50% best quality local sand of FM 1.2) and 12 mm down well graded stone chips , laying the concrete in alternate panels, compacting and finishing the top with neat cement and curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	sqm	608.00	604.00	577.00	572.00
04.29	38 mm thick artificial patent stone (1:2:4) flooring with cement, best quality coarse sand (50% quantity of Sylhet sand or coarse sand of equivalent F.M. 2.2 and 50% best quality local sand of FM 1.2) and 12 mm down well graded stone chips , laying the concrete in alternate panels, compacting and finishing the top with neat cement and curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. Cement: (CEM-II/B-M) In ground floor	sqm	770.00	767.00	735.00	727.00
04.30	25 mm thick artificial patent stone (1:1.5:3) flooring with cement, best quality coarse sand (50% quantity of Sylhet sand or coarse sand of equivalent F.M. 2.2 and 50% best quality local sand of FM 1.2) and 12 mm down well graded stone chips , laying the concrete in alternate panels, compacting and finishing the top with neat cement and curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	sqm	630.00	627.00	600.00	595.00
04.31	38 mm thick artificial patent stone (1:1.5:3) flooring with cement, best quality coarse sand (50% quantity of Sylhet sand or coarse sand of equivalent F.M. 2.2 and 50% best quality local sand of FM 1.2) and 12 mm down well graded stone chips , laying the concrete in alternate panels, compacting and finishing the top with neat cement and curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge.(Cement: CEM-II/B-M) In ground floor	sqm	804.00	801.00	769.00	761.00
04.32	Added cost for each additional floor above ground floor for patent stone works .	sqm	26.00	26.00	24.00	24.00

..... END OF CHAPTER FOUR

CHAPTER 05: MOSAIC WORKS

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
05.1	10 mm thick finished and 12.5 mm laying thickness cast in situ mosaic work on floor with one part of 10 mm machine crushed well graded dust free and properly washed marble chips and one part of mixture containing white cement / grey cement including preparation of mix and laying the same over minimum 25 mm thick artificial patent stone flooring with brick chips (1:2:4) including making suitable panel, compacting, curing at least for 7 days, cutting with pumice stone (No. 40, No. 80, No.120) /cutting with mosaic cutting machine and finishing with minar stone and spreading oxalic acid including breaking of brick chips, screening, washing mosaic chips and supply of all necessary materials and water, electricity and other charges in all respect and accepted by the Engineer-in-charge. (Cement: CEM-I)					
05.1.1	With Indian chips and glass strip using 100% white cement In ground floor	sqm	2,255.00	2,240.00	2,176.00	2,176.00
05.1.2	With Indian chips and glass strip using 100% grey cement In ground floor	sqm	1,966.00	1,952.00	1,888.00	1,888.00
05.1.3	With Pakistani chips and glass strip using 100% white cement In ground floor	sqm	2,289.00	2,274.00	2,210.00	2,210.00
05.1.4	With Pakistani chips without glass strip using 100% grey cement In ground floor	sqm	1,710.00	1,696.00	1,642.00	1,642.00
05.1.5	With Indian chips without glass strip using 100% grey cement In ground floor	sqm	1,676.00	1,662.00	1,608.00	1,608.00
05.1.6	With Pakistani chips without glass strip using 100% white cement In ground floor	sqm	1,999.00	1,985.00	1,930.00	1,930.00
05.2	12 mm thick finished and laying thickness 14.5 mm cast in situ mosaic work on floor with one part of 10 mm machine crushed well graded dust free and properly washed marble chips and one part of mixture containing 100% white cement including preparation of mix and laying the same over minimum 25 mm thick artificial patent stone flooring with brick-chips (1:2:4) including making suitable panel, compacting, curing at least for 7 days, cutting with pumice stone (No. 40, No. 80, No. 120)/ cutting with mosaic cutting machine and finishing with minar stone including breaking of brick chips, screening, spreading oxalic acid, washing of mosaic chips and supply of all necessary materials and water, electricity and other charges in all respect and accepted by the Engineer-in-charge. (Cement: CEM-I)					
05.2.1	With Indian chips and glass strip In ground floor	sqm	2,347.00	2,332.00	2,268.00	2,268.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
05.2.2	With Pakistani chips and glass strip In ground floor	sqm	2,385.00	2,370.00	2,306.00	2,306.00
05.2.3	With Indian chips without glass strip In ground floor	sqm	2,056.00	2,043.00	1,988.00	1,988.00
05.2.4	With Pakistani chips without glass strip In ground floor	sqm	2,094.00	2,081.00	2,026.00	2,026.00
05.3	10 mm thick finished and laying thickness 12.5 mm silver grey cast in situ mosaic work on floor with one part of 10 mm machine crushed well graded, dust free and properly washed marble chips and one part of mixture containing white cement and grey cement in proportion (1:1) including preparation of mix and laying the same over minimum 25 mm thick artificial patent stone flooring with brick-chips (1:2:4) including making suitable panel, compacting, curing at least for 7 days, cutting with pumice stone (No. 40, No. 80, No. 120) and finishing with minar stone including breaking of brick chips, screening, washing of mosaic chips and supply of all necessary materials including water, electricity and other charges in all respect and accepted by the Engineer-in-charge. (Cement: CEM-I)					
05.3.1	With Indian chips and glass strip In ground floor	sqm	2,111.00	2,096.00	2,032.00	2,032.00
05.3.2	With Pakistani chips and glass strip In ground floor	sqm	2,145.00	2,130.00	2,066.00	2,066.00
05.3.3	With Indian chips without glass strip In ground floor	sqm	1,821.00	1,807.00	1,752.00	1,752.00
05.3.4	With Pakistani chips without glass strip In ground floor	sqm	1,855.00	1,841.00	1,786.00	1,786.00
05.4	12 mm thick finished and laying thickness 14.5 mm silver grey cast in situ mosaic work on floor with one part of 10 mm machine crushed well graded dust free and properly washed marble chips and one part of mixture containing white cement and grey cement in proportion (1:1) including preparation of mix and laying the same over minimum 25 mm thick artificial patent stone flooring with brick-chips (1:2:4) including making suitable panels, compacting, curing at least for 7 days, cutting with pumice stone (No. 40, No. 80, No. 120) and finishing with minar stone including breaking of brick chips, screening, washing of mosaic chips and supply of all necessary materials and water, electricity and other charges in all respect and accepted by the Engineer-in-charge. (Cement: CEM-I)					
05.4.1	With Indian chips and glass strip In ground floor	sqm	2,185.00	2,170.00	2,106.00	2,106.00
05.4.2	With Pakistani chips and glass strip In ground floor	sqm	2,223.00	2,208.00	2,144.00	2,144.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
05.4.3	With Indian chips without glass strip In ground floor	sqm	1,895.00	1,881.00	1,826.00	1,826.00
05.4.4	With Pakistani chips without glass strip In ground floor	sqm	1,933.00	1,919.00	1,864.00	1,864.00
05.5	10 mm thick finished and laying thickness 12.5 mm cast in situ mosaic work in wall with one part of 10 mm machine crushed well graded dust free and properly washed marble chips and one part of mixture containing 100% white cement including preparation of mix and laying the same on 12 mm thick cement plaster (1:4) to wall including compacting, curing at least for 7 days, cutting with pumice stone (No. 40, No. 80, No. 120), finishing the corners and edges and also finishing with minar stone and supplying all necessary materials including water, electricity and other charges in all respect and accepted by the Engineer-in-charge. (Cement: CEM-I)					
05.5.1	With Indian chips In ground floor	sqm	2,279.00	2,245.00	2,167.00	2,167.00
05.5.2	With Pakistani chips In ground floor	sqm	2,313.00	2,279.00	2,201.00	2,201.00
05.6	10 mm thick finished and laying thickness 12.5 mm silver grey cast in situ mosaic work in wall with one part of 10 mm machine crushed well graded, dust free and properly washed marble chips and one part of mixture containing white cement and grey cement in proportion (1:1) including preparation of mix. and laying the same on 12 mm thick cement plaster (1:4) to wall including compacting, curing at least for 7 days, cutting with pumice stone (No. 40, No. 80, No. 120) including finishing the corners and edges and also finishing with minar stone and supplying all necessary materials and water, electricity and other charges in all respect and accepted by the Engineer-in-charge. (Cement: CEM-I)					
05.6.1	With Indian chips In ground floor	sqm	2,135.00	2,101.00	2,023.00	2,023.00
05.6.2	With Pakistani chips In ground floor	sqm	2,169.00	2,135.00	2,057.00	2,057.00
05.6.3	With Indian chips using 100% grey cement In ground floor	sqm	1,991.00	1,957.00	1,879.00	1,879.00
05.7	10 mm thick finished laying in 12.5 mm thickness coloured cast in situ mosaic work in floor with one part of 10 mm machine crushed well graded, dust free and properly washed marble chips and one part of mixture containing white and grey cement in proportion (9:1) and necessary quantity of approved colouring materials including preparation of mix and laying the same over min 25 mm thick artificial patent stone flooring with brick-chips (1:2:4) including making suitable panel, compacting, curing at least for 7 days, cutting					

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	with pumice stone (No. 40, No. 80, No. 120) and finishing with Minar stone including breaking of brick chips, screening, washing of mosaic chips and supply of all necessary materials and water, electricity and other charges in all respect and accepted by the Engineer-in-charge. (Cement: CEM-I)					
05.7.1	With Indian chips and glass strip In ground floor	sqm	2,342.00	2,327.00	2,263.00	2,263.00
05.7.2	With Pakistani chips and glass strip In ground floor	sqm	2,376.00	2,361.00	2,297.00	2,297.00
05.7.3	With Indian chips without glass strip In ground floor	sqm	1,763.00	1,749.00	1,695.00	1,695.00
05.7.4	With Pakistani chips without glass strip In ground floor	sqm	1,941.00	1,928.00	1,873.00	1,873.00
05.8	12 mm thick finished and laying thickness 14 mm coloured cast in situ mosaic work on floor with one part of 10 mm machine crushed well graded, dust free and properly washed marble chips and one part of mixture containing white cement and grey cement in proportion (9:1) and necessary quantity of approved colouring materials including preparation of mix and laying the same over minimum 25 mm thick artificial patent stone flooring with brick-chips (1:2:4) including making suitable panel, compacting, curing at least for 7 days, cutting with pumice stone (No. 40, No. 80, No. 120) and finishing with minar stone including breaking of brick chips, screening, washing of mosaic chips and supply of all necessary materials and water, electricity and other charges in all respect and accepted by the Engineer-in-charge. (Cement: CEM-I)					
05.8.1	With Indian chips and glass strip In ground floor	sqm	2,433.00	2,419.00	2,355.00	2,355.00
05.8.2	With Pakistani chips and glass strip In ground floor	sqm	2,471.00	2,457.00	2,393.00	2,393.00
05.8.3	With Indian chips without glass strip In ground floor	sqm	2,143.00	2,129.00	2,075.00	2,075.00
05.8.4	With Pakistani chips without glass strip In ground floor	sqm	2,181.00	2,167.00	2,113.00	2,113.00
05.9	10 mm thick finished and laying thickness 12.5 mm coloured cast in situ mosaic work in walls with one part of 10 mm machine crushed well graded, dust free and properly washed marble chips and one part of mixture containing white cement and grey cement in proportion (9:1) and necessary quantity of approved colouring materials including preparation of mix and laying the same on 12 mm thick cement sand (F.M. 1.2) plaster (1:4) to walls including pressing, curing at least for 7 days, cutting with pumice					

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	Stone (No. 40, No. 80, No. 120) including finishing the corners and edges and also finishing with minar stone and supply of all necessary materials etc. and water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-I)					
05.9.1	With Indian chips In ground floor	sqm	2,366.00	2,332.00	2,254.00	2,254.00
05.9.2	With Pakistani chips In ground floor	sqm	2,400.00	2,366.00	2,288.00	2,288.00
05.10	200 mm x 200 mm x 20 mm mosaic terrazzo tiles flooring having 10 mm thick finished mosaic top with one part of 10 mm machine crushed well graded dust free and properly washed marble chips and one part of mixture containing white cement and grey cement in 9:1 proportion pressed on 12 mm thick cement sand (F.M. 1.2 and 2.5 by 50% each) mortar (1:2) base including preparing the base; finally, setting the tiles on 40 mm thick cement sand (F.M.1.2 and 2.5 by 50% each) mortar (1:3) including compacting, cutting with pumice stone (No. 40, No. 80, No. 120) and finishing the corners and edges and also finishing with minar stone including screening, washing mosaic chips and supply of all necessary materials etc. and water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-I)					
05.10.1	200 mm x 200 mm x 20 mm (finished) mosaic terrazzo tiles flooring with Indian chips In ground floor	sqm	2,063.00	2,053.00	2,012.00	2,011.00
05.10.2	200 mm x 200 mm x 20 mm (finished) mosaic terrazzo tiles flooring with Pakistani chips In ground floor	sqm	2,096.00	2,086.00	2,045.00	2,044.00
05.11	Added cost for mosaic and terrazzo tiles work above ground floor (Item no.: 5.1 to 5.10).	sqm	19.00	18.00	17.00	17.00

..... END OF CHAPTER FIVE

CHAPTER 06: TILES, MARBLE AND GRANITE STONE WORKS

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
06.1	Supplying, fitting and fixing country made GP (Gress Porcellanto) - glazed or unglazed homogeneous floor tiles complying BDS ISO 13006: 2015, water absorption $\leq 0.5\%$, modulus of rupture (MOR) ≥ 27 N/mm², irrespective of color &/or design , with 20 mm thick cement sand (F.M. 1.2) mortar (1:4) base and raking out the joints with white cement including cutting and laying the tiles in proper way and finishing with care etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M). In ground floor					
06.1.1	GP (homogeneous) 300 mm x 300 mm floor tiles	sqm	1,385.00	1,377.00	1,350.00	1,350.00
06.1.2	GP (homogeneous) 400 mm x 400 mm floor tiles	sqm	1,527.00	1,520.00	1,493.00	1,493.00
06.1.3	GP (homogeneous) 300 mm x 600 mm floor tiles	sqm	1,655.00	1,648.00	1,621.00	1,621.00
06.1.4	GP (homogeneous) 600 mm x 600 mm floor tiles	sqm	1,698.00	1,691.00	1,664.00	1,664.00
06.1.5	GP (homogeneous) 600 mm x 1200 mm floor tiles	sqm	3,152.00	3,145.00	3,118.00	3,118.00
06.1.6	GP (homogeneous) 305 mm x 305 mm high traffic floor tiles	sqm	1,484.00	1,477.00	1,450.00	1,450.00
06.2	Supplying, fitting and fixing country made mirror polished homogeneous floor tiles complying BDS ISO 13006: 2015, water absorption $\leq 0.5\%$, modulus of rupture (MOR) ≥ 27 N/mm², irrespective of color &/or design , with 20 mm thick cement sand (F.M. 1.2) mortar (1:4) base and raking out the joints with white cement including cutting and laying the tiles in proper way and finishing with care etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor					
06.2.1	GP (mirror polished) 400 mm x 400 mm floor tiles	sqm	1,698.00	1,691.00	1,664.00	1,664.00
06.2.2	GP (mirror polished) 500 mm x 500 mm floor tiles	sqm	1,841.00	1,833.00	1,807.00	1,807.00
06.2.3	GP (mirror polished) 600 mm x 600 mm floor tiles	sqm	2,026.00	2,019.00	1,992.00	1,992.00
06.2.4	GP (mirror polished) 800 mm x 800 mm floor tiles	sqm	2,169.00	2,161.00	2,134.00	2,134.00
06.2.5	GP (mirror polished) 600 mm x 900 mm floor tiles	sqm	2,439.00	2,432.00	2,405.00	2,405.00
06.2.6	GP (mirror polished) 600 mm x 1200 mm floor tiles	sqm	2,881.00	2,874.00	2,847.00	2,847.00
06.2.7	GP Mirror Polished (Double Charge) 600 mm x 600 mm floor tiles	sqm	2,254.00	2,247.00	2,220.00	2,220.00
06.2.8	GP Mirror Polished (Double Charge) 800 mm x 800 mm floor tiles	sqm	2,753.00	2,746.00	2,719.00	2,719.00
06.3	Supplying, fitting and fixing country made homogeneous matt finished/ rustic floor tiles complying BDS ISO 13006: 2015, water absorption $\leq 0.5\%$, modulus of					

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	rupture (MOR) ≥ 27 N/mm², irrespective of color &/or design , with 20 mm thick cement sand (F.M. 1.2) mortar (1:4) base and raking out the joints with white cement including cutting and laying the tiles in proper way and finishing with care etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor					
06.3.1	Matt or rustic floor tiles of size 400 mm x 400 mm and below	sqm	1,769.00	1,762.00	1,735.00	1,735.00
06.3.2	Matt or rustic floor tiles of size 600 mm x 600 mm and below	sqm	1,997.00	1,990.00	1,963.00	1,963.00
06.3.3	Matt or rustic floor tiles of size 800 mm x 800 mm and below	sqm	2,454.00	2,446.00	2,419.00	2,419.00
06.4	Supplying, fitting and fixing foreign made polished porcelain/ mirror polished homogeneous floor tiles complying BDS ISO 13006: 2015, water absorption $\leq 0.5\%$, modulus of rupture (MOR) ≥ 35 N/mm², irrespective of color &/or design , with 20 mm thick cement sand (F.M. 1.2) mortar (1:4) base and raking out the joints with white cement including cutting and laying the tiles in proper way and finishing with care etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor					
06.4.1	Polish porcelain/ mirror polished 600 mm x 600 mm floor tiles	sqm	2,667.00	2,660.00	2,633.00	2,633.00
06.4.2	Polished porcelain/ mirror polished 800 mm x 800 mm floor tiles	sqm	2,952.00	2,945.00	2,918.00	2,918.00
06.4.3	Polished porcelain/ mirror polished 600 mm x 1200 mm floor tiles	sqm	4,805.00	4,798.00	4,771.00	4,771.00
06.4.4	Polished porcelain/ mirror polished 1000 mm x 1000 mm floor tiles	sqm	6,231.00	6,223.00	6,197.00	6,197.00
06.4.5	Polished porcelain/ mirror polished 1200 mm x 1200 mm floor tiles	sqm	7,656.00	7,649.00	7,622.00	7,622.00
06.5	Supplying, fitting and fixing foreign made homogeneous matt finished/ rustic floor tiles complying BDS ISO 13006: 2015, water absorption $\leq 0.5\%$, modulus of rupture (MOR) ≥ 27 N/mm², irrespective of color &/or design , with 20 mm thick cement sand (F.M. 1.2) mortar (1:4) base and raking out the joints with white cement including cutting and laying the tiles in proper way and finishing with care etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor					
06.5.1	Matt or rustic floor tiles of size 600 mm x 600 mm	sqm	3,095.00	3,088.00	3,061.00	3,061.00
06.5.2	Matt or rustic floor tiles of size 600 mm x 900 mm	sqm	5,090.00	5,083.00	5,056.00	5,056.00
06.6	Supplying, fitting and fixing country made glazed wall tiles complying BDS ISO 13006: 2015, irrespective of color &/or design , with 20 mm thick cement sand (F.M. 1.2)					

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	mortar (1:3) base and raking out the joints with white cement including cutting, laying and hire charge of machine and finishing with care etc. including cost of water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M). In ground floor					
06.6.1	Wall tiles less than, equal or equivalent to 250 mm x 330 mm in sizes	sqm	1,394.00	1,385.00	1,348.00	1,348.00
06.6.2	Wall tiles more than 250 mm x 330 mm & less than or equal to 250 mm x 400 mm in sizes	sqm	1,636.00	1,627.00	1,590.00	1,590.00
06.6.3	Wall tiles more than 250 mm x 400 mm & less than or equal to 300 mm x 600 mm in sizes	sqm	1,921.00	1,912.00	1,875.00	1,875.00
06.6.4	Wall tiles less than, equal or equivalent to 250 mm x 750 mm in sizes	sqm	2,007.00	1,998.00	1,960.00	1,960.00
06.6.5	Decor wall tiles of any size	sqm	2,178.00	2,169.00	2,131.00	2,131.00
06.6.6	Border wall tiles of any size	sqm	4,558.00	4,549.00	4,512.00	4,512.00
06.7	Supplying, fitting and fixing country made rustic or matt finished wall tiles complying BDS ISO 13006: 2015, irrespective of color &/or design , with 20 mm thick cement sand (F.M. 1.2) mortar (1:3) base and raking out the joints with white cement including cutting, laying and hire charge of machine and finishing with care etc. including water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M). In ground floor					
06.7.1	Matt or rustic wall tiles less than or equal to 300 mm x 600 mm size	sqm	2,021.00	2,012.00	1,975.00	1,975.00
06.8	Supplying, fitting and fixing foreign made glazed wall tiles complying BDS ISO 13006: 2015, irrespective of color &/or design , with 20 mm thick cement sand (F.M. 1.2) mortar (1:3) base and raking out the joints with white cement including cutting, laying and hire charge of machine and finishing with care etc. including water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M). In ground floor					
06.8.1	Glazed wall tiles 300 mm x 600 mm in sizes along with matching floor tiles, decor and border (if any)	sqm	2,990.00	2,981.00	2,944.00	2,944.00
06.9	Supplying, fitting and fixing foreign made rustic or matt finished wall tiles complying BDS ISO 13006: 2015, irrespective of color &/or design , with 20 mm thick cement sand (F.M. 1.2) mortar (1:3) base and raking out the joints with white cement including cutting, laying and hire charge of machine and finishing with care etc. including water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M). In ground floor					

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
06.9.1	Matt or rustic wall tiles 300 mm x 600 mm in sizes along with matching floor tiles, decor and border tiles (if any)	sqm	2,990.00	2,981.00	2,944.00	2,944.00
06.10	Supplying, fitting and fixing country made GP homogeneous stair tiles having non skidding offsets, complying BDS ISO 13006: 2015, water absorption $\leq 0.5\%$, modulus of rupture (MOR) ≥ 27 N/mm ² , irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1.2) mortar (1:4) base and raking out the joints with white cement including cutting and laying the tiles in proper way and finishing with care etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor					
06.10.1	Glazed stair tiles having size of width 250 mm to 300 mm and length 300 mm	sqm	1,499.00	1,491.00	1,464.00	1,464.00
06.10.2	Glazed stair tiles having size of width 250 mm to 300 mm and length 325 mm to 600 mm	sqm	1,912.00	1,905.00	1,878.00	1,878.00
06.10.3	Glazed stair tiles (Double Charge) having size of width 300 mm and length 600 mm	sqm	2,468.00	2,461.00	2,434.00	2,434.00
06.11	Supplying, fitting and fixing country made rustic or matt finished stair tiles having non-skidding offsets complying BDS ISO 13006: 2015, water absorption $\leq 0.5\%$, modulus of rupture (MOR) ≥ 27 N/mm ² , irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1.2) mortar (1:4) base and raking out the joints with white cement including cutting, laying and hire charge of machine and finishing with care etc. including water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M). In ground floor					
06.11.1	Rustic stair tiles of size 300 mm x 600 mm	sqm	1,812.00	1,805.00	1,778.00	1,778.00
06.12	Supplying, fitting and fixing foreign made GP homogeneous stair tiles having non skidding offsets, complying BDS ISO 13006: 2015, water absorption $\leq 0.5\%$, modulus of rupture (MOR) ≥ 27 N/mm ² , irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1.2) mortar (1:4) base and raking out the joints with white cement including cutting and laying the tiles in proper way and finishing with care etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor					
06.12.1	Glazed stair tiles of size 300 mm x 600 mm	sqm	2,097.00	2,090.00	2,063.00	2,063.00
06.13	Supplying, fitting and fixing foreign made rustic or matt finished stair tiles having non-skidding offsets complying BDS ISO 13006: 2015, water absorption $\leq 0.5\%$, modulus of rupture (MOR) ≥ 27 N/mm ² , irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1.2) mortar (1:4) base and raking out the joints with white cement including cutting, laying and hire charge of machine and finishing with care etc.					

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	including water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M). In ground floor					
06.13.1	Rustic stair tiles of size 300 mm x 600 mm	sqm	1,883.00	1,876.00	1,849.00	1,849.00
06.14	Supplying, fitting and fixing country made floor tiles complying BDS ISO 13006: 2015, water absorption $\leq 0.5\%$, modulus of rupture (MOR) $\geq 27 \text{ N/mm}^2$, irrespective of color &/or design, with adhesives in full thickness of tiles, filler/tiles grout including cutting, shaping, placing in proper level etc. all complete and accepted by the Engineer in charge. In ground floor					
06.14.1	GP glazed/ unglazed homogenous floor tiles (400 mm x 400 mm)	sqm	1,633.00	1,627.00	1,596.00	1,596.00
06.14.2	GP glazed/ unglazed homogenous floor tiles (300 mm x 300 mm)	sqm	1,491.00	1,484.00	1,453.00	1,453.00
06.14.3	GP Mirror Polished floor tiles (300 mm x 300 mm)	sqm	1,562.00	1,556.00	1,524.00	1,524.00
06.14.4	GP Mirror Polished floor tiles (400 mm x 400 mm)	sqm	1,804.00	1,798.00	1,767.00	1,767.00
06.14.5	GP Mirror Polished floor tiles (600 mm x 600 mm)	sqm	2,132.00	2,126.00	2,094.00	2,094.00
06.14.6	GP Mirror Polished floor tiles (800 mm x 800 mm)	sqm	2,275.00	2,268.00	2,237.00	2,237.00
06.14.7	GP Mirror Polished floor tiles (600 mm x 900 mm)	sqm	2,545.00	2,539.00	2,508.00	2,508.00
06.14.8	GP Mirror Polished floor tiles (600 mm x 1200 mm)	sqm	2,987.00	2,981.00	2,950.00	2,950.00
06.14.9	GP Mirror Polished (Double Charge) 600 mm x 600 mm floor tiles	sqm	2,360.00	2,354.00	2,322.00	2,322.00
06.14.10	GP Mirror Polished (Double Charge) 800 mm x 800 mm floor tiles	sqm	2,859.00	2,853.00	2,821.00	2,821.00
06.15	Supplying, fitting and fixing 20 mm to 25 mm thick machine made cement pavement tiles having minimum compressive strength of 27 MPa, irrespective of color &/or design , with 20 mm thick cement sand (F.M. 1.2) mortar (1:4) base and making the joints carefully in true straight line including cutting, laying and hire charge of machine and finishing with care etc. including water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M). In ground floor					
06.15.1	Pavement tiles of size 300 mm x 300 mm	sqm	1,242.00	1,235.00	1,208.00	1,208.00
06.16	Supplying, fitting and fixing machine made clay roof tiles with ridge tiles on RCC inclined slab, irrespective of color &/or design, water absorption capacity $<6\%$ with 20 mm thick cement sand (F.M. 1.2) mortar (1:3) base and making the joints carefully in true straight line including cutting, laying					

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	and hire charge of machine and finishing with care etc. including water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M). In ground floor					
06.16.1	Roof tiles of size 100 mm x 200 mm or equivalent (red colour)	sqm	3,067.00	3,056.00	3,005.00	3,005.00
06.16.2	Roof tiles of size 125 mm x 170 mm to 200 mm x 200 mm or equivalent (red colour)	sqm	3,478.00	3,467.00	3,416.00	3,416.00
06.16.3	Roof tiles of size 160 mm x 268 mm or equivalent (red colour)	sqm	3,196.00	3,186.00	3,135.00	3,135.00
06.16.4	Roof tiles of size 225 mm x 300 mm or larger (red colour)	sqm	3,282.00	3,271.00	3,220.00	3,220.00
06.16.5	Flower shaped roof tiles of size 175 mm x 175 mm or equivalent (red colour)	sqm	4,168.00	4,158.00	4,107.00	4,107.00
06.16.6	Roof tiles of size 100 mm x 200 mm or equivalent (beige colour)	sqm	3,039.00	3,029.00	2,978.00	2,978.00
06.16.7	Roof tiles of size 125 mm x 170 mm to 200 mm x 200 mm or equivalent (beige colour)	sqm	3,610.00	3,599.00	3,548.00	3,548.00
06.16.8	Roof tiles of size 225 mm x 300 mm or larger (beige colour)	sqm	3,538.00	3,528.00	3,477.00	3,477.00
06.16.9	Flower shaped roof tiles of size 175 mm x 175 mm or equivalent (beige colour)	sqm	4,336.00	4,326.00	4,275.00	4,275.00
06.16.10	Roof tiles of size 125 mm x 170 mm to 200 mm x 200 mm or equivalent (grey or black colour)	sqm	3,610.00	3,599.00	3,548.00	3,548.00
06.16.11	Flower shaped roof tiles of size 175 mm x 175 mm or equivalent (grey or black colour)	sqm	4,707.00	4,696.00	4,646.00	4,646.00
06.17	Marble stone flooring with Indian standard quality (Bansowara/ Indian grey/ Indian pink or equivalent) marble stone of approved quality complying accepted National/ International standards, texture and size with 25 mm thick cement sand (50% F.M. 1.2 and 50% F.M 2.2) mortar (1:2) including placing cement slurry below the stone, cutting the marble stone to desired size, grinding and finishing the edges, setting in position in proper level, filling the gaps with white cement and colouring pigments including supplying all necessary equipments/materials and finishing the top by pumice stone and necessary auxiliary materials and water, electricity and other charges complete in all respect and accepted by the Engineer in charge. (Cement: CEM-II/B-M).					
06.17.1	18 mm thick marble stone flooring In ground floor	sqm	8,213.00	8,205.00	8,107.00	8,107.00
06.17.2	16 mm thick marble stone flooring In ground floor	sqm	7,670.00	7,662.00	7,564.00	7,564.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
06.18	Marble stone flooring with Indian superior quality marble stone of approved quality complying accepted National/ International standards, texture and size with 25 mm thick cement sand (50% F.M. 1.2 and 50% F.M 2.2) mortar (1:2) including placing cement slurry below the stone, cutting the marble stone to desired size, grinding and finishing the edges, setting in position in proper level, filling the gaps with white cement and colouring pigments including supplying all necessary equipments/materials and finishing the top by pumice stone and necessary auxiliary materials and water, electricity and other charges complete in all respect and accepted by the Engineer in charge. (Cement: CEM-II/B-M)					
06.18.1	18 mm thick marble stone flooring In ground floor	sqm	8,892.00	8,884.00	8,786.00	8,786.00
06.18.2	16 mm thick marble stone flooring In ground floor	sqm	7,806.00	7,798.00	7,700.00	7,700.00
06.19.1	Supplying and setting 12 mm thick Indian standard quality (Bansowara/ Indian grey/ Indian pink or equivalent) marble stone of approved quality complying accepted National/ International standards, texture and size on wall with 12 mm thick cement sand (50% F.M. 1.2 and 50% F.M 2.2) mortar (1:2) including cutting and grinding the marble stone slab/tile, setting in position keeping horizontal and vertical alignment correct, filling the joints with white cement, cutting and grinding the top surface, finishing etc including water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	sqm	7,111.00	7,103.00	7,005.00	7,005.00
06.19.2	Supplying and setting 12 mm thick Indian superior quality marble stone of approved quality complying accepted National/ International standards, texture and size on wall with 12 mm thick cement sand (50% F.M. 1.2 and 50% F.M 2.2) mortar (1:2) including cutting and grinding the marble stone slab/tile, setting in position keeping horizontal and vertical alignment correct, filling the joints with white cement, cutting and grinding the top surface, finishing etc including water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	sqm	7,518.00	7,510.00	7,413.00	7,412.00
06.20.1	Marble stone flooring with 18mm thick Italian or equivalent marble stone of approved quality complying accepted National/ International standards, texture and size over 25 mm thick cement sand (50% F.M. 1.2 and 50% F.M 2.2) mortar (1:2) including. placing cement slurry below the stone, cutting the marble stone to desired size, grinding and finishing the edges, setting in position in proper level, filling the gaps with white cement and colouring pigments including supplying all necessary equipments/materials and finishing the top by pumice stone and necessary auxiliary materials and water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M). In ground floor.	sqm	10,793.00	10,784.00	10,687.00	10,686.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
06.20.2	Supplying and setting 12 mm thick Italian or equivalent quality marble stone on wall of approved quality complying accepted National/ International standards, texture and size on wall with 12 mm thick cement sand (50% F.M. 1.2 and 50% F.M 2.2) mortar (1:2) including cutting and grinding the marble stone slab/tile, setting in position keeping horizontal and vertical alignment correct, filling the joints with white cement, cutting and grinding the top surface, finishing etc including water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	Sqm	10,097.00	10,089.00	9,992.00	9,992.00
06.21	Labour cost for making moulding in marble stone as per architectural drawing including cutting, grinding, finishing, supplying necessary equipment etc. complete in all respect and accepted by the Engineer in Charge. (Cement: CEM-II/B-M).					
06.21.1	18 mm thick marble stone	meter	488.00	486.00	466.00	466.00
06.21.2	16 mm thick marble stone	meter	483.00	481.00	461.00	461.00
06.21.3	12 mm thick marble stone	meter	410.00	408.00	394.00	394.00
06.22	Granite stone flooring with 18mm thick Indian or equivalent granite stone of approved quality complying accepted National/ International standards, texture and size over 25 mm thick cement sand (50% F.M. 1.2 and 50% F.M 2.2) mortar (1:2) including placing cement slurry below the stone, cutting the granite stone to desired size, grinding and finishing the edges, setting in position in proper level. filling the gaps with white cement and colouring pigments including supplying all necessary equipments/materials and finishing the top by pumice stone and necessary auxiliary materials and water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	sqm	9,435.00	9,427.00	9,329.00	9,329.00
06.23	Granite stone flooring with 18mm thick Italian or equivalent origin granite stone of approved quality complying accepted National/ International standards, texture and size over 25 mm thick cement sand (50% F.M. 1.2 and 50% F.M 2.2) mortar (1:2) including. placing cement slurry below the stone, cutting the granite stone to desired size, grinding and finishing the edges, setting in position in proper level, filling the gaps with white cement and colouring pigments including supplying all necessary equipments/materials and finishing the top by pumice stone and necessary auxiliary materials and water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	sqm	10,793.00	10,784.00	10,687.00	10,686.00
06.24	Supplying and setting 12 mm thick Indian or equivalent granite stone of approved quality complying accepted National/ International standards, texture and size on wall	sqm	7,382.00	7,375.00	7,277.00	7,277.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	with 12 mm thick cement sand (50% F.M. 1.2 and 50% F.M. 2.2) mortar (1:2) including cutting and grinding the granite stone slab, setting in position keeping horizontal and vertical alignment correct, filling the joints with white cement, cutting and grinding the top surface, finishing etc including water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor					
06.25	Supplying and setting 12 mm thick Italian or equivalent granite stone of approved quality complying accepted National/ International standards, texture and size on wall with 12 mm thick cement sand (50% F.M. 1.2 and 50% F.M. 2.2) mortar (1:2) including cutting and grinding the granite stone slab, setting in position keeping horizontal and vertical alignment correct, filling the joints with white cement, cutting and grinding the top surface, finishing etc including water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	sqm	8,740.00	8,732.00	8,634.00	8,634.00
06.26	Kota stone flooring of approved quality complying accepted National/ International standards, texture and size with 25 mm thick cement sand (50% F.M. 1.2 and 50% F.M. 2.2) mortar (1:2) including placing cement slurry below the stone, cutting the marble stone to desired size, grinding and finishing the edges, setting in position in proper level, filling the gaps with white cement and colouring pigments including supplying all necessary equipments /materials and finishing the top by pumice stone and necessary auxiliary materials and water, electricity and other charges complete in all respect and accepted by the Engineer in charge. (Cement: CEM-II/B-M)					
	14-22 mm thick Kota stone flooring In ground floor	sqm	5,000.00	4,995.00	4,927.00	4,927.00
06.27	Added rate for each additional floor above ground floor for tiles works	sqm	15.00	15.00	14.00	14.00
06.28	Added rate for each additional floor above ground floor for marble and granite stone works	sqm	26.00	26.00	24.00	24.00

..... END OF CHAPTER SIX

CHAPTER 07: REINFORCED CEMENT CONCRETE (RCC) WORKS

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	RCC WORKS: 1:2:4 (measured on gross concrete section) (f_c = 19 MPa, minimum f_{cr} = 26 MPa in nominal mix 1:2:4), with Brick Chips (Sand of F.M. 1.2 and F.M. 2.2 in equal proportion)					
07.1	Reinforced cement concrete works with minimum cement content relates to mix ratio 1:2:4 having maximum water cement ratio = 0.45 and minimum f _{cr} = 26 MPa, satisfying a specified compressive strength f _c = 19 MPa at 28 days on standard cylinders as per standard practice of Code ACI / BNBC, cement conforming to BDS EN-197-1-CEM-I, 52.5N, best quality sand [50% quantity of best local sand (F.M. 1.2) and 50% quantity of Sylhet sand or coarse sand of equivalent F.M. 2.2] and 20 mm down well graded picked jhama brick chips conforming to ASTM C-33 including conducting necessary tests, breaking chips and screening, making and placing shutter in position maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; mixing in standard mixer machine with hopper fed by standard measuring boxes, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering).					
07.1.1	Individual & combined footing, pile cap, raft/mat, floor slab and foundation beam up to plinth level	cum	10577.00	10547.00	10319.00	10313.00
07.1.2	Pedestal, column, column capital, lift wall and wall up to ground floor	cum	10946.00	10910.00	10660.00	10654.00
07.1.3	Floor / roof slab, T-beam, L-beam and rectangular beam, tie beam, lintel, stair case slab and step etc. up to ground floor	cum	10725.00	10692.00	10456.00	10450.00
07.1.4	Cornice, railing, drop wall, louver, fins, sunshade, false ceiling, waffle and ribbed floor slab etc. up to ground floor	cum	11316.00	11273.00	11001.00	10995.00
	RCC WORKS: 1:2:4 (measured on gross concrete section) (f_c = 22 MPa, minimum f_{cr} = 30.5 MPa in nominal mix 1:2:4), with Stone Chips (100% Sand of F.M. 2.2)					
07.2	Reinforced cement concrete works with minimum cement content relates to mix ratio 1:2:4 having maximum water cement ratio = 0.40 and minimum f _{cr} = 30.5 MPa, satisfying a specified compressive strength f _c = 22 MPa at 28 days on standard cylinders as per standard practice of Code ACI / BNBC, cement conforming to BDS EN-197-1-CEM-I, 52.5N, best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down well graded stone chips conforming to					

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	ASTM C-33 (Aggregate grading as per table shown in technical specification), conducting necessary tests, making and placing shutter in position maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; mixing in standard mixer machine with hopper fed by standard measuring boxes, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering)					
07.2.1	Individual & combined footing, pile cap, raft/mat, floor slab and foundation beam up to plinth level	cum	14521.00	14691.00	13719.00	13323.00
07.2.2	Pedestals, column, column capital, lift wall and RCC wall up to ground floor	cum	14890.00	15054.00	14060.00	13665.00
07.2.3	Floor / roof slab, T-beam, L-beam and rectangular beam, tie beam, lintel, stair case slab and steps etc. up to ground floor	cum	14668.00	14836.00	13856.00	13460.00
07.2.4	Cornice, railing, drop wall, louver, fins, sunshade, false ceiling, waffle and ribbed floor slab etc. up to ground floor	cum	15259.00	15417.00	14401.00	14006.00
	RCC WORKS: 1:1.5:3 (measured on gross concrete section) (f_c = 25MPa, minimum f_{cr} = 33.5 MPa in nominal mix 1 : 1.5 : 3), with Stone Chips (100% Sand of F.M. 2.2)					
07.3	Reinforced cement concrete works with minimum cement content relates to mix ratio 1:1.5:3 having maximum water cement ratio = 0.40 and minimum f _{cr} = 33.5 MPa, satisfying a specified compressive strength f _c = 25 MPa at 28 days on standard cylinders as per standard practice of Code ACI / BNBC, Cement conforming to BDS EN-197-1-CEM-I, 52.5N, best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down well graded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), conducting necessary tests, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; mixing with standard mixer machine with hopper, fed by standard measuring boxes, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering)					
07.3.1	Individual & combined footing, pile cap, raft/mat, floor slab and foundation beam up to plinth level	cum	15010.00	15173.00	14243.00	13866.00
07.3.2	Pedestals, column, column capital, lift wall and RCC wall up to ground floor	cum	15380.00	15536.00	14584.00	14207.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
07.3.3	Floor/ roof slab, T-beam, L-beam and rectangular beam, tie beam, lintel, stair case slab and steps etc. up to ground floor	cum	15158.00	15318.00	14379.00	14002.00
07.3.4	Cornice, railing, drop wall, louver, fins, sunshade, false ceiling, waffle and ribbed floor slab etc. up to ground floor	cum	15749.00	15899.00	14925.00	14548.00
	RCC WORKS : 1:1.25:2.5 (measured on gross concrete section) (f_c = 32 MPa, minimum f_{cr} = 40.5 MPa in nominal mix 1:1.25:2.5) with Stone Chips and Admixture (Type-G) (100% Sand of F.M. 2.2)					
07.4	Reinforced cement concrete works with minimum cement content relates to mix ratio 1:1.25:2.5 having maximum water cement ratio = 0.40 and minimum f _{cr} = 40.5 MPa, satisfying a specified compressive strength f _c = 32 MPa at 28 days on standard cylinders as per standard practice of Code ACI/ BNBC, Cement conforming to BDS EN-197-1-CEM-I, 52.5N, and adding approved high range water reducing admixture of complying specific type (generally be Type-G) under ASTM-C 494, best quality coarse sand [Sylhet sand or coarse sand of equivalent F.M. 2.2], 20 mm down well graded crushed stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), including conducting necessary tests, screening sand through proper sieves, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; mixing with standard mixer machine with hopper and fed by standard measuring boxes, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Doses of admixture to be fixed in consultation with design office) (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering).					
07.4.1	Individual & combined footing, pile cap, raft/mat, floor slab and foundation beam up to plinth level	cum	16126.00	16282.00	15384.00	15020.00
07.4.2	Pedestal, column, column capital, lift wall and RCC wall up to ground floor	cum	16495.00	16645.00	15725.00	15361.00
07.4.3	Floor/ roof slab, T-beam, L-beam and rectangular beam, tie beam, lintel, stair case slab and steps etc. up to ground floor	cum	16274.00	16427.00	15520.00	15157.00
07.4.4	Cornice, railing, drop wall, louver, fins, sunshade, false ceiling, waffle and ribbed floor slab etc. up to ground floor	cum	16864.00	17008.00	16066.00	15702.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	RCC WORKS: 1:1:2 (measured on gross concrete section) (f_c = 40 MPa, minimum f_{cr} = 50 MPa in nominal mix 1 : 1 : 2) with Stone Chips and Admixture (Type-G) (100% Sand of F.M. 2.2)					
07.5	Reinforced cement concrete works with minimum cement content relates to mix ratio 1:1:2 having minimum f _{cr} = 50 Mpa, satisfying a specified compressive strength f _c = 40 MPa at 28 days on standard cylinders as per standard practice of Code ACI / BNBC, Cement conforming to BDS EN-197-1-CEM-I, 52.5N, and adding approved high range water reducing admixture of complying specific type (generally be Type-G) under ASTM-C 494, best quality coarse sand [Sylhet sand or coarse sand of equivalent F.M. 2.2], 20 mm down well graded crushed stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), conducting necessary tests, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; mixing with standard mixer machine with hopper and fed by standard measuring boxes, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, other charges etc. all complete approved and accepted by the Engineer-in-charge. (Doses of admixture to be fixed in consultation with design office) (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering)					
07.5.1	Individual & combined footing, pile cap, raft/mat and foundation beam up to plinth level	cum	16790.00	16937.00	16081.00	15736.00
07.5.2	Pedestal, column, column capital, lift wall and RCC wall up to ground floor	cum	17159.00	17300.00	16422.00	16077.00
	Fair-Faced RCC WORKS: 1:1.5:3 (measured on gross concrete section) (f_c = 25 MPa, minimum f_{cr} = 33.5 MPa in nominal mix 1:1.5:3) (100% Sand of F.M. 2.2)					
07.6	Cast-in-place fair-faced concrete works with f _{cr} =33.5 MPa and f _c =25 MPa at 28 days on standard cylinders by using 75% of OPC and 25% of white cement conforming to BDS EN-197-1-CEM-I, 52.5N, best quality Sylhet sand or coarse sand of equivalent F.M. 2.2, 20 mm down and well graded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification) at mix ratio of 1:1.5:3 , adding coloring pigment admixture (satisfying ASTM C979) as per architectural design, conforming to the standard practice of code ACI / BNBC / ASTM including conducting necessary tests, screening sand and chips through proper sieves, washing, making and placing shutter in position maintaining true to plumb, making shutter water tight properly, placing reinforcement in position, including pouring of					

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	concrete in form, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering)					
07.6.1	For column, wall, beam, slab, drop wall, cornice etc. up to ground floor	cum	18452.00	18597.00	17605.00	17228.00
	RCC WORKS: batch mix/machine mix with approved mix design, well graded stone chips (100% Sand of F.M. 2.2) and required admixture					
07.7.1	Reinforced cement concrete works from batch mix/machine mix with minimum cement content relates to approved mix ratio having minimum $f'_{cr} = 33.5$ MPa, satisfying a specified compressive strength $f'_{c} = 25$ MPa at 28 days on standard cylinders as per standard practice of Code ACI / BNBC, Cement conforming to BDS EN-197-1-CEM-I, 52.5N, best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down well graded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), High-range water reducing chemical admixture Type-F under ASTM C494 (Doses to be applied as per Manufacturer's Guideline), conducting necessary tests, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; using machine batched and machine mixed concrete using cement content as per approved design mix (minimum 385 kg/ cum), including pumping of concrete using line pump or boom placer to site of laying, maintaining allowable slump of 100mm to 150mm, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, cost of all materials and other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering). (Foundation to 4th floor) Note: The mix design shall be done from PWD testing laboratory or other recognized laboratories and be consulted with concerned design office.	cum	16192.00	16363.00	15471.00	15094.00
07.7.2	Reinforced cement concrete works from batch mix/machine mix with minimum cement content relates to approved mix ratio having minimum $f'_{cr} = 40.5$ MPa, satisfying a specified compressive strength $f'_{c} = 32$ MPa at 28 days on standard cylinders as per standard practice of Code ACI / BNBC, Cement conforming to BDS EN-197-1-CEM-I, 52.5N, best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down well graded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), High-range water reducing chemical	cum	16698.00	16863.00	16003.00	15639.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	admixture Type-F under ASTM C494 (Doses to be applied as per Manufacturer's Guideline) making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; using machine batched and machine mixed concrete using cement content as per approved design mix (minimum 445 kg/ cum), including pumping of concrete using line pump or boom placer to site of laying, maintaining allowable slump of 100mm to 150mm, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, cost of all materials and other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering). (Foundation to 4th floor) Note: The mix design shall be done from PWD testing laboratory or other recognized laboratories and be consulted with concerned design office.					
07.7.3	Reinforced cement concrete works from batch mix/machine mix with minimum cement content relates to approved mix ratio having minimum $f'_{cr} = 50$ MPa, satisfying a specified compressive strength $f'_{c}=40$ MPa at 28 days on standard cylinders as per standard practice of Code ACI / BNBC, Cement conforming to BDS EN-197-1-CEM-I, 52.5N, best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down well graded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), High-range water reducing chemical admixture Type-F under ASTM C494 (Doses to be applied as per Manufacturer's Guideline), conducting necessary tests, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; using machine batched and machine mixed concrete using cement content as per approved design mix (minimum 500 kg/ cum), including pumping of concrete using line pump or boom placer to site of laying, maintaining allowable slump of 100mm to 150mm, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, cost of all materials and other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering). (Foundation to 4th floor) Note: The mix design shall be done from PWD testing laboratory or other recognized laboratories and be consulted with concerned design office.	cum	17093.00	17250.00	16428.00	16081.00
07.7.4	Reinforced cement concrete works from batch mix/machine mix with minimum cement content relates to approved mix ratio having minimum $f'_{cr} = 60$ MPa, satisfying a specified compressive strength $f'_{c}=50$ MPa at 28 days on	cum	19623.00	19780.00	18958.00	18610.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	standard cylinders as per standard practice of Code ACI / BNBC, Cement conforming to BDS EN-197-1-CEM-I, 52.5N, best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down well graded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), High-range water reducing chemical admixture Type-F under ASTM C494 (Doses to be applied as per Manufacturer's Guideline), conducting necessary tests, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; using machine batched and machine mixed concrete using cement content (minimum 500 kg/ cum) and micro silica (minimum 25 kg/ cum) as per approved design mix, including pumping of concrete using line pump or boom placer to site of laying, maintaining allowable slump of 100mm to 150mm, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, cost of all materials and other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering). (Foundation to 4th floor) Note: The mix design shall be done from PWD testing laboratory or other recognized laboratories and be consulted with concerned design office.					
	RCC WORKS: from Ready-Mix Concrete plant with approved mix design, well graded stone chips (100% sand of F.M. 2.2) and required admixture					
07.8.1	Reinforced cement concrete works from Ready-Mix concrete with minimum cement content relates to approved mix ratio having minimum $f_{cr} = 33.5$ MPa, satisfying a specified compressive strength $f_c = 25$ MPa at 28 days on standard cylinders as per standard practice of Code ACI / BNBC, Cement conforming to BDS EN-197-1-CEM-I, 52.5N, best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down well graded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in appendix), High-range water reducing chemical admixture Type-G under ASTM C494 (Doses to be applied as per Manufacturer's Guideline) making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; using machine batched and machine mixed concrete using cement content as per approved design mix (minimum 385 kg/ cum), carrying to the site of laying using Transit Mixer (considering setting time of concrete from plant to the site), including pumping of concrete using line pump or boom placer to site of laying, maintaining allowable slump of 100mm to 150mm (measured at site), casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, cost of all materials and other charges etc. all complete, approved and accepted by the Engineer-in-charge.	cum	15448.00	15619.00	14727.00	14350.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	(Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering). (Foundation to 4th floor) Note: The mix design shall be done from PWD testing laboratory or other recognized laboratories and be consulted with concerned design office.					
07.8.2	Reinforced cement concrete works from Ready-Mix concrete with minimum cement content relates to approved mix ratio having minimum $f_{cr} = 40.5$ MPa, satisfying a specified compressive strength $f_c = 32$ MPa at 28 days on standard cylinders as per standard practice of Code ACI / BNBC, Cement conforming to BDS EN-197-1-CEM-I, 52.5N, best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down well graded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), High-range water reducing chemical admixture Type-G under ASTM C494 (Doses to be applied as per Manufacturer's Guideline), conducting necessary tests, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; using machine batched and machine mixed concrete using cement content as per approved design mix (minimum 445 kg/ cum), carrying to the site of laying using Transit Mixer (considering setting time of concrete from plant to the site), including pumping of concrete using line pump or boom placer to site of laying, maintaining allowable slump of 100mm to 150mm (measured at site), casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, cost of all materials and other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering). (Foundation to 4 th floor) Note: The mix design shall be done from PWD testing laboratory or other recognized laboratories and be consulted with concerned design office.	cum	15954.00	16119.00	15259.00	14895.00
07.8.3	Reinforced cement concrete works from Ready-Mix concrete with minimum cement content relates to approved mix ratio having minimum $f_{cr} = 50$ MPa, satisfying a specified compressive strength $f_c = 40$ MPa at 28 days on standard cylinders as per standard practice of Code ACI / BNBC / Cement conforming to BDS EN-197-1-CEM-I, 52.5N, best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down well graded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), High-range water reducing chemical admixture Type-G under ASTM C494 (Doses to be applied as per Manufacturer's Guideline) making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; using machine batched and machine mixed concrete using cement	cum	16349.00	16506.00	15684.00	15336.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	content as per approved design mix (minimum 500 kg/ cum), carrying to the site of laying using Transit Mixer (considering setting time of concrete from plant to the site), including pumping of concrete using line pump or boom placer to site of laying, maintaining allowable slump of 100mm to 150mm (measured at site), casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, cost of all materials and other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering). (Foundation to 4th floor) Note: The mix design shall be done from PWD testing laboratory or other recognized laboratories and be consulted with concerned design office.					
07.8.4	Reinforced cement concrete works from Ready-Mix concrete with minimum cement content relates to approved mix ratio having minimum $f_{cr} = 60$ MPa, satisfying a specified compressive strength $f_c = 50$ MPa at 28 days on standard cylinders as per standard practice of Code ACI / BNBC, Cement conforming to BDS EN-197-1-CEM-I, 52.5N, best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down well graded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), High-range water reducing chemical admixture Type-G under ASTM C494 (Doses to be applied as per Manufacturer's Guideline), conducting necessary tests, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; using machine batched and machine mixed concrete using cement content (minimum 500 kg/ cum) and micro silica (minimum 25 kg/ cum) as per approved design mix, carrying to the site of laying using Transit Mixer (considering setting time of concrete from plant to the site), including pumping of concrete using line pump or boom placer to site of laying, maintaining allowable slump of 100mm to 150mm (measured at site), casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, cost of all materials and other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering). (Foundation to 4 th floor) Note: The mix design shall be done from PWD testing laboratory or other recognized laboratories and be consulted with concerned design office.	cum	18878.00	19036.00	18213.00	17866.00
07.8.5	Reinforced cement concrete works for thick mat foundation from Ready-Mix concrete with minimum cement content relates to approved mix ratio having minimum $f_{cr} = 33.5$ MPa, satisfying a specified compressive strength $f_c = 25$ MPa at 28 days on standard cylinders as per standard	cum	15236.00	15403.00	14530.00	14161.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	practice of Code ACI / BNBC, Cement conforming to CEM-II / B-M 42.5N, best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down well graded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), High-range water reducing chemical admixture Type-G under ASTM C494 (Doses to be applied as per Manufacturer's Guideline), conducting necessary tests, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; using machine batched and machine mixed concrete using cement content as per approved design mix (minimum 400 kg/ cum), carrying to the site of laying using Transit Mixer (considering setting time of concrete from plant to the site), including pumping of concrete using line pump or boom placer to site of laying, maintaining allowable slump of 100mm to 150mm (measured at site), casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, cost of all materials and other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering). (Foundation: MAT) Note: The mix design shall be done from PWD testing laboratory or other recognized laboratories and be consulted with concerned design office.					
07.8.6	Reinforced cement concrete works for thick mat foundation from Ready-Mix concrete with minimum cement content relates to approved mix ratio having minimum $f_{cr} = 40.5$ MPa, satisfying a specified compressive strength $f_c = 32$ MPa at 28 days on standard cylinders as per standard practice of Code ACI / BNBC, Cement conforming to CEM-II / B-M 42.5N, best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down well graded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), High-range water reducing chemical admixture Type-G under ASTM C494 (Doses to be applied as per Manufacturer's Guideline), conducting necessary tests, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; using machine batched and machine mixed concrete using cement content as per approved design mix (minimum 460 kg/ cum), carrying to the site of laying using Transit Mixer (considering setting time of concrete from plant to the site), including pumping of concrete using line pump or boom placer to site of laying, maintaining allowable slump of 100mm to 150mm (measured at site), casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, cost of all materials and other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering).	cum	15703.00	15864.00	15025.00	14670.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	(Foundation: MAT) Note: The mix design shall be done from PWD testing laboratory or other recognized laboratories and be consulted with concerned design office.					
	RCC WORKS : 1:1.25:2.5 (measured on gross concrete section) (f_c = 30 MPa, minimum f_{cr} = 38.5 MPa in nominal mix 1 : 1.25 : 2.5) with Stone Chips and Admixture (100% sand of F.M. 2.2) For Saline Zone					
07.9	Reinforced cement concrete works with minimum cement content relates to mix ratio 1:1.25:2.5 having minimum f _{cr} = 38.5 MPa, satisfying a specified compressive strength f _c = 30 MPa at 28 days on standard cylinders as per standard practice of Code ACI / BNBC, Cement conforming to CEM-II / B-M 42.5N, and adding approved high range water reducing admixture of complying specific type (generally be Type-G or F) under ASTM-C 494, best quality coarse sand [Sylhet sand or coarse sand of equivalent F.M. 2.2], 20 mm down well graded crushed stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), including conducting necessary tests, screening sand through proper sieves, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; mixing with standard mixer machine with hopper and fed by standard measuring boxes or in batching plant, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Doses of admixture to be fixed in consultation with design office) (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering)					
07.9.1	Individual & combined footing, pile cap, raft/mat, floor slab and foundation beam up to plinth level	cum	15901.00	16057.00	15159.00	14795.00
07.9.2	Pedestal, column, column capital, lift wall and RCC wall up to ground floor	cum	16270.00	16420.00	15500.00	15137.00
07.9.3	Floor / roof slab, T-beam, L-beam and rectangular beam, tie beam, lintel, stair case slab and steps etc. up to ground floor	cum	15669.00	15823.00	14916.00	14552.00
07.9.4	Cornice, railing, drop wall, louver, fins, sunshade, false ceiling, waffle and ribbed floor slab etc. up to ground floor	cum	16260.00	16404.00	15462.00	15098.00
07.10	Added rate for RCC works/fair-faced concrete works (materials, consumables and laying/placing concrete) in column, column capital, lift wall & wall, T- beam, L-beam, rectangular beams, floor / roof slab, cantilever slab, waffle slab and drop panels where the free height of the structure exceeds 4 meter (rate is considered for each additional meter height)	cum	350.00	344.00	321.00	321.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
07.11.1	Added rate for RCC work/fair-faced work in additional floor: concrete	cum	93.00	93.00	93.00	93.00
07.11.2	Added rate for RCC work in additional floor: concrete (concrete from batching or Ready-Mix Plant)					
07.11.2.1	Add for each cum of concrete from 5th floor to 14th floor	cum	19.00	19.00	19.00	19.00
07.11.2.2	Add for each cum of concrete above 15th floor	cum	47.00	47.00	47.00	47.00
	FORM WORK (Steel)					
07.12	Centering and shuttering, including strutting, propping etc. (The formwork must be rigid enough both in and out of plane, to make the concrete surface true to the designed shape and size by using necessary MS sheets of minimum 16 BWG, angles of minimum size 40 mm x 40 mm x 5 mm, flat bars etc.) and removal of form for :					
07.12.1	Individual and combined footing	sqm	598.00	595.00	584.00	584.00
07.12.2	In raft/mat/floor slab up to plinth level	sqm	603.00	600.00	587.00	587.00
07.12.3	Foundation beam	sqm	507.00	505.00	499.00	499.00
07.12.4	Pedestal, column, column capital, lift wall and wall up to ground floor	sqm	537.00	535.00	531.00	531.00
07.12.5	Tie beam and lintel: ground floor	sqm	558.00	556.00	550.00	550.00
07.12.6	T-beam, L-beam and rectangular beam etc. up to ground floor	sqm	590.00	589.00	585.00	585.00
07.12.7	Floor and roof slab up to ground floor	sqm	614.00	612.00	606.00	606.00
07.12.8	Cornice, railing, drop walls, louver, fins etc.: ground floor	sqm	501.00	500.00	493.00	493.00
07.12.9	Sunshade, false ceiling: ground floor	sqm	556.00	555.00	548.00	548.00
07.12.10	Stair case slab and steps up to ground floor	sqm	567.00	566.00	561.00	561.00
07.12.11	Waffle or ribbed floor up to ground floor	sqm	740.00	739.00	733.00	733.00
07.12.12.1	Arches, domes, vaults up to 8m span (for single use)	sqm	2232.00	2231.00	2227.00	2227.00
07.12.12.2	Arches, domes, vaults up to 8 m span (for 2-times use)	sqm	1563.00	1562.00	1559.00	1559.00
07.12.12.3	Arches, domes, vaults up to 8 m span (for 3-times use)	sqm	1116.00	1116.00	1114.00	1114.00
07.12.12.4	Arches, domes, vaults up to 8 m span (for more than 3-times use)	sqm	782.00	781.00	780.00	780.00
07.13	Added rate for arches, domes, vaults exceeding 8 m span	sqm	558.00	558.00	557.00	557.00
07.14	Added rate for shuttering in circular work	sqm	118.00	118.00	117.00	117.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
07.15	Added rate for additional height in centering, shuttering where ever required with adequate bracing, propping etc. over a height of 4.0 m, for every additional height of 1 meter or part thereof.	sqm	59.00	59.00	58.00	58.00
07.16	Added rate for formwork/shuttering in additional floor	sqm	18.00	18.00	17.00	17.00
07.17	Formwork for making 'fair-faced' surface of the concrete as per design, drawing and direction of Engineer-in-charge. (The formwork must be rigid enough both in and out of plane, to make the concrete surface true to the designed shape and size by using necessary MS sheets of minimum 10 BWG, angles of minimum size 50 mm x 50 mm x 6 mm, flat bars, formwork releasing agent etc.)	sqm	1140.00	1139.00	1135.00	1135.00
	FORMWORK (Wooden) for boundary wall, gate, centry post etc.					
07.18	Centering and shuttering, including strutting, propping etc. and removal of form for:					
07.18.1	Individual and combined footings	sqm	537.00	535.00	516.00	516.00
07.18.2	Foundation beam	sqm	489.00	487.00	471.00	471.00
07.18.3	Pedestals, column, wall	sqm	541.00	540.00	522.00	522.00
07.18.4	Tie beam & lintels	sqm	536.00	534.00	516.00	516.00
07.18.5	T-beam, L-beam and rectangular beam	sqm	522.00	521.00	504.00	504.00
07.18.6	Floor & roof slab	sqm	577.00	573.00	568.00	568.00
07.18.7	Cornice, railing, drop wall, louver, fins etc.	sqm	472.00	471.00	458.00	458.00
07.18.8	Sunshade, false ceiling	sqm	484.00	484.00	472.00	472.00
07.18.9	Stair case slab and steps	sqm	470.00	470.00	457.00	457.00
07.19	Supply and use of specified type chemical admixture delivered from an authorized local agent or manufacturer, complying with the ASTM C-494 requirements; conforming the current compliance of the admixture to specification requirements like physical properties, uniformity and equivalence in composition etc.; performance (water content, fresh concrete setting time and compressive strength) requirements, delivered in sealed water-tight containers confirming plainly marked product name & type under this specification, net weight and /or volume, manufacturing and expiry date, non-aggressiveness to environment, aggregates and metals in concrete etc. and mixing the admixture in non pre-stressed cement concrete mixture in the field in accordance with manufacturers recommendation and instruction; providing safety provisions in all respects etc. all complete as per instruction and approved by the Engineer-in-charge. Dose (quantity in milli litres per 50 kg bag cement) and brand/origin/ manufacturer with respect to particular					

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	brand of cement and particular stock of aggregates and method of use to be determined by mix design/ trial mix at the cost of contractor and approved by the Engineer. (Use of admixture is subjected to prior approval of design office)					
07.19.1	Supply and use of water reducing chemical admixture in concrete, complying ASTM C-494 Type – A of approved brand/ origin/ manufacturer and supplied by only manufacturer's authorised dealer with certificate of origin. The admixture is to reduce quantity of mixing water required for normal workability and to maintain low water-cement (w/c) ratio, for improved concrete quality assurance.	liter	210.00	210.00	209.00	209.00
07.19.2	Supply and use of retarding chemical admixture in concrete, complying ASTM C-494 Type - B of approved brand/ origin/ manufacturer and supplied by only manufacturer's authorised dealer with certificate of origin. The admixture for retarding setting time of concrete, thereby reducing shrinkage in concrete specially for concrete laid in thick layers and intended delayed construction for improved construction joints, re-concreting etc.	liter	214.00	214.00	214.00	214.00
07.19.3	Supply and use of accelerating chemical admixture in concrete, complying ASTM C-494 Type - C of approved brand/ origin/ manufacturer and supplied by only manufacturer's authorised dealer with certificate of origin. An admixture that is to accelerate the setting time and early strength gain of concrete.	liter	151.00	151.00	151.00	151.00
07.19.4	Supply and use of water-reducing and retarding chemical admixture in concrete, complying ASTM C-494 Type - D of approved brand/ origin/ manufacturer and supplied by only manufacturer's authorised dealer with certificate of origin. The admixture to reduce the quantity of mixing water required to produce concrete of given consistency, i.e. low water-cement (w/c) ratio and intend to retard setting time of concrete, specially for layered, thick laid concrete etc.	liter	277.00	277.00	277.00	277.00
07.19.5	Supply and use of water-reducing and accelerating chemical admixture in concrete, complying ASTM C-494 Type - E of approved brand/ origin/manufacturer and supplied by only manufacturer's authorised dealer with certificate of origin. The admixture to reduce the quantity of mixing water required to produce concrete of given consistency, i.e. low water-cement (w/c) ratio and intend to accelerate setting time of concrete, and early strength gain in concrete etc.	liter	240.00	240.00	240.00	240.00
07.19.6	Supply and use of water-reducing high range chemical admixture in concrete, complying ASTM C-494 Type - F of approved brand/ origin/ manufacturer and supplied by only manufacturer's authorised dealer with certificate of origin. The admixture required to produce concrete of consistency by 12% or greater (flowing concrete) and for higher strength of concrete.	liter	277.00	277.00	277.00	277.00
07.19.7	Supply and use of water-reducing high range and retarding chemical admixture in concrete, complying ASTM	liter	208.00	208.00	208.00	208.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	Rajshahi, Rangpur
	C-494 Type - G of approved brand/origin/manufacture and supplied by only manufacturer's authorised dealer with certificate of origin. The admixture required to produce concrete of consistency by 12% or greater (flowing concrete) and for higher strength of concrete and intend to retard setting time of concrete.					
07.20	Supply and use of best quality pliable, cold applied pre-formed self-adhesive rubberized/ bituminous water proofing membrane of approved brand / origin / manufacturer from an authorized local agent or manufacturer having minimum thickness 1.5 mm, lined with 2 ply cross laminated high density polyethylene film performances and properties all conforming to ASTM standards and laying, placing, fixing on made up firm and dry surfaces free from hollows, sharp protrusions, contaminates etc. laid over-lap by at least 75 mm along the edges and 125 mm at ends ensuring good initial bond with the surfaces all complete under the strict accordance with the manufacturer recommendations and instructions providing all safety provisions in all respects and accepted by the Engineer. (supplied by only manufacturer's authorised dealer with certificate of origin) under following specification: Backing (HDPE) thickness : minimum 0.10mm Membrane thickness : minimum 1.40mm Total thickness : minimum 1.50mm Cold flexibility greater than (-)200C : ASTM D146 Pliability : "No crack" tested in ASTM D146 Tensile strength (film only) min 3.50 MPa (35000 KN/m2) testing in ASTM D882 Tensile strength (composite) at least 2.40 MPa or N/mm2 Elongation (composite) min 300% Cycling over crack at (-) 32°C No effect 100 cycles ASTM C836-89a Puncture resistance greater than 240N ASTM E 154-88 Resistance to hydrostatic head at least 50m ASTM D5385 Tear resistance min 4.0 MPa (N/mm2) Adhesion to primed concrete min 4.0 N/mm : ASTM D1000 Water vapor transmission Less than 0.10g/m2 per hour : ASTM E96 Water absorption in 24 hour Less than 0.33% ASTM D570 Heat stability (+) 90°C environmental compliance to conform: ASTM D543					
07.20.1	Water-proofing membrane on external surface of primed vertical or inclined wall /on plastered and primed back-wall and concrete cast against membrane. (Excluding cost of back fill/brick wall on back/plaster when membrane laid on back-wall and concrete cast against membrane which to be paid as per corresponding items in this schedule)	sqm	1115.00	1112.00	1099.00	1099.00
07.20.2	Water-proofing membrane on made up surface below the floor or below the horizontal surfaces with temporary protective cover using polystyrene/38 mm thick sand-cement mortar in 4:1 /or by equally effective alternative. (Rate is excluding the cost of protective cover which to be paid as per corresponding items in this schedule)	sqm	920.00	918.00	910.00	910.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
07.20.3	Water-proofing membrane on the floor or on the horizontal surfaces with permanent protective cover & wearing coarse . (Rate is excluding the cost of protective cover and wearing coarse which to be paid as per corresponding items in this schedule)	sqm	956.00	954.00	947.00	947.00
07.21	Supply of polymer based curing compound as per ASTM C309 or BS 7542-1992 standard and apply by stirring & spraying with motorized sprayers over the surface of fresh concrete free from surface water and avoiding bleeding of concrete maintaining the spray nozzle approximately 450 mm away from the concrete surface with passed back and forth to ensure complete coverage confirming the pump pressure for fine spray and keeping the concrete surface undisturbed until it has sufficient strength to bear surface loads [The suitability of motorized sprayer should be ensured by an application trial] ensuring adequate ventilation to avoid inhalation of vapors and contact with skin and eyes all complete and accepted by Engineer-in-charge.	sqm	224.00	221.00	211.00	211.00
07.22	Supply of epoxy bonding agent following ASTM C881/ C881M - 14 or any international acceptable standard and apply over the old concrete surface after making free of standing water, removal of dust, laitance, grease, curing compounds, impregnations, waxes and any other contaminants to achieve optimum bonding in between fresh and old concrete and accepted by the Engineer-in-charge.	sqm	1118.00	1113.00	1098.00	1098.00
07.23	Supply of best quality corrosion inhibiting admixture on concrete surface following ASTM C1582 delivered from authorized local agent of the manufacturer in a sealed container and apply by a firm experienced in applying corrosion inhibiting admixture or workers trained and approved by manufacturer to wall and ceiling in 2 coats elapsing specified time for drying/ recoating including cleaning and sand papering making the surface free from loose and efflorescence, flaky materials, dirt, grease, wax, polish, scraping all chalked and scaled materials, applying the paint by brush/ spray following manufacturer's written instructions and necessary scaffolding etc. all complete and accepted by the Engineer-in-charge.	sqm	48.00	48.00	46.00	46.00
07.24	Supplying, fitting and fixing of 0.45 mm thick foreign made celluloid paper for fair face form works to add extra smoothness in surface applying in shutter top with liquid glue etc of celluloid paper and other materials, electricity, accessories, labour for installation, scaffolding, screws, nails etc. all complete as per design, approved and accepted by the Engineer-in-charge.	sqm	180.00	179.00	177.00	177.00

..... END OF CHAPTER SEVEN

CHAPTER 08: M.S. FABRICATION AND JOINTS IN RC WORKS

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
08.1	Supplying, fabrication and fixing to detail as per design : ribbed or deformed bar reinforcement (excluding laboratory test fees) for Reinforced concrete, produced and marked in accordance with BDS ISO 6935-2:2016 (or standard subsequently released from BSTI) including straightening and cleaning rust, if any, bending and binding in position with supply of G.I. wires, conducting necessary laboratory tests etc. (excluding splices or laps) complete in all respect and accepted by the Engineer-in-charge (Measurement shall be recorded only on standard mass per unit length of bars, while dia of bars exceeds its standard)					
08.1.1	Grade 300 (B300DWR: complying BDS ISO 6935-2:2016 / ASTM A615) ribbed or deformed bar produced and marked according to Bangladesh standard, with minimum yield strength, f_y (ReH)= 300 MPa but f_y not exceeding 350 MPa and whatever is the actual yield strength within allowable limit as per BNBC/ ACI 318, the ratio of ultimate tensile strength f_u to yield strength f_y , shall be at least 1.25 and minimum elongation after fracture and minimum total elongation at maximum force is 17% and 8% respectively : up to ground floor	kg	113.00	113.00	112.00	112.00
08.1.2	Grade 400 (B400DWR / B420DWR: complying BDS ISO 6935-2:2016 / ASTM A615) ribbed or deformed bar produced and marked according to Bangladesh standard, with minimum yield strength, f_y (ReH)= 400 MPa but f_y not exceeding 480 MPa and whatever is the actual yield strength within allowable limit as per BNBC/ ACI 318, the ratio of ultimate tensile strength f_u to yield strength f_y , shall be at least 1.25 and minimum elongation after fracture and minimum total elongation at maximum force is 17% and 8% respectively : up to ground floor.	kg	124.00	124.00	123.00	123.00
08.1.3	Grade 500 (B500DWR: complying BDS ISO 6935-2:2016 / ASTM A615) ribbed or deformed bar produced and marked according to Bangladesh standard, with minimum yield strength, f_y (ReH)= 500 MPa and whatever is the yield strength within allowable limit as per BNBC/ ACI 318, the ratio of ultimate tensile strength f_u to actual yield strength f_y , shall be at least 1.25 and minimum elongation after fracture and minimum total elongation at maximum force is 17% and 8% respectively : up to ground floor. (To be used for pile work, earth retaining wall, boundary wall, water reservoir & other structures as per instruction of concerned design DIVISION)	kg	122.00	122.00	121.00	121.00
08.2	Added rate for M.S. Fabrication work in additional floor above ground floor	kg	0.69	0.68	0.63	0.63
08.3	Supplying and fixing of upset forging parallel thread rebar Couplers (excluding laboratory test fees) conforming to ACI-318 on "Building Code Requirements for Structural Concrete" and ISO: 15835 on "Steels for the reinforcement of concrete — Reinforcement couplers for mechanical					

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	splices of bars" to ribbed or deformed bars of Grade 400 (B400DWR / B420DWR : complying BDS ISO 6935-2:2016), in splicing main rebars of structural members satisfying the condition that splice shall develop at least 1.25 times greater of yield strength (fy) than that of the connecting rebars in tension and compression including threading, enlargement at connection by forging, protecting the prepared reinforcement bars and related operations as required to complete the works per direction of Engineer-in-Charge. Minimum 0.5% of the total coupled rebars are to be tested for quality assurance.					
08.3.1	Thread Coupler for 20 mm diameter Bar	each	328.00	328.00	324.00	324.00
08.3.2	Thread Coupler for 25 mm diameter Bar	each	521.00	520.00	515.00	515.00
08.3.3	Thread Coupler for 32 mm diameter Bar	each	748.00	747.00	740.00	740.00
08.4	Supplying and fixing of cold extrusion mechanical rebar Couplers (excluding laboratory test fees) conforming to ACI-318 on "Building Code Requirements for Structural Concrete" and ISO: 15835 on "Steels for the reinforcement of concrete — Reinforcement couplers for mechanical splices of bars" to ribbed or deformed bars of Grade 400 (B400DWR / B420DWR : conforming BDS ISO 6935-2:2016), in splicing main rebars of structural members satisfying the condition that splice shall develop at least 1.25 times greater of yield strength (fy) than that of the connecting rebars in tension and compression including related operations as required to complete the works as per direction of Engineer-in-Charge. Minimum 1.0% of the total coupled rebars are to be tested for quality assurance.					
08.4.1	Press Coupler for 16 mm diameter Bar (minimum Length: 100 mm, maximum Inner diameter: 21 mm, minimum Thickness: 4.5 mm)	each	388.00	387.00	385.00	385.00
08.4.2	Press Coupler for 20 mm diameter Bar (minimum Length: 120 mm, maximum Inner diameter: 25 mm, minimum Thickness: 5.5 mm)	each	536.00	535.00	531.00	531.00
08.4.3	Press Coupler for 22 mm diameter Bar (minimum Length: 132 mm, maximum Inner diameter: 28 mm, minimum Thickness: 6 mm)	each	683.00	681.00	677.00	677.00
08.4.4	Press Coupler for 25 mm diameter Bar (minimum Length: 150 mm, maximum Inner diameter: 31 mm, minimum Thickness: 7 mm)	each	879.00	877.00	872.00	872.00
08.4.5	Press Coupler for 32 mm diameter Bar (minimum Length: 192 mm, maximum Inner diameter: 38 mm, minimum Thickness: 9 mm)	each	1483.00	1481.00	1476.00	1476.00
08.5	Installation of water stopper at movable and immovable RCC green joints as per following specification.					

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
08.5.1	Supplying, fitting and fixing ribbed PVC water stopper with non centre bulb of width approx. 250 mm and approx. 9 mm thick for immovable (non-working) RCC joints, having minimum tensile strength of 8.27MPa (approx. 1200 psi) min ultimate elongation 350%, approximate hardness 50, minimum tear resistance 0.0175 kN/mm (100 lbs/inch) at RCC construction green joints in basements, approved and in consultation with design office, providing 38 mm x 62 mm wooden batten at the top and bottom of water stopper, holding in position and keeping the water stopper in true horizontal or vertical by appropriate means as where necessary etc. all complete and accepted by the Engineer-in-charge.	meter	1053.00	1050.00	1025.00	1025.00
08.5.2	Supplying, fitting and fixing ribbed PVC water stopper with centre bulb of width approx. 250 mm and approx. 9 mm thick for immovable (non-working) RCC joints, having minimum tensile of strength 8.27 MPa (approx. 1200 psi) minimum ultimate elongation 350%, approximate hardness 50, minimum tear resistance 0.0175 KN/mm (100 lbs/inch) at RCC construction green joints in basements, approved and in consultation with design office, providing 38 mm x 62 mm wooden batten at the top and bottom of water stopper, holding in position and keeping the water stopper in true horizontal or vertical by appropriate means as where necessary etc. all complete and accepted by the Engineer-in-charge.	meter	1140.00	1137.00	1111.00	1111.00
08.6	Supplying, fitting and fixing 250 mm wide 16 SWG Steel Sheet water stopper in RCC construction joint holding in position and keeping the water stopper in true horizontal or vertical by appropriate means as where necessary etc. all complete and accepted by the Engineer-in-charge.	meter	385.00	384.00	380.00	380.00
08.7.1	Manufacturing, supplying, fitting and fixing Expansion Joint for gap up to 100mm with 125mmx50mmx6mm and 75mmx50mmx6mm galvanized MS angle and 8mm thick galvanized MS plate etc. all complete as per drawing, design and accepted by the Engineer-in-charge.	meter	8092.00	8084.00	8041.00	8041.00
08.7.2	Manufacturing, supplying, fitting and fixing Expansion Joint for gap more than 100mm up to 150mm with 150mmx50mmx6mm and 100mmx50mmx6mm galvanized MS angle and 8mm thick galvanized MS plate etc. all complete as per drawing, design and accepted by the Engineer-in-charge.	meter	9521.00	9513.00	9470.00	9470.00
08.7.3	Manufacturing, supplying, fitting and fixing Expansion Joint for gap more than 150mm up to 200mm with 175mmx50mmx6mm and 125mmx50mmx6mm galvanized MS angle and 8mm thick galvanized MS plate etc. all complete as per drawing, design and accepted by the Engineer-in-charge.	meter	10951.00	10943.00	10899.00	10899.00

..... END OF CHAPTER EIGHT

CHAPTER 09: PILE WORKS AND PILE TEST

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
09.1	Boring/drilling by wash or percussion method for cast in situ pile up to the required depth and diameter with minimum 6 m long temporary steel casing, true to vertical, providing bentonite slurry and maintaining water level in the hole, washing the hole for at least 30 minutes, cleaning the bore hole and making the bore hole ready for placing steel cage and concreting including hire charge of rig set with winch machine, tripod stand, tremie pipe, cost of fuel, lubricant, mobilization, demobilization, maintenance, spares, stand-byes, insurance coverage, water, electricity and other charges all complete, approved and accepted by the Engineer-in-charge. Before commencing boring operation, contractor shall submit the method statement of cast-in-situ pile work including sequence of boring and casting, disposal of spoils to the Engineer-in-charge for approval. However, Engineer's approval shall not relieve the contractor of his responsibilities and obligations under contract.					
09.1.1	400 mm dia	meter	841.00	836.00	817.00	817.00
09.1.2	450 mm dia	meter	1070.00	1062.00	1039.00	1039.00
09.1.3	500 mm dia	meter	1255.00	1247.00	1219.00	1219.00
09.1.4	550 mm dia	meter	1496.00	1486.00	1454.00	1454.00
09.1.5	600 mm dia	meter	1725.00	1714.00	1677.00	1677.00
09.2	Auger Boring/Rotary drilling for cast in situ pile up to the required depth and diameter with minimum 6 m long temporary steel casing, true to vertical, providing bentonite slurry and maintaining water level in the hole, washing the hole for at least 30 minutes, cleaning the bore-hole and making the bore- hole ready for placing steel cage and concreting including hire charge of rig set , tremie pipe, cost of fuel, lubricant, mobilization, demobilization, maintenance, spares, stand-byes, insurance coverage, bentonite, water, electricity and other charges etc. complete approved and accepted by the Engineer-in-charge. Before commencing boring operation, contractor shall submit the method statement of cast-in-situ pile work including sequence of boring and casting, disposal of spoils to the Engineer-in-charge for approval. However, Engineer's approval shall not relieve the contractor of his responsibilities and obligations under contract.					
09.2.1	600 mm dia	meter	3974.00	3968.00	3950.00	3950.00
09.2.2	750 mm dia	meter	4949.00	4943.00	4922.00	4922.00
09.2.3	1000 mm dia	meter	7179.00	7170.00	7140.00	7140.00
09.3	Removing of spoils / mud accumulated during boring for cast in situ pile by wash boring from working site to a safe distance by contractor's own arrangement i.e. with container	cum	765.00	763.00	708.00	708.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	set in truck or on cart including loading, unloading everything complete as per standard practice and accepted by the Engineer-in-charge. (Quantity should be given three times of solid volume of boring)					
09.4	Cast in situ pile with reinforced cement concrete works of high slump by adding high range water reducing admixture (ASTM C494 Type A or F) with minimum cement content relates to mix ratio 1:1.5:3 having minimum $f_{cr} = 26$ MPa, and satisfying a specified compressive strength $f_c = 21$ MPa at 28 days on standard cylinders as per standard practice of Code ACI/ BNBC & cement conforming to BDS EN-197-1- CEM -1, 52.5N, best quality coarse sand [Sylhet sand or coarse sand of equivalent F.M.2.2], 20 mm down well graded crushed stone chips conforming to ASTM C-33, including breaking chips, screening through proper sieves, making, placing re-bar cage in position, placing and removing tri-pod as per requirement, pouring the concrete in bore-hole with the help of a tremie pipe, maintaining the tremie pipe immersed in concrete by at least 1 meter throughout the period of concreting, maintaining required slump, etc. mixing the aggregates with standard mixer machine with hopper, casting in forms, all complete including water, electricity, testing of materials and concrete etc. and other charges as per design, drawing etc. all complete approved and accepted by the Engineer-in-charge. (Rate is excluding the cost of reinforcement and its fabrication, binding, welding, placing and admixture (approx. doses 150 to 250 ml per bag of cement which is to be fixed upon consultation with design office)	cum	17141.00	17310.00	16312.00	15912.00
09.5	Providing and making point welding at contact point of the spiral binders at reasonable intervals with the main reinforcements by electric arc welding for construction of cast in situ bored pile carefully with highly oxidized electrodes, making the points prominent and accepted by the Engineer-in-charge. (Rate is inclusive of all materials labour, tools and plants, electricity and all equipment).	point	4.00	4.00	4.00	4.00
09.6	Providing and making welded splice over two sides of contact by welding of minimum 300 mm length at the lap of main reinforcement in rebar cage to be placed in bore-hole where necessary by electric arc welding with highly oxidized electrodes making the joint prominent all complete and accepted by the Engineer-in-charge. (Rate is inclusive of all materials labour, tools and plants, electricity and all equipment).	meter of weld	496.00	496.00	496.00	496.00
09.7	Labour for breaking head of hardened cast in situ bored pile/ pre-cast pile up to a required length by any means but without damaging the rest and removing the dismantled materials such as concrete to a safe distance including scraps and cleaning concrete from steel/ M.S. rods, straightening and bending of pile bars, preparation and making platform where necessary, carrying, all sorts of handling, stacking the same properly after clearing, leveling and dressing the situ	cum	3695.00	3616.00	3365.00	3365.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	and clearing the bed etc. complete in all respect and accepted by the Engineer-in-charge. (Measurement will be given for the actual pile head volume to be broken)					
09.8	Conducting static load test as per ASTM D1143 or equivalent standard for the cast-in-situ/pre-cast pile providing required scaffolding, bracing, jacks, pressure test gauge, loading unloading, Kentledge and other plants and equipment including staging, mobilization, demobilization, hire charge, gunny bags, sand and filling sacs/gunny bags for loading, record readings and preparation of results in standard forms and other incidental charges as per standard practice and procedures including submission of load test report, furnishing all graph and chart etc. complete in all respect approved and accepted by the Engineer-in-charge (Minimum two cyclic loading; one at service load and another cycle at double the service load then to continue loading till failure of the pile). Before commencing load test, contractor shall submit method statement for conducting load test to the Engineer-in-charge for approval. However, Engineer's approval shall not relieve the Contractor of his responsibilities and obligations under Contract. Load test and report shall be conducted under the supervision of a professional Geotechnical Engineer registered in BPERB or Geotechnical firm registered in PWD. Boring and pouring logs / driving logs of piles and method statement shall be the part of load test report.					
09.8.1	Mobilization & de-mobilization of testing equipment	per set per site	5801.00	5801.00	5297.00	5297.00
09.8.2	Calibration of pressure gauge	per set per site	6810.00	6810.00	6810.00	6810.00
09.8.3	For 50 tonne load					
09.8.3.1	For first test at one site for one testing set	per test	92298.00	92053.00	90692.00	90692.00
09.8.3.2	For 2nd & additional tests at same site for same testing set	per test	83068.00	82848.00	81623.00	81623.00
09.8.4	For 100 tonne load					
09.8.4.1	For first test at one site for one testing set	per test	153968.00	153755.00	151891.00	151891.00
09.8.4.2	For 2nd & additional tests at same site for same testing set	per test	138571.00	138379.00	136702.00	136702.00
09.8.5	For 150 tonne load					
09.8.5.1	For first test at one site for one testing set	per test	214234.00	214078.00	211812.00	211812.00
09.8.5.2	For 2nd & additional tests at same site for same testing set	per test	192810.00	192670.00	190631.00	190631.00
09.8.6	For 200 tonne load					
09.8.6.1	For first test at one site for one testing set	per test	276645.00	276497.00	273689.00	273689.00
09.8.6.2	For 2nd & additional tests at same site for same testing set	per test	248981.00	248847.00	246320.00	246320.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
09.8.7	For 250 tonne load					
09.8.7.1	For first test at one site for one testing set	per test	339433.00	339342.00	336133.00	336133.00
09.8.7.2	For 2nd & additional tests at same site for same testing set	per test	305490.00	305408.00	302519.00	302519.00
09.8.8	For 300 tonne load					
09.8.8.1	For first test at one site for one testing set	per test	401860.00	401776.00	398025.00	398025.00
09.8.8.2	For 2nd & additional tests at same site for same testing set	per test	361674.00	361598.00	358222.00	358222.00
09.8.9	For 350 tonne load					
09.8.9.1	For first test at one site for one testing set	per test	462125.00	462099.00	457946.00	457946.00
09.8.9.2	For 2nd & additional tests at same site for same testing set	per test	415913.00	415889.00	412151.00	412151.00
09.8.10	For 400 tonne load					
09.8.10.1	For first test at one site for one testing set	per test	522391.00	522422.00	517867.00	517867.00
09.8.10.2	For 2nd & additional tests at same site for same testing set	per test	470152.00	470180.00	466080.00	466080.00
09.9	Rate for incremental loading					
09.9.1	For intermediate loading from 50 tonne to 100 tonne for each additional tonne					
09.9.1.1	For first test at one site for one testing set	tonne	1233.00	1234.00	1224.00	1224.00
09.9.1.2	For 2nd & additional tests at same site for same testing set	tonne	1110.00	1111.00	1102.00	1102.00
09.9.2	For intermediate loading from 100 tonne to 150 tonne for each additional tonne.					
09.9.2.1	For first test at one site for one testing set	tonne	1205.00	1206.00	1198.00	1198.00
09.9.2.2	For 2nd & additional tests at same site for same testing set	tonne	1085.00	1086.00	1079.00	1079.00
09.9.3	For intermediate loading from 150 tonne to 200 tonne for each additional tonne.					
09.9.3.1	For first test at one site for one testing set	tonne	1248.00	1248.00	1238.00	1238.00
09.9.3.2	For 2nd & additional tests at same site for same testing set	tonne	1123.00	1124.00	1114.00	1114.00
09.9.4	For intermediate loading from 200 tonne to 250 tonne for each additional tonne.					
09.9.4.1	For first test at one site for one testing set	tonne	1256.00	1257.00	1249.00	1249.00
09.9.4.2	For 2nd & additional tests at same site for same testing set	tonne	1130.00	1131.00	1124.00	1124.00
09.9.5	For intermediate loading from 250 tonne to 300 tonne for each additional tonne.					
09.9.5.1	For first test at one site for one testing set	tonne	1249.00	1249.00	1238.00	1238.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
09.9.5.2	For 2nd & additional tests at same site for same testing set	tonne	1124.00	1124.00	1114.00	1114.00
09.9.6	For intermediate loading from 300 tonne to 350 tonne for each additional tonne.					
09.9.6.1	For first test at one site for one testing set	tonne	1205.00	1206.00	1198.00	1198.00
09.9.6.2	For 2nd & additional tests at same site for same testing set	tonne	1085.00	1086.00	1079.00	1079.00
09.9.7	For intermediate loading from 350 tonne to 400 tonne for each additional tonne.					
09.9.7.1	For first test at one site for one testing set	tonne	1205.00	1206.00	1198.00	1198.00
09.9.7.2	For 2nd & additional tests at same site for same testing set	tonne	1085.00	1086.00	1079.00	1079.00
09.10	Pre-cast pile made in reinforced cement concrete with minimum cement content relates to mix ratio 1:1.25:2.5 having minimum $f_{cr} = 38.5$ Mpa, and satisfying specified compressive strength $f_c = 30$ Mpa at 28 days on standard cylinders as per standard practice of Code ACI/ BNBC & cement conforming to BDS EN-197-1- CEM-I (52.5 N), best quality coarse sand (F.M.2.2), 20 mm down well graded crushed stone chips conforming to ASTM C-33, mixing in standard mixture machine and fed by standard measuring boxes, including all related works like screening through proper sieves, cleaning and washing, centering and placing reinforcement cages in position, casting, compacting by vibrators and tapered rods as where necessary, curing for 28 days etc. cost of water, electricity and other charges, providing fitting and fixing pile shoe in position, tools, plants & equipments, mobilization, demobilization, labour, test of materials and concrete etc. all complete as per design, drawing and accepted by the Engineer-in-charge. (Rate is excluding the cost of reinforcement and its fabrication, binding, welding and placing)	cum	15583.00	15736.00	14829.00	14466.00
09.11	Cost of bed preparation including one layer brick flat soling with first class/picked jhama bricks including preparation of bed and filling the interstices with local sand, leveling etc. complete and accepted by the Engineer-in-charge, Minimum 12 mm thick cement sand (F.M. 1.2) plaster with neat cement finishing with cement (1:4) including washing of sand, finishing the edges and corners and curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect and accepted by the Engineer-in-charge (Cement: CEM-II/B-M) and polythene as separator between pile layers during casting concrete.	sqm	334.00	334.00	334.00	334.00
09.12	Centering and shuttering, including strutting, propping etc. (The formwork must be rigid enough both in and out of plane, to make the concrete surface true to the designed shape and size by using necessary MS sheets of minimum 18 BWG, angles of minimum size 1.5 x 1.5 x 3/16" for sides, angles of minimum size 1 x 1 x 3/16" for frames, 1.5" x 3/16" flat bars etc.) and removal of form for precast pile. (The formwork is considered for two sides and front shuttering of the pile)	sqm	409.00	409.00	398.00	398.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
09.13	Pre-cast pile shoe making & supplying pre-fabricated frustum of square cone having four sides and a toe made of 6 mm thick ASTM A36 complied MS steel plate jointed by line welding, 4 nos 12 mm dia deformed MS bar jointed by line welding with MS plate along the four edges of shoe aligning the corner main bar of the pile and 1-12mm dia bar to fix with and perpendicular to shoe toe plate aligning centre of pile, including cutting, shaping, sizing of MS plate and bar, all complete as per design & drawing and accepted by the Engineer-in-charge	each	3419.00	3387.00	3261.00	3261.00
09.14	Mobilization and demobilization of drop hammer type pre-cast pile driving rig.	per set per site	12296.00	12283.00	11224.00	11224.00
09.15	Driving 250 mm x 250 mm size pre-cast pile with drop hammer type rig, and maintaining driving log in prescribed format Before commencing driving operation, contractor shall submit method statement for carrying out the driving operation including sequence of driving to the Engineer-in-charge for approval. However, Engineer's approval shall not relieve the contractor of his responsibilities and obligations under contract.	meter	528.00	523.00	502.00	502.00
09.16	Driving 300 mm x 300 mm to 350 mm x 350 mm size pre-cast pile with drop hammer type rig, and maintaining driving log in prescribed format Before commencing driving operation, contractor shall submit method statement for carrying out the driving operation including sequence of driving to the Engineer-in-charge for approval. However, Engineer's approval shall not relieve the contractor of his responsibilities and obligations under contract.	meter	840.00	831.00	799.00	799.00
09.17	Mobilization and demobilization of automatic diesel hammer mounted complete rig set.	per set per site	191689.00	191689.00	191689.00	191689.00
09.18	Driving 250 mm x 250 mm size pre-cast pile by rig fitted with automatic diesel operated hammer. Before commencing driving operation by rig fitted with automatic diesel operated hammer, contractor shall submit method statement for carrying out the operation including sequence of driving to the Engineer-in-charge for approval. However, engineer's approval shall not relieve the contractor of his responsibilities and obligations under contract.	meter	726.00	722.00	710.00	710.00
09.19	Driving 300 mm x 300 mm & 350 mm x 350 mm size pre-cast pile by rig fitted with automatic diesel operated hammer. Before commencing driving operation by rig fitted with automatic diesel operated hammer, contractor shall submit method statement for carrying out the operation including sequence of driving to the Engineer-in-charge for approval. However, engineer's approval shall not relieve the contractor of his responsibilities and obligations under contract.	meter	939.00	935.00	919.00	919.00
09.20	Driving 400 mm x 400 mm size pre-cast pile by rig fitted with automatic diesel operated hammer. Before commencing driving operation by rig fitted with automatic diesel operated hammer, contractor shall submit method statement for carrying out the operation including sequence of driving to the	meter	1064.00	1059.00	1041.00	1041.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	Engineer-in-charge for approval. However, engineer's approval shall not relieve the contractor of his responsibilities and obligations under contract.					
09.21	Driving 450 mm x 450 mm size pre-cast pile by rig fitted with automatic diesel operated hammer. Before commencing driving operation by rig fitted with automatic diesel operated hammer, contractor shall submit method statement for carrying out the operation including sequence of driving to the Engineer-in-charge for approval. However, engineer's approval shall not relieve the contractor of his responsibilities and obligations under contract.	meter	1141.00	1135.00	1115.00	1115.00
09.22	Pre-cast driven micro-pile with reinforced cement concrete works with minimum cement content relates to mix ratio 1:1.25:2.5 having minimum $f_{cr} = 38.5$ MPa, and satisfying a specified compressive strength $f_c = 30$ MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC & cement conforming to BDS EN-197-1- CEM-I (32.5 to 52.5 N), best quality coarse sand (F.M.2.5) and 20 mm down well-graded crushed stone chips conforming to ASTM C-33, mixing in standard mixture machine with hopper and fed by standard measuring boxes, including cost of breaking chips, screening through proper sieves, cleaning and washing, centering and shuttering with M.S sheet, M.S angle, F.I bar, nuts and bolts, preparation of bed, laying polythene, placing of reinforcement cage, casting, compacting by vibrators and tapered rods, curing for 28 days etc. including cost of water, electricity and other charges as per standard practice or specified method providing head cushion, all equipments including mobilization, demobilization and hire charge of driving set, chamfering, test of materials and concrete etc. including carrying all complete approved and accepted by the Engineer-in-charge. (Rate is excluding the cost of reinforcement and its fabrication, binding, welding and placing)					
09.22.1	Casting of 180 mm x 180 mm x 7.6 m Pile with reinforced cement concrete (1:1.25:2.5) with stone chips	meter	642.00	646.00	615.00	603.00
09.22.2	Casting of 205 mm x 205 mm x 7.6 m Pile with reinforced cement concrete (1:1.25:2.5) with stone chips	meter	803.00	809.00	768.00	754.00
09.22.3	Driving of 180 mm x 180 mm x 7.6 m pre-cast pile	meter	223.00	221.00	213.00	213.00
09.22.4	Driving of 205 mm x 205 mm x 7.6 m pre-cast pile	meter	268.00	265.00	255.00	255.00
09.22.5	Supply of Cold-Drawn Wire Pre-stressed Concrete (CWPC) micro-pile which is made by using cold drawn wire minimum cement content relates to mix ratio 1:1.5:3 cement conforming to BDS EN-197-1-CEM-1, 52.5N, having minimum $f_{cr} = 35$ MPa and satisfying specified compressive strength $f_c = 30$ MPa at 28 days best quality coarse sand (F.M. 2.2), 20 mm down well graded stone chips conforming to ASTM C-33, mixing in standard mixture machine and fed by standard measuring boxes, including cost of all kind of reinforcement BDS ISO 6935-2:2006 including strengthening and cleaning rust if any bending and binding in position with	meter	1395.00	1387.00	1344.00	1338.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	supply of GI wires (24 BWG), centering and shuttering with M.S. sheet, M.S. angle, F.I. bar, nuts and bolts, preparation of bed, supplying & tensioning of cold drawn wire, laying polythene, placing of reinforcement cage in position, casting, compacting by vibrator and tapered rods, curing at least 28 days etc. including cost of water, electricity and other charges, proving pile shoe making with 20 BWG plane sheet, as per design and drawing including an equipments mobilization, demobilization chamfering edges if so including the cost of water electricity and other charges all complete as per design, drawing and accepted by the Engineer-in-charge. (Excluding the cost of carrying and driving of pile). Maximum length: Up to 7620 mm (fixed size x-section: 180 mm x 180 mm)					
09.23	PIT (Pile integrity test) : Conducting low strain dynamic testing of pile as per ASTM D5882 - The standard method for low-strain integrity testing of pile by a qualified and approved PIT expert, preparing pile heads and providing all relevant materials, equipment, experts, labour, mobilization, demobilization, data acquisition and analysis, preparation of results in standard forms and compiling final report with recommendations on the tests etc. complete in all respect approved and accepted by the Engineer-in-charge. (Report shall contain driving log / boring and pouring logs, graphs & statement on "Calibration Pile" (pile that tested for its capacity and PIT done earlier on it, at a place of known soil profiles), soil investigation report. (Calibration pile shall be made and tested first). Method statement for conducting PIT shall be submitted to the Engineer for approval, and shall be the part of PIT report, However, Engineer's approval shall not relieve the contractor of his responsibilities and obligations under contract.					
09.23.1	Mobilization and demobilization to site and PIT on 12 (twelve) piles or less	Up to 1st 12 piles	35311.00	35311.00	35311.00	35311.00
09.23.2	For PIT test of each additional pile after 12 (Twelve) pile tested at same site	per pile	1513.00	1513.00	1513.00	1513.00
09.24	Pre-cast spliced pile jointing by supplying, fitting, fixing prefabricated square shaped two steel caps made up by 6 mm thick ASTM A36 complied M.S plate, sides formed by bent in channel shape to have only two line of joinery on faces, having min 50 mm dia hole on its web; capping by min 12 mm thick ASTM A36 complied M.S plate shaping the edges in 45°, having min 40 mm dia hole at centre to pass 25 mm M.S bar 433 mm in length; jointed at channels root by welding; caps fitted with 2 nos BDS ISO 6935-2009: B400 DWR complied d20 U-bar 1244mm in length by welding, equidistant from centre holes of cap and shall have min 75 mm clear from pile faces; and finally, the system to be fitted in correct alignments on pile head positions waiting for concreting; both the pile heads fitted with the steel caps to be welded together through v-notches in field, while one of the companion segment of piles driven in ground and other one placed over it maintaining true verticality; all complete as per					

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	direction and stepwise approval leading to final approval of Engineer-in-charge.					
09.24.1	X-sec of pre cast pile segments :300 mm x 300 mm	each	11229.00	11210.00	11106.00	11093.00
09.24.2	X-sec of pre cast pile segments :350 mm x 350 mm	each	12690.00	12671.00	12559.00	12546.00
09.24.3	X-sec of pre cast pile segments :400 mm x 400 mm	each	14308.00	14289.00	14169.00	14156.00
09.24.4	X-sec of pre cast pile segments :450 mm x 450 mm	each	14674.00	14656.00	14539.00	14526.00
09.25	Pile Driving by Hydraulic Static Pile Driver					
09.25.1	Mobilization and demobilization of hydraulic static pile driver(Up to 320 metric ton capacity)	per set per site	575067.00	575067.00	575067.00	575067.00
09.25.2	Mobilization and demobilization of hydraulic static pile driver(321 Metric Ton to 500 Metric Ton Capacity)	per set per site	690080.00	690080.00	690080.00	690080.00
09.25.2.1	Driving pre-cast pile of 300 mm x 300 mm to 350 mm x 350 mm X-section made with shoe/ without shoe by Hydraulic static pile driver of up to 320 tonne (metric ton) capacity; arranged with necessary cranes, power source, maintaining driving log and record of pressure exerted on piles driven in to desired RL or capacity level ; complete in all respect including handling of piles, dressing & leveling of site, way making, surveying, layout setting etc. ended with the submission of pile driving report in three copies duly signed by professional engineer and approved by the Engineer-in-charge.	meter	911.00	910.00	907.00	907.00
09.25.2.2	Driving pre-cast pile of 400 mm x 400 mm X-section made with shoe/ without shoe by hydraulic static pile driver of approx. 321 tonne to 500 tonne (metric ton) capacity; arranged with necessary cranes, power source, maintaining driving log and record of pressure exerted on piles driven in to desired RL or capacity level ; complete in all respect including handling of piles, dressing & leveling of site, way making, surveying, layout setting etc ended with the submission of pile driving report in three copies duly signed by professional engineer and approved by the Engineer-in-charge.	meter	1024.00	1023.00	1020.00	1020.00
09.25.2.3	Driving pre-cast pile of 450 mm x 450 mm X-section made with shoe/ without shoe by hydraulic static pile driver of approx. 500 tonne (metric ton) capacity; arranged with necessary cranes, power source, maintaining driving log and record of pressure exerted on piles driven in to desired RL or capacity level ; complete in all respect including handling of piles, dressing & leveling of site, way making, surveying, layout setting etc ended with the submission of pile driving report in three copies duly signed by professional engineer and approved by the Engineer-in-charge.	meter	1072.00	1071.00	1068.00	1068.00
09.26	Mobilization and demobilization of Crane (crawler) and crane mounted Vibratory Hammer complete rig set.	per set per site	153351.00	153351.00	153351.00	153351.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
09.27	Supplying U-shape hot rolled steel sheet pile of specified sections having chemical composition Phosphorus = 0.04% (Maximum), Sulphur = 0.04% (Maximum), and mechanical properties Tensile strength $\geq$ 490 N/mm ² , Yield strength $\geq$ 296 N/mm ² , Elongation = 15% (Minimum) (according to ASTM Standards), as specified by appropriate means to the construction site and stacking at proper place including loading, unloading, local handling as per specifications, including all taxes, freights, incidental charges etc. complete as per direction of the Engineer-in-charge. U-shape, hot-rolled steel sheet pile width = 400mm to 600mm: height $\geq$ 100mm, length = 12.0m, Thickness $\geq$ 10.5mm, Thickness $\geq$ 13.0mm (± 0.50mm), Thickness $\geq$ 15.5mm (± 0.50mm), Thickness $\geq$ 17.0mm (± 0.50mm) This rate excludes the cost of bed preparation. Sheet piles have to be unloaded on a firm flat base. (Salvage materials shall be the contractor's property after completion of the work, rate is excluding the cost of driving and taking out).	kg	56.00	56.00	56.00	56.00
09.28	Cutting (if necessary) charge of U-type Hot rolled steel sheet piles to design length and shape as per design and specification (thickness, length and mechanical properties) and instruction by all complete as per direction of the Engineer-in-charge.	Each	383.00	383.00	367.00	367.00
09.29	Jointing steel sheet piles (if necessary) of different thickness by welding along width (both sides) and along collars (outside) (i.e. at 4 points) to increase the length of pile as per requirement including necessary modification of the ends to receive the weld, supply of welding materials, equipments and other accessories as per specification and direction of Engineer in charge.	Each	509.00	507.00	490.00	490.00
09.30	Fabrication and construction of corner Joints in steel sheet piles including cutting, welding, shaping as per design and specification and as per requirement including supply of necessary welding materials, equipments and other accessories as per specification and direction of Engineer in charge.	Each	232.00	232.00	227.00	227.00
09.31	Driving steel sheet piles					
09.31.1	Driving steel sheet piles (up to 6.0m depth) of various sections and weights in any type of soil by mechanical device (Crawler Crane having 50 to 55 Ton capacity and Vibratory Hammer etc.) including handling and placing in position, supply of all materials and equipments related with driving of sheet piles, correcting leaning beyond tolerance and other defects etc. all complete as per direction of Engineer in charge (measurement will be taken on projected width x height).	sqm	1140.00	1146.00	1140.00	1140.00
09.31.2	Driving steel sheet piles (beyond 6.0m up to 9.0m depth) of various sections and weights in any type of soil by mechanical device (Crawler Crane having 50 to 55 Ton capacity and Vibratory Hammer etc.) including handling and placing in position, supply of all materials and equipments	sqm	1052.00	1057.00	1053.00	1053.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	related with driving of sheet piles, correcting leaning beyond tolerance and other defects etc. all complete as per direction of Engineer in charge. (Measurement will be taken on projected width x height).					
09.31.3	Driving steel sheet piles (beyond 9.0m up to 12.0m depth) of various sections and weights in any type of soil by mechanical device (Crawler Crane having 50 to 55 Ton capacity and Vibratory Hammer etc.) including handling and placing in position, supply of all materials and equipments related with driving of sheet piles, correcting leaning beyond tolerance and other defects etc. all complete as per direction of Engineer in charge. (Measurement will be taken on projected width x height).	sqm	1026.00	1031.00	1026.00	1026.00
09.32	Lifting steel sheet piles					
09.32.1	Lifting steel sheet piles (up to 6.0m depth) of any section and weights from any type of soil by mechanical device including supply of all equipments etc., handling and placing in stacks etc. all complete as per direction of Engineer in charge. (Measurement will be taken on projected width x height).	sqm	934.00	943.00	935.00	935.00
09.32.2	Lifting steel sheet piles (beyond 6.0m up to 9.0m depth) of any section and weights from any type of soil by mechanical device including supply of all equipments etc., handling and placing in stacks etc. all complete as per direction of Engineer in charge. (Measurement will be taken on projected width x height).	sqm	969.00	977.00	970.00	970.00
09.32.3	Lifting steel sheet piles (beyond 9.0m up to 12.0m depth) of any section and weights from any type of soil by mechanical device including supply of all equipments etc., handling and placing in stacks etc. all complete as per direction of Engineer in charge (measurement will be taken on projected width x height).	sqm	1090.00	1100.00	1091.00	1091.00
09.33	Mobilization & demobilization of joist driving rig	per set per site	9736.00	9736.00	9736.00	9736.00
09.34	Driving joist (up to 6.5m depth) of any sections and weights in any type of soil by mechanical device including handling and placing in position, supply of all materials and equipments related with driving of sheet piles, correcting leaning beyond tolerance and other defects etc. all complete as per direction of Engineer in charge (measurement will be taken on meter).	meter	412.00	407.00	394.00	394.00

..... END OF CHAPTER NINE

CHAPTER 10: STRUCTURAL STEEL WORKS, SHEET ROOFING AND SAFETY CANOPY

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
10.1	Supply and fixing of galvanized anchor bolts of variable dia for rigid frame conforming to ASTM F1554 Grade 55, Galvanized to A153, Class C or equivalent with minimum yield strength of 380 MPa, manual of steel construction by American Institute of Steel Construction (AISC) etc. including the cost of washer & bolts, material testing etc. all complete as per drawing, specification and direction of the Engineer-in-charge.	kg	197.00	197.00	197.00	197.00
10.2	Supply, fabrication and installation of built-up sections i.e. columns, beams, rafters, bracings, struts etc. (up to level-4) from steel plates conforming to ASTM A572, with a minimum yield strength of 345 MPa , including the cost of testing of plates, application of red/grey-oxide primer etc. all complete as per drawing, specification and direction of Engineer-in-charge.	kg	141.00	141.00	141.00	141.00
10.3	Supply, fabrication and installation of built-up sections i.e. columns, beams, rafters, bracings, struts etc. (up to level-4) from steel plates conforming to ASTM A36, with a minimum yield strength of 250 MPa , including the cost of testing of plates, application of red/grey-oxide primer etc. all complete as per drawing, specification and direction of Engineer-in-charge.	kg	137.00	137.00	137.00	137.00
10.4	Supply, fabrication and installation of hot-rolled sections (W, H, I-shape etc.) for columns, beams, rafters, bracings etc. (up to level-4) conforming to ASTM A36, with a minimum yield strength of 250 MPa , including the cost of testing of plates, application of red/grey-oxide primer etc. all complete as per drawing, specification and direction of Engineer-in-charge.	kg	135.00	135.00	135.00	135.00
10.5	Supply, fabrication and installation of hot rolled structural grade steel pipe and tube of any thickness conforming to ASTM A283 with a minimum yield strength of 275 MPa, including the cost of testing, application of red/grey-oxide primer etc. (up to level-4) all complete as per drawing, specification and direction of Engineer-in-charge.	kg	206.00	206.00	206.00	206.00
10.6	Supply, fabrication and installation of hot rolled structural grade steel channel and angle in roof truss or any form of structure of any thickness conforming to ASTM A36 with a minimum yield strength of 250 MPa, including the cost of testing, application of red/grey-oxide primer etc. (up to level-4) all complete as per drawing, specification and direction of Engineer-in-charge.	kg	132.00	132.00	132.00	132.00
10.7	Supply and fabrication of built-up sections for shore piles from steel plates conforming to ASTM A36, with a minimum yield strength of 250 MPa , including the cost of testing of plates, application of red/grey-oxide primer etc. all complete as per drawing, specification and direction of Engineer-in-charge.	kg	70.00	70.00	70.00	70.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	(Salvage materials shall be the contractors property after completion of the work, rate is excluding the cost of driving and taking out).					
10.8	Supply and fabrication of hot rolled structural grade steel Sections of any thickness conforming to ASTM A36 with a minimum yield strength of 250 MPa for shore piling , including the cost of testing, application of red/grey-oxide primer etc. all complete as per drawing, specification and direction of Engineer-in-charge. (Salvage materials shall be the contractors property after completion of work, rate is excluding the cost of driving and taking out).	kg	54.00	54.00	54.00	54.00
10.9	Supply, fabrication, installation and de-installation of built-up sections for shore pile bracing at any level basement work from steel plates conforming to ASTM A36, with a minimum yield strength of 250 MPa , including the cost of testing of plates, application of red/grey-oxide primer etc. all complete as per drawing, specification and direction of Engineer-in-charge. (Salvage materials shall be the contractors property after completion of work).	kg	90.00	90.00	90.00	90.00
10.10	Supply, fabrication, installation and de-installation of built-up sections for shore pile bracing at any level basement work from steel plates conforming to ASTM A572, with a minimum yield strength of 345 MPa , including the cost of testing of plates, application of red/grey-oxide primer etc. all complete as per drawing, specification and direction of Engineer-in-charge. (Salvage materials shall be the contractors property after completion of work).	kg	92.00	92.00	92.00	92.00
10.11	Supply and fixing of connection bolts of variable diameter with nut and washer according to " ASTM A325 Type 1 or equivalent" with $F_u = 720$ MPa, including the cost of testing of bolts, all complete as per drawing, specification and direction of Engineer-In-Charge.	kg	371.00	371.00	371.00	371.00
10.12	Supply and fixing of connection bolts of variable diameter with nut and washer according to " ASTM A307 Type A or equivalent" with $F_u = 414$ MPa, including the cost of testing of bolts, all complete as per drawing, specification and direction of Engineer-In-Charge.	kg	333.00	333.00	333.00	333.00
10.13	Supply and installation of GI purlin & girt of any size (up to level-4) conforming to "ASTM A653" grade 45, with a minimum yield strength of 310 MPa, including the cost of testing of materials, all complete as per drawing, specification and direction of Engineer-in-charge.	kg	169.00	168.00	169.00	169.00
10.14	Supply and fixing of sag rod (up to level-4) conforming to grade 40, with a minimum yield strength of 275 MPa, including the cost of making threads, nuts and washers, red oxide primer etc. all complete as per drawing, specification and direction of Engineer-in-charge.	kg	162.00	162.00	162.00	162.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
10.15	Supply and fixing of cable/wire bracing conforming to "ASTM A475" with a minimum yield strength of 1193 MPa, with I-bolt and hill side washer, all complete as per drawing, specification and direction of Engineer-in-charge.	meter	229.00	229.00	229.00	229.00
10.16	Supplying and fixing of shear stud of variable dia conforming to ASTM A108 or equivalent with minimum yield strength of 275 MPa, including the cost testing, welding etc. all complete as per drawing, specification and direction of Engineer-in-charge.	kg	174.00	174.00	174.00	174.00
10.17	Supply and installation of 0.70 mm thick galvanized decking panel according to ASTM A653, with minimum yield strength of 345 MPa, including all necessary accessories (sheeting screws with washers, sealants etc.), testing of materials etc. all complete as per drawing, specification and direction of Engineer-in-charge.	kg	191.00	191.00	191.00	191.00
10.18	Supply, fabrication and installation of 6 mm thick Chequer Plate conforming to ASTM A572, with minimum yield strength of 345 MPa (up to level-4), including all necessary accessories, testing of materials etc. all complete as per drawing, specification and direction of Engineer-in-charge.	kg	201.00	201.00	201.00	201.00
10.19	Supply and installation of 0.47 mm thick zinc alum color coated profile sheet from local source/China with minimum warranty period of 5 years after installation for roof, wall, capping, flashing, trimming, gutter etc. (up to level-4) conforming to ASTM A792, Grade: 80, AZM150 gm/m ² , including the cost of necessary accessories (sheeting screws with washers, silicon sealant etc.), testing of materials etc. all complete as per drawing specification and direction of Engineer-in-charge.	kg	205.00	205.00	205.00	205.00
10.20	Supply and installation of 0.47 mm thick zinc alum color coated profile sheet of durability class 2 with minimum warranty period of 10 years of durability, for roof, wall, capping, flashing, trimming, gutter etc. conforming to ASTM A792, Grade: 80, AZM150 gm/m ² , including the cost of necessary accessories (sheeting screws with washers, silicon sealant etc.), testing of materials etc. all complete as per drawing specification and direction of Engineer-in-charge (supplier has to produce papers to proof the source of material).	kg	331.00	331.00	331.00	331.00
10.21	Supply and installation of 0.457 mm thick corrugated galvanized iron sheet (Bangladesh made) having min weight 63-65 kg per bundle (2'-6" width, 70 – 72 rft long) fitted and fixed on M.S. sections with 'J' hook or wooden purlin with screws, limpet washers and putty etc. (up to level-4) all complete and accepted by the Engineer-in-charge.	sqm	594.00	593.00	585.00	585.00
10.22	0.27 mm thick galvanized iron plain sheet ridging with 300 mm lap on either side fitted and fixed with galvanized bolts and nuts etc. all complete and accepted by the Engineer-in-charge.					
10.22.1	Galvanized	meter	485.00	484.00	472.00	472.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
10.22.2	Colored	meter	538.00	536.00	524.00	524.00
10.23	Supply and installation of 2.0 mm thick fiber glass sheet (transparent sheet) for roof, wall etc. on M.S. purlin, angle etc. with 'J' hook or screws with washer and putty, all complete as per drawing, specification and direction of Engineer-in-charge (up to level-4).	sqm	1477.00	1476.00	1467.00	1467.00
10.24	1.5 mm thick plain fiberglass sheet ridging with 300 mm lap on either side fitted and fixed with galvanized bolts and nuts etc. all complete and accepted by the Engineer-in-charge.	meter	900.00	898.00	886.00	886.00
10.25	Supply and installation of double bubble foil insulation at wall and roof of nominal thickness of 8 mm conforming to Class A in accordance with the ASTM-E84-09 fire test standard, including the cost of lapping, Scotch tape, adhesive and necessary accessories, all complete as per drawing, specification and direction of Engineer-in-charge.	sqm	258.00	258.00	258.00	258.00
10.26	Premium Synthetic Enamel paint of approved best quality and colour delivered from authorized local agent of the manufacturer (Berger robbialac supergloss synthetic enamel/ Elite lucky seven/ Asian apcolipe premium paint or equivalent brand) in a sealed container, having highly water resistant, high bondability, flexibility property; using specified brand thinner applying to metallic surface by spray in two coats over single coat anti-corrosive coating including cleaning drying, making free from dirt, grease, wax, removing all chalked and scaled materials, all complete in all floors accepted by the Engineer-in-charge. (payment shall be made on structural steel weight basis)	kg	10.00	10.00	10.00	10.00
10.27	Supply and application of Epoxy based corrosion protection paint to the surface of the structural steel members conforming to SA 2.5; the corrosion class shall be C3 in accordance with BS EN ISO 12944-2 and durability class in accordance with BS EN ISO 12944-5; the Steel members to be shot blasted inside the enclosed shot blasting chamber, final coat paint must be applied on site after installation, including the cost of primer, testing and necessary accessories, all complete as per drawing, specification and direction of Engineer-in-charge.	kg	27.00	27.00	27.00	27.00
10.28	Supply and pouring of non-shrink grout to steel column bases conforming to ASTM C109 having compressive strength not less than 45 MPa, including the cost of shutter and necessary accessories, all complete as per drawing, specification and direction of Engineer-in-charge.	cum	151667.00	151667.00	151667.00	151667.00
10.29	Safety Canopy: Supplying temporary safety canopy around construction work place where public safety is likely to be endangered due to construction activities; which shall be made of truss system of steel sections (main frame) at 1800 mm c/c with purlins @ 750 mm c/c, making flooring system by corrugated galvanized iron sheets of thickness 0.45 mm, laying wire mesh net on iron sheets, providing continuous gutter along the edges of the building with downpipe @ 6000	sqm	2496.00	2492.00	2474.00	2474.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	mm c/c, including fitting and fixing in position providing necessary anchors, cables, wires, ties etc. by standard anchoring and welding, nut-bolts etc. all complete and accepted by the Engineer-in-charge.					
10.30	Safety net with G.I Wire: Supply, fabrication, installation and taking out temporary horizontal safety net around construction work place where public safety is likely to be endangered due to construction activities; which shall be made of Chain link net with 24 BWG wire fitted at 15'-0" height horizontally of the outer periphery of the building with 75 mm x 40 mm x 5 mm MS Chanel post and purlin, 20 mm MS Rod and 40 mm x 40 mm x 6 mm MS Angle as ties etc. by standard anchoring and welding, nut-bolts etc. all complete and accepted by the Engineer-in-charge. (Salvage materials shall be the contractors property after completion of work.)	sqm	1598.00	1584.00	1564.00	1564.00
10.31	Safety shed over drive way: Supply, fabrication, installation and taking out temporary horizontal safety shed over the drive way around construction work place where public safety is likely to be endangered due to construction activities; which shall be made of 0.27 mm thick galvanized iron plain sheet fitted at 15'-0" height horizontally over the drive way or path way at the outer periphery of the building with 75 mm x 40 mm x 5 mm M.S Chanel post and purlin, 20 mm MS Rod and 40 mm x 40 mm x 6 mm MS Angle as ties etc. by standard anchoring and welding, nut-bolts etc. all complete and accepted by the Engineer-in-charge. (Salvage materials shall be the contractors property after completion of work.)	sqm	1724.00	1717.00	1688.00	1688.00
10.32	Scaffolding for outside netting of building: Supplying, fitting & fixing scaffolding for outside netting of building with single layer 38 mm dia MS pipe connected each other with minimum 4'-0" centre to centre both direction with 38 mm dia swivel clamp, including fitting and fixing in position providing necessary anchors, wires, ties etc. all complete and accepted by the Engineer-in-charge. (Rate is excluding the cost of netting)	sqm	357.00	357.00	357.00	357.00
10.33	Safety net: Supplying temporary safety net (hessian cloth) around construction work place (along the height of the building) where public safety is likely to be endangered due to construction activities; which shall be supported using scaffolding around the building for brick work/ plaster; including fitting and fixing in position providing necessary anchors, wires, ties etc. all complete and accepted by the Engineer-in-charge. (Rate is excluding the cost of scaffolding)	sqm	52.00	52.00	52.00	52.00
10.34	Supply, fabrication, installation and taking out of 1.2 m height temporary safety fencing at different floor during construction work around the outer periphery of building or around the punch in the floor slab for safety of the worker during construction, which shall be made of 10 mm dia MS Rod @ 450 mm c/c both way welded at each point together with a 12 mm Dia MS Rod as top rail drilled anchored to the	sqm	437.00	437.00	437.00	437.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	floor and sides as necessary all complete and accepted by the Engineer-in-charge. (Salvage materials shall be the contractors property after completion of work.)					
10.35	Providing bearing joints fixed or free with 250 mm x 375 mm x 10 mm M.S. (Grade - A36) plate fitted in the truss angles with 16 mm diameter M.S. rod counter sunk rivets, welded and anchored to 250 x 375 x 10 mm. M.S. plate by two Nos. 19 mm dia M.S. "U" rod embedded in the bed of the lintel around the reinforcement, cleaning and greasing the joints for all floors etc. all complete and accepted by the Engineer-in-charge.	each	3140.00	3132.00	3101.00	3101.00
10.36	Galvanization: Galvanization of finished structural steel built-up and hot rolled finished materials of any shape and size (average thickness not more than 8 mm) conforming to the requirement of the corrosion class C3 and Galvanization shall be performed in accordance with ASTM A123 all complete as per drawing, specification and direction of Engineer-in-charge.	kg	73.00	73.00	73.00	73.00
10.37	Additional Erection and installation charge for items 10.2~10.6 and 10.18 shall be 2% of the gross item rate for every four floor above level-4					

..... END OF CHAPTER TEN

CHAPTER 11: WOOD/ METAL WORKS IN DOOR AND WINDOW FRAME, ROOF TRUSS AND HAND RAIL

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
11.1	Supplying and making door and window frames (Chowkat) for all floors including wall side grove cutting, moulding by CNC machine or any other means with matured seasoned wood of required size including painting two coats of coal tar to the surface in contact with wall, fitting and fixing in position etc. all complete and accepted by the Engineer-in-charge. (All sizes of wood are finished).					
11.1.1	Frame made from seasoned Mehgoni wood (Chemically treated)					
11.1.1.1	Up to Size 0'-2.5" x 0'-6" (finished)	cum	139274.00	138902.00	136637.00	136637.00
11.1.1.2	Size greater than 0'-2.5" x 0'-6" and up to 0'-2.5" x 0'-11" (finished)	cum	121302.00	121096.00	119817.00	119817.00
11.1.2	Frame made from seasoned Garjan/ Jam/Local Sal Wood					
11.1.2.1	Up to Size 0'-2.5" x 0'-6" (finished)	cum	149665.00	144098.00	149626.00	149626.00
11.1.2.2	Size greater than 0'-2.5" x 0'-6" and up to 0'-2.5" x 0'-11" (finished)	cum	131382.00	126136.00	132418.00	132418.00
11.1.3	Frame made from seasoned Chattogram Silkarai/ Azobe/ Okan Loha Kath					
11.1.3.1	Up to Size 0'-2.5" x 0'-6" (finished)	cum	165253.00	164882.00	162616.00	162616.00
11.1.3.2	Size greater than 0'-2.5" x 0'-6" and up to 0'-2.5" x 0'-11" (finished)	cum	146503.00	146297.00	145019.00	145019.00
11.1.4	Frame made from seasoned Local Manjuree/ Jarul					
11.1.4.1	Up to Size 0'-2.5" x 0'-6" (finished)	cum	227603.00	222036.00	227565.00	227565.00
11.1.4.2	Size greater than 0'-2.5" x 0'-6" and up to 0'-2.5" x 0'-11" (finished)	cum	206985.00	201739.00	208021.00	208021.00
11.1.5	Frame made from seasoned Chattogram Teak					
11.1.5.1	Up to Size 0'-2.5" x 0'-6" (finished)	cum	263975.00	258408.00	271678.00	271678.00
11.1.5.2	Size greater than 0'-2.5" x 0'-6" and up to 0'-2.5" x 0'-11" (finished)	cum	242267.00	237020.00	250812.00	250812.00
11.1.6	Frame made from seasoned Myanmar (Burma) Teak					
11.1.6.1	Up to Size 0'-2.5" x 0'-6" (finished)	cum	404263.00	398696.00	406823.00	406823.00
11.1.6.2	Size greater than 0'-2.5" x 0'-6" and up to 0'-2.5" x 0'-11" (finished)	cum	378351.00	373105.00	381907.00	381907.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
11.1.7	Frame made from seasoned Jessore & Other Local Teak					
11.1.7.1	Up to Size 0'-2.5" x 0'-6" (finished)	cum	191232.00	190861.00	188596.00	188596.00
11.1.7.2	Size greater than 0'-2.5" x 0'-6" and up to 0'-2.5" x 0'-11" (finished)	cum	171704.00	171498.00	170219.00	170219.00
11.2.1	Supplying, fitting and fixing M.S. flat bar clamp of 225 mm x 38 mm x 6 mm size having bifurcated ends to door and window frames with necessary screws including cutting grooves in chowkat if necessary and encasing inside the wall with cement concrete (1:2:4) etc. all complete and accepted by the Engineer-in-charge.	each	131.00	130.00	125.00	125.00
11.2.2	Supplying, fitting and fixing M.S. flat bar clamp of 150 mm x 38 mm x 6 mm size having bifurcated ends to door and window frames with necessary rowel plug, screws etc. including cutting grooves in chowkat if necessary etc. all complete and accepted by the Engineer-in-charge.	each	135.00	134.00	129.00	129.00
11.3.1	Supplying, fitting and fixing double leaf metal door frame for all floors made with 38mm x 38 mm x 6 mm M.S. angle fitted with 150 mm long 6 nos. iron clamps of same size M.S. angle (with one end bifurcated) with the vertical members of the frame, fixing the frame in wall with cement concrete (1:2:4), mending good the damages, fixing 6 Nos. of 100 mm long iron hinges with the vertical members of the frame all complete including making holes in walls, cutting, sizing, welding, fabricating, carrying from work-shop to site and local carriage, curing etc. all complete as per plan and drawing and accepted by the Engineer-in-charge.	meter	756.00	755.00	745.00	745.00
11.3.2	Supplying, fitting and fixing single leaf metal door frame for all floors made with 38 mm x 38 mm x 6 mm M.S. angle, fixing 125 mm long 6 nos. iron clamps of same size (with one end bifurcated) with the vertical members of the frame, fixing the frame in wall with cement concrete (1:2:4), mending good the damages, fixing 4 nos. 100 mm size iron hinges with the vertical members of the frame, all complete including making holes in walls, cutting, sizing, welding, fabricating, carriage from workshop to site including local carriage, curing etc. as per plan and drawing etc. all complete and accepted by the Engineer-in-charge.	meter	732.00	731.00	720.00	720.00
11.4	Supplying matured seasoned wood and making roof truss of any size with wall plates as per design including supplying, fabricating and hoisting, scaffolding, fitting and fixing in position with bolts, nuts, painting two coats of coal tar etc. all complete and accepted by the Engineer-in-charge. (All sizes of wood are finished).					
11.4.1	Garjan / Jam/ Local Sal wood	cum	129035.00	124247.00	130135.00	130135.00
11.4.2	Mehgoni	cum	119682.00	119571.00	118444.00	118444.00
11.4.3	Silkarai /Chickrash	cum	143064.00	142952.00	141825.00	141825.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
11.5	Supplying and making hand rail for stair case with matured seasoned wood including necessary grove cutting, moulding by CNC machine or any other means with proper corner, finishing as per design, fitting and fixing in position in all floors etc. all complete and accepted by the Engineer-in-charge.					
11.5.1	Mehgoni wood stair rail	cum	124945.00	124748.00	122490.00	122490.00
11.5.2	Chattogram Silkarai / Chikrashi wood stair rail	cum	148326.00	148130.00	145872.00	145872.00
11.5.3	Chattogram Teak wood stair rail	cum	237176.00	232303.00	244027.00	244027.00
11.5.4	Myanmar(Burma) Teak wood stair rail	cum	363436.00	358563.00	365658.00	365658.00
11.5.5	Jessore & other Local Teak wood stair rail	cum	171708.00	171511.00	169253.00	169253.00

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CHAPTER 12: DOOR-WINDOW SHUTTER & FLY PROOF WIRE-NET SHUTTER

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
12.1	Supplying, fitting and fixing of 38 mm thick well matured seasoned (moisture content should be between 12% to 16%) solid wood single leaf door shutter having stile section 100mm x 38mm, top rail section 125mm x 38mm, lock rail section 100mm x 38mm and bottom rail section 225mm x 38mm (made from minimum 250mm wide plank) with 4nos 100mm long, 3mm thick hinge, 12mm dia 250mm long tower bolt, 12mm dia 200mm long socket bolt, 2nos 150mm long handle, hinged cleats and buffer blocks. All complete in all floors and accepted by the Engineer-in-charge. (All sizes of wood are finished)					
12.1.1.1	Kathal (SS Fittings)	sqm	9293.00	9261.00	9069.00	9069.00
12.1.1.2	Kathal (Brass Fittings)	sqm	9671.00	9640.00	9447.00	9447.00
12.1.2.1	Gamari (SS Fittings)	sqm	8147.00	7887.00	8152.00	8152.00
12.1.2.2	Gamari (Brass Fittings)	sqm	8526.00	8266.00	8531.00	8531.00
12.1.3.1	Chattogram Teak (SS Fittings)	sqm	13874.00	13613.00	14106.00	14106.00
12.1.3.2	Chattogram Teak (Brass Fittings)	sqm	14253.00	13992.00	14484.00	14484.00
12.1.4.1	Myanmar(Burma) Teak (SS Fittings)	sqm	20059.00	19798.00	20064.00	20064.00
12.1.4.2	Myanmar(Burma) Teak (Brass Fittings)	sqm	20437.00	20177.00	20442.00	20442.00
12.2	Supplying, fitting and fixing 38 mm thick well matured seasoned (moisture content should be between 12 to 16%) wooden ornamental special design (both sides) single panel flush door shutter having stile, top rail and lock rail section 125 x 38mm and bottom rail section 225mm x 38mm (made from minimum 250mm wide plank) with 4nos 100mm long, 3mm thick hinge, 12mm dia 250mm long tower bolt, 12mm dia 200mm long socket bolt, 2nos 150mm long handle, hinged cleats and buffer blocks. All complete in all floors and accepted by the Engineer-in-charge. (All sizes of wood are finished)					
12.2.1.1	Chattogram Teak (SS Fittings)	sqm	16121.00	15838.00	16235.00	16235.00
12.2.1.2	Chattogram Teak (Brass Fittings)	sqm	15695.00	15419.00	15877.00	15877.00
12.2.2.1	Myanmar(Burma) Teak (SS Fittings)	sqm	21708.00	21432.00	21654.00	21654.00
12.2.2.2	Myanmar(Burma) Teak (Brass Fittings)	sqm	22120.00	21844.00	22066.00	22066.00
12.3	Supplying, fitting and fixing 38mm thick well matured seasoned (moisture content should be between 12 to 16%) wooden double leaf panel door shutters having stile and top rail section 100mm x 38mm, lock rail section 125mm x 38mm and bottom rail section 225mm x 38mm, paneling 38mm thick both sides raised (made from minimum 250mm wide plank) with 4nos 100mm long, 3mm thick hinge, 12mm					

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	dia 250mm long tower bolt, 12mm dia 200mm long socket bolt, 2nos 150mm long handle, hinged cleats and buffer blocks. All complete in all floors and accepted by the Engineer-in-charge. (All sizes of wood are finished)					
12.3.1.1	Kathal (SS Fittings)	sqm	10200.00	10173.00	9983.00	9983.00
12.3.1.2	Kathal (Brass Fittings)	sqm	11019.00	10992.00	10802.00	10802.00
12.3.2.1	Gamari (SS Fittings)	sqm	8934.00	8654.00	8970.00	8970.00
12.3.2.2	Gamari (Brass Fittings)	sqm	9753.00	9473.00	9790.00	9790.00
12.3.3.1	Chattogram Teak (SS Fittings)	sqm	15264.00	14984.00	15551.00	15551.00
12.3.3.2	Chattogram Teak (Brass Fittings)	sqm	16083.00	15803.00	16370.00	16370.00
12.3.4.1	Myanmar(Burma) Teak (SS Fittings)	sqm	22100.00	21820.00	22136.00	22136.00
12.3.4.2	Myanmar(Burma) Teak (Brass Fittings)	sqm	22919.00	22639.00	22955.00	22955.00
12.4	Supplying, fitting and fixing 38mm thick well matured seasoned (moisture content should be between 12 to 16%) wooden double leaf panel door shutters with 1/4th glazed and 3/4th wooden panel having stile and top rail section 100mm x 38mm, lock rail section 125mm x 38mm, and bottom rail section 225mm x 38mm, paneling 38mm thick both sides raised (made from minimum 250mm wide plank) with 4nos 100mm long, 3mm thick hinge, 12mm dia 250mm long tower bolt, 12mm dia 200mm long socket bolt, 2nos 150mm long handle, hinged cleats and buffer blocks. All complete in all floors and accepted by the Engineer-in-charge. (All sizes of wood are finished)					
12.4.1.1	Kathal (SS Fittings)	sqm	9040.00	9015.00	8849.00	8849.00
12.4.1.2	Kathal (Brass Fittings)	sqm	9168.00	9147.00	8996.00	8996.00
12.4.2.1	Gamari (SS Fittings)	sqm	7461.00	7227.00	7501.00	7501.00
12.4.2.2	Gamari (Brass Fittings)	sqm	8070.00	7837.00	8111.00	8111.00
12.4.3.1	Chattogram Teak (SS Fittings)	sqm	12779.00	12545.00	13031.00	13031.00
12.4.3.2	Chattogram Teak (Brass Fittings)	sqm	13423.00	13189.00	13675.00	13675.00
12.4.4.1	Myanmar(Burma) Teak (SS Fittings)	sqm	18524.00	18289.00	18564.00	18564.00
12.4.4.2	Myanmar(Burma) Teak (Brass Fittings)	sqm	19168.00	18933.00	19208.00	19208.00
12.5	Supplying, fitting and fixing 38 mm thick well matured seasoned (moisture content should be between 12 to 16%) wooden grooved single panel flush door shutter having stile, top rail and horizontal panel section 100mm x 38mm and bottom rail section 250mm x 38mm (made from					

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	Min 250mm wide plank) including keeping 6mm x 12mm even groove all around and minimum 12mm grooved lap to each panel with 4nos 100mm long, 3mm thick hinge, 12mm dia 250mm long tower bolt, 12mm dia 200mm long socket bolt, 2nos 150mm long handle, hinged cleats and buffer blocks. All complete in all floors and accepted by the Engineer-in-charge. (All sizes of wood are finished)					
12.5.1.1	Kathal (SS Fittings)	sqm	9787.00	9752.00	9545.00	9545.00
12.5.1.2	Kathal (Brass Fittings)	sqm	10166.00	10131.00	9924.00	9924.00
12.5.2.1	Gamari (SS Fittings)	sqm	8584.00	8308.00	8583.00	8583.00
12.5.2.2	Gamari (Brass Fittings)	sqm	8963.00	8687.00	8961.00	8961.00
12.5.3.1	Chattogram Teak (SS Fittings)	sqm	14600.00	14325.00	14837.00	14837.00
12.5.3.2	Chattogram Teak (Brass Fittings)	sqm	14979.00	14704.00	15216.00	15216.00
12.5.4.1	Myanmar(Burma) Teak (SS Fittings)	sqm	21098.00	20823.00	21097.00	21097.00
12.5.4.2	Myanmar(Burma) Teak (Brass Fittings)	sqm	21477.00	21201.00	21476.00	21476.00
12.6	Supplying, fitting and fixing 36 mm thick factory made solid wooden door shutter from a reputed manufacturer having manufacturer's warranty made of chemically treated (pressure treatment method) timber (moisture content should be between 12 to 16%) having stile 125mm x 36mm, top and bottom rail 140mm x 36mm and horizontal rail 120mm x 36mm including keeping 5mm x 8mm even groove all around with 4nos 100mm long, 3mm thick hinge, 12mm dia 250mm long tower bolt, 12mm dia 200mm long socket bolt, 2nos 150mm long handle, hinged cleats and buffer blocks. All complete in all floors and accepted by the Engineer-in-charge. (Price includes cost of polishing) (All sizes of wood are finished)					
12.6.1	Commercial solid wooden door (Normal Polish) With SS Fittings	sqm	8353.00	8346.00	8303.00	8303.00
12.6.2	Commercial solid wooden door (Normal Polish) With Brass Fittings	sqm	8692.00	8685.00	8641.00	8641.00
12.7	Supplying, fitting and fixing 36 mm thick factory made solid wooden door shutter (moisture content should be between 12 to 16%) from a reputed manufacturer with manufacturer's warranty having stile 150mm x 36mm, top rail 125mm x 36mm, bottom rail 225mm x 36mm with 4nos 100mm long, 3mm thick hinge, 12mm dia 250mm long tower bolt, 12mm dia 200mm long socket bolt, 2nos 150mm long handle, hinged cleats and buffer blocks. All complete in all floors and accepted by the Engineer-in-charge. (All sizes of wood are finished)					

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
12.7.1.1	Myanmar (Burma) Teak (SS Fittings)	sqm	31301.00	31294.00	31251.00	31251.00
12.7.1.2	Myanmar (Burma) Teak (Brass Fittings)	sqm	31639.00	31633.00	31589.00	31589.00
12.7.2.1	Mahogany (Chemically treated by Pressure treatment method) (SS Fittings)	sqm	10420.00	10413.00	10369.00	10369.00
12.7.2.2	Mahogany (Chemically treated by Pressure treatment method) (Brass Fittings)	sqm	10758.00	10752.00	10708.00	10708.00
12.7.3.1	Beech Wood (SS Fittings)	sqm	19328.00	19321.00	19278.00	19278.00
12.7.3.2	Beech Wood (Brass Fittings)	sqm	19667.00	19660.00	19616.00	19616.00
12.7.4	Added Cost for both side Ultra Violet (UV) Lacquer Polish (One side of door area to be used for measurement)	sqm	4751.00	4751.00	4751.00	4751.00
12.8	Supplying, fitting and fixing of 40mm thick Wood Plastic Composite (WPC) door shutter (minimum inner wall thickness 6mm and hinge side wall thickness 15mm) having door frame section 150mm x 62mm weighing 16.7kg/sqm with 4nos 100mm long, 3mm thick hinge, 1 no round lock, 2nos 150mm long handle, hinged cleats and carrying the same to the site and local carriage etc. All complete in all floors and accepted by the Engineer-in-charge.					
12.8.1	Door Size 6'9" x 2'6"	each	18190.00	18186.00	18158.00	18158.00
12.8.2	Door Size 6'9" x 3'0"	each	21907.00	21904.00	21876.00	21876.00
12.8.3	Door Size 6'9" x 3'4"	each	23706.00	23703.00	23674.00	23674.00
12.9	Supplying, fitting and fixing 36 mm thick and having density 400 kg/cum solid particle board single leaf flush door shutter for all floors for internal use made of well matured mechanical seasoned Rubber (Malaysian timber) or other approved wooden frame having 1.2mm thick veneer pasted on each side by mechanical process with 4nos 100mm long, 3mm thick hinge, 12mm dia 250mm long tower bolt, 12mm dia 200mm long socket bolt, 2nos 150mm long handle, hinged cleats and buffer blocks. All complete in all floors and accepted by the Engineer-in-charge. (All sizes of wood are finished)					
12.9.1.1	Myanmar(Burma) Teak veneered (SS Fittings)	sqm	5683.00	5679.00	5657.00	5657.00
12.9.1.2	Myanmar(Burma) Teak veneered (Brass Fittings)	sqm	6021.00	6018.00	5996.00	5996.00
12.9.2.1	Champ veneered (SS Fittings)	sqm	4325.00	4322.00	4300.00	4300.00
12.9.2.2	Champ veneered (Brass Fittings)	sqm	4664.00	4660.00	4639.00	4639.00
12.9.3.1	Chapalish veneered (SS Fittings)	sqm	4325.00	4322.00	4300.00	4300.00
12.9.3.2	Chapalish veneered (Brass Fittings)	sqm	4664.00	4660.00	4639.00	4639.00
12.9.4.1	Garjan veneered (SS Fittings)	sqm	4488.00	4485.00	4463.00	4463.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
12.9.4.2	Garjan veneered (Brass Fittings)	sqm	4827.00	4823.00	4801.00	4801.00
12.9.5.1	For Formica laminated Door (Commercial Lipping) (SS Fittings)	sqm	6170.00	6167.00	6145.00	6145.00
12.9.5.2	For Formica laminated Door (Commercial Lipping) (Brass Fittings)	sqm	6508.00	6505.00	6483.00	6483.00
12.10	Supplying, fitting and fixing well matured seasoned (moisture content should be between 12 to 16%) wooden fixed louver shutter having 62 mm x 125 mm frame and inner horizontal wooden louver 150 mm x 25 mm (minimum 250 mm wide plank) size spaced @ 50 mm c/c fixed with frame in grooves with 4nos 100mm long, 3mm thick hinge, 12mm dia 250mm long tower bolt, 12mm dia 200mm long socket bolt, 2nos 150mm long handle, hinged cleats and buffer blocks. All complete in all floors and accepted by the Engineer-in-charge. (All sizes of wood are finished).					
12.10.1	Gamari	sqm	11888.00	11410.00	12144.00	12144.00
12.10.2	Chapalish	sqm	13704.00	13226.00	13960.00	13960.00
12.10.3	Chattogram Teak	sqm	23238.00	22760.00	23944.00	23944.00
12.10.4	Myanmar (Burma) Teak	sqm	35497.00	35018.00	35753.00	35753.00
12.11	Supplying, fitting and fixing well matured seasoned (moisture content should be between 12 to 16%) wooden glazed ventilator louver shutter having outer frame section 62 mm x 125 mm with 62 mm x 125 mm vertical divider with inner 50mm x 38mm shutter and with 3 Nos. horizontal 38 mm x 38 mm sash bar in each part (minimum 250 mm wide plank) and inner horizontal glazed louver of size 150 mm x 5mm fixed in frame @ 154 mm c/c by cutting grooves in the frame with 4nos. 100mm long, 3mm thick hinge, 12mm dia 250mm long tower bolt, 12mm dia 200mm long socket bolt, 2nos 150mm long handle, hinged cleats and buffer blocks. All complete in all floors and accepted by the Engineer-in-charge. (All sizes of wood are finished).					
12.11.1	Gamari	sqm	8126.00	7838.00	8237.00	8237.00
12.11.2	Chapalish	sqm	9194.00	8906.00	9305.00	9305.00
12.11.3	Chattogram Teak	sqm	14804.00	14516.00	15179.00	15179.00
12.11.4	Myanmar(Burma) Teak	sqm	22016.00	21728.00	22127.00	22127.00
12.12	Supplying fitting and fixing 38 mm thick well matured seasoned (moisture content should be between 12 to 16%) wooden double leaf glazed door shutters having stiles and rails section 150 mm x 38 mm (made from minimum 250 mm wide plank) and 5 mm glass panes fitted and fixed with wooden batten, putty and nails, 8nos 100mm long, 3mm					

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	thick hinge, 4nos 12mm dia 250mm long tower bolt, 4nos 150mm long handle, hinged cleats and buffer blocks. All complete in all floors and accepted by the Engineer-in-charge. (All sizes of wood are finished).					
12.12.1.1	Chattogram Teak (SS Fittings)	sqm	9030.00	8893.00	9117.00	9117.00
12.12.1.2	Chattogram Teak (Brass Fittings)	sqm	9602.00	9465.00	9688.00	9688.00
12.12.2.1	Silkarai (SS Fittings)	sqm	6769.00	6752.00	6619.00	6619.00
12.12.2.2	Silkarai (Brass Fittings)	sqm	7341.00	7323.00	7190.00	7190.00
12.12.3.1	Myanmar(Burma) Teak (SS Fittings)	sqm	12243.00	12106.00	12212.00	12212.00
12.12.3.2	Myanmar(Burma) Teak (Brass Fittings)	sqm	12814.00	12678.00	12783.00	12783.00
12.13	Supplying, fitting and fixing 38 mm thick well matured seasoned (moisture content should be between 12 to 16%) wooden glazed window shutters having horizontal and vertical sections of 87 mm x 38 mm and sash bar 38 mm x 38 mm (made from minimum 250 mm wide plank) fitted with 3 mm glass panes with putty and nails and provided with 6nos 75mm long hinges, 2nos 150mm tower bolt, 2 nos handle and 2nos 225mm catch hooks. All complete in all floors and accepted by the Engineer-in-charge. (All sizes of wood are finished).					
12.13.1.1	Kathal (SS Fittings)	sqm	7971.00	7948.00	7781.00	7781.00
12.13.1.2	Kathal (Brass Fittings)	sqm	8783.00	8760.00	8593.00	8593.00
12.13.2.1	Gamari (SS Fittings)	sqm	7198.00	7020.00	7162.00	7162.00
12.13.2.2	Gamari (Brass Fittings)	sqm	8010.00	7832.00	7974.00	7974.00
12.13.3.1	Chattogram Teak (SS Fittings)	sqm	11065.00	10888.00	11183.00	11183.00
12.13.3.2	Chattogram Teak (Brass Fittings)	sqm	11877.00	11700.00	11995.00	11995.00
12.13.4.1	Chapalish (SS Fittings)	sqm	7816.00	7639.00	7781.00	7781.00
12.13.4.2	Chapalish (Brass Fittings)	sqm	8629.00	8451.00	8593.00	8593.00
12.13.5.1	Myanmar(Burma) Teak (SS Fittings)	sqm	15242.00	15065.00	15206.00	15206.00
12.13.5.2	Myanmar(Burma) Teak (Brass Fittings)	sqm	16054.00	15877.00	16018.00	16018.00
12.14	Supplying, fitting and fixing 38 mm thick well matured seasoned (moisture content should be between 12 to 16%) wooden window shutters one third glazed and two third raised paneling on both sides having horizontal and vertical sections of 87 mm x 38 mm and sash bars 38 mm x 38 mm (made from minimum 250 mm wide plank) fitted with 3 mm glass panes with putty and nails and provided with 6nos 75mm long hinges, 2nos 150mm tower bolt, 2 nos 100mm					

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	long handle and 2nos 225mm long catch hooks, All complete in all floors and accepted by the Engineer-in-charge. (All sizes of wood are finished).					
12.14.1.1	Kathal (SS Fittings)	sqm	11707.00	11675.00	11453.00	11453.00
12.14.1.2	Kathal (Brass Fittings)	sqm	12576.00	12544.00	12322.00	12322.00
12.14.2.1	Gamari (SS Fittings)	sqm	10318.00	10008.00	10342.00	10342.00
12.14.2.2	Gamari (Brass Fittings)	sqm	11187.00	10878.00	11211.00	11211.00
12.14.3.1	Chattogram Teak (SS Fittings)	sqm	17261.00	16951.00	17560.00	17560.00
12.14.3.2	Chattogram Teak (Brass Fittings)	sqm	18131.00	17821.00	18430.00	18430.00
12.14.4.1	Chapalish (SS Fittings)	sqm	11429.00	11119.00	11453.00	11453.00
12.14.4.2	Chapalish (Brass Fittings)	sqm	12298.00	11989.00	12322.00	12322.00
12.14.5.1	Myanmar(Burma) Teak (SS Fittings)	sqm	24760.00	24450.00	24784.00	24784.00
12.14.5.2	Myanmar(Burma) Teak (Brass Fittings)	sqm	25629.00	25320.00	25653.00	25653.00
12.15.1	Supplying, fitting and fixing steel glazed window shutters for all floors with frames as per design having 25 mm x 25 mm x 5 mm angle section for Chowkat and shutters and 50 mm x 25 mm x 5 mm T- section used for vertical member and 25 mm x 5 mm F.I. bar for making box (combining with angle) and 25 mm x 19 mm x 5 mm T-section used for glass divider including all charges for welding, riveting etc. including cost of supplying all essential fittings like iron hinges, plate handle, pin-stopper, adjustable cleat and clamps including supplying, fitting, fixing 3 mm glass panes by pucca putty, for fitting and fixing the frame, making necessary holes in brick walls and R.C.C works and fitting with C.C. (1:2:4) and mending good the damages including all cost of carriage, workshop charges, electricity and labour for fittings, fixing, curing etc. all complete and accepted by the Engineer-in-charge. (Rate is excluding the costs of painting).	sqm	6993.00	6992.00	6982.00	6982.00
12.15.2	Supplying, fitting and fixing M.S. door shutters made with 38 mm x 38 mm x 6 mm angle outer frame, inner member 25 mm x 6 mm F.I. bar, cladding with 16 BWG M.S. sheet, 04 nos 75 mm long hinge, 02 nos. locking arrangement with 50 mm x 50 mm x 6 mm M.S. angle chowkat including all charges for welding, riveting etc. including cost of supplying all essential fittings like iron hinges, socket bolts, clamps, for fitting and fixing the frame, making necessary holes in brick walls and R.C.C works and fitting with C.C. (1:2:4) and mending good the damages including all cost of carriage, workshop charges, electricity and labour for fittings, fixing, curing etc. all complete and accepted by the Engineer-in-charge. (Rate is excluding the costs of painting).	sqm	7848.00	7812.00	7589.00	7589.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
12.16	Supplying, fitting and fixing steel glazed window shutters for all floors with frames as per design having 19mm x 19mm for making T-section for horizontal dividers of shutters and 25mm x 3mm F.I. bar for middle vertical members of frame including all cost of charges for fabrication and manufacture by welding, riveting, etc. Supplying all essential fittings like 2 nos stopper handle, 300mm long 3 or 2 nos adjustable iron cleats, 6 or 4 nos 50mm long iron pin hinges, 150mm long 4 nos clamps including supplying, fitting, fixing 3mm glass panes by pucca putty, for fitting and fixing frame making necessary holes in brick and R.C.C. wall or member as necessary filling with C.C. (1:2:4) and mending good the damages including all cost of carriage, electricity, workshop charges and labour for fitting, fixing, etc. all complete as per drawing and design and accepted by the Engineer-in-charge. (Rate is excluding the costs of painting)					
12.16.1	With provision for fan-light by providing necessary additional materials, 03 nos adjustable 300 mm long iron cleats and 6 nos 50 mm long iron pin hinges. (total weight of grill without glass panes is min 28.13 kg for 15 sft)	sqm	4556.00	4556.00	4546.00	4546.00
12.16.2	Without provision for fan-light by providing 02 nos adjustable 300 mm long iron cleats and 4 nos 50 mm long iron pin hinges. (total weight of grill without glass panes is min 24.84 kg for 15 sft)	sqm	4260.00	4260.00	4250.00	4250.00
12.17	Manufacturing, supplying fitting and fixing of fixed glazed frame for all floors with outer member of 19mm x 19mm x 19mm x 3mm Z-section and vertical and horizontal dividers of 19mm x 19mm x 3mm T-section including all cost of fabrication and welding, supplying and fixing of 19mm x 19mm x 3mm angle clamps of 150mm long (with one end bifurcated) of required Nos with the frame, fixing the frame in wall with (1:2:4) cement concrete in the hole for clamp after making necessary grooves, supplying and fixing of 3mm glass panes with pucca putty, mending good all damages, painting iron face with two coats of synthetic enamel paint over a coat of anti-corrosive priming of approved colour and quality etc. cost of electricity, workshop charges, carriage etc. all complete as per drawing and accepted by the Engineer-in-charge. [Rate is excluding the cost of painting] (Scope of work of this item is in staircase and over partition wall etc.)	sqm	4207.00	4206.00	4194.00	4194.00
12.18	Supplying, fitting and fixing 25 mm thick wooden double leaf fly proof wire mesh window shutters for all floors with 75 mm x 25 mm vertical and horizontal stile and sash bar of 38 mm x 25 mm section provided with 24 B.W.G. G.I wire mesh netting of 20 mm mesh fitted and fixed with shutter by 12 mm x 12 mm wooden bit, screws, nails, etc. including supply of all necessary fittings such as 2 Nos 150 mm long tower and socket bolt of best quality 4 Nos 75mm long hinges, 2 Nos 150 mm long catch hook and 2 Nos. 100 mm long handle including fitting and fixing the same in position					

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	with frame with supply of necessary screws, nails, etc. complete and accepted by the Engineer-in-charge. (All sizes of wood are finished)					
12.18.1.1	Kathal (SS Fittings)	sqm	6003.00	5984.00	5841.00	5841.00
12.18.1.2	Kathal (Brass Fittings)	sqm	7174.00	7155.00	7011.00	7011.00
12.18.2.1	Chattogram Teak (SS Fittings)	sqm	7986.00	7868.00	8021.00	8021.00
12.18.2.2	Chattogram Teak (Brass Fittings)	sqm	9157.00	9039.00	9192.00	9192.00
12.18.3.1	Myanmar(Burma) Teak (SS Fittings)	sqm	10663.00	10545.00	10600.00	10600.00
12.18.3.2	Myanmar(Burma) Teak (Brass Fittings)	sqm	11834.00	11716.00	11771.00	11771.00
12.19	Supplying, fitting and fixing of well matured wooden louver shutter (Chattogram Teak) having 75.50 mm x 38 mm size all around frame and inner horizontal wooden louver blade 65 mm x 20 mm spaced @ 38 mm c/c, fitted and fixed with 2 nos hinges, 1 no handle and 2 nos magnetic catch. All complete in all floors and accepted by the Engineer-in-charge.					
12.19.1	With SS Fittings	sqm	17090.00	16785.00	17314.00	17314.00
12.19.2	With Brass Fittings	sqm	17389.00	17083.00	17612.00	17612.00
12.20	Supplying, fitting and fixing hydraulic door closer (big size) of approved quality including all necessary tools and accessories etc. all complete and accepted by the Engineer-in-charge.	each	2759.00	2757.00	2740.00	2740.00
12.21	Supplying, fitting and fixing mortice door lock with lever handle of approved quality including all necessary tools and accessories etc. all complete approved and accepted by the Engineer-in-charge.	each	1277.00	1274.00	1245.00	1245.00
12.22	Supplying, fitting and fixing rim/round door lock of approved quality including all necessary tools and accessories etc. all complete and accepted by the Engineer-in-charge.	each	1088.00	1085.00	1056.00	1056.00
12.23	Supplying, fitting and fixing best quality heavy type 19 mm dia and 300 mm long hasp bolt including cutting grooves in door shutter and frames, screws etc. all complete approved and accepted by the Engineer-in-charge.					
12.23.1	SS Hasp Bolt	each	353.00	353.00	347.00	347.00
12.23.2	Brass Hasp Bolt	each	568.00	568.00	561.00	561.00
12.24	Supplying, fitting and fixing of best quality magnetic door holder of approved quality including all necessary tools and accessories all complete and accepted by the Engineer-in-charge.	each	385.00	383.00	372.00	372.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
12.25	Supplying, fitting and fixing approved best quality foreign made stainless steel/brass door viewer/eye viewer from 12 mm to 20 mm diameter with adjustable thickness suitable for fitting from 37 mm to 50 mm thick door shutter in/c all necessary work as per direction and accepted by the Engineer-in-charge.	each	631.00	628.00	605.00	605.00

..... END OF CHAPTER TWELVE.....





CHAPTER 13: WINDOW GRILL, VERANDAH GRILL & NETTING

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
13.1	Supplying, fitting and fixing window grills made of 16 mm dia M.S. rod @ 100 mm c/c fitted with 3 (three) nos. horizontal M.S. flat bar (38 mm x 6 mm) including fabrication, welding, riveting, cost of electricity, workshop charges, carriage, fixing with clamps in wall/RCC member for all floors, finished with anti-corrosive painting (Red-Oxide) etc. complete and accepted by the Engineer-in-charge. (Total weight per sqm should be approx. 19 kg and add or deduct @ 100.00 for each kg/sqm excess or less respectively)	sqm	2957.00	2955.00	2936.00	2936.00
13.2	Supplying, fitting and fixing window grills of any design made of 20 mm x 3 mm mild steel section @ 100 mm c/c with outer frame of 25 mm x 6 mm F.I. bar including fabrication, welding, cost of electricity workshop charges, carriage, cutting grooves, mending good the damages, tools and plants, finished with anti-corrosive painting (Red-Oxide) etc. complete for all floors and accepted by the Engineer-in-charge. (Total weight per sqm should be approx. 10.00 kg. and add or deduct @ 100.00 for each kg/sqm excess or less respectively)	sqm	2014.00	2011.00	1985.00	1985.00
13.3.1	Supplying, fitting and fixing window grills of any design made with 20 mm x 5 mm F.I. bar @ 100 mm c/c as inner and outer section ; including fabricating, welding, cost of electricity and tools and plants, finished with anti-corrosive painting (Red-Oxide), carriage, cutting grooves, mending good the damages etc. complete for all floors accepted by the Engineer-in-charge. (Total weight per sqm should be approx. 11 kg. and add or deduct. @ 100.00 for each kg/sqm excess or less respectively)	sqm	2133.00	2130.00	2104.00	2104.00
13.3.2	Supplying, fitting and fixing window grills of any design made with 20 mm x 5 mm F.I. bar @ 100 mm c/c as inner members but no outer frame ; including fabrication, welding, cost of electricity, workshop charges, carriage, cutting grooves, mending good the damages, tools and plants, finished with anti-corrosive painting (Red-Oxide) etc. complete for all floors accepted by the Engineer-in-charge. (Total weight per sqm should be approx. 9 kg and add or deduct. @ 100.00 for each kg/sqm excess or less respectively)	sqm	1955.00	1952.00	1927.00	1927.00
13.4.1	Supplying, fitting, fixing window grills of any design made with 25 mm x 6 mm F.I. bar @ 100 mm c/c as both outer and inner section ; including fabrication, welding, cost of electricity workshop charges, carriage, cutting grooves, mending good the damages, tools and plants, finished with anti-corrosive painting (Red-Oxide) etc. complete for all floors accepted by the Engineer-in-charge. (Total weight per sqm should be approx. 19 kg and add or deduct @ 100.00 for each kg/sqm excess or less respectively)	sqm	2876.00	2873.00	2848.00	2848.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
13.4.2	Supplying, fitting, fixing window grills of any design made with 25 mm x 6 mm F.I. bar @ 100 mm c/c as inner section but no outer frame ; including fabrication, welding, cost of electricity workshop charges, labour charges for fitting and fixing grills in position, local carriage charges, cutting grooves, mending good the damages, tools and plants, finished with anti-corrosive painting (Red-oxide) etc. complete for all floors accepted by the Engineer-in-charge. (Total weight per sqm should be approx. 16 kg and add or deduct @ 100.00 for each kg/sqm excess or less respectively)	sqm	2561.00	2558.00	2532.00	2532.00
13.4.3	Supplying, fitting, fixing window grills of any design made with 25 mm x 6 mm F.I. bar as outer frame and 20 mm x 5 mm F.I. inner member @ 100 mm c/c ; including fabrication, welding, cost of electricity workshop charges, labour charges for fitting and fixing grills in position, local carriage charges, cutting grooves, mending good the damages, tools and plants, finished with anti-corrosive painting (Red-Oxide) etc. complete for all floors accepted by the Engineer-in-charge. (Total weight per sqm should be approx. 12 kg and add or deduct @ 100.00 for each kg/sqm excess or less respectively)	sqm	2271.00	2268.00	2242.00	2242.00
13.5.1	Supplying, fitting and fixing window grill made of 10 mm x 10 mm M.S. solid bar @ 100mm c/c with outer frame of 38 mm x 6mm F.I. bar and 25 mm x 6 mm F.I. bar for clamp as per design including fabrication, welding, cost of electricity workshop charges, carriage, cutting grooves, mending good the damages, tools and plants, finished with anti-corrosive painting (Red-Oxide) etc. complete for all floors approved and accepted by the Engineer-in-charge. (Total weight per sqm should be approx. 17 kg and add or deduct @ 100.00 for each kg/sqm excess or less respectively)	sqm	2757.00	2754.00	2723.00	2723.00
13.5.2	Supplying, fitting and fixing window grill made of 12 mm x 12 mm M.S. solid bar @ 100mm c/c with outer frame of 38 mm x 6mm F.I. bar and 25 mm x 6 mm F.I. bar for clamp as per design including fabrication, welding, cost of electricity workshop charges, labour charges for fitting and fixing grills in position, local carriage charges, cutting grooves, mending good the damages, tools and plants, finished with anti-corrosive painting (Red-Oxide) etc. complete for all floors approved and accepted by the Engineer-in-charge. (Total weight per sqm should be approx. 19 kg and add or deduct @ 100.00 for each kg/sqm excess or less respectively)	sqm	2904.00	2900.00	2869.00	2869.00
13.5.3	Supply, fitting & fixing window grills made of 10 mm x 10 mm M.S. solid bar @ 100 mm c/c with 25 x 6 mm F.I. Bar for Clamp and no outer frame ; including fabrication, welding, cost of electricity workshop charges, carriage, cutting grooves, mending good the damages, tools and plants, finished with anti-corrosive painting (Red-Oxide) etc. complete for all floors accepted by the Engineer-in-charge.	sqm	2333.00	2331.00	2310.00	2310.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	(Total weight per sqm should be approx. 14 kg and add or deduct @ 100.00 for each kg/sqm excess or less respectively)					
13.5.4	Supply, fitting & fixing window grills made of 12 mm x 12 mm M.S. solid bar @100 mm c/c as inner members but no outer frame , with 25 x 6 mm F.I. Bar for Clamp; including fabrication, welding, cost of electricity workshop charges, carriage, cutting grooves, mending good the damages, tools and plants, finished with anti-corrosive painting (Red-Oxide) etc. all complete for all floors accepted by the Engineer-in-charge. (Total weight per sqm should be approx. 15 kg and add or deduct @ 100.00 for each kg/sqm excess or less respectively)	sqm	2467.00	2465.00	2444.00	2444.00
13.5.5	Supply, fitting & fixing window grills made of 12 mm x 12 mm stainless steel (SS) bar with wall thickness 1.5 mm @ 100 mm c/c as inner frame but no outer frame ; including fabrication, welding, cost of electricity workshop charges, carriage, cutting grooves, mending good the damages, tools and plants, clamps and other necessary accessories for fitting, fixings grills in position, polishing etc. complete for all floors accepted by the Engineer-in-charge.	sqm	3455.00	3452.00	3432.00	3432.00
13.6	Supplying, fitting and fixing veranda grill made of 10 mm dia M.S. rod provided @ 100 mm c/c in any position both ways as per design with outside frame 25 mm x 25 mm x 6 mm M.S. angle including fabricating, welding in each point, painting a coat of anti-corrosive painting (Red-Oxide), including cost of electricity, tools and plants, workshop charges, carriage of the same including cutting groves in the R.C.C. or brick work, mending good the damages with C.C. (1:1.5:3) etc. complete for all floors accepted by the Engineer-in-charge. (Total weight per sqm should be approx. 17 kg and add or deduct @ 100.00 for each kg/sqm excess or less respectively)	sqm	2748.00	2745.00	2726.00	2726.00
13.7	Supplying, fitting and fixing verandah grill made of 10 mm dia M.S. rod provided @ 75 mm c/c in any position both ways as per design with outside frame of 25 mm x 25 mm x 6 mm M.S. angle and F.I. bar clamps including fabricating, welding in each point, painting a coat of anti-corrosive painting (Red-Oxide), including cost of electricity, tools and plants, workshop charges, carriage of the same including cutting groves in the R.C.C. or brick work, mending good the damages with C.C. (1:1.5:3) etc., all complete for all floors accepted by the Engineer-in-charge. (Total weight per sqm should be approx. 21 kg and add or deduct @ 100.00 for each kg/sqm excess or less respectively)	sqm	3136.00	3134.00	3115.00	3115.00
13.8	Supplying, fitting and fixing MS verandah grill as per design and shape with 75 mm x 50 mm MS box with 3 mm wall thickness middle rail (horizontal), one pair 50 mm x 25 mm MS hollow box with 3 mm wall thickness @ 750 mm c/c vertical and 12 mm x 12 mm MS solid bar	sqm	4868.00	4865.00	4844.00	4844.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	@ 75 mm c/c horizontal and providing approx. 750 mm x 750 mm emergency exit with proper locking arrangement (if necessary) as per required measurement including cutting grooves in wall up to 150 mm depth and mending good the damages with C.C. (1:1.5:3), finished with anti-corrosive paint (Red-Oxide painting) etc. complete as per drawing and design and accepted by the Engineer.					
13.9	Supplying, fitting and fixing MS verandah grill as per design and shape with 75 mm x 50 mm MS box with 3mm wall thickness middle rail (horizontal), 50 mm x 25 mm vertical rail with 3 mm wall thickness @ approx. 750 mm c/c, 25 mm x 25 mm MS box with 2 mm wall thickness horizontally @ 100 mm c/c as per required measurement including cutting grooves in wall up to 150 mm depth and mending good the damages with C.C. (1:1.5:3), finished with anti-corrosive paint (Red-Oxide painting) etc. complete as per drawing and design and accepted by the Engineer.	sqm	4755.00	4753.00	4735.00	4735.00
13.10	Supplying, fitting, fixing Jail pattern M.S window grill made of 25 mm dia M.S Plain Rod @ 75 mm c/c fitted and fixed with M.S Angle frame 65 mm x 65 mm x 6 mm size placed 5 Nos. Horizontally and 2 Nos. Vertically including fabricating, welding, drilling, cutting and riveting the F.I bar and M.S angle clamp 10 Nos. including making holes in RCC Column/ Brick wall, fixing the clamps and mending good the damages with C.C. (1:1.5:3), finished with anti-corrosive paint (Red-Oxide painting) etc. all complete as per direction by Engineer-in-Charge.	sqm	9898.00	9892.00	9846.00	9846.00
13.11	Supplying, fitting, fixing Jail pattern M.S Verandah grill made of 20 mm dia M.S Plain Rod @ 100 mm c/c fitted and fixed with M.S Angle frame 50 mm x 50 mm x 6 mm size placed 5 Nos. Horizontally and 2 Nos. Vertically including fabricating, welding, drilling, cutting and riveting the F.I bar and M.S angle clamp 10 Nos. including making holes in RCC Column/ Brick wall fixing the clamps and mending good the damaged with C.C. (1:1.5:3), finished with anti-corrosive paint (Red-Oxide painting) etc. all complete as per direction by Engineer-in-Charge.	sqm	6034.00	6031.00	6008.00	6008.00
13.12	Supplying, Fitting, Fixing Jail pattern M.S grill door made of 25 mm dia M.S Plain Rod @ 75 mm c/c fitted and fixed with M.S Angle frame 65 mm x 65 mm x 6 mm size 7 Nos. placed Horizontally and 2 Nos. Vertically providing 25 mm dia M.S rod of 1200 mm long and 38 thick M.S plate up to a size of 1'-6" x 1'-0" for locking arrangement, 38 mm dia G.I pipe of 1'-0" long for locking) including fabricating, welding, drilling, cutting and riveting the F.I bar and M.S angle clamp 8 Nos. including making holes in wall fixing the clamps and mending good the damaged with C.C. (1:1.5:3) including anticorrosive paint etc. all complete as per direction by the Engineer-in-Charge.	sqm	13094.00	13087.00	13030.00	13030.00
13.13	Supplying, Fitting, Fixing Steel window shutter with frames top portion ventilation (2'-6") and bottom portion (3'-8") outer frame of the window made with 38 mm x 38 mm x 6 mm M.S Angle and middle vertical member of	sqm	9625.00	9609.00	9544.00	9544.00

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	frame made with 38 mm x 38 mm x 6 mm M.S- T and shutter frame made of M.S Angle of same section, ventilation portion paired with 1.5 mm thick M.S sheet fixed @ 38 mm c/c (20 Nos.) and bottom 3'-8" panel portion divided into 3 equal panes with 1.50 mm thick M.S sheet, including fabricating, welding, riveting, provided with necessary fittings like 12 mm dia 150 mm long socket bolt, 300 mm long 25 mm x 6 mm size F.I bar adjustable cleats, 125 mm long 50 mm x 50 mm x 6 mm size M.S angle handle, 300 mm long M.S angle clamp (8 Nos. hinge) including making holes in wall for fixing the clamps and mending good the damages with C.C (1:1.5:3) and a cot of anticorrosive paint etc. all complete as per direction by the Engineer-in-Charge.					

..... END OF CHAPTER THIRTEEN.....





CHAPTER 14: ALUMINIUM DOOR, WINDOW FRAME & GLASS WORKS

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
14.1	Supplying fitting and fixing of aluminium swing door with spandrel as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having 1.5 mm thick wall frame (size 101.60 mm, 44.45 mm), 2.0 mm thick shutter side (size 54 mm, 46 mm), 0.99 mm thick door glass bit (size 16.54 mm, 15.49 mm, 0.115 kg/m), 1.8 mm thick closure section (size 101.60 mm, 42.93 mm), 1.5 mm thick 106.60 mm closure cover (0.392 kg/m), 4 mm thick floor bottom (size 101.60 mm, 12.70 mm, 1 kg/m), 1.8 mm thick shutter bottom (size 82.6 mm, 43.99 mm, 0.60 kg/m), 1.8 mm thick shutter top (size 51 mm, 43.99 mm, 1.88 kg/m) and 2.3 mm to 4.01 mm thick handle (size 101.60 mm, 38.10 mm, 25.40 mm short, 1.35 kg/m), 1.5 mm thick 31.75 mm shutter divider (0.535 kg/m), 1.5 mm thick 7.14 mm spandrel section of all aluminum members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories like swing door closure, swing door lock, swing door mohiar, labour charge, fabrication, fitting fixing in position, carriage and electricity charge keeping provision for fitting 5/6 mm thick glass including neoprene sealant etc. complete in all respect as per drawing and accepted by the Engineer-in-charge.					
14.1.1	Anodized to bronze colour	sqm	8530.00	8519.00	8457.00	8457.00
14.1.2	Powder coated to any colour	sqm	9414.00	9403.00	9340.00	9340.00
14.2	Supplying fitting and fixing of aluminium swing door as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having 1.5 mm thick wall frame (size 101.60 mm, 44.45 mm, 83.21 mm), 2.0 mm thick shutter side (size 54 mm, 46 mm), 0.99 mm thick door glass bit (size 16.54 mm, 15.49 mm, 0.115 kg/m), 1.8 mm thick closure section (size 101.60 mm, 42.93 mm), 1.5 mm thick 106.60 mm closure cover (0.392 kg/m), 4 mm thick floor bottom (size 101.60 mm, 12.70 mm, 1 kg/m), 1.8 mm thick shutter bottom (size 82.6 mm, 43.99 mm, 0.60 kg/m), 1.8 mm thick shutter top (size 51 mm, 43.99 mm, 1.88 kg/m) and 2.3 mm to 4.01 mm thick handle (size 101.60 mm, 38.10 mm, 25.40 mm short, 1.35 kg/m) section of all aluminum members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories like swing door closure, swing door lock, swing door mohiar, labour charge, fabrication, fitting fixing in position, carriage and electricity charge keeping provision for fitting 5 mm thick glass including neoprene sealant etc. complete in all respect as per drawing and accepted by the Engineer-in-charge.					
14.2.1	Anodized to any colour	sqm	7799.00	7790.00	7736.00	7736.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
14.2.2	Powder coated to any colour	sqm	8504.00	8495.00	8441.00	8441.00
14.3	Supplying, fitting and fixing of aluminium composite swing doors with fixed partition as per the U. S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having 1.5 mm thick wall frame (size 101.60, 44.45 mm, 0.86 kg/m), 1.8 mm thick shutter side (size 54 mm, 46 mm, 1.2 kg/m), 0.99 mm thick door glass bit (size 16.54 mm, 14.49 mm, 0.115 kg/m), 1.8 mm thick closure section (size 101.54 mm, 42.93 mm, 1.20 kg/m), 1.5 thick closure cover (101.60 mm, 0.45 kg/m), 4 mm thick floor bottom (size 101.60 mm, 12.70 mm, 1 kg/m), 1.8 mm thick shutter bottom (size 86.60 mm, 43.99 mm, 0.60 kg/m), 1.8 mm thick shutter top (size 51 mm, 43.99 mm, 1.88 kg/m) 2.3mm to 4.01mm thick handle (short) (size 101.60 mm, 38.10 mm, 25.40 mm, 1.35 kg/m), minimum 1.2 mm thick top and side (size 101.60 mm, 44.45 mm, 0.934 kg/m), minimum 1.2 mm thick bottom (size 101.35 mm, 44.45 mm, 0.734 kg/m), minimum 1.2 mm thick bottom cover (44.32 mm, 19.61mm, 0.333 kg/m), minimum 1.2 mm thick groove cover (size 83.21 mm, 16.00 mm, 0.485 kg/m), 0.99 mm thick fixed glass protector (size 39.09 mm, 14.81 mm, 0.188 kg/m), 0.99 mm thick fixed glass protector bit (size 15.75 mm, 14.81 mm, 0.13 kg/m) section of all aluminum members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. (Total weight min 69.699 kg) keeping provision for 5 mm of glass panes with cost including all accessories like swing door clouser, swing door lock, swing door mohair, flush bolt, bolts and nuts including sealants, labour charge for fitting, fixing by angles, screws, mohiar, washer, machinery, cost of fabrication, making the grooves, mending good the damages, electricity etc. complete in all respect as per drawing and accepted by the Engineer-in-charge.					
14.3.1	Anodized to any colour	sqm	4019.00	4015.00	3983.00	3983.00
14.3.2	Powder coated to any colour	sqm	4439.00	4434.00	4403.00	4403.00
14.4	Supplying, fitting and fixing of aluminium sliding doors as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having minimum 1.2 mm thick outer bottom (size 75.50 mm, 17.79 mm, 0.47 kg/m)(size 60 mm, 24 mm, 0.589 kg/m), minimum 1.2 mm thick outer side(size 75.50 mm, 19.90 mm, 0.52 kg/m),minimum 1.2 mm thick shutter lock (size 49.20 mm, 25.80 mm, 0.543 kg/m), minimum 1.2 mm thick inter lock (size 34.40 mm, 32.13 mm, 0.562 kg/m) sections all aluminum members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories like handle, sliding door key lock, sliding door wheel, sliding door mohiar, sliding door neoprene, bolts and nuts including sealants, keeping provision for fitting 5mm thick glass including labour					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	charge for fitting of accessories, making grooves and mending good damages, carriage, and electricity complete in all respect as per drawing and accepted by the Engineer-in-charge. Size up to: 2100 mm x 2100 mm					
14.4.1	Anodized to any colour	sqm	3360.00	3356.00	3311.00	3311.00
14.4.2	Powder coated to any colour	sqm	3899.00	3895.00	3850.00	3850.00
14.5	Supplying, fitting and fixing of aluminium sliding doors with mosquito mesh as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having minimum 1.2 mm thick outer bottom (size 95 mm, 22.39 mm, 0.476 kg/m), minimum 1.2 mm thick outer top (size 95.00 mm, 28.50 mm, 0.749 kg/m), minimum 1.2 mm thick shutter top (size 33 mm, 26.80 mm, 0.42 kg/m), minimum 1.2 mm shutter bottom (size 60 mm, 24.40mm, 0.589 kg/m), minimum 1.2 mm thick outer side(size 95.00 mm, 19.50 mm, 0.591kg/m), minimum 1.2 mm thick shutter lock (size 49.20 mm, 25.80 mm, 0.543 kg/m), minimum 1.2 mm thick inter lock (size 34.40 mm, 32.13 mm 0.562 kg/m), minimum 1.2 mm thick shutter divider (size 31.75 mm, 0.535 kg/m) sections all aluminum members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories like handle, sliding door key lock, sliding door wheel, sliding door mohiar, sliding door neoprene, bolts and nuts including sealants, keeping provision for fitting 5mm thick glass including labour charge for fitting of accessories, making grooves and mending good damages, carriage, and electricity complete in all respect as per drawing and accepted by the Engineer-in-charge. Size up to: 2100 mm x 2100 mm					
14.5.1	Anodized to any colour	sqm	4738.00	4733.00	4681.00	4681.00
14.5.2	Powder coated to any colour	sqm	5586.00	5581.00	5530.00	5530.00
14.6	Supplying, fitting and fixing of aluminium sliding doors with spandrel as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having minimum 1.2 mm thick outer bottom (size 75.50 mm, 17.79 mm, 0.605 kg/m), minimum 1.2 mm thick outer top (size 75.50 mm, 28.50 mm, 0.705 kg/m), minimum 1.2 mm thick shutter top (size 33 mm, 26.80 mm, 0.42 kg/m), minimum 1.2 mm thick shutter bottom (size 60 mm, 24 mm, 0.589 kg/m), minimum 1.2 mm thick outer side(size 75.50 mm, 19.90 mm, 0.52 kg/m), minimum 1.2 mm thick shutter lock (size 49.20 mm, 25.80 mm, 0.543 kg/m), minimum 1.2 mm thick inter lock (size 34.40 mm, 32.13 mm, 0.562 kg/m), minimum 1.2 mm thick shutter divider (size 31.75 mm, 0.535 kg/m) and minimum 1.5 mm thick spandrel (7.14 mm) sections all aluminium members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories like sliding door key lock, sliding door wheel, sliding door mohiar, sliding door neoprene, bolts and nuts including sealants, keeping provision for fitting 5 mm thick glass including labour charge for fitting of accessories, making grooves and mending good damages, carriage, and electricity complete in all respect as per drawing and accepted by the Engineer-in-charge. Size up to: 1800 mm x 2100 mm					
14.6.1	Anodized to any colour	sqm	5114.00	5109.00	5057.00	5057.00
14.6.2	Powder coated to any colour	sqm	5956.00	5951.00	5899.00	5899.00
14.7	Supplying, fitting and fixing of aluminium sliding window as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having minimum 1.2 mm thick outer bottom (size 75.50 mm, 32 mm, 0.605 kg/m), minimum 1.2 mm thick outer top (size 75.50 mm, 28.50 mm, 0.705 kg/m), minimum 1.2 mm thick shutter top (size 33 mm, 26.80 mm, 0.42 kg/m), minimum 1.2 mm thick shutter bottom (size 60mm, 24.40 mm, 0.589 kg/m), minimum 1.2 mm thick outer side (size 75.50 mm, 19.90 mm, 0.52 kg/m), minimum 1.2 mm thick shutter lock (size 49.20 mm, 25.80 mm, 0.543 kg/m) and minimum 1.2 mm thick inter lock (size 34.40 mm, 32.13 mm, 0.562 kg/m) sections all aluminium members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories like sliding door key lock, sliding door wheel, sliding door mohiar, sliding door neoprene, bolts and nuts including sealants, keeping provision for fitting 5 mm thick glass including labour charge for fitting of accessories, making grooves and mending good damages, carriage, and electricity complete in all respect as per drawing and accepted by the Engineer-in-charge.					
14.7.1	Size up to: 1500 mm x 1400 mm.					
14.7.1.1	Anodized to any colour	sqm	3920.00	3913.00	3869.00	3869.00
14.7.1.2	Powder coated to any colour	sqm	4711.00	4704.00	4660.00	4660.00
14.7.2	Size up to: 900 mm x 1400 mm					
14.7.2.1	Anodized to any colour	sqm	5334.00	5324.00	5267.00	5267.00
14.7.2.2	Powder coated to any colour	sqm	6705.00	6695.00	6638.00	6638.00
14.8	Supplying, fitting and fixing of aluminium sliding window with mosquito mesh as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having minimum 1.2 mm thick outer bottom (95.00 mm, 38.00 mm outer bottom, 0.72 kg/m), minimum 1.2 mm thick outer top (95.00 mm, 28.5 mm outer top, 0.75 kg/m), minimum 1.2 mm thick shutter top (size 33					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	mm, 26.80 mm, 0.42 kg/m), minimum 1.2 mm thick shutter bottom (size 60 mm, 24.40 mm, 0.589 kg/m), minimum 1.2 mm thick outer side (95.00 mm, 19.50 mm outer side, 0.591 kg/m), minimum 1.2 mm thick shutter lock (size 49.20 mm 25.80 mm, 0.543 kg/m) and minimum 1.2 mm thick inter lock (size 34.40 mm, 32.13 mm, 0.562 kg/m) sections all aluminium members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories like sliding door key lock, sliding door wheel, sliding door mohiar, sliding door neoprene, bolts and nuts including sealants, keeping provision for fitting 5 mm thick glass including labour charge for fitting of accessories, making grooves and mending good damages, carriage, and electricity complete in all respect as per drawing and accepted by the Engineer-in-charge.					
14.8.1	Size up to: 1524 mm x 1372 mm					
14.8.1.1	Anodized to any colour	sqm	5261.00	5255.00	5208.00	5208.00
14.8.1.2	Powder coated to any colour	sqm	6395.00	6389.00	6342.00	6342.00
14.8.2	Size up to: 1280 mm x 1372 mm					
14.8.2.1	Anodized to any colour	sqm	5990.00	5983.00	5926.00	5926.00
14.8.2.2	Powder coated to any colour	sqm	7250.00	7242.00	7186.00	7186.00
14.8.3	Size up to: 762 mm x 610 mm					
14.8.3.1	Anodized to any colour	sqm	12443.00	12416.00	12262.00	12262.00
14.8.3.2	Powder coated to any colour	sqm	14831.00	14804.00	14650.00	14650.00
14.9	Supplying, fitting and fixing of equal dimension frame (EDF) section aluminium sliding window with mosquito mesh as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having 1.5 mm thick outer bottom (size 91.50 mm, 38.00 mm), 1.5 mm thick outer top (size 91.00 mm, 28.70 mm), 1.5 mm thick shutter top (size 65.00 mm, 27.30 mm), 1.5 mm thick shutter bottom (size 72.20 mm, 24.65 mm), 1.5 mm thick outer side (size 91.50 mm, 28.50 mm), 1.5 mm thick shutter lock (size 65.30 mm, 26.00 mm), 1.5 mm thick shutter inter lock (size 55.20 mm, 26.00 mm), 1.5 mm thick mesh section (size 55.20 mm, 13.20 mm), all aluminium members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories like sliding door key lock, sliding door wheel, sliding door mohiar, sliding door neoprene, bolts and nuts including sealants, keeping provision for fitting fiber mesh including labour charge for fitting of accessories, making grooves and mending good damages, carriage, and electricity complete in all respect as per drawing and accepted by the Engineer-in-charge.					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	Rajshahi, Rangpur
14.9.1	Size up to: 1524 mm x 1372 mm					
14.9.1.1	Anodized to any colour	sqm	6662.00	6650.00	6580.00	6580.00
14.9.1.2	Powder coated to any colour	sqm	6955.00	6949.00	6902.00	6902.00
14.9.2	Size up to: 1280 mm x 1372 mm					
14.9.2.1	Anodized to any colour	sqm	7220.00	7213.00	7157.00	7157.00
14.9.2.2	Powder coated to any colour	sqm	7918.00	7911.00	7854.00	7854.00
14.9.3	Size up to: 762 mm x 610 mm					
14.9.3.1	Anodized to any colour	sqm	14703.00	14675.00	14522.00	14522.00
14.9.3.2	Powder coated to any colour	sqm	16011.00	15984.00	15830.00	15830.00
14.10	Supplying, fitting and fixing of aluminium fixed composite window as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having minimum 1.2 mm thick outer bottom (size 75.50 mm, 32 mm, 0.605 kg/m), minimum 1.2 mm thick outer top (size 75.50mm, 28.50 mm, 0.705 kg/m), minimum 1.2 mm thick shutter top (size 33 mm, 26.80 mm, 0.42 kg/m), minimum 1.2 mm thick shutter bottom (size 60 mm, 24.40 mm, 0.589 kg/m), minimum 1.2 mm thick outer side (size 75.50 mm, 19.90 mm, 0.52 kg/m), minimum 1.2 mm thick shutter lock (size 49.20 mm, 25.80 mm, 0.543 kg/m), minimum 1.2 mm thick inter lock (size 34.40 mm, 32.13 mm, 0.562 kg/m), minimum 1.2 mm thick bottom cover (size 17.40 mm, 31.78 mm, 0.25 kg/m), minimum 1.2 mm thick fixed bottom (size 76.20 mm, 38.10 mm, 0.640 kg/m), minimum 1.2 mm thick grouve cover (size 57.15 mm, 15.88 mm, 0.362 kg/m) and minimum 1.2 mm thick top and side (size 76.20 mm, 38.10 mm, 0.769 kg/m) sections all aluminium members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 micrones in thickness or powder coated to any colour with a coat not less than 25 micrones in thickness and density of 4 mg per square cm etc.including all accessories like sliding door key lock, sliding door wheel, sliding door mohiar, sliding door neoprene, bolts and nuts including sealants, keeping provision for fitting 5 mm thick glass including labour charge for fitting of accessories, making grooves and mending good damages, carriage, and electricity complete in all respect as per drawing and accepted by the Engineer-in-charge. Size up to: 1500 mm x 2100 mm.					
14.10.1	Anodized to any colour	sqm	4199.00	4195.00	4155.00	4155.00
14.10.2	Powder coated to any colour	sqm	4919.00	4915.00	4875.00	4875.00
14.11	Supplying, fitting and fixing of aluminium top hung/casement windows as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having 1.5 mm thick casement outer (size 38.86 mm, 36.36 mm, 0.395kg/m), 1.9					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	mm thick casement shutter (size 47.62 mm, 28.57 mm, 0.692 kg/m), and 1.245 mm thick shutter glass clip (size 15.87 mm, 27 mm, 0.188 kg/m) sections of all aluminium members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories 4-bar hinge, casement handle, bolts and nuts keeping provision for fitting 5 mm thick glass including labour charge for fitting of accessories, making grooves and mending good damages, carriage, and electricity complete in all respect as per drawing and accepted by the Engineer-in-charge.					
14.11.1	Anodized to any colour	sqm	11625.00	11613.00	11469.00	11469.00
14.11.2	Powder coated to any colour	sqm	11844.00	11833.00	11703.00	11703.00
14.12	Supplying fitting and fixing of aluminium corrugated curtain wall as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having minimum 1.2 mm thick bottom cover (size 17.40 mm, 31.78 mm, 0.250 kg/m), minimum 1.2 mm thick fixed bottom (size 76.20 mm, 38.10 mm, 0.640 kg/m), minimum 1.2 mm thick groove cover (size 57.15 mm, 15.80 mm 0.362 kg/m), minimum 1.2 mm thick top and side (size 76.2 mm, 57.15 mm, 0.769 kg/m) and 1.5 mm thick spandrel (7.14 mm) sections of will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories like rivet, screws fixed neoprene etc. complete in all respect as per drawing and accepted by the Engineer-in-charge.					
14.12.1	Size up to: 3000 mm x 2100 mm					
14.12.1.1	Anodized to any colour	sqm	7724.00	7720.00	7678.00	7678.00
14.12.1.2	Powder coated to any colour	sqm	8843.00	8839.00	8797.00	8797.00
14.12.2	Size up to: 3000 mm x 750 mm					
14.12.2.1	Anodized to any colour	sqm	9172.00	9161.00	9091.00	9091.00
14.12.2.2	Powder coated to any colour	sqm	10487.00	10476.00	10405.00	10405.00
14.13	Supplying fitting and fixing of aluminium fixed fan light as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having minimum 1.2 mm thick fixed bottom (size 76.2 mm, 38.10 mm, 0.640 kg/m), minimum 1.2 mm thick (17.40 mm, 31.78 mm bottom cover 0.250 kg/m) and minimum 1.2 mm thick groove cover (size 57.15 mm, 15.80 mm, 0.362 kg/m) and minimum 1.2 mm thick top and side section (76.20 mm, 16 mm, 38.10 mm, 0.769 kg/m) fixed with above mentioned frames and all aluminium members will be anodized to aluminium bronze/silver/ss/black colour with a					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories, neoprene, sealant, nut and bolt etc. complete in all respect as per drawing and accepted by the Engineer-in-charge.					
14.13.1	Anodized to any colour	sqm	6078.00	6050.00	5911.00	5911.00
14.13.2	Powder coated to any colour	sqm	6554.00	6527.00	6387.00	6387.00
14.14	Supplying fitting and fixing of aluminium fixed louver as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having minimum 1.2 mm thick wall frame (size 76.20 mm, 38.10 mm, 0.564 kg/m), 1.5 mm thick louver (size 55.02 mm, 37.39 mm, 0.281 kg/m) and minimum 1.2 mm thick louver outer section (size 39.67 mm, 15.06 mm) and inner inclined aluminium louver section fixed with above mentioned frame and all aluminium members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories, neoprene, sealant, nuts and bolts etc. complete in all respect as per drawing and accepted by the Engineer-in-charge.					
14.14.1	Anodized to any colour	sqm	11183.00	11147.00	10977.00	10977.00
14.14.2	Powder coated to any colour	sqm	12642.00	12606.00	12436.00	12436.00
14.15	Supplying, fitting, fixing of aluminium sliding fly proof Netting shutter as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having 2.0 mm thick outer frame (size 38mm x 38mm), minimum 1.2 mm thick mosquito net shutter frame mesh section (42.2 mm x 13.2mm). All aluminium members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories like wheel, sealant, rubber, bolts and nuts keeping provision for fitting fiber mesh including labour charge for fitting of accessories, making grooves and mending good damages, carriage, and electricity, all complete in all respect as per drawing and accepted by the Engineer-in-charge.					
14.15.1	Anodized to any colour	sqm	3903.00	3902.00	3887.00	3887.00
14.15.2	Powder coated to any colour	sqm	4494.00	4492.00	4477.00	4477.00
14.16	Supplying, fitting and fixing in Aluminium door frames, windows, partitions and curtain wall distortion free glass of approved quality and shade including cost of fitting fixing all necessary accessories etc. complete in all respect as per drawing and accepted by the Engineer-in-charge.					
14.16.1.1.1	5 mm thick tinted glass	sqm	1534.00	1530.00	1514.00	1514.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
14.16.1.1.2	5 mm thick tinted tempered glass	sqm	2460.00	2456.00	2440.00	2440.00
14.16.1.2.1	5 mm thick clear glass	sqm	1263.00	1259.00	1243.00	1243.00
14.16.1.2.2	5 mm thick clear tempered glass	sqm	2560.00	2556.00	2540.00	2540.00
14.16.1.3	5 mm thick ambushed glass	sqm	1249.00	1245.00	1229.00	1229.00
14.16.1.4.1	5 mm thick reflective glass	sqm	1705.00	1701.00	1685.00	1685.00
14.16.1.4.2	5 mm reflective tempered glass	sqm	2959.00	2955.00	2939.00	2939.00
14.16.2.1.1	6 mm thick clear glass	sqm	1534.00	1530.00	1514.00	1514.00
14.16.2.1.2	6 mm thick clear tempered glass	sqm	2959.00	2955.00	2939.00	2939.00
14.16.2.2	6 mm thick ambushed glass	sqm	2674.00	2670.00	2654.00	2654.00
14.16.2.3.1	6 mm thick reflecting glass	sqm	1890.00	1886.00	1870.00	1870.00
14.16.2.3.2	6 mm thick reflecting tempered glass	sqm	2917.00	2912.00	2896.00	2896.00
14.16.3.1	8 mm thick clear glass	sqm	2179.00	2173.00	2152.00	2152.00
14.16.3.2	8 mm thick clear tempered glass	sqm	3960.00	3955.00	3933.00	3933.00
14.16.4.1	10 mm thick clear glass	sqm	2424.00	2418.00	2390.00	2390.00
14.16.4.2	10 mm thick clear tempered glass	sqm	4391.00	4385.00	4357.00	4357.00
14.16.5.1	12 mm thick clear glass	sqm	3180.00	3173.00	3146.00	3146.00
14.16.5.2	12 mm thick clear tempered glass	sqm	6102.00	6095.00	6068.00	6068.00
14.16.6.1	13.52mm (6mm tempered lamination glass + 1.52mm PVB + 6mm tempered lamination glass) foreign made tempered lamination glass	sqm	9333.00	9323.00	9285.00	9285.00
14.16.6.2	13.52 mm (6mm low-E lamination glass + 1.52mm PVB + 6mm lamination glass) foreign made tempered lamination glass	sqm	11684.00	11675.00	11637.00	11637.00
14.16.7.1	17.52 mm (8mm tempered lamination glass + 1.52mm PVB + 8mm tempered lamination glass) foreign made tempered double glazing glass	sqm	11372.00	11359.00	11308.00	11308.00
14.16.7.2	17.52 mm (8mm tempered lamination Low-E glass + 1.52mm PVB + 8mm clear tempered lamination glass) foreign made tempered double glazing glass	sqm	12797.00	12785.00	12733.00	12733.00
14.16.8.1	24mm (6mm tempered glass + 12mm argon gas filled gap + 6mm tempered glass) foreign made tempered double glazing glass with structural foam spacer, seal, desiccant	sqm	8199.00	8185.00	8131.00	8131.00
14.16.8.2	24 mm (6mm clear tempered Low-E glass + 12mm argon gas filled gap + 6mm clear tempered glass) foreign made tempered double glazing glass with structural foam spacer, seal, desiccant	sqm	9482.00	9468.00	9414.00	9414.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
14.17	Supplying, fabrication and Installation of approved colour 4 mm thick Fire Rated Aluminium Composite Panel (Alucobond/Alucopanel/Alpolic or equivalent) of 0.5 mm thick aluminum skin cover both side with 3 coat PVDF on the front face panel sheet and non-combustible mineral filled core/ aluminum hydroxide filled (fr) core, skin cover sheet in Peralumam -100, ENAW -5005 (AlMg1) on the both side (Total weight. 7.60kg/sqm), as per US Architectural Aluminium Manufacturer's Association (AAMA) in column, beam and wall surface providing with 44 mm x 44 mm x 1.5 mm aluminum section including supply of necessary hardwares, consumables, scaffolding etc. fitted with necessary accessories like rivet, screw, rowel bolt etc. all complete in all respect as per drawing and direction of the Engineer-in-charge.	sqm	13414.00	13411.00	13355.00	13355.00
14.18	Supplying, fitting and fixing of aluminium curtain wall with aluminium top hung/ casement windows as per the US Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having 134 mm, 70 mm, 3.5 mm curtain wall sub-mullim outer and inner frame, 3.0 mm thick casement shutter (size 58.40 mm, 37.20 mm, 57.40 mm) 1.2 mm thick shutter glass strips, all aluminium member will be powder coated with coat not less than 1.5 micron in thickness including all accessories 4 bar hinge casement handle, 50 mm x 50 mm x 6 mm aluminium angle, steel rowel bolt, screws, rivets norton tape masking tape, structural sealant, gum bracket rod etc. all complete in all respect as per drawing and direction of the Engineer-in-charge.	sqm	13782.00	13776.00	13690.00	13690.00
14.19	Supplying, fitting and fixing of aluminium curtain wall with aluminium top hung/casement windows as per the US Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having 100 mm, 50mm, 2mm curtain wall sub-mullim outer and inner frame, 3.0 mm thick casement shutter (size 58.40 mm, 37.20 mm, 57.40 mm), 1.2 mm thick shutter glass strips, all aluminium member will be powder coated with coat not less than 25 micron in thickness including all accessories 4 bar hinge casement handle, 50 mm x 50 mm x 6 mm aluminium angle, steel rowel bolt, screws, rivets norton tape masking tape, structural sealant, gum bracket rod etc. all complete in all respect as per drawing and direction of the Engineer-in-charge.	sqm	11115.00	11103.00	10993.00	10993.00
14.20	Supplying, fitting and fixing of aluminium curtain wall and aluminium top hung/ casement windows ad per the US Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having 50 mm, 50 mm, 2 mm curtain wall sub-mullim outer and inner frame, 3.0 mm thick casement shutter (size 58.40 mm, 37.20 mm, 57.40 mm), 1.2 mm thick shutter glass strips, all aluminium member will be powder coated with coat not less than 25 micron in thickness including all accessories 4 bar hinge casement handle, 50 mm x 50 mm x 6 mm aluminium angle, steel rowel bolt, screws, rivets norton tape masking tape, structural sealant, gum bracket rod etc. all complete in all respect as per drawing and direction of the Engineer-in- charge.	sqm	9639.00	9627.00	9516.00	9516.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
14.21	Supplying, fitting and fixing of aluminium curtain wall along with 10 mm thick clear tempered glass as per the US Architectural aluminium Manufacturer's Association (AAMA) Standard Specification and BDS1879:2014 having 115 mm , 64 mm, 3 mm curtain wall sub-mullion outer and inner frame, 3.0 mm thick casement shutter (size 58.40 mm, 37.20 mm, 57.40 mm), 1.2 mm thick shutter glass strips, all aluminium member will be powder coated with coat not less than 25 micron in thickness including all accessories 4 bar hinge casement handle, 50 mm x 50mm x 6mm aluminium angle, steel rowel bolt, screws, rivets norton tape masking tape, structural sealant, gum bracket rod etc. all complete in all respect as per drawing and direction of the Engineer-in-charge.	sqm	12097.00	12091.00	12019.00	12019.00
14.22	Supplying, fitting and fixing of 12 mm thick clear tempered glass wall up to 3.0 m height with vertical fin glass support of same thickness and support shall be at least 1.2 m c/c fixed properly with glass by silicon glue with supply and fittings of all required accessories such as SS u channel, nut bolts, aluminium angle, steel rowel bolt, screws, rivets norton tape masking tape, structural sealant, gum bracket rod etc. all complete in all respect as per drawing and direction of the Engineer-in- charge.	sqm	22107.00	22098.00	22009.00	22009.00
14.23	Supplying, fitting and fixing of 12 mm thick tempered glass wall from 3.0 m to 6.0 m height with spider point fixing joint and vertical fin glass support of same thickness, support shall be at least 1.2 m c/c fixed properly with main glass by silicon glue with supply and fittings of all required accessories such as SS u channel, nut bolts, aluminium angle, steel rowel bolt, screws, rivets norton tape masking tape, structural sealant, gum bracket rod etc. all complete in all respect as per drawing and direction of the Engineer-in-charge.	sqm	22722.00	22717.00	22654.00	22654.00
14.24	Supplying, fitting and fixing of 12 mm thick clear tempered glass wall from 6.0 m to 8.2 m height with spider point fixing joint and vertical/ horizontal fin glass support of double thickness, support shall be at least 2 m c/c fixed properly with main glass by silicon glue with supply and fittings of all required accessories such as SS u channel, nut bolts, aluminium angle, steel rowel bolt, screws , rivets norton tape masking tape, structural sealant, gum bracket rod etc. all complete in all respect as per drawing and direction of the Engineer-in-charge.	sqm	23113.00	23110.00	23051.00	23051.00
14.25	Supplying fitting and fixing of aluminium box fixed louver as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification having 50mm x 25 mm, 1.5 mm thick outer section and horizontally @ 75 mm c/c fixed with above mentined frame and all aluminium members will be anodized to aluminium with a coat not less than 15 micron in thickness and density of 4 mg per square cm etc. including all accessories, neoprene, sealant, nuts and bolts etc. complete in all respect as per drawing and accepted by the Engineer.					
14.25.1	Anodized to any colour	sqm	9004.00	8999.00	8969.00	8969.00
14.25.2	Powder coated to any colour	sqm	10144.00	10139.00	10109.00	10109.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
14.26	Supplying fitting and fixing of aluminium ventilation louver as per the U.S Architectural Aluminium Manufacturer's Association (AAMA) standard specification having 38 mmx 38mm, 2 mm thick outer frame, 39.67 mm x15.06 mm louver outer of minimum 1.2 mm thick and horizontal louver 55.02 mm x 37.39 mm of 1.50 mm thick @ 25 mm c/c fixed with above mentioned frame and aluminium members will be Powder coated colour etc. including all accessories, neoprene, sealant, nuts and bolts etc. complete in all respect as per drawing and accepted by the Engineer.					
14.26.1	Anodized to any colour	sqm	16094.00	16079.00	15978.00	15978.00
14.26.2	Powder coated to any colour	sqm	18074.00	18059.00	17958.00	17958.00

..... END OF CHAPTER FOURTEEN.....





CHAPTER 15: CEMENT PLASTER, FAIR-FACE PLASTER AND POINTING WORKS

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
15.1.1	Minimum 12 mm thick cement sand (F.M. 1.2) plaster (1:4) with fresh cement to both inner-and outer surface of wall, finishing the corner and edges including washing of sand, cleaning the surface, curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) Ground floor.	sqm	324.00	322.00	305.00	305.00
15.1.2	Minimum 12 mm thick cement sand (F.M. 1.2) plaster (1:4) with fresh cement to outer surface of wall , finishing the corner and edges including washing of sand, cleaning the surface, curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) Ground floor.	sqm	344.00	342.00	325.00	325.00
15.2	Minimum 12 mm thick cement sand (F.M. 1.2) plaster with neat cement finishing to plinth wall with cement (1:4) up to 150 mm below ground level including washing of sand, finishing the edges and corners and curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) Ground floor.	sqm	391.00	389.00	369.00	369.00
15.3	Minimum 12 mm thick cement sand (F.M. 1.2) plaster with neat cement finishing to dado with cement (1:4) up to 150 mm including washing of sand, finishing the edges and corners and curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) Ground floor.	sqm	406.00	403.00	384.00	384.00
15.4	Minimum 12 mm thick cement sand (F.M. 1.2) plaster (1:6) having with fresh cement to both inner and outer surface of wall, finishing the edges and corners including washing of sand, cleaning the surface, curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) Ground floor.	sqm	312.00	309.00	292.00	292.00
15.5	Minimum 6 mm thick cement sand (F.M. 1.2) plaster (1:4) with fresh cement to ceiling, R.C.C. columns, beams, surface of stair case, sunshades, cornices, railings, drop wall, louvers, fins and finishing the corners and edges including washing of sand, cleaning the surface, curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) Ground floor.	sqm	309.00	307.00	288.00	288.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
15.6	Minimum 6 mm thick cement sand (F.M. 1:2) plaster (1:3) with fresh cement to ceiling, R.C.C. columns, beams, surface of stair case, sunshades, cornices, railings, drop wall, louvers, fins and finishing the corners and edges including washing of sand, cleaning the surface, curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) Ground floor.	sqm	305.00	303.00	286.00	286.00
15.7	Flush pointing to brick wall with cement sand (F.M. 1:2) mortar (1:2) with cement including raking out the joints, curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) Ground floor.	sqm	207.00	205.00	192.00	192.00
15.8	Rule pointing to brick wall with cement sand (F.M. 1:2) mortar (1:2) with fresh cement and raking out the joints, curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) Ground floor.	sqm	246.00	244.00	229.00	229.00
15.9	Raised or tack pointing work to brick wall with cement sand (F.M. 1:2) mortar (1:2) with fresh cement of minimum 12 mm x 20 mm in size including raking out the joints and necessary scaffolding, curing at least for 7 days, cleaning each and every brick, cutting the bricks with pumice stone where necessary etc. all complete in all floors, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) Ground floor.	sqm	639.00	630.00	593.00	593.00
15.10	Providing drip course or nosing at the edge of sunshade or cornice with cement sand (F.M. 1:2) mortar (1:2) with fresh cement, curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge.	meter	176.00	175.00	163.00	163.00
15.11.1	Making groove in plaster on outside wall up to 50 mm X 6 mm size including scaffolding, curing etc. complete as per drawing and accepted by the Engineer-in-charge.	meter	30.00	30.00	28.00	28.00
15.11.2	Making groove in plaster on outside wall up to 38 mm X 6 mm size including scaffolding, curing etc. complete as per drawing and accepted by the Engineer-in-charge.	meter	46.00	46.00	43.00	43.00
15.12	Minimum 10 mm thick fair face plaster using premix cement plaster (CP2 LGT/Stucco base premix or equivalent); initial background should be 19 mm rough cement plaster (1:4); then after passing 7 days curing time surface of newly constructed rough plaster should be thoroughly cleaned using a stiff brush to remove any dust, loose particles, wood pieces, mould oil etc, then the	sqm	2103.00	2097.00	2046.00	2046.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	background needs to be thoroughly neutralized by applying potable water; Mixing premix cement plaster with water at water/powder ratio according to the specification of the manufacturer to form paste and apply on rough plaster surface; powder for making paste must be mixed with potable water only; apply the paste on the rough plaster surface by trowel to get smooth and shiny surface and cure the finished plaster surface for 2-3 days (3-4 times daily); finally water repellent coating to protect concrete surface; all complete with necessary scaffolding etc. accepted by the Engineer-in-charge. (Rate is excluding the cost of 19 mm thick rough cement plaster and water repellent paint) Ground Floor					
15.13.1	Making groove in fair face plaster on outside wall up to 50 mm X 6 mm size including scaffolding, curing etc. complete as per drawing and accepted by the Engineer-in-charge.	meter	57.00	56.00	54.00	54.00
15.13.2	Making groove in fair face plaster on outside wall up to 38 mm X 6 mm size including scaffolding, curing etc. complete as per drawing and accepted by the Engineer-in-charge.	meter	69.00	69.00	65.00	65.00
15.14	Minimum 1mm thick fair face coating using Master Emaco N 303 Rendroc FC/ Top Crete 220 or equivalent product micro topping skim coat, a high performance single component polymer fortified, colored, cementitious micro topping that can be applied on a variety of horizontal and vertical plaster surfaces; initially background should be thoroughly cleaned using a stiff brush to remove any dust, loose particles, mould oil etc.; then the background needs to be thoroughly neutralized by applying potable water; The ratio of fair face coating and water is 1.5:1 to 2:1 or as required for workability; powder will be mixed with potable water in a drum by blending machine; the mixture can be spread to any horizontal and vertical plaster surface using trowel to get smooth and shiny surface; all complete with necessary scaffolding etc. accepted by the Engineer-in-charge. (Rate is excluding the cost of 19 mm thick rough cement plaster) Ground floor.	sqm	1551.00	1549.00	1538.00	1538.00
15.15.1	Minimum 12mm thick cement sand (F.M-1.2) water proof, damp proof, dry and breathable plaster (1:4) with water proof Izonil Cement (STN-EN -1015-11, Compressive Strength 34 MPa, Max depth of water penetration into hardened plaster is < 1 mm) or equivalent compound to wall surface, finishing the corner and edges including washing of sand, cleaning the surface, scaffolding and curing at least for 3 days, cost of water, electricity and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Izonil Cement/equivalent compound: Water proof, damp proof, dry and breathable cement). Ground Floor	sqm	667.00	665.00	647.00	647.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
15.15.2	Minimum 19mm thick cement sand (F.M. 1.2) water proof, damp proof, dry and breathable plaster (1:4) with water proof Izonil Cement (STN-EN-1015-11, Compressive Strength 34 MPa, Max depth of water penetration into hardened plaster is < 1 mm)/ equivalent compound to wall surface, finishing the corner and edges including washing of sand, cleaning the surface, scaffolding and curing at least for 3 days, cost of water, electricity and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Izonil Cement/equivalent compound: Water proof, damp proof, dry and breathable cement). Ground Floor	sqm	857.00	855.00	836.00	836.00
15.16	Added rate for plaster and all types of pointing for additional floor above ground floor	sqm	15.00	15.00	14.00	14.00
15.17	Pre-cast ventilators of minimum 25 mm thick of any design with cement sand (F.M.1.2) mortar (1:4) fitted and fixed in position, finishing with cement sand (F.M. 1.2) plaster (1:6) including necessary scaffolding and curing, in all floors accepted by the Engineer-in-charge. (Cement: CEM-II/B-M)	sqm	3068.00	3051.00	2870.00	2870.00
15.18	75 mm x 75 mm cornice of brick masonry in cement sand (F.M. 1.2) mortar (1:6) having minimum 12 mm thick cement sand (F.M. 1.2) plaster (1:6) including scaffolding and curing at least for 7 days in all floors accepted by the Engineer-in-charge. (Cement: CEM-II/B-M)	meter	287.00	284.00	266.00	266.00
15.19	Supplying, fitting, fixing of broken and sharp glass 19 mm to 32 mm height, avg. 19 mm width placed at a distance approximately 25 mm center to center, embedding the same to 12 mm to 19 mm thick cement plaster with neat cement finishing including necessary scaffolding approved and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M)	sqm	309.00	308.00	302.00	302.00

..... **END OF CHAPTER FIFTEEN**

CHAPTER 16: PAINTING AND POLISHING

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
16.1.1	Exterior standard acrylic emulsion paint of approved best quality and color having water resisting properties and resistance properties against fungi, fading & flaking delivered from authorized local agent of the manufacturer in a sealed container; applying to exterior surface with surface preparation including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus, mending good the surface defects using sand paper and necessary scaffolding; applying necessary exterior sealer of specified brand on prepared surface; then applying necessary exterior putty of specified brand for levelling, spot filling, crack filling and cutting by sand paper/zero water paper; finally applying 2 coats of exterior emulsion paint spreading by brush/roller/spray & necessary scaffolding etc. up to desired finishing, elapsing specified time for drying or recoating; all complete in all floors and accepted by the Engineer-in-charge.	sqm	282.00	280.00	268.00	268.00
16.1.2	Exterior premium acrylic emulsion paint of approved best quality and color with high performance against dirt picking tendency and efflorescence resistance properties along with water resisting properties and resistance properties against fungi, fading and flaking from authorized local agent of the manufacturer in a sealed container; applying to exterior surface with surface preparation including cleaning drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus, mending good the surface defects using sand paper and necessary scaffolding; applying necessary exterior sealer of specified brand on prepared surface; then applying necessary exterior putty of specified brand for levelling, spot filling, crack filling and cutting by sand paper/zero water paper; finally applying 2 coats of exterior emulsion paint spreading by brush/roller/spray & necessary scaffolding etc. up to desired finishing, elapsing specified time for drying or recoating; all complete in all floors and accepted by the Engineer-in-charge.	sqm	307.00	305.00	294.00	294.00
16.2.1	Interior standard acrylic emulsion paint (plastic or matt finish) of approved best quality and colour delivered from authorized local agent of the manufacturer in a sealed container; applying to interior wall and ceiling with surface preparation including cleaning drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus, mending good the surface defects using sand paper and necessary scaffolding; applying necessary interior sealer of specified brand on prepared surface; then applying necessary interior putty of specified brand for levelling, spot filling, crack filling and cutting by sand paper/zero water paper; finally applying 2 coats of interior emulsion paint spreading by brush/roller/spray& necessary scaffolding etc. up to desired finishing, elapsing specified time for drying or recoating; all complete in all floors and accepted by the Engineer-in-charge.	sqm	265.00	264.00	251.00	251.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
16.2.2	Interior premium acrylic emulsion painting (silky finish) of approved best quality and colour delivered from authorized local agent of the manufacturer in a sealed container; applying to interior wall and ceiling with surface preparation including cleaning drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus, mending good the surface defects using sand paper and necessary scaffolding; applying necessary interior sealer of specified brand on prepared surface; then applying necessary interior putty of specified brand for levelling, spot filling, crack filling and cutting by sand paper/zero water paper; finally applying 2 coats of interior emulsion paint spreading by brush/roller/spray & necessary scaffolding etc. up to desired finishing, elapsing specified time for drying or recoating; all complete in all floors and accepted by the Engineer-in-charge.	sqm	291.00	290.00	277.00	277.00
16.2.3	Interior super premium acrylic emulsion painting (odorless) of approved best quality and colour delivered from authorized local agent of the manufacturer in a sealed container; applying to interior wall and ceiling with surface preparation including cleaning drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus, mending good the surface defects using sand paper and necessary scaffolding; applying necessary interior sealer of specified brand on prepared surface; then applying necessary interior putty of specified brand for levelling, spot filling, crack filling and cutting by sand paper/zero water paper, finally applying 2 coats of interior emulsion paint spreading by brush/roller/spray & necessary scaffolding etc. up to desired finishing, elapsing specified time for drying or recoating; all complete in all floors accepted by the Engineer-in-charge.	sqm	323.00	321.00	309.00	309.00
16.3.1	Standard synthetic enamel paint of approved best quality and colour delivered from authorized local agent of the manufacturer in a sealed container, having high water resistance, high bondability, flexibility property; using specified brand thinner applying to metallic or wooden surface by brush/roller/spray in 2 coats over single coat anti-corrosive coating including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, all complete in all floors and accepted by the Engineer-in-charge.	sqm	235.00	234.00	222.00	222.00
16.3.2	Premium synthetic enamel paint of approved best quality and colour delivered from authorized local agent of the manufacturer in a sealed container, having high water resistance, high bondability, flexibility property; using specified brand thinner applying to metallic or wooden surface by brush/roller/spray in two coats over single coat anti-corrosive coating including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, all complete in all floors and accepted by the Engineer-in-charge.	sqm	245.00	243.00	231.00	231.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
16.4	Interior design paint of approved best quality and colour delivered from authorized local agent of the manufacturer in a sealed container; applying to interior wall and ceiling with surface preparation including cleaning drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus, mending good the surface defects using sand paper and necessary scaffolding; applying necessary interior sealer of specified brand on prepared surface; then applying necessary interior putty of specified brand for levelling, spot filling, crack filling and cutting by sand paper/zero water paper; applying 3 coats of interior design paint; 1st coat on prepared surface, then applying 1 design coat on the 1st coat and finally applying 1 protection coat on the design coat for protecting the design spreading by brush/roller/spray & necessary scaffolding etc. up to desired finishing, elapsing specified time for drying or recoating; all complete in all floors and accepted by the Engineer-in-charge.	sqm	885.00	880.00	842.00	842.00
16.5	Textured paint of approved best quality and colour delivered from authorized local agent of the manufacturer in a sealed container; applying to interior wall and ceiling including surface preparation including cleaning drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus if required must be treated with fungicidal solution, mending good the surface defects using sand paper and necessary scaffolding; applying necessary sealer of specified brand on prepared surface; then applying necessary interior putty of specified brand for levelling, spot filling, crack filling and cutting by sand paper/zero water paper; applying 3 coats of texture paint; 1st coat on prepared surface, then applying 1 texture coat on the 1st coat and finally applying 1 top coat on the texture coat up to desired finishing by brush/roller/spray etc. with necessary scaffolding; all complete in all floors and accepted by the Engineer-in-charge.	sqm	773.00	770.00	750.00	750.00
16.6	Chlorinated rubber paint of approved quality and colour delivered from authorized local agent of the manufacturer in a sealed container; surface preparation including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus (if required must be treated with fungicidal solution) flaking paints, washing the surface with soap water/caustic soda, mending good the surface defects, smoothening the surface by putty, sand papering the surface; applying to concrete surfaces and walls in three coats by brush/roller/spray etc. up to desired finishing, elapsing specified time for drying and re-coating; with necessary scaffolding all complete in all floors and accepted by the Engineer-in-charge.	sqm	391.00	389.00	374.00	374.00
16.7.1	Epoxy enamel paint of approved quality and colour delivered from authorized local agent of the manufacturer in a sealed container; surface preparation including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus (if required must be treated with fungicidal solution) flaking paints, washing the surface with soap water/caustic soda, mending good the	sqm	474.00	471.00	454.00	454.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	surface defects, smoothening the surface by putty, sand papering the surface; applying to Interior concrete surfaces and walls in three coats by brush/roller/spray etc. up to desired finishing; elapsing specified time for drying and recoating; with necessary scaffolding all complete in all floors and accepted by the Engineer-in- charge.					
16.7.2	Epoxy enamel paint of approved quality and colour delivered from authorized local agent of the manufacturer in a sealed container; surface preparation including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus (if required must be treated with fungicidal solution) flaking paints, washing the surface with soap water/caustic soda, mending good the surface defects, smoothening the surface by putty, sand papering the surface; applying to Exterior concrete surfaces and walls in three coats by brush/roller/spray etc. up to desired finishing; elapsing specified time for drying and recoating; with necessary scaffolding all complete in all floors and accepted by the Engineer-in- charge.	sqm	465.00	462.00	445.00	445.00
16.8.1	Silicon based water repellent of approved quality delivered from authorized local agent of the manufacturer in a sealed container; surface preparation including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus, mending good the surface defects using sand paper and necessary scaffolding; applying 3 coats of silicon based water repellent on exposed brick surface/fair face surface spreading by brush/roller/spray & necessary scaffolding etc. up to desired finishing, elapsing specified time for drying or recoating; all complete in all floors and accepted by the Engineer-in-charge.	sqm	264.00	263.00	250.00	250.00
16.8.2	Solvent based water repellent of approved quality delivered from authorized local agent of the manufacturer in a sealed container; surface preparation including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus, mending good the surface defects using sand paper and necessary scaffolding; applying 3 coats of silicon based water repellent on exposed brick surface/ fair face surface spreading by brush/ roller/ spray & necessary scaffolding etc. up to desired finishing, elapsing specified time for drying or recoating; all complete in all floors and accepted by the Engineer-in-charge.	sqm	461.00	459.00	445.00	445.00
16.9.1	Standard French polishing to Wooden board surface by three coats over a coat of priming including putty, cleaning, finishing and polishing with sand paper etc. all complete in all floors and accepted by the Engineer-in-charge.	sqm	444.00	441.00	418.00	418.00
16.9.2	Premium French polishing to door and window frames, shutter and any other wooden surface by three coats over a coat of priming including putty, cleaning, finishing and polishing with sand paper etc. all complete in all floors and accepted by the Engineer-in-charge.	sqm	533.00	529.00	500.00	500.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
16.10	Wood varnishing of approved quality and colour delivered from authorized local agent of the manufacturer in a sealed container using brand specified thinner to door and window frame and shutter in three coats, applied with brush including cleaning oil, grease, dirt, making dry, sand papering, if required washing with weak detergent solution, stripping out the colour straps, finishing the surface, etc. all complete in all floors and accepted by the Engineer-in-charge.					
16.10.1	Yacht	sqm	213.00	212.00	201.00	201.00
16.10.2	Egg-shell	sqm	216.00	214.00	204.00	204.00
16.10.3	Matt	sqm	217.00	215.00	204.00	204.00
16.11	Approved best quality and colour synthetic polyvinyl distemper delivered from authorized local agent of the manufacturer in a sealed container, applying to wall and ceiling with surface preparation including cleaning drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus, mending good the surface defects using sand paper and necessary scaffolding; applying 1 coat of interior sealer of specified brand on prepared surface; then applying 1 coat of interior putty of specified brand for levelling, spot filling, crack filling and cutting by sand paper/zero water paper; finally applying 2 coats of synthetic polyvinyl distemper spreading by brush/roller/spray & necessary scaffolding etc. up to desired finishing, elapsing specified time for drying or recoating; all complete in all floors and accepted by the Engineer-in-charge.	sqm.	219.00	218.00	207.00	207.00
16.12	White washing by three coats, lime mixture prepared at least 12 hours before use, slacking stone lime, supplying of gums, blue, stirring thoroughly, removing the floating materials from the mixer, surface cleaning to free from all foreign materials before application of each coat, applying one vertical and one horizontal wash for each coat and successive coat is to be applied after drying up of previous coat including hair brass, providing necessary scaffolding and cleaning plinth, floors, doors, windows, portions and ventilators by washing, rubbing, oiling if necessary after white wash for all floors including cost of water, electricity and other charges etc. complete in all respect in all floors and accepted by the Engineer-in-charge.	sqm.	25.00	25.00	24.00	24.00
16.13	Colour wash with yellow orchard/any other colour pigment by two coats over a prime coat of white wash, lime mixture prepared at least 12 hours before use, slacking stone lime, supplying of gums, blue, stirring thoroughly, removing the floating materials from the mixer, surface cleaning to free from all foreign materials before application of each coat, applying one vertical and one horizontal wash for each coat and successive coat is to be applied after drying up of previous coat including hair brass, providing necessary scaffolding and cleaning plinth, floors, doors, windows, portions and ventilators by washing, rubbing, oiling if necessary after white wash for all floors including cost of water, electricity and other charges etc. complete in all respect in all floors and accepted by the Engineer-in-charge.	sqm.	29.00	29.00	28.00	28.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
16.14.1	Application of 02 coats of self leveling epoxy compound (3 mm thick) as base coat & finishing coat over a single layer of screed coat (primer) for making smooth floor surface; all chemicals delivered from authorized local agent of the manufacturer in sealed container; materials having high water resistance, high bondability, flexibility property; applying by applicator machine after being mixed by force action mixer elapsing time for drying; surface preparation including surface cleaning from dust, oil or dirt, preparing underlying surface having minimum moisture content, smoothening, finishing & polishing by grinding machine & necessary tools, repairing significant ups/ downs in floor before application with scaffolding, testing charges etc. all complete in all floors approved & accepted by the Engineer-in-charge.	sqm.	2034.00	2031.00	2017.00	2017.00
16.14.2	Application of 02 coats of self leveling epoxy compound (4 mm thick) as base coat & finishing coat over a single layer of screed coat (primer) for making smooth hygienic floor surface; all chemicals delivered from authorized local agent of the manufacturer in sealed container; materials having high water resistance, high bondability, flexibility property; applying by applicator machine after being mixed by force action mixer elapsing time for drying; surface preparation including surface cleaning from dust, oil or dirt, preparing underlying surface having minimum moisture content, smoothening, finishing & polishing by grinding machine & necessary tools, repairing significant ups/ downs in floor before application with scaffolding, testing charges etc. all complete in all floors approved & accepted by the Engineer-in-charge.	sqm.	2429.00	2426.00	2409.00	2409.00
16.14.3	Application of 02 coats of self leveling epoxy compound (5 mm thick) as base coat & finishing coat over a single layer of screed coat (primer) for making smooth floor surface; all chemicals delivered from authorized local agent of the manufacturer in sealed container; materials having high water resistance, high bondability, flexibility property; applying by applicator machine after being mixed by force action mixer elapsing time for drying; surface preparation including surface cleaning from dust, oil or dirt, preparing underlying surface having minimum moisture content, smoothening, finishing & polishing by grinding machine & necessary tools, repairing significant ups/downs in floor before application with scaffolding, testing charges etc. all complete in all floors approved & accepted by the Engineer-in-charge.	sqm.	3341.00	3337.00	3317.00	3317.00
16.15	Standard Duco paint with approved best quality and colour delivered from authorized local agent of the manufacturer in a sealed container, having high water resistance, high bondability, flexibility property; using specified brand thinner applying to metallic or wooden surface by brass/ roller/ spray machine in 2 coats over single coat primer coating including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, all complete in all floors and accepted by the Engineer-in-charge.	sqm.	2157.00	2154.00	2116.00	2116.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
16.16	Lacquer Polish (China or equivalent) of Standard design of wooden surface Top coat, Thinner, Clear sealer, Color pigment etc. complete from authorized local agent of the manufacturer in a sealed container, including paint spray machine etc. including surface cleaning from dust, oil or dirt, smoothening, finishing and polishing with sand paper and necessary tools, scaffolding etc. all complete in all floors approved and accepted by the Engineer.	sqm.	2203.00	2195.00	2121.00	2121.00

..... END OF CHAPTER SIXTEEN.....





CHAPTER 17: LIME TERRACING, ROOF TOP WATER PROOFING FOR GARDEN & SWIMMING POOL

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
17.1.1	Supply and application of non-toxic two components acrylic polymer modified cementitious coating of minimum 1.5 mm thickness for water proofing of roof/ roof garden/ swimming pool which consists of powder and liquid acrylic emulsion; under a protective cover of plaster/ cement concrete/ tiles etc. as per standard specification and accepted by the Engineer-in-charge. (Rate is excluding the cost of protective cover)	sqm	803.00	798.00	787.00	787.00
17.1.2	Supply and application of waterproofing treatment to roofs and terraces using three coats of acrylic based fiber reinforced elastomeric liquid water proofing membrane conforming to relevant ASTM standards product available in market. Surface preparation shall include cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus, mending the surface defects using sandpaper, filling cracks using suitable Crack Seal as necessary. First coat shall be diluted by 30% water and used as self-priming coat for the following two coats, achieving force coverage of 10sqft/ltr. In case of greater surface area, fiber mesh can be used in between the priming coat and second coat, followed by two more coats for better durability. All shall be completed as per manufacturer's specifications & recommendations and accepted by the Engineer-in-charge.					
17.1.2.1	Rate for cover area less than or equal to 500 sqm (without glass fiber mesh)	sqm	1110.00	1106.00	1095.00	1095.00
17.1.2.2	Rate for cover area greater than 500 sqm (with glass fiber mesh of 10 mm X 10 mm grid and weight 110 gm/sqm placed in between first two layers)	sqm	1238.00	1232.00	1221.00	1221.00
17.2	Preparation and making gravel pack for roof top gardening with supply of 25 mm down graded pea gravels including sieving, washing, compacting etc. complete as per standard specification and accepted by the Engineer-in-charge. Ground floor	cum	5193.00	5174.00	4725.00	4725.00
17.2.1	Added rate for gravel pack work in each additional floor above ground floor	cum	61.00	60.00	56.00	56.00
17.3	Supply and application of 19mm thick (9.5 mm X 2 layer) water proof, damp proof, dry and breathable plaster on roof slab/ underground water reservoir/ overhead water reservoir/ basement/ retaining wall with water proof, damp proof, dry and breathable Izonil cement (STN-EN -1015-11, compressive strength 34 MPa, max depth of water penetration into hardened plaster is < 1 mm) or equivalent compound in a proportion of 1:2.4 (Izonil cement or equivalent compound 1: sand 2.4) after cement grouting on existing concrete surface including finishing the corner and edges, washing sand, cleaning the surface scaffolding and curing at least 3 days etc. all completed in all respects as per	sqm	1274.00	1271.00	1253.00	1253.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	direction of Engineering-in-charge. Above mentioned plaster includes glass fiber mesh of 10 mm X 10 mm grid and weight 110 gm/sqm placed in between two layers.					
17.4	Average 100 mm thick finished lime terracing with 20 mm downgraded first class brick chips (khoa), surki from 1st class bricks and minimum lime content 500 kg per 2.83 cubic meter (stone lime brought at site, not being powdered in open air and to be slaked in presence of engineer-in-charge and to be measured in volume three days after slaking for using in the mix) in the proportion 7:2:2 (brick chips:surki:lime) including preparation of the mix on the ground by making a suitable platform under proper polythene cover. Cutting the mix twice daily with limewater (1:10) at least for 7 days until the mix attain desirable consistency. Laying the mix in proper slope, beating the same with standard 'koppa' for minimum 7 days to gain maximum consolidation, making ghoondy and neat finishing with lime Surki mortar (1:2) and curing for 21 days providing polythene cover after each day work and cleaning etc. complete in all respect accepted by the Engineer-in-charge. 1st Floor	cum	19740.00	19612.00	18785.00	18785.00
17.4.1	Added rate for lime terracing work in each additional floor above 1st floor	cum	122.00	120.00	111.00	111.00
17.5.1	25 mm thick ferrocement treatment work for water proofing on roof having minimum cement content relates to mix ratio 1:2 cement conforming to BDS EN-197-1-CEM-I, 52.5N, and best quality coarse sand (F.M. 2.2) including, the supply of all materials, cutting, binding of one layer of 20 BWG galvanized wire mesh having minimum yield strength $f_y = 450$ MPa & having 2 mesh per 25 mm in both ways, clear cover 12 mm at the middle of the ferrocement lining, with washing of sand, chipping, cleaning the surface, watering, grouting, casting, laying on proper level of roof top or floor in panels (1.25 m x 1.25 m). Compaction including leveling, curing at least for 21 days including cost of water, electricity, in all respect as per drawing, design and accepted by the Engineer-in-charge.	sqm	1586.00	1578.00	1538.00	1530.00
17.5.2	25 mm thick ferrocement treatment work for heat and water proofing on roof having minimum cement content relates to mix ratio 1:2 cement conforming to BDS EN-197-1-CEM-I, 52.5N, and best quality coarse sand (F.M. 2.2) including, the supply of all materials, cutting, binding of one layer of 20 BWG galvanized wire mesh having minimum yield strength $f_y = 450$ MPa & having 2 mesh per 25 mm in both ways, clear cover 12mm at the middle of the ferrocement lining, applying 62 mm thick EPS sheet having density 15 kg per cum, with washing of sand, chipping, cleaning the surface, watering, grouting, casting, laying on proper level of roof top or floor in panels (1.25 m x 1.25 m). Compaction including leveling, curing at least for 21 days including cost of water, electricity, in all respect as per drawing, design and accepted by the Engineer-in-charge.	sqm	1997.00	1988.00	1945.00	1937.00

..... END OF CHAPTER SEVENTEEN.....

CHAPTER 18: FALSE CEILING, WALL PANELING & ACOUSTIC ITEMS

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
18.1.1	Supplying, fitting and fixing plain Particle board ceiling (Drop/ Plain) (complying unit wt. 499 to 550 kg/m ³ , bending strength 0.35 N/mm ² , max swelling 8%, moisture content not more than 10%), of 12 mm thick with best quality and well seasoned Garjan wood frame of section 50 mm x 38 mm at 600 mm x 600 mm in grid suspended from ceiling or roof or beam by 12 SWG double ply G.I. wire fixed to the ceiling by rowel plug, screws, hooks, nails etc., maintaining straight lines and desired finished level at bottom face including vertical strut as required, cutting holes in slabs or beams by electric drill machine and mending good the damages, if any during execution of the work, including the provisions of lighting arrangement, also including cost and carriage of all materials, accessories, labour for installation, electricity charge, scaffolding, screws, nails, with best quality and approved colour etc. all complete, as per drawing design and accepted by the Engineer-in-charge. All sizes of wood are finished. All Garjan wood frames must be protected from termites, cockroach and other insects. Measurement will be taken as per finished surface area. The brick/ RCC surface shall be dry and damp proof. (Rate is excluding cost of polish/ paint etc. of any type).	sqm	2910.00	2853.00	2841.00	2841.00
18.1.2	Supplying, fitting and fixing of Melamine/ Plain gypsum/ veneered board false ceiling (Drop/ Plain) laminated by mechanical hot press milk white PVC membrane , framing by aluminium/ powder coated aluminium T-bar of any colour and of natural anodized finish suspended in 600 mm x 600 mm grid from ceiling by 12 SWG double ply wire, fixed to the ceiling by rowel plug, screws, hooks, nails etc., maintaining straight lines and desired finished level at bottom face including vertical wooden strut as required, making holes in slabs or beams by electric drill machine and mending good the damages, if any during execution of the work, including the provisions of lighting arrangement, also including cost of all materials, electricity, accessories, scaffoldings, labour for installation, screws, nails, etc. all complete as per drawing, design and accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area. (Rate is excluding cost of polish/ paint etc. of any type where necessary).					
18.1.2.1	12 mm thick melamine board ceiling	sqm	2053.00	2048.00	2003.00	2003.00
18.1.2.2	8 mm thick melamine board ceiling	sqm	1630.00	1625.00	1579.00	1579.00
18.1.2.3	9 mm thick plain gypsum board ceiling	sqm	2335.00	2329.00	2281.00	2281.00
18.1.2.4	12 mm thick plain gypsum board ceiling	sqm	2416.00	2411.00	2362.00	2362.00
18.1.2.5	12 mm thick veneered board ceiling	sqm	3231.00	3210.00	3102.00	3102.00
18.1.3	Supplying, fitting & fixing of 12 mm thick BT ply board/ garjan ply board ceiling (Drop/ Plain) screwed up with best quality and well seasoned 50 mm x 38 mm Garjan Wooden					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	Frame at 600 mm x 600 mm in grid suspended from ceiling roof or beam by 12 SWG double ply G.I wire fixed to the ceiling by M.S clumps, screws, hooks, nails etc. maintaining straight lines and desired finished level at bottom face including vertical strut as required, cutting holes in slabs or beams by electric drill machine and mending good the damages, if any during execution of the work, including the provisions of lighting arrangement, also including cost and carriage of all materials, accessories, installation, electricity charge, scaffolding, labour for installation with and necessary hardware all complete, as per drawing design and accepted by the Engineer-in-charge. All sizes of wood are finished. All Garjan wood frames must be protected from termites, cockroach and other insects. Measurement will be taken as per finished surface area. The brick/ RCC surface shall be dry and damp proof. (Rate is excluding cost of polish/ paint etc. of any type).					
18.1.3.1	12 mm thick BT Ply board ceiling	sqm	3149.00	3102.00	3139.00	3139.00
18.1.3.2	12 mm thick Garjan Ply board ceiling	sqm	2595.00	2548.00	2585.00	2585.00
18.1.4	Supplying, fitting and fixing 12 mm thick plain fire rated gypsum board ceiling (Drop/ Plain) (size 1200 mm x 2400 mm), framing by aluminium/ powder coated aluminium any colour T-bar of natural anodized finish suspended in 600 mm x 600 mm grid from ceiling by 12 SWG double ply wire, fixed to the ceiling by rowel plug, screws, hooks, nails etc., maintaining straight lines and desired finished level at bottom face including vertical wooden strut as required, making holes in slabs or beams by electric drill machine and mending good the damages, if any during execution of the work, including making provisions for lighting arrangement, also including cost of all materials, electricity, accessories, scaffoldings, labour for installation, screws, nails, etc. all complete as per drawing, design and accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area.	sqm	2840.00	2824.00	2779.00	2779.00
18.1.5	Supplying, fitting and fixing of Perforated gypsum board false ceiling (Drop/ Plain) , framing by aluminium/ powder coated aluminium any colour T-bar of natural anodized finish suspended in (600 mm x 600 mm)/ (600 mm x 1200 mm) grid from ceiling by 12 SWG double ply wire, fixed to the ceiling by rowel plug, screws, hooks, nails etc., maintaining straight lines and desired finished level at bottom face including vertical wooden strut as required, making holes in slabs or beams by electric drill machine and mending good the damages, if any during execution of the work, including the provisions of lighting arrangement, also including cost of all materials, electricity, accessories, scaffoldings, labour for installation, screws, nails, etc. all complete as per drawing, design and accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area.					
18.1.5.1	9 mm thick perforated gypsum board ceiling (600 mm x 600 mm grid)	sqm	2376.00	2370.00	2321.00	2321.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
18.1.5.2	8 mm thick perforated gypsum board ceiling (600 mm x 600 mm grid)	sqm	2253.00	2248.00	2199.00	2199.00
18.1.5.3	8 mm thick perforated gypsum board ceiling (600 mm x 1200 mm grid)	sqm	2373.00	2368.00	2319.00	2319.00
18.1.6	Supplying, fitting and fixing of best quality PVC board false ceiling (Drop/ Plain) of size 600 mm x 600 mm of approved design, minimum PVC content of 35%, framing by aluminium/ powder coated aluminium T-bar of any colour and of natural anodized finish suspended in 600 mm x 600 mm grid from ceiling by 12 SWG double ply wire, fixed to the ceiling by rowel plug, screws, hooks, nails etc., maintaining straight lines and desired finished level at bottom face including vertical wooden strut as required, making holes in slabs or beams by electric drill machine and mending good the damages, if any during execution of the work, including the provisions of lighting arrangement, also including cost of all materials, electricity, accessories, scaffoldings, labour for installation, screws, nails, etc. all complete as per drawing, design and accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area.					
18.1.6.1	6 mm thick PVC board false ceiling	sqm	2559.00	2538.00	2491.00	2491.00
18.1.6.2	8 mm thick PVC board ceiling	sqm	2695.00	2674.00	2627.00	2627.00
18.1.7	Supplying, fitting and fixing of 0.6 mm thick best quality solid aluminium metal board false ceiling (drop/ plain) of size 600 mm x 600 mm, powder coated of approved design, framing by aluminium T-bar of natural anodized finish suspended in 600 mm x 600 mm grid from ceiling by 12 SWG double ply wire, fixed to the ceiling by rowel plug, screws, hooks, nails etc., maintaining straight lines and desired finished level at bottom face including vertical wooden strut as required, making holes in slabs or beams by electric drill machine and mending good the damages, if any during execution of the work, including the provisions of lighting arrangement, also including cost of all materials, electricity, accessories, scaffoldings, labour for installation, screws, nails, etc. all complete as per drawing, design and accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area.	sqm	3331.00	3315.00	3277.00	3277.00
18.1.8	Supplying, fitting and fixing of 0.6 mm thick best quality perforated aluminium metal board (including tissue/ fabric) false ceiling (Drop/ Plain) of size 600 mm x 600 mm, powder coated of approved design, inner side is covered by black tissue/ fabric to protect the hole from air circulation, framing by aluminium/ powder coated aluminium T-bar of any colour and of natural anodized finish suspended in 600 mm x 600 mm grid from ceiling by 12 SWG double ply wire, fixed to the ceiling by rowel plug, screws, hooks, nails etc., maintaining straight lines and desired finished level at bottom face including vertical wooden strut as required, making holes in slabs or beams by electric drill machine and mending good the damages, if any during execution of the work, including the provisions of lighting arrangement, also including cost of all materials, electricity, accessories,	sqm	3019.00	3003.00	2965.00	2965.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	scaffoldings, labour for installation, screws, nails, etc. all complete as per drawing, design and accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area.					
18.1.9	Supplying, fitting & fixing of designed seamless false ceiling (Drop/ Plain) with 6 mm thick fiber cement board, framing by furring channel (38 mm x 12.5 mm x 0.5 mm) G. I. angle (19 mm x 19 mm x 0.5 mm) suspended in 600 mm x 600 mm grid from ceiling using G.I fitting angle, locking clips etc. including cost of all materials, electricity, accessories, scaffoldings, labour for installation, screws, nails etc. all complete as per drawing, design and accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area. (Rate is excluding cost of polish/ paint etc. of any type).	sqm	3504.00	3483.00	3423.00	3423.00
18.2.1	Supplying, fitting and fixing 12 mm thick burma teak (BT) veneered board/ ply board/ particle board in walling with best quality and well seasoned garjan wood frame of section of 50 mm x 25 mm at 600 mm x 600 mm in grid, including grove where necessary, fitted and fixed to wall by plugs, nails, screws etc. maintaining leveled and finished exposed faces including making holes in wall and mending good the damages, if any during execution of the work, including the provisions of lighting arrangement, also including cost and carriage of all materials, electricity, accessories, labour for installation, scaffolding, screws, nails etc. all complete as per design, approved sample and accepted by the Engineer-in-charge. All sizes of wood are finished. All Garjan wood frames must be protected from termites, cockroach and other insects. Measurement will be taken as per finished surface area. The brick/ RCC surface shall be dry and damp-proof. (Rate is excluding cost of polish/ paint etc. of any type).					
18.2.1.1	12 mm thick Myanmar (Burma) teak (BT) veneered board in walling	sqm	2797.00	2763.00	2741.00	2741.00
18.2.1.2	12 mm thick BT ply board walling	sqm	3184.00	3174.00	3116.00	3116.00
18.2.1.3	12 mm thick particle board walling	sqm	2412.00	2372.00	2340.00	2340.00
18.2.2	Supply fitting and fixing of 0.8 mm HPL sheet lamination (one surface only) over 12mm thick MDF board wall paneling with best quality and well seasoned garjan wood frame of section 38 mm x 38 mm at 600 mmx 600 mm in grid, including grove where necessary, fitted and fixed to wall by royal plugs, nails, screws etc. maintaining leveled and finished exposed faces including making holes in wall and mending good the damages, if any during execution of the work, including the provisions of lighting arrangement, also including cost and carriage of all materials, electricity, accessories, labour for installation, scaffolding, screws, nails etc. all complete as per design, approved sample and accepted by the Engineer-in-charge. (All sizes of wood are finished). All Garjan wood frames must be protected from termites, cockroach and other insects. Measurement will be taken as per finished surface area. The brick/ RCC surface shall be dry and damp proof.	Sqm	4444.00	4403.00	4356.00	4356.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
18.3.1	Supplying, fitting and fixing best quality wall paper along with 12 mm thick PVC solid board in walling with furring channel frame (38 mm x 12.5 mm x 0.5 mm) at 600 mm x 600 mm in grid, including grove where necessary, fitted and fixed to wall by plugs, nails, screws etc. including treatment of inner surface with termite and damp proofing agent maintaining leveled and finished exposed faces including making holes in wall and mending good the damages, if any during execution of the work, also including cost and carriage of wall paper and other materials, electricity, accessories, labour for installation, scaffolding, screws, nails etc. all complete as per design, approved and accepted by the Engineer-in-charge.	sqm	3574.00	3571.00	3560.00	3560.00
18.3.2	Supplying, fitting and fixing best quality wall paper on finished plaster surface including wall preparation cost and carriage of wall paper and other materials, electricity, accessories, labour for installation, scaffolding, screws, nails etc. all complete as per design, approved and accepted by the Engineer-in-charge.	sqm	1176.00	1172.00	1166.00	1166.00
18.4.1	Supplying, fitting and fixing of wooden louver in ceiling made of 12 mm Burma teak (BT) ply board , louver of any size and spacing framing with MS "U" bar/ channel, fixed to the ceiling by thread rod, nails, plugs, screws maintaining parallel louver with straight line/ desired finishing level at bottom face, necessary hardwares, including making holes in slabs and/ beams by electric drill machine and mending good the damages, if any during execution of the work, also including cost of all materials, electricity, accessories, scaffolding, labour for installation etc. all complete as per drawing, design and accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area. All Garjan wood frames must be protected from termites, cockroach and other insects. The brick/ RCC surface shall be dry and damp-proof. (Rate is excluding cost of polish/ paint etc. of any type).	Sqm	7378.00	7372.00	7358.00	7358.00
18.4.2	Supplying fitting and fixing Ornamental design Louver in Ceiling with 18mm Burma Teak (BT) Veneer board fitted in drop Ceiling with garjan wood framing of size 50 mm x 50 mm and 50 mm x 25 mm and with 50 mm ctg. teak wood as longitudinal rib, 18mm BT Veneered board as cross rib of any spacing the design louver fixed in drop ceiling wall by plugs, nails, screws, gum, etc. maintaining leveled and finished exposed faces including, 18 mm PVC edging, making holes in wall including provisions for lighting arrangement and mending good the damages, if any, during execution of the work including all materials electricity, accessories, labour for installation, Scaffolding, etc. as per drawing design & approved sample and accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area. All Garjan wood frames must be protected from termites, cockroach and other insects. The brick/ RCC surface shall be dry and damp-proof. (Rate is excluding cost of polish/ paint etc. of any type).	sqm	9455.00	9268.00	9612.00	9612.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
18.4.3	Supplying, fitting and fixing of M.S. fixed louver made of 25 mm x 25 mm x 5 mm M.S. Angle as outer frame, 2 mm thick 25 mm x 18 mm MS sheet box section at 75 mm c/c as internal horizontal member fixing with outer frame including scaffolding, rowel bolt, anchoring, welding, grinding, welder, helper and all accessories complete in all respect as per drawing and accepted by the Engineer-in-charge. (Rate is excluding cost of polish/ paint etc. of any type).	sqm	8821.00	8821.00	8821.00	8821.00
18.4.4	Supplying, fitting, fixing of louver wall panel made of 18 mm Burma teak (BT) veneered board of any size, including garjan wood frame of section 50 mm x 38 mm at 250 mm spacing, fitted & fixed to wall by nails, iron screw, 38mm brass screw, gum, glue etc., maintaining vertical parallel louver and finished exposed faces, including making holes in walls and mending good the damages, if any during execution of the work, including provisions for lighting arrangement, including groove cutting of any size, also including cost of carriage of all materials, electricity, accessories, labour of installation, scaffolding etc. all complete as per design, approved sample and excepted by the Engineer-in-charge. Measurement will be taken as per finished surface area. All Garjan wood frames must be protected from termites, cockroach and other insects. The brick/ RCC surface shall be dry and damp proof. (Rate is excluding cost of polish/ paint etc. of any type).	sqm	6915.00	6873.00	6912.00	6912.00
18.4.5	Supplying, fitting, fixing of louver wall panel made of 18 mm Burma teak (BT) veneered board of any size, including garjan wood frame of section 50 mm x 38 mm at 250 mm spacing, fitted & fixed to wall by nails, iron screw, 38 mm brass screw, gum, glue etc., maintaining vertical parallel louver and finished exposed faces, including making holes in walls and mending good the damages, if any during execution of the work, including provisions for lighting arrangement, including groove cutting of any size, also including cost of carriage of all materials, electricity, accessories, labour of installation, scaffolding, including CNC jali cutting and boxes, punch, grooving, ornamental bit or any type of special design of walling as per architectural requirement etc. all complete as per design, approved sample and excepted by the Engineer-in-charge. Measurement will be taken as per finished surface area. All Garjan wood frames must be protected from termites, cockroach and other insects. The brick/ RCC surface shall be dry and damp proof. (Rate is excluding cost of polish/ paint etc. of any type).	sqm	8001.00	7959.00	7998.00	7998.00
18.4.6	Supplying fitting and fixing of fixed glass louver with Aluminium hollow box as per the U.S Architectural Aluminium Manufactures Association (AAMA) Standard specification having 1.20 mm thick wall frame (size 100 mm x 25 mm) and 10 mm thick, 100 mm wide tempered glass louver section inner inclined glass louver section fixed with above mentioned frame and all aluminium members will be anodized to aluminium of any colour with a coat not less than 15 micron in thickness and density of 4 mg/cm ² etc. including all accessories, neoprene, sealant, nuts and bolts etc.	sqm	16855.00	16849.00	16825.00	16825.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	complete in all respect as per drawing and accepted by the Engineer-in-charge.					
18.4.7	Supplying fitting and fixing double leaf sliding SS louver door shutter made with 16 BWG thick 50 mm x 38 mm SS hollow box as outer frame, 18 BWG thick 50 mm x 12 mm SS hollow box as louver with 18 BWG thick 38 mm x 38 mm SS V Channel for bottom rail, 25mm dia SS solid bar, 18 BWG thick 62 mm x 38 mm SS U channel as top rail, 450 mm long 25 mm dia SS handle, 75 mm SS wheel, 50 mm x 50 mm size 3 mm thick plate for locking arrangement with pad lock including grooving, making hole all necessary accessories and accepted by the Engineer-in-charge. (Rate is excluding cost of polish/ paint etc. of any type).	sqm	26389.00	26384.00	26345.00	26345.00
18.4.8	Supplying, fitting and fixing of Aluminium fins fixed vertically BDS 1879 : 2014 having 1.2 mm thick wall frame (Size 125 mm x 50 mm box section @ 75 mm c/c), fitted with 3 nos horizontal M.S. Angle (20 mm x 20 mm x 3 mm) will be anodized to aluminium of any colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories, rowel bolt, 55 mm M6 rowel bolt, screws, washer etc all complete and accepted by engineer-in-charge. (Rate is excluding cost of polish/ paint etc. of any type).	sqm	21679.00	21675.00	21658.00	21658.00
18.5.1	Supply and making wooden skirting with well matured seasoned wood including necessary moulding with garjan wood frame of 50 mm x 38 mm, groove with proper corner, finishing as per design, fitting and fixing in position by using all necessary accessories, royal plugs, screws, including making holes by electric drill machine and mending good the damages, if any during execution of the work, also including cost of all materials, electricity, labour for installation in all floors etc. all complete as per drawing, design and accepted by the Engineer-in-charge. All Garjan wood frames must be protected from termites, cockroach and other insects. The brick/ RCC surface shall be dry and damp proof. (Rate is excluding cost of polish/ paint etc. of any type).					
18.5.1.1	12 mm thick Myanmar (Burma) Teak Wooden skirting	sqm	5653.00	5563.00	5637.00	5637.00
18.5.1.2	12 mm thick Ctg. Teak. Wooden skirting	sqm	4287.00	4197.00	4313.00	4313.00
18.5.2	Supply and making 25 mm thick wooden Design bit/ Moulding with well matured seasoned wood including necessary moulding/ groove with proper corner, finishing as per design, fitting and fixing in position by using all necessary accessories in all floors etc. all complete and accepted by engineer-in-charge. (Rate is excluding cost of polish/ paint etc. of any type).					
18.5.2.1	Myanmar (Burma) Teak wooden Design bit/ Moulding	sqm	16981.00	16766.00	16427.00	16427.00
18.5.2.2	Ctg Teak wooden Design bit/ Moulding	sqm	11553.00	11361.00	11294.00	11294.00
18.6.1	Supplying, fitting and fixing Wall Almirah with one side attires cabinet including locker and another side shelf of					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	Depth-1'-8" made by 18 mm B.T Veneered/ B.T. ply/ B.T marine ply board on 2.50" X 2.50" (Finished) Ctg. Teak Wooden Outer Frame, 1.50" x 1.50" (Finished) Ctg. Teak wooden frame for shelf, 1.25" x 1.25" (Finished) Ctg. Teak wooden edge bit around the shutter, backside covered by the 18mm garjan Ply board, 2 nos standard handle for shutter & 3 nos standard lock for shutter and drawer, 25 mm SS pipe 1.5 mm thick and including all necessary accessories for fitting & fixing all complete and accepted by the engineer-in-charge. All Ctg. teak wood frames must be protected from termites, cockroach and other insects. (Rate is excluding cost of polish/ paint etc. of any type).					
18.6.1.1	Wall Almirah with one side attire cabinet including locker and another side shelf made of 18 mm B.T Veneered board	sqm	18836.00	18657.00	19042.00	19042.00
18.6.1.2	Wall Almirah with one side attire cabinet including locker and another side shelf made of 18 mm B.T ply board	sqm	20344.00	20164.00	20550.00	20550.00
18.6.1.3	Wall Almirah with one side attire cabinet including locker and another side shelf made of 18 mm B.T Marine ply board	sqm	22282.00	22102.00	22488.00	22488.00
18.6.2	Supplying, fitting and fixing Wall Almirah with one side drawer and Another side shelf of Depth 1'-8" made by 18 mm B.T Veneered/ B.T. ply/ B.T marine ply board on 2.50" X 2.50" (Finished) Ctg. Teak Wooden Outer Frame, 1.50" x 1.50" (Finished) Ctg. Teak wooden frame for shelf, 1.5" x 1.5" (Finished) Ctg. Teak wooden edge bit around the shutter, backside covered by the 18 mm garjan Ply board, 2 nos standard handle for shutter & 4 nos standard lock for shutter and drawer, and including all necessary accessories for fitting & fixing all complete and accepted by the engineer-in-charge. All Ctg. teak wood frames must be protected from termites, cockroach and other insects. (Rate is excluding cost of polish/ paint etc. of any type).					
18.6.2.1	Wall Almirah with one side drawer and Another side shelf made of 18 mm B.T Veneered board	sqm	28984.00	28701.00	29395.00	29395.00
18.6.2.2	Wall Almirah with one side drawer and Another side shelf made of 18 mm B.T ply board	sqm	32184.00	31901.00	32595.00	32595.00
18.6.2.3	Wall Almirah with one side drawer and Another side shelf made of 18 mm B.T Marine ply board	sqm	36297.00	36015.00	36709.00	36709.00
18.6.3	Supplying, fitting and fixing 25mm Ctg. Teak wooden Cabinet of size 8'-0" x4'-9" x1'-8" (finished) , 18mm BT veneered/ BT ply/ BT marine ply board for shelf, 3" (Finished) Ctg. Teak wood moulding bit at bottom, and 1" moulding bit at top and middle, backside covered by the 18mm garjan Ply board, 12 nos standard handle for shutter & 6 nos standard lock, and including screw, SS chain hinge, nails, gums etc. and all necessary accessories for fitting and fixing all complete and accepted by the engineer-in-charge. All Ctg. teak wood frames must be protected from termites, cockroach and other insects. (Rate is excluding cost of polish/ paint etc. of any type).					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
18.6.3.1	wooden Cabinet with B.T. veneered board shutter	sqm	24673.00	24342.00	25193.00	25193.00
18.6.3.2	wooden Cabinet with B.T. ply board shutter	sqm	25581.00	25250.00	26101.00	26101.00
18.6.3.3	wooden Cabinet with B.T. marine ply shutter	sqm	26748.00	26417.00	27268.00	27268.00
18.6.4	Supplying, fitting and fixing Kitchen Cabinet (Below Counter) Depth 1'-8" made by 18 mm B.T Veneered board/ B.T. ply board/ B.T. Marine ply board/ HPL board on 2" X 1.5" (Finished) Ctg. Teak Wooden Frame, making 1" x 1" (Finished) Ctg. Teak edge bit around the shutter and Shelf made of 12 mm laminated vinyl board including all necessary accessories for fitting & fixing all complete as per design and the direction of the engineer-in-charge. All Ctg. teak wood frames must be protected from termites, cockroach and other insects. (Rate is excluding cost of polish/ paint etc. of any type).					
18.6.4.1	Kitchen Cabinet (Below Counter) made by 18 mm B.T Veneered board	sqm	11180.00	11083.00	11424.00	11138.00
18.6.4.2	Kitchen Cabinet (Below Counter) made by 18 mm B.T Ply board	sqm	12098.00	11998.00	12055.00	12055.00
18.6.4.3	Kitchen Cabinet (Below Counter) made by 18 mm B.T Marine Ply board	sqm	12909.00	12809.00	12866.00	12866.00
18.6.4.4	Kitchen Cabinet (Below Counter) made by 18 mm HPL board	sqm	16244.00	16144.00	16201.00	16201.00
18.7.1	Supplying, fitting and fixing of tufted, textured loop/ cut and loop piled or similar Poly-Propylene (PP) fiber carpet tiles of custom color and any pattern interface/ carpet Inter/ equivalent 50 cm x 50 cm or any approved size, with 5 mm to 8 mm thickness (Made in Thailand/ China/ India/ Malaysia or equivalent quality product), of type 6.6 nylon Stain Repel/ Stain Resist /soil protection property, including antimicrobial protection and finished pile height of 3 mm to 4 mm, with recycled glass/ cushion backing with synthetic binder and with flammability property of radiant panel (ASTM E 648), fixing with adhesives including cutting, placing in proper level etc. all complete in all respect as finish schedule, drawing and direction of Engineer-in-Charge.	sqm	6052.00	6051.00	6048.00	6048.00
18.7.2.1	Supply, Delivery and installation of Imported Fire retardant Wood Acoustic Panel (WAP) in walling WAP should be 15 mm thick x 128 mm high x 2440 mm long made from Pine Wood granules, Grooved and perforated as per selected pattern and color (in melamine coated finish) including Non-Woven fabric inlay having of NRC > 0.75, the black non-woven fabric inlay, Galvanized steel keels & clips. Panels will be fixed on 50 mm x 25 mm Garjan wooden frame spacing 750 mm to 800 mm as per drawing, approved architectural and acoustic design (NRC > 0.75) and accepted by the Engineer-in-charge. (Made in Thailand/ China/ India/ Malaysia or equivalent quality product). All Garjan wood frames must be protected from termites, cockroach and other insects. The brick/ RCC surface shall be dry and damp-proof.	sqm	9100.00	9058.00	9040.00	9040.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	(Rate is excluding cost of polish/ paint etc. of any type if necessary).					
18.7.2.2	Supply, Delivery and Installation Custom Size Fabric Wrapped Acoustic Panel (FWAP) in walling as per design, made with peripheral of 12 mm Thick Commercial Veneer/ MDF Boards of 50 mm height with back side of 5mm thick Garjan Plyboard and filled with 50 mm thick 100% Polyester insulation/ Fiberglass Insulation of NRC > 0.75. (Made in Thailand/ China/ India/ Malaysia or equivalent quality product). Wrapped fabric must be at least 600 -700 GSM in order to achieve desired Acoustic performance all complete as per drawing and architectural and acoustic design (NRC > 0.75) and accepted by the Engineer-in-charge. The brick/ RCC surface shall be dry and damp-proof. (Rate is excluding cost of polish/ paint etc. of any type if necessary).	sqm	4034.00	4025.00	3968.00	3968.00
18.7.2.3	Supplying ,fitting and fixing of ACOUSTIC WALLING by 12mm thick B.T veneer board with best quality well seasoned garjan frame of section 50 mm x 38 mm at 600 mm x 600 mm in grid, all Garjan wood frames must be protected from termites, cockroach and other insects, fitted and fixed to wall by plugs, nails, screws, gums, etc. all necessary accessories, including 50 mm imported GLASSWOOL (density 16-20 kg/m ³) (Made in Thailand/ China/ India/ Malaysia or equivalent quality product), heat, sound and noise reduction quality, made of grade A1 incombustible materials with one side aluminium foil quoted/ pasted) is attached with garjan frame with black/ grey airtight fabric cloth bearded & jute hessian, cloth, garments jut including making required number and sizes holes/ groove in B.T. veneered board, scaffolding, mending good the damages, fitting and fixing as per architectural and acoustic design (NRC 0.60-0.75), etc. all complete as per design, approved sample & accepted by the Engineer-in-charge. The brick/ RCC surface shall be dry and damp-proof. (Rate is excluding cost of polish/ paint etc. of any type if necessary). (This item is for Hall room/ conference room/ meeting room or similar purpose uses.)	sqm	9142.00	9077.00	9086.00	9086.00
18.7.2.4	Supplying, fitting and fixing of 15mm thick Standard Acoustic panel for walling work for straight/curve area (Made in Thailand/ China/ India/ Malaysia or equivalent quality product) with high quality MDF Board with finished top Melamine/ Natural wooden veneer/ HPL or any other customized texture or colour finish with sound absorbing, fire proof back felt fabric, board size 133 mm x 2440 mm to 197 mm x 2440 mm, tongue and groove edge. Echo should be E1 standard, Density 750-800 kg/m ³ , perforation range 7.5%-12.8%, NRC value 0.75-0.90, including substructure of garjan wooden framing 50 mm x 38 mm size @ 600 mm grid both way; all Garjan wood frames must be protected from termites, cockroach and other insects, backing with acoustic lining materials of 50 mm thick Glass wool (density 16-20 kg/m ³) (Made in Thailand/ China/ India/ Malaysia or equivalent quality product) with air tight fabric cover including	sqm	12652.00	12580.00	12627.00	12627.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	heat stitching etc. all complete as per approved drawing and architectural and acoustic design (NRC 0.75-0.90) and accepted by the Engineer-in-charge. The brick/ RCC surface shall be dry and damp proof. (Rate is excluding cost of polish/ paint etc. of any type if necessary).					
18.7.2.5	Supplying, fitting and fixing of 15mm thick Moisture proof Acoustic panel for walling work for straight/curve area (Made in Thailand/ China/ India/ Malaysia or equivalent quality product) with high quality MDF Board with finished top Melamine/Natural wooden veneer/ HPL or any other customized texture or colour finish with sound absorbing, fire proof back felt fabric, board size 133 mm x 2440 mm to 197 mm x 2440 mm, tongue and groove edge. Echo should be E1 standard, Density 750-800 kg/m ³ , perforation range 7.5%-12.8%, NRC value 0.75-0.90, including substructure of garjan wooden framing 50 mm x 38 mm size @ 600 mm grid both way; all Garjan wood frames must be protected from termites, cockroach and other insects, backing with acoustic lining materials of 50 mm thick Glass wool (density 16-20 kg/m ³) (Made in Thailand/ China/ India/ Malaysia or equivalent quality product) with air tight fabric cover in/c heat stitching etc. all complete as per approved drawing and architectural and acoustic design (NRC 0.75-0.90) and accepted by the Engineer in-charge. The brick/ RCC surface shall be dry and damp proof. (Rate is excluding cost of polish/ paint etc. of any type if necessary).	sqm	12965.00	12893.00	12940.00	12940.00
18.7.2.6	Supplying, fitting and fixing of 15mm thick Fire Retardant Acoustic panel for walling work for straight/curve area (Made in Thailand/ China/ India/ Malaysia or equivalent quality product) with high quality MDF Board with finished top Melamine/ Natural wooden veneer/ HPL or any other customized texture or colour finish with sound absorbing, fire proof back felt fabric, board size 133 mm x 2440 mm to 197 mm x 2440 mm, tongue and groove edge. Panel materials should be incombustible, Echo should be E1 standard, Density 750-800 kg/m ³ , perforation range 7.5%-12.8%, NRC value 0.75-0.90, including substructure of garjan wooden framing 50 mm x 38 mm size @ 600mm grid both way; all Garjan wood frames must be protected from termites, cockroach and other insects, backing with acoustic lining materials of 50 mm thick Glass wool (density 16-20 kg/m ³) (Made in Thailand/ China/ India/ Malaysia or equivalent quality product) with air tight fabric cover including heat stitching etc. all complete as per approved drawing and architectural and acoustic design (NRC 0.75-0.90) and accepted by the Engineer in-charge. The brick/ RCC surface shall be dry and damp proof. (Rate is excluding cost of polish/ paint etc. of any type if necessary).	sqm	13122.00	13050.00	13097.00	13097.00
18.7.2.7	Supplying, fitting and fixing of 15mm thick Perforated/ Micro perforated wooden acoustic panel for walling work, Straight/ Curve (Made in Thailand/ China/ India/ Malaysia or equivalent quality product) with high quality MDF Board with	sqm	12808.00	12737.00	12783.00	12783.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	finished top Melamine/Natural Wooden veneer/ Technology veneer/ HPL or any other customized texture or colour finish with sound absorbing, fire proof back felt fabric, board size 1200 mm x 2400 mm of incombustible material, Echo should be E1 standard, density 750-800 kg/m ³ , Perforation range 12%-13% (normal) / 1%-6.5% (micro), NRC value 0.75-0.90 including substructure of garjan wooden framing 50 mm x 38 mm size @ 600 mm grid both way; all Garjan wood frames must be protected from termites, cockroach and other insects, backing with acoustic lining materials of 50 mm thick Glass wool (density 16-20 kg/m ³) (Made in Thailand/ China/ India/ Malaysia or equivalent quality product) with air tight fabric cover including heat stitching etc. all complete as per approved drawing and architectural and acoustic design (NRC 0.75-0.90) and accepted by the Engineer in-charge. The brick/ RCC surface shall be dry and damp proof. (This item is for Auditorium/ convention hall or similar purpose uses.) (Rate is excluding cost of polish/ paint etc. of any type if necessary).					
18.7.3.1	Supplying, fitting and fixing of 15 mm thick Fire Retardant, heat Insulated, Acoustic Mineral fiber board (any colour) ceiling (drop/ plain/ straight/ curve) (Made in Thailand/ China/ India/ Malaysia or equivalent quality product) with high grade mineral wool, surface finish with white ultra vinyl latex paint, surface treatment-film coating, anti-fungal & anti-bacterial, humidity resistant greater than 90%, light reflectivity more than 90%, NRC value 0.60- 0.90, density-290-315 kg/m ³ , size of board: 600 mm x 600 mm, of incombustible materials, framing by aluminium T-bar of natural anodized finish suspended in 600 mm x 600 mm grid from ceiling using butterfly hanger with adjustable clip/ locking clips etc. including cost of all materials, electricity, accessories, scaffoldings, labour for installation, screws, nails, rivet etc. all complete as per drawing, architectural and acoustic design (NRC 0.6-0.9) and accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area. The brick/ RCC surface shall be dry and damp-proof. (This item is for acoustic work in auditorium, Hall Room, Seminar Room etc.) (Rate is excluding cost of polish/ paint etc. of any type).	sqm	2226.00	2214.00	2186.00	2186.00
18.7.3.2	Supplying, fitting and fixing of 15 mm thick Fire retardant, heat Insulated, Acoustic Mineral fiber board ceiling , (drop/ plain/ straight/ curve) (Made in UK/Germany/ Italy/ France or equivalent quality product) with high grade mineral wool, surface finish with white ultra vinyl latex paint, surface treatment-film coating, anti-fungal & anti bacterial humidity resistant greater than 90%, light reflectivity more than 90%, NRC value 0.60- 0.90, density-290-315 kg/m ³ , size of board: 600 mm x 600 mm, of incombustible materials, framing by aluminium T-bar of natural anodized finish suspended in 600 mm x 600 mm grid from ceiling using butterfly hanger with adjustable clip/ locking clips etc. including cost of all materials, electricity, accessories, scaffoldings, labour for installation, screws, nails, rivet etc. all complete as per drawing, architectural and acoustic design (NRC 0.6-0.9)	sqm	4507.00	4495.00	4466.00	4466.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	and accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area. The brick/ RCC surface shall be dry and damp proof. (This item is for acoustic work in auditorium, Hall Room, Seminar Room etc.) (Rate is excluding cost of polish/ paint etc. of any type).					
18.7.3.3	Supplying, fitting and fixing of 20mm thick Mineral Fiber Acoustic ceiling, (drop/ plain/ straight/ curve) (Made in UK/Germany/ Italy/ France or equivalent quality product) with high grade mineral wool, surface finish with white ultra vinyl latex paint, surface treatment-film coating, anti-fungal & anti-bacterial humidity resistant greater than 90%, light reflectivity more than 90%, NRC value 0.90 -1.00, medium density, size of board: 600 mm x 600 mm, fire rating B1 standard, framing with 600 mm x 600 mm grid suspended from ceiling using screw, nut, adjustable hanger hook, anchor, T-Grid, Wall angle, Main runner, thread rod, 38mm carrier bracket, connector, sleeve anchor, suspension bracket etc. all complete as per drawing, architectural and acoustic design (NRC 0.9-1.0) and accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area. The brick/ RCC surface shall be dry and damp-proof. (This item is for acoustic work in auditorium, Hall Room, Seminar Room etc.) (Rate is excluding cost of polish/ paint etc. of any type).	sqm	10205.00	10182.00	10147.00	10147.00
18.7.3.4	Supplying, fitting and fixing of 20mm thick Mineral Fiber Acoustic ceiling, (drop/ plain/ straight/ curve) (Made in China/ Malaysia/ Thailand/ India or equivalent quality product) with high grade mineral wool, surface finish with white ultra vinyl latex paint, surface treatment-film coating, anti-fungal & anti-bacterial humidity resistant greater than 90%, light reflectivity more than 90%, NRC value 0.90 -1.00, medium density, size of board: 600 mm x 600 mm, fire rating B1 standard, framing with 600 mm x 600 mm grid suspended from ceiling using T-Grid, Wall angle, Main runner, 38mm carrier bracket, adjustable hanger hook, thread rod, anchor, screw, nut, connector, sleeve anchor, suspension bracket etc. all complete as per drawing architectural and acoustic design (NRC 0.9-1.0) and accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area. The brick/ RCC surface shall be dry and damp proof. (This item is for acoustic work in auditorium, Hall Room, Seminar Room etc.) (Rate is excluding cost of polish/ paint etc. of any type).	sqm	6518.00	6495.00	6460.00	6460.00
18.7.4	Supplying, fitting and fixing of Ply board C-section or box type work on wall/ Ceiling. Using C-section of 150mm x 200 mm x 150 mm or any size of thickness 18 mm with facing 50 mm, including substruction of garjan wooden framing (50 mm x 38 mm @ 600 mm c/c) and screwed, for additional load support including special made full thread 8mm dia rod fixed to the ceiling or roof or beam by rowel bolt, all complete as per drawing, design and accepted by the Engineer-in-charge. All Garjan wood frames must be protected from termites, cockroach and other insects. Measurement will be	sqm	5632.00	5520.00	5644.00	5644.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	taken as per finished surface area. The brick/ RCC surface shall be dry and damp-proof. (This item is for acoustic work in auditorium, Hall Room, Seminar Room etc.) (Rate is excluding cost of polish/ paint etc. of any type).					
18.8	Additional Rate of scaffolding for walling or ceiling work (from Item no. 18.1 to 18.7)					
18.8.1	From 4m up to 6 m	Sqm	132.00	132.00	132.00	132.00
18.8.2	Beyond 6m to above height	Sqm	264.00	264.00	264.00	264.00
18.9	Supplying, fitting, fixing CNC Cutted facade work made of 5 mm (±3%) thick MS Plate , pre-treated & painted with industrial paint/ powder coated glossy paint (thickness not less than 70 micron) covered by water colour weather proof paint, supported by 50 mm x 50 mm x 5 mm MS angle at Top & Side of outer frame according to drawing & design, fitted and fixed in wall/ RCC members with necessary number of clamps, intermediate struts, royal bolt with epoxy. Segments of MS plate will be smoothly joined by rivets or welding, aligned and levelled. Cost is inclusive electricity, workshop charges, loading - unloading, lifting, carrying and placing to the required place & position etc. all complete as per approved design and drawing and accepted by the Engineer-in-charge. (Up to a height of 20m)	sqm	8189.00	8184.00	8157.00	8157.00
18.10	Additional Rate of scaffolding for CNC Cutted facade work					
18.10.1	Above 20m and up to 30m	Sqm	132.00	132.00	132.00	132.00
18.10.2	Beyond 30m	Sqm	264.00	264.00	264.00	264.00

..... **END OF CHAPTER EIGHTEEN**.....

CHAPTER 19: COLLAPSIBLE GATE, M.S. GATE, ROLLING SHUTTER ETC.

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
19.1.1	Manufacturing, supplying, fitting and fixing S.S. collapsible gate of any design and shape made of 25 mm x 25 mm x 3 mm S.S. angle placed @ 112 mm c/c vertically and connecting the same with each other by 25 mm x 3 mm S.S. flat bar scissors 525 mm, 600 mm long provided in 3 rows including cutting the different S.S. members to required sizes, fabricating, welding, riveting with required size rivets, providing required size wheels, pulling handles on both sides, suitable locking arrangement, electrodes, grease and finally placing the same in position in between 2 (two) nos. 50 mm x 50 mm x 6 mm S.S. tee rail made by welding 2 nos. 50 mm x 6 mm S.S. flat bar fitted and fixed at top and bottom with R.C.C. lintel/ roof slab, floors and side wall with required nos. 150 mm to 225 mm long 38 mm x 6 mm S.S. flat bar clamps one end welded with the gate member and the other end bifurcated and embedded in C.C. at the respective point including cutting holes and mending good the damages by pouring concrete (1:2:4) into the holes and finishing, both end carriage, including polishing, greasing, electrodes, curing etc. complete as per drawing and design and accepted by the Engineer-in-charge .					
19.1.1.1	for S.S. Grade A304	sqm	19899.00	19881.00	19753.00	19753.00
19.1.1.2	for S.S. Grade A201	sqm	15861.00	15843.00	15715.00	15715.00
19.1.2	Manufacturing, supplying, fitting and fixing S.S. collapsible gate of any design and shape made of 20 mm x 20 mm x 3 mm S.S. angle placed @ 112 mm c/c vertically and connecting the same with each other by 20 mm x 3 mm S.S. flat bar scissors 525 mm, 600 mm long provided in 3 rows including cutting the different S.S. members to required sizes, fabricating, welding, riveting with required size rivets, providing required size wheels, pulling handles on both sides, suitable locking arrangement, electrodes, grease and finally placing the same in position in between 2 (two) nos. 50 mm x 50 mm x 6 mm S.S. tee rail made by welding 2 nos. 50 mm x 6 mm S.S. flat bar fitted and fixed at top and bottom with R.C.C. lintel/ roof slab, floors and side wall with required Nos. 150 mm to 225 mm long 38 mm x 6 mm S.S. flat bar clamps one end welded with the gate member and the other end bifurcated and embedded in C.C. at the respective point including cutting holes and mending good the damages by pouring concrete (1:2:4) into the holes and finishing, both end carriage, including polishing, greasing, electrodes, curing etc. complete as per drawing and design and accepted by the Engineer-in-charge.					
19.1.2.1	for S.S. Grade A304	sqm	16610.00	16592.00	16464.00	16464.00
19.1.2.2	for S.S. Grade A201	sqm	13071.00	13053.00	12925.00	12925.00
19.1.3	Manufacturing, supplying, fitting and fixing M.S. collapsible gate of any design and shape made of 25 mm x 25 mm x 3 mm M.S. angle placed @ 112 mm c/c vertically and	sqm	6165.00	6145.00	6007.00	6007.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	connecting the same with each other by 25 mm x 3 mm M.S flat bar scissors 525 mm, 600 mm long provided in 3 rows including cutting the different M.S. members to required sizes, fabricating, welding, riveting with required size rivets, providing required size wheels, pulling handles on both sides, suitable locking arrangement, electrodes, grease and finally placing the same in position in between 2 (two) Nos. 50 mm x 50 mm x 6 mm M.S. tee rail made by welding 2 nos. 50 mm x 6 mm M.S. flat bar fitted and fixed at top and bottom with R.C.C. lintel/ roof slab, floors and side wall with required nos. 150 mm to 225 mm long 38 mm x 6 mm M.S. flat bar clamps one end welded with the gate member and the other end bifurcated and embedded in C.C. at the respective point including cutting holes and mending good the damages by pouring concrete (1:2:4) into the holes and finishing, etc. complete, painting 2 (two) coats with approved best quality synthetic enamel paint over a coat of anticorrosive painting, both end carriage, including greasing, electrodes, curing etc. complete as per drawing and design and accepted by the Engineer-in-charge. (Rate is excluding the cost of painting)					
19.1.4	Manufacturing, supplying, fitting and fixing M.S. collapsible gate of any design and shape made of 20 mm x 20 mm x 3 mm M.S. angle placed @ 112 mm c/c vertically and connecting the same with each other by 20 mm x 3 mm M.S flat bar scissors 525 mm, 600 mm long provided in 3 rows including cutting the different M.S. members to required sizes, fabricating, welding, riveting with required size rivets, providing required size wheels, pulling handles on both sides, suitable locking arrangement, electrodes, grease and finally placing the same in position in between 2 (two) nos. 50 mm x 50 mm x 6 mm M.S. tee rail made by welding 2 nos. 50 mm x 6 mm M.S. flat bar fitted and fixed at top and bottom with R.C.C. lintel/roof slab, floors and side wall with required Nos. 150 mm to 225 mm long 38 mm x 6 mm M.S. flat bar clamps one end welded with the gate member and the other end bifurcated and embedded in C.C. at the respective point including cutting holes and mending good the damages by pouring concrete (1:2:4) into the holes and finishing, etc. complete, painting 2 (two) coats with approved best quality synthetic enamel paint over a coat of anticorrosive painting, both end carriage, including greasing, electrodes, curing etc. complete as per drawing and design and accepted by the Engineer-in-charge. (Rate is excluding the cost of paint).	sqm	5331.00	5312.00	5174.00	5174.00
19.2.1	Supplying, fitting, fixing, and installation of ordinary type M.S. gate (double leaf) of any design and shape with 38 mm x 38 mm x 6 mm M.S. Angle outer frame having 16 mm dia M.S. rod placed vertically @ 75 mm c/c. at bottom part and top part (200 mm long arrows) and also placed horizontally at bottom for interconnection of 16 mm dia M.S. rod placed vertically as per design, the top part covered with 18 BWG M.S. sheet and fixed with 4 nos. 38 mm x 6 mm F.I. bars placed diagonally and 4 Nos. 38 mm x 6 mm F.I. bars placed horizontally and vertically all passing through the center, providing locking arrangements on 3 mm thick M.S. plate one for main gate and one for minimum 600 mm x 1025 mm pocket gate with 38 mm x 38 mm x 6 mm M.S. angle and	sqm	6882.00	6860.00	6705.00	6705.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	16 mm dia M.S. rod placed vertically @ 75 mm c/c, providing 38 mm x 38 mm x 6 mm M.S. angle clamps fitted and fixed with the outer frame of the main gate, the clamp being embedded in R.C.C. or R.C.C. core pillar with cement concrete (1:2:4) in masonry including cutting holes and mending good the damages, finishing, curing etc. including riveting, welding as and where necessary, painting two coats with approved quality of synthetic enamel paint over a coat of priming of anti-corrosive paint etc. all complete as per drawing, design and accepted by the Engineer-in-charge. (Rate is excluding the cost of paint).					
19.2.2	Manufacturing, supplying and fitting-fixing security door with 25 mm dia M.S. rod and outer frame with 50 mm x 50 mm x 6 mm M.S. angle including locking arrangement as per approved design and drawing providing 38 mm x 38 mm x 6 mm M.S. angle clamps fitted and fixed with the outer frame of the main gate, the clamp being embedded in R.C.C. or R.C.C. core pillar with cement concrete (1:2:4) in masonry including cutting holes and mending good the damages, finishing, curing etc. including riveting, welding as and where necessary, painting two coats with approved quality of synthetic enamel paint over a coat of priming of anti-corrosive paint etc. all complete as per drawing, design and accepted by the Engineer-in-charge. (Rate is excluding the cost of paint).	sqm	13680.00	13624.00	13303.00	13303.00
19.3	Supplying, fitting, fixing, and installation of ordinary type M.S. security gate of any design and shape with 50 mm x 50 mm x 6 mm M.S. angle outer frame and 02 (two) 50 mm x 50 mm x 6 mm angle placed diagonally having 22 mm dia M.S. rod placed vertically @ 115 mm c/c. and also 38 mm x 6 mm F.I bar placed horizontally, the bottom part covered with 3 mm thick M.S. plate providing locking arrangements on 3 mm thick M.S. plate providing heavy type clamps fitted and fixed with the outer frame of the main gate, the clamp being embedded in R.C.C. or R.C. core pillar with cement concrete (1:2:4) in masonry including cutting holes and mending good the damages, finishing, curing etc. including fabrication, riveting, welding as and where necessary, painting 2 (two) coats with approved best quality synthetic enamel paint over a coat of anticorrosive painting etc. all complete as per drawing, design and accepted by the Engineer-in-charge. (Rate is excluding the cost of paint).	sqm	8584.00	8566.00	8428.00	8428.00
19.4	Supplying, fitting, fixing and installation of ordinary type M.S. gate (double leaf) of any design and shape with 38 mm x 38 mm x 6 mm M.S. angle box (made by welding 2 nos. 38 mm x 38 mm x 6 mm angle) outer frame having 25 mm x 50 mm x 25 mm x 5 mm M.S. channel (made by welding 2 nos. of channel) placed part diagonally after cutting and shaping as per requirement, part horizontally @ 75 mm c/c, the two part of each leaf being separated by a vertical member of 38 mm x 38 mm x 6 mm M.S. box and welded the each ends of diagonal and horizontal members properly with the box frame as per architectural drawing providing full locking arrangement on 3 mm thick M.S. plates providing 38 mm x	sqm	9148.00	9131.00	8999.00	8999.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	38 mm x 6 mm M.S. angle clamps, fitting fixing with the outer frame of the gate, the clamp being embedded in R.C.C. pillars with cement concrete (1:2:4) including cutting holes and mending good the damages, finishing, curing and where necessary painting two coats with approved quality of synthetic enamel paint over a coat of priming of anticorrosive paint etc. all complete including making and providing 50 mm x 6 mm M.S. rail and 38 mm wheel for smooth movement of the gate etc. all complete as per drawing, design and accepted by the Engineer-in-charge. (Rate is excluding the cost of paint).					
19.5	Manufacturing, supplying, fitting and fixing G.I. pipe gate of any design and shape having 38 mm dia G.I. pipe outer frame and 19 mm dia. G.I. pipe vertical member placed @ 75 mm c/c by welding at top and bottom of G.I. pipe frame, cutting the pipes in proper shape and size including making semicircular band at the corners of the outer frame without damaging the pipe, covering 50% of the gate area with 18 BWG M.S. sheet, providing also two extra horizontal 38 mm dia G.I. pipes welded with vertical post, providing 6 nos. huskle domney with R.C.C. or R.C.C core pillar with cement concrete (1:2:4) in masonry including cutting holes, mending good the damages, making provision for minimum 0.61 m x 1.4 m pocket gate having its outer frame and inner vertical members made with 19 mm dia G.I. pipe including necessary locking arrangements. Painting the gate with 2 (two) coats of synthetic enamel paint over a coat of anti-corrosive priming, welding as and where necessary including necessary locking arrangement and providing 2 Nos. 16 mm M.S. socket bolts etc. all complete as per design and drawing and accepted by the Engineer-in-charge. (Rate is excluding the cost of painting)	sqm	10352.00	10337.00	10221.00	10221.00
19.6	Supplying, fitting and fixing of rolling shutter of any design and shape made of 24 SWG G.P. sheet unit minimum 69 mm width having 10 mm and 12 mm dia circular folding at ends, rolled in machine, locked together properly to form rolling shutter, top of the shutter to be fitted with circular spring box made of 26 BWG sheet, containing best quality spring made in China, nitted with 38 mm G.I. pipe at one end and the other end nitted to shutter including fitting the G.I. pipe again with 375 mm x 300 mm x 6 mm pankha at ends with side guide channel (side channel consist of 50 mm x 100 mm x 6 mm M.S. plate with 2 mm x 19 mm x 3 mm F.I. bar, middle channel consist of 2 mm x 150 mm x 6 mm M.S. plate with 2 mm x 19 mm x 6 mm fixed to wall or column with clamps embedded in R.C.C. part by cement concrete (1:2:4) including cutting holes (minimum 3 mm x 25 mm x 6 mm) mending the damages, finishing, curing, bottom end of shutter fitted to folded G.P. sheet (min 125 mm width in two layers), which is again fitted to 25 mm x 25 mm x 3 mm angle, providing handle with F.I. bar 25 mm x 6 mm and locking arrangement in both sides, painting two coats with approved colour and brand of synthetic enamel paint over a coat of priming etc. complete in all respect accepted by the Engineer-in-charge. [Rate is excluding the cost of painting]	sqm	6598.00	6579.00	6464.00	6464.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
19.7	Manufacturing, supplying, fitting, fixing of ordinary type M.S. folding gate with 12mm x 12mm MS square solid bar and 25 mm x 25mm x 6 mm MS angle box frame and two nos outer side fixed box post made with 40 mm x 40 mm x 6 mm angle at both ends attached to column/wall side including locking arrangement providing 38 mm x 38 mm x 6 mm M.S. angle clamps fitted and fixed with the outer frame of the main gate, the clamp being embedded in R.C.C. or R.C.C. core pillar with cement concrete (1:2:4) in masonry including cutting holes and mending good the damages, finishing, curing etc. including riveting, welding as and where necessary, painting two coats with approved quality of synthetic enamel paint over a coat of priming of anti-corrosive paint etc. all complete as per drawing, design and accepted by the Engineer-in-charge. (Rate is excluding the cost of paint)	sqm	5796.00	5776.00	5650.00	5650.00
19.8	Manufacturing, supplying, fitting and fixing SS folding gate of any design and shape made of 37 mm x 1.5 mm round pipe section as vertical section spacing 450 mm c/c, 25 x 25 x 1.5 mm box section criss-cross connected with vertical section through 12 mm solid pipe section, 12 mm x 38 mm x 1.5 mm rectangular SS section fitted & fixed vertically & connected through 12 mm solid pipe section with vertical section, placing required number of SS wheel, SS Handle, SS Locking clamp etc, fitting-fixing the gate by cutting hole and mending good the damages by pouring concrete(1:2:4) into the holes and hoisting the gate in position with necessary carriage,electrodes, curing, polishing, finishing, etc.complete as per drawing and design and accepted by the Engineer-in-charge.					
19.8.1	for S.S. Grade A304	sqm	17554.00	17539.00	17417.00	17417.00
19.8.2	for S.S. Grade A201	sqm	15384.00	15370.00	15248.00	15248.00
19.9	Manufacturing, supplying, fitting and fixing SS Swing front gate of any design and shape made of 50 mm x 50mm x 1.5 mm S.S. box section as outer frame, 37mm x 37mm x 1.5 mm SS box section as vertical section @ 100 mm c/c fitted with outer frame, 25 mm x 25 mm x 1.5 mm SS box section as horizontal section , 37 mm x 1.5 mm SS round section fitted with vertical outer section for SS lettering, 25 mm dia SS solid round pipe, placing required number of solid hinges, SS wheel, SS locking arrangement, hasp bolt, tower bolt etc, fitting-fixing the gate by cutting hole and mending good the damages by pouring concrete(1:2:4) into the holes and hoisting the gate in position with necessary carriage,electrodes, curing, polishing, finishing, etc.complete as per drawing and design and accepted by the Engineer-in-charge .					
19.9.1	for S.S. Grade A304	sqm	18660.00	18647.00	18539.00	18539.00
19.9.2	for S.S. Grade A201	sqm	14921.00	14908.00	14800.00	14800.00
19.10	Manufacturing, supplying, fitting and fixing SS Sliding front gate of any design and shape made of 50 mm x 50mm x 1.5					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	mm S.S. box section as outer frame, 37mm x 37mm x 1.5 mm SS box section as vertical section @ 100 mm c/c fitted with outer frame, 25 mm x 25 mm x 1.5 mm SS box section as horizontal section, 37 mm x 1.5 mm SS round section fitted with vertical outer section for SS lettering, 25 mm dia SS solid round pipe & 3 mm SS channel (62 mm x 62 mm) placed at bottom & top respectively, placing required number of solid hinges, SS wheel, SS locking arrangement, hasp bolt, tower bolt etc., fitting, fixing the gate by cutting hole and mending good the damages by pouring concrete (1:2:4) into the holes and hoisting the gate in position with necessary carriage, electrodes, curing, polishing, finishing, etc. complete as per drawing and design and accepted by the Engineer-in-charge.					
19.10.1	for S.S. Grade A304	sqm	19016.00	19003.00	18895.00	18895.00
19.10.2	for S.S. Grade A201	sqm	15277.00	15264.00	15156.00	15156.00
19.11	Manufacturing, supplying, fitting and fixing double leaf SS Main gate made with 2 mm thick 75 mm x 75 mm SS hollow box as outer frame, 1.5 mm thick 50 mm X 25 mm SS hollow box as inner frame with 1.5 mm thick, 19 mm x 19 mm SS hollow box for fencing @ 75 mm c/c, 900 mm Long 25 mm dia SS box handle, 350 mm long 20 mm dia SS hatch bolt, 150 mm x 38 mm hinge base plate, 50 mm x 8 mm S.S plate for bottom rail, 75 mm dia SS wheel, 6 mm thick 300 mm x 325 mm box SS 16 gauge plate for locking arrangement, 100 mm x 10 mm dia SS Rowel bolt, SS pad lock, fitting, fixing the gate by cutting hole and mending good the damages by pouring concrete(1:2:4) into the holes and hoisting the gate in position with necessary carriage, electrodes, curing, polishing, finishing, etc. complete as per drawing and design and accepted by the Engineer-in-charge.					
19.11.1	for S.S. Grade A304	sqm	30549.00	30529.00	30363.00	30363.00
19.11.2	for S.S. Grade A201	sqm	25285.00	25265.00	25099.00	25099.00

..... END OF CHAPTER NINETEEN.....

CHAPTER 20: STAIR & VERANDAH RAILING AND STAIR NOSING

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
20.1	Manufacturing, supplying, fitting and fixing of stair railing of standard height of any design and shape with square box (2 nos.in each tread) made by through welding of 2 nos. 19 mm x 19 mm x 3 mm M.S. angle to provide hand-rail, engraving each box 150mm in the concrete by 50 mm x 50 mm x 6 mm anchor plate at base, welding 38 mm x 6mm F.I. bar inclined plain with the top of the box to fit in the grooved wooden rail by necessary screws including cutting grooves in concrete, mending good the damages with cement concrete (1:2:4), applying french polish of approved quality and colour to wooden hand rail, 2 (two) coats of synthetic enamel paint of approved quality over an anti-corrosive prime coat etc. complete in all respect for all floors and accepted by the Engineer-in-charge. (Exposed area excluding hand rail of railing will be considered for measurement, rate is excluding the cost of wood for hand-rail and cost of painting, polish).	sqm	4374.00	4345.00	4204.00	4204.00
20.2	Manufacturing, supplying, fitting and fixing of stair railing of standard height of any design and shape with square box (2 nos. box in each tread) made by through welding of 2nos. 25 mm x 25 mm x 5 mm M.S. angle , engraving each box 150 mm in the concrete by 50 mm x 50 mm x 6 mm anchor plate at base, welding 50 mm x 6 mm F.I. bar in inclined plain with the top of the box fitted in the grooved wooden rail and 2 Nos. 225 mm x25 mm finished section of wooden strip fitted and fixed at mid height of railing at both side of M.S. angle box in inclined plain parallel to the hand rail etc. fitted and fixed by necessary screws, nails including cutting grooves in concrete, mending good the damages with cement concrete (1:2:4), applying french polish of approved quality and colour to wooden hand rail and inclined wooden strip and painting to F.I bar and square box with 2 (two) coats of synthetic enamel paint of approved quality and colour over an anti-corrosive prime coat etc. complete in all respect for all floors and accepted by the Engineer-in-charge. (Exposed area excluding hand rail of railing will be considered for measurement, rate is excluding the cost of wood for hand-rail, wooden strip and cost of painting, polish).	sqm	5638.00	5610.00	5469.00	5469.00
20.3	Supplying, fitting and fixing 12 mm dia of 2.65 mm thick G.I pipe stair railing of standard height of any design and shape with 50 mm x 50 mm x 6 mm M.S. plate at the base of 12 mm dia G.I. Pipe and fitted and fixed by welding. Placing the pipes vertically @ 250 mm c/c (1 nos. in each steps) 150 mm embedded into the R.C.C tread of stair case after cutting grooves and mending good the damages with C.C. and providing 38 mm x 6 mm F.I. bar on the top of G.I. pipe to provide wooden hand rail of any design applying french polish of approved quality and colour to wooden hand rail and painting with 2 (two) coats of synthetic enamel paint of approved quality and colour over an anti-corrosive prime coat etc. complete in all respect for all floors and accepted by the Engineer-in-charge. (Exposed area excluding hand rail of railing will be considered for measurement, rate is excluding the cost of wood for hand-rail and cost of painting, polish).					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
20.3.1	With the provision of hand rail of size: 150 mm x 62 mm (finished)	sqm	2969.00	2955.00	2872.00	2872.00
20.3.2	With the provision of hand rail of size: 112 mm x 62 mm (finished)	sqm	3611.00	3588.00	3469.00	3469.00
20.4.1	Supplying, fitting and fixing of 12 mm dia of 2.65 mm thick G.I pipe stair railing of standard height and design and shape with 50 mm x 50 mm x 6 mm M.S. plate at the base of 12 mm dia G.I. Pipe and fitting & fixing by welding. Placing the pipes vertically @ 125 mm c/c (2 nos. in each steps) 150 mm embedded into the R.C.C tread of stair case after cutting grooves and mending good the damages with C.C. and providing 40 mm dia of 3.20 mm thick G.I. pipe hand rail on the top of vertical G.I. pipe, applying 2 (two) coats of synthetic enamel paint of approved quality and color over an anti-corrosive prime coat etc. all complete in all respect for all floors and accepted by the Engineer-in-charge. (Exposed area of railing will be considered for measurement, rate is excluding the cost of paint).	sqm	4817.00	4801.00	4716.00	4716.00
20.4.2	Supplying, fitting and fixing of 12 mm dia of 2.65 mm thick G.I pipe stair railing of standard height and design and shape with 50 mm x 50 mm x 6 mm M.S. plate at the base of 12 mm dia G.I. Pipe and fitting & fixing by welding. Placing the pipes vertically @ 125 mm c/c (2 nos. in each steps) 150 mm embedded into the R.C.C tread of stair case after cutting grooves and mending good the damages with C.C. and providing 50 mm dia of 3.20 mm thick G.I. pipe hand rail on the top of vertical G.I. pipe, applying 2 (two) coats of synthetic enamel paint of approved quality and color over an anti-corrosive prime coat etc. all complete in all respect for all floors and accepted by the Engineer-in-charge. (Exposed area of railing will be considered for measurement, rate is excluding the cost of paint).	sqm	5218.00	5199.00	5097.00	5097.00
20.5	Manufacturing, supplying, fitting and fixing of stair railing of standard height of any design and shape with 75mm x 50mm x 3mm MS box for hand rail and 03 nos vertical post of 75mm x 50mm x 3mm MS box in each flight , welding the vertical post box with 100 mm x 100 mm x 6 mm anchor base plate and fixing with concrete of stair by royal bolt, welding MS box or MS F.I bar of any shape and design horizontally between the vertical post @ 125 mm c/c , applying 2 (two) coats of synthetic enamel paint of approved quality and color over an anti-corrosive prime coat etc. finished in all respect for all floors and accepted by the Engineer-in-charge. (Exposed area of railing will be considered for measurement, rate is excluding the cost of painting).					
20.5.1	With F.I bar of size: 38 mm x 6 mm	sqm	5241.00	5219.00	5097.00	5097.00
20.5.2	With MS box of size: 20 mm x 20 mm of 1.5 mm wall thickness	sqm	4751.00	4729.00	4607.00	4607.00
20.6.1	Manufacturing, supplying, fitting and fixing of stair railing of standard height of any design and shape with 75 mm x 75 mm finished wood for hand rail and vertical post , fitting	sqm	4466.00	4444.00	4335.00	4335.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	with 02 Nos. frames (150 mm space between the two frames and vertical wooden post) of 50 mm x 25 mm 1.5 mm MS box in each flight and welding 50 mm x 6 mm F.I. bar horizontally in each frame @ 150 mm c/c, fixing the rail, post and frames by necessary screws, nails, bolts with concrete of stair, applying french polish of approved quality and colour to wooden hand rail, 2 (two) coats of synthetic enamel paint of approved quality over an anti-corrosive prime coat etc. complete in all respect for all floors and accepted by the Engineer-in-charge. (Exposed area excluding hand rail of railing will be considered for measurement, rate is excluding the cost of wood for hand-rail and cost of painting, polish).					
20.6.2	Manufacturing, supplying, fitting and fixing of stair railing of standard height of any design and shape with 100mm x 50mm finished wood for hand rail , 75mm x 50mm x 3mm MS box for vertical post (total 4 nos. post per flight) fitting by welding on 100 mm x 100 mm x 6 mm anchor plate at base, welding MS box or MS F.I bar of any shape and design horizontally between the vertical post @ 125 mm c/c , welding 50 mm x 6 mm F.I. bar in inclined fitted in the grooved wooden rail by necessary screws, nails, mending good the damages with cement concrete (1:2:4), applying french polish of approved quality and colour to wooden hand rail, 2 (two) coats of synthetic enamel paint of approved quality over an anti-corrosive prime coat etc. complete in all respect for all floors and accepted by the Engineer-in-charge. (Exposed area excluding hand rail of railing will be considered for measurement, rate is excluding the cost of wood for hand-rail and cost of painting, polish).					
20.6.2.1	With MS box of size: 38 mm x 12 mm of 1.5 mm wall thickness	sqm	4860.00	4838.00	4729.00	4729.00
20.6.2.2	With F.I bar of size: 38 mm x 6 mm	sqm	5315.00	5293.00	5184.00	5184.00
20.6.3	Manufacturing, supplying, fitting and fixing of stair railing of standard height of any design and shape with 100mm x 62mm finished wood for hand rail, fixing with 75mm x 38mm x 3mm MS box of 400mm length which fitting between 2 nos. 75mm x 38mm x 3mm MS box (total 3 nos. post per flight) welding on 150 mm x 150 mm x 6 mm anchor plate at base, 01 no 75mm x 38mm x 3mm MS box (200 mm space from top wooden rail) inclined with top and 01 no 75mm x 38mm x 3mm MS box (fitted with plain concrete surface of stair by royal bolt) inclined with bottom, both welding with vertical post, welding 1.5 mm thick 20mm dia MS pipe @ 125mm c/c horizontally between the MS vertical post, welding 50 mm x 6 mm F.I. bar in inclined fitted in the grooved wooden rail by necessary screws, nails, mending good the damages with cement concrete (1:2:4), applying french polish of approved quality and colour to wooden hand rail, 2 (two) coats of synthetic enamel paint of approved quality over an anti-corrosive prime coat etc. complete in all respect for all floors and accepted by the Engineer-in-charge. (Exposed area excluding hand rail of railing will be considered for measurement, rate is excluding the cost of wood for hand-rail and cost of painting, polish).	sqm	7539.00	7518.00	7413.00	7413.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	Rajshahi, Rangpur
20.7	Manufacturing, supplying, fitting and fixing of stair railing of standard height of any design and shape with 100mm x 62mm finished wood for hand rail, fixed with 50mm x 25mm x 2mm SS box of 400mm length which fitting between 2 nos. 50mm x 25mm x 2mm SS box (total 3 nos. post per flight) welding on 100 mm x 100 mm x 6 mm anchor plate at base, 01 no 50mm x 25mm x 2mm SS box (200 mm space from wooden rail) inclined with top and 01 no 50mm x 25mm x 2mm SS box (fitted with plain concrete surface of stair by royal bolt) inclined with bottom, both welding with vertical post, welding 1.5 mm thick 20mm dia SS pipe 125mm c/c horizontally between the SS vertical post, welding 50 mm x 6 mm F.I. bar in inclined fitted in the grooved wooden rail by necessary screws, nails, mending good the damages with cement concrete (1:2:4) including polishing of SS box and pipe, applying french polish of approved quality and colour to wooden hand rail, 2 (two) coats of synthetic enamel paint of approved quality and color over an anti-corrosive prime coat etc. complete in all respect for all floors and accepted by the Engineer-in-charge. (Exposed area excluding hand rail of railing will be considered for measurement, rate is excluding the cost of wood for hand-rail and cost of painting, polish of wood).	sqm	10910.00	10890.00	10788.00	10788.00
20.8.1	Supplying, fitting and fixing stainless steel (SS) stair railing of standard height with 2 mm thick 62 mm dia SS pipe for hand-rail, 2 mm thick 40 mm dia 5 nos vertical SS pipes in each flight, 1.5 mm thick 20 mm dia 5 nos horizontal SS pipes as per drawing, design including carrying, polishing, fabricating, welding and fixing with tread by 25 mm long royal bolt etc.all complete and accepted by the Engineer-in-charge.	sqm	8003.00	7986.00	7903.00	7903.00
20.8.2	Supplying, fitting and fixing stainless steel (SS) stair railing of standard height with 2 mm thick 62 mm x 25 mm SS Box for hand-rail fixing with 2 nos of consecutive SS vertical post of 2 mm thick 50 mm x 18 mm SS Box (4 nos vertical support in each flight, each vertical support containing 2 nos of consecutive SS vertical box of 125 mm space) fixing with tread by 75 mm long royal bolt, welding 1.5 mm thick 38 mm x 12 mm 5 nos horizontal SS Box between vertical support as per drawing, design including carrying, polishing, fabricating, welding etc.all complete and accepted by the Engineer-in-charge.	sqm	10763.00	10739.00	10618.00	10618.00
20.8.3	Supplying, fitting and fixing stainless steel (SS) stair railing of standard height with 2 mm thick 62 mm dia SS pipe for hand-rail, 50mm x 6mm SS double plate SS newel post having SS pipe holder at the top to provide hand rail and having SS knob between double plate to hold the horizontal pipe (4 nos. post in each flight) fitting by welding on 150 mm x 100 mm x 6 mm SS anchor plate at base, base plate fitting with the tread by 50mm long royal bolt, 1.5 mm thick 20 mm dia 5 nos horizontal pipes fitting in the SS knob including carrying, polishing fabricating etc. all complete and accepted by the Engineer-in-charge.	sqm	11988.00	11966.00	11854.00	11854.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
20.8.4	Supplying, fitting and fixing stainless steel (SS) stair railing of standard height with 2 mm thick 62 mm dia pipe for hand-rail, 2 mm thick 50mm dia SS vertical post having pipe holder at the top to provide hand rail and having SS knob to hold the horizontal pipe (4 nos. post in each flight) fitting by welding on 150 mm x 100 mm x 6 mm anchor plate at base, base plate fitting with the tread by 50 mm long royal bolt, 1.5 mm thick 20 mm dia 8 nos horizontal pipes fitting in the SS knob including carrying, polishing fabricating etc.all complete and accepted by the Engineer-in-charge.	sqm	11340.00	11320.00	11216.00	11216.00
20.9.1	Supplying, fitting and fixing 10 mm thick tempered glass railing in stair with 62 mm dia 2 mm thick SS pipe for hand rail, 04 nos 62 mm x 50 mm x 2 mm SS vertical box post (having 4 nos. SS glass holder and 1 no rail holder) in each flight fitting and fixing with 65 mm x 55 mm x 6 mm SS base plate including welding, bending, fabricating, polishing all complete as per drawing, design and specification etc. in all respect and accepted by Engineer-in-charge.	sqm	12572.00	12551.00	12433.00	12433.00
20.9.2	Supplying, fitting and fixing 10 mm thick tempered glass railing in stair of standard height with 2 mm thick 62 mm dia SS pipe for hand-rail, 2 mm thick 62 mm dia SS vertical post (4 nos. post in each flight) having 1 no. pipe holder at the top to provide top rail and 4 nos. SS glass holder to fit the tempered glass, welding vertical post on 100 mm x 100 mm x 6 mm SS base plate and fitting base plate with the tread by 50mm long rowel bolt including welding, bending, fabricating, polishing all complete as per drawing, design and specification etc. in all respect and accepted by Engineer-in-charge.	sqm	22616.00	22593.00	22466.00	22466.00
20.9.3	Supplying, fitting and fixing 10 mm thick tempered glass railing in stair of standard height with 2 mm thick 62 mm dia SS pipe for hand-rail, fixing rail with the glass by SS holder, fitting the tempered glass with 150 mm/ 200 mm long SS glass clamp (4 nos. clamp in each flight), welding the SS glass clamp on 100 mm x 100 mm x 6 mm SS base plate and fitting base plate with the tread by 50 mm long rowel bolt including welding, bending, fabricating, polishing all complete as per drawing, design and specification etc. in all respect and accepted by Engineer-in-charge.	sqm	12431.00	12413.00	12303.00	12303.00
20.9.4	Supplying, fitting and fixing 10 mm thick tempered glass railing in stair of standard height with 2 mm thick 62 mm dia SS pipe for hand rail, 2 mm thick 50 mm x 25 mm SS vertical post (4 nos. post in each flight) having 1 no. pipe holder at the top to provide top rail and 2 nos. SS glass holder to fit the tempered glass, welding vertical post on 100 mm x 100 mm x 6 mm SS base plate and fitting base plate on outer side of the tread by 75 mm long rowel bolt including welding, bending, fabricating, polishing all complete as per drawing, design and specification etc. in all respect and accepted by Engineer-in-charge.	sqm	12249.00	12229.00	12115.00	12115.00
20.10.1	Supplying, fitting and fixing 10 mm thick tempered glass railing in stair of standard height with 62 mm dia finished wood with 10 mm x 18 mm groove for hand rail, fitting 150	sqm	6857.00	6847.00	6766.00	6766.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	mm x 50 mm finished wood with 10 mm x 50 mm groove with the plain RCC surface at bottom by 50 mm long rowel bolt, 10 mm thick tempered glass fitting in the groove between the hand rail and bottom wooden section by glass protector bit/ rubber gasket, silicon including carrying, fabricating etc. all complete and accepted by the Engineer-in-charge. (Rate is excluding cost of wood and cost of polish).					
20.10.2	Supplying, fitting and fixing 10 mm thick tempered glass railing in stair of standard height with 75 mm x 50 mm finished wood for hand rail and vertical post of both sides of stair railing having 10mm x 38mm groove for fitting the tempered glass, 1.5 mm thick 62 mm x 25 mm aluminium U channel fitting with the RCC plain surface at bottom by 50mm long rowel bolt, 10 mm thick Tempered glass fitting between the wooden groove and aluminium U channel through glass protector bit/ rubber gasket, silicon as per drawing, design including carrying, fabricating etc. all complete and accepted by the Engineer-in-charge. (Rate is excluding cost of wood and cost of polish).	sqm	7789.00	7778.00	7698.00	7698.00
20.10.3	Supplying, fitting and fixing 10 mm thick tempered glass railing in stair of standard height with 75 mm x 50 mm finished wood for hand rail and vertical post of both sides of stair tread, fixing the rail with the tempered glass by SS holder, fitting the bottom edge of the tempered glass with 1.5mm thick 38mm x 18 mm aluminium U channel and the top edge of the tempered glass with 1.5 mm thick 12mm x 12 mm aluminium U channel through glass protector bit/rubber gasket, silicon and fixing with the tread of stair by 50mm long royal bolt, fitting 38 mm x 6 mm F.I. bar at the bottom of the grooved wooden hand rail by necessary screws, nails including fitting, fixing, carrying, fabricating etc. as per drawing, design all complete and accepted by the Engineer-in-charge. (Rate is excluding cost of wood and cost of polish).	sqm	8713.00	8702.00	8622.00	8622.00
20.10.4	Supplying, fitting and fixing 10 mm thick tempered glass railing in stair of standard height with 2 mm thick 62 mm dia SS pipe or 2 mm thick 62 mm x 38 mm SS box for hand rail and vertical post of both sides of stair tread, fixing the rail with the tempered glass by SS holder, fitting the bottom edge of the tempered glass with 1.5mm thick 38mm x 18 mm aluminium U channel and the top edge of the tempered glass with 1.5 mm thick 12mm x 12 mm aluminium U channel through glass protector bit/rubber gasket, silicon and fixing with the tread of stair by 50 mm long royal bolt, welding vertical post on 100 mm x 100 mm x 6 mm SS base plate and fitting base plate with the concrete of stair by 50mm long royal bolt including fitting, fixing, carrying, fabricating, polishing etc. as per drawing, design all complete and accepted by the Engineer-in-charge.	sqm	11265.00	11252.00	11152.00	11152.00
20.11	Supplying, fitting and fixing stainless steel railing of standard height (approximately 225 mm above RCC or Brick wall) with 2 mm thick 62 mm dia SS pipe for hand-rail, 2 mm thick 40 mm dia vertical SS pipes @ 1200 mm c/c fitting and fixing with 65 mm x 55 mm x 6 mm SS base plate and fitting base	meter	2236.00	2236.00	2236.00	2236.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	plate with the surface by 50mm long rowel bolt including welding, bending, fabricating, polishing all complete as per drawing, design and specification etc all complete in all respect and accepted by Engineer-in-charge.					
20.12.1	Supplying, fitting and fixing stainless steel railing on inner side of stair with 2 mm thick 62 mm dia SS pipe for hand-rail (50mm space from wall), fitting and fixing by a SS pipe holder @ 1200 mm c/c welding with 65 mm x 55 mm x 6 mm SS base plate and fitting base plate on RCC or Brick wall by SS Rowel Bolt including welding, bending, fabricating, polishing all complete as per drawing, design and specification etc. all complete in all respect and accepted by Engineer-in-charge.	meter	2352.00	2350.00	2339.00	2339.00
20.12.2	Supplying, fitting and fixing MS railing on inner side of stair with 3 mm thick 62 mm x 38 mm MS box for hand-rail (50mm space from wall), fitting and fixing by a MS box holder @ 1200 mm c/c welding with 65 mm x 55 mm x 6 mm MS base plate and fitting base plate on RCC or Brick wall by Rowel Bolt including welding, bending, fabricating, all complete as per drawing, design and specification etc. all complete in all respect and accepted by Engineer-in-charge.	meter	1366.00	1365.00	1353.00	1353.00
20.12.3	Supplying, fitting and fixing 50 mm dia finished Wooden railing on inner side of stair (50 mm space from wall), fitting both sides by 2 mm thick 50 mm dia SS pipe capping one end of 250 mm length, fitting and fixing by a SS holder @ 1200 mm c/c welding with 65 mm x 55 mm x 6 mm SS base plate and fitting base plate on RCC or Brick wall by Rowel Bolt including welding, bending, fabricating, all complete as per drawing, design and specification etc. all complete in all respect and accepted by Engineer-in-charge.	meter	2325.00	2307.00	2320.00	2320.00
20.13	Supplying, fitting and fixing SS Swimming Pool Ladder of 3000 mm x 600 mm size in which outer frame of 2 mm thick 50 mm dia SS pipe and horizontal bar for lower part (approximately 1800 mm) of 2 mm thick 40 mm dia SS pipe @ 200 mm c/c and fitting and fixing the whole with 100 mm x 100 mm x 6 mm SS base plate on both side and fitting base plate on RCC or Brick wall by Rowel Bolt including welding, bending, fabricating, all complete as per drawing, design and specification etc. all complete in all respect and accepted by Engineer-in-charge.	sqm	8381.00	8361.00	8254.00	8254.00
20.14.1	Supplying, fitting and fixing verandah railing with 2 mm thick 50 mm dia SS hand rail, 1.5 mm thick 20 mm dia 5 nos SS horizontal pipes, 2 mm thick 50 mm x 25 mm SS box vertical post @ 450 mm c/c. Among the vertical box post, 5 nos box posts will be fitted with floor bed by 65 mm x 55 mm x 6 mm SS plate, remaining SS box post will be fitted and fixed with 50 mm x 25 mm x 2 mm SS horizontal box at bottom (50 mm above from floor) including all fittings, fixtures, polishing, carrying etc. all complete as per approved design and drawing and accepted by the Engineer-in-charge.	sqm	9798.00	9768.00	9609.00	9609.00
20.14.2	Supplying, fitting and fixing verandah railing with 2 mm thick 62 mm dia SS hand rail, 1.5 mm thick 25 mm square SS box @150 mm c/c vertically, 2 mm thick 50 mm dia SS vertical post @ 900 mm c/c, 2 nos 1.5 mm thick 38 mm x 38 mm	sqm	10982.00	10967.00	10889.00	10889.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	square SS box fitting horizontally at 125mm below from top rail and 125mm above from floor, vertical box posts will be fitted with floor bed by 65 mm x 55 mm x 6 mm SS plate including all fittings, fixtures, polishing, carrying etc. all complete as per approved design and drawing and accepted by the Engineer-in-charge.					
20.14.3	Supplying, fitting and fixing verandah railing of standard height with 2 mm thick 62 mm dia SS pipe for hand-rail, 2 mm thick 75 mm x 75 mm SS square vertical post having pipe holder to provide hand rail and SS knob for horizontal pipe @ 900 mm c/c fitting by welding on 150 mm x 150 mm x 6 mm SS anchor plate at base, base plate fitting with the floor by 50mm long royal bolt, 1.5 mm thick 25 mm dia 8 nos horizontal SS pipes fitting with SS knob of vertical post including carrying, polishing, fabricating etc. all complete and accepted by the Engineer-in-charge.	sqm	12335.00	12321.00	12249.00	12249.00
20.14.4	Supplying, fitting and fixing verandah railing of standard height with 2 mm thick 62 mm dia SS pipe for hand-rail, 2 mm thick 50 mm dia vertical SS post having pipe holder to provide hand rail and SS knob for horizontal pipe @ 900 mm c/c fitting by welding on 150 mm x 150 mm x 6 mm SS anchor plate at base, base plate fitting with the floor by 50mm long rowel bolt, 1.5 mm thick 25 mm dia 8 nos horizontal SS pipes fitting with SS knob of vertical post including carrying, polishing, fabricating etc. all complete and accepted by the Engineer-in-charge.	sqm	12278.00	12263.00	12185.00	12185.00
20.15.1	Supplying, fitting and fixing 10 mm thick tempered glass railing in verandah with 62 mm dia 2 mm thick SS pipe for hand rail, 62 mm x 50 mm x 2 mm SS vertical box fitted with concrete slab by 100 mm x 55 mm x 6 mm SS plate @ 600 mm c/c and base plate fitting with the floor by 50mm long rowel bolt including all fittings, fixtures as per drawing, design and specification etc. all complete in all respect and accepted by Engineer-in-charge.	sqm	12281.00	12269.00	12196.00	12196.00
20.15.2	Supplying, fitting and fixing 10 mm thick tempered glass railing in verandah of standard height with 2 mm thick 62 mm dia SS pipe for hand-rail, 2 mm thick 50 mm dia SS vertical post having pipe holder to provide hand rail and SS glass holder @ 900 mm c/c fitting by welding on 100 mm x 100 mm x 6 mm SS anchor plate at base, base plate fitting with the floor by 50 mm long rowel bolt, 10 mm thick Tempered glass fitting between the post through glass holder as per drawing, design including carrying, polishing fabricating etc. all complete and accepted by the Engineer-in-charge.	sqm	12107.00	12095.00	12025.00	12025.00
20.15.3	Supplying, fitting and fixing 10 mm thick tempered glass railing in verandah of standard height with 1.5 mm thick 50 mm x 15 mm SS U channel at top of rail, fitting the tempered glass with 150mm/ 200 mm long SS glass clamp @ 900 mm c/c, welding the SS glass clamp on 100 mm x 100 mm x 6 mm SS base plate and fitting base plate with the floor by 50mm long rowel bolt including welding, bending, fabricating, polishing all complete as per drawing, design and specification etc. in all respect and accepted by Engineer-in-charge.	sqm	11034.00	11023.00	10959.00	10959.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
20.16	Supplying, fitting and fixing 10 mm thick tempered glass railing in verandah of standard height with 3 mm thick 50 mm x 50 mm square MS box for hand rail, 3 mm thick 75mm x 38 mm MS vertical post box @ 900 mm c/c fitting by welding on 150 mm x 100 mm x 6 mm anchor plate at base, base plate fitting with the floor by 50mm long rowel bolt, fitting 10mm thick tempered glass between the vertical post through glass holder, applying 2 (two) coats of synthetic enamel paint of approved quality over an anti-corrosive prime coat including all other accessories and carrying, fabricating etc. all complete and accepted by the Engineer-in-charge. (Rate is excluding the cost of painting).	sqm	9344.00	9331.00	9247.00	9247.00
20.17.1	Supplying, fitting and fixing verandah railing of standard height with 3 mm thick 75 mm x 50 mm MS box for vertical post box @ 900 mm c/c fitting by welding on 150 mm x 100 mm x 6 mm anchor plate at base, base plate fitting with the floor by 50 mm long rowel bolt, 3 mm thick 50 mm x 38 mm MS horizontal box fitting with the vertical post by welding @ 150 mm c/c including all other accessories and carrying, fabrication, applying 2 (two) coats of synthetic enamel paint of approved quality over an anti-corrosive prime coat etc. complete in all respect for all floors and accepted by the Engineer-in-charge. (Exposed area of railing will be considered for measurement, rate is excluding the cost of painting).	sqm	6021.00	6004.00	5912.00	5912.00
20.17.2	Supplying, fitting and fixing verandah railing of standard height with 5 mm thick 75 mm x 75 mm MS box for vertical post box @ 900 mm c/c fitting by welding on 150 mm x 150 mm x 6 mm anchor plate at base, base plate fitting with the floor by 50 mm long royal bolt, fitting 5 mm thick 50 mm x 50 mm MS horizontal box with the vertical post by welding at top of rail and 125 mm above from the floor, 3 mm thick 25 mm x 25 mm MS square box fitting by welding vertically @ 150 mm c/c between the top and bottom rail including all other accessories and carrying, fabrication, applying 2 (two) coats of synthetic enamel paint of approved quality over an anti-corrosive prime coat etc. complete in all respect for all floors and accepted by the Engineer-in-charge. (Exposed area of railing will be considered for measurement, rate is excluding the cost of painting).	sqm	6713.00	6696.00	6604.00	6604.00
20.17.3	Supplying, fitting and fixing verandah railing of standard height with 5 mm thick 75 mm x 50 mm MS box for vertical post box @ 900 mm c/c fitting by welding on 150 mm x 150 mm x 6 mm anchor plate at base, base plate fitting with the floor by 50 mm long rowel bolt, 5 mm thick 75 mm x 50 mm MS horizontal box fitting by welding with the vertical post for hand rail, 2 nos. 5mm thick 50 mm x 50 mm MS horizontal box fitting with the vertical post by welding 125 mm below the top rail and 125 mm above the floor, 3 mm thick 25 mm x 25mm MS square box fitting by welding vertically @ 150 mm c/c between the 2 nos. 50 mm x 50 mm horizontal MS box including all other accessories and carrying, fabrication, applying 2 (two) coats of synthetic enamel paint of approved quality over an anti-corrosive prime coat etc. complete in all respect for all floors and accepted by the Engineer-in-charge.	sqm	7151.00	7134.00	7043.00	7043.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	(Exposed area of railing will be considered for measurement, rate is excluding the cost of painting).					
20.18	Providing nosing to the nose of tread of stair including supplying 3 nos. of 75 mm long 12 mm x 3 mm F.I./SS bar clamps with bifurcated ends in each treads including fitting and fixing with the angle by welding and fitting and fixing the angle by cutting grooves in R.C.C, fixing and finishing and the same with C.C. (1:2:4) etc. cost of electricity and other charges all complete and accepted by the Engineer-in-charge.					
20.18.1	Providing 38 mm x 38 mm x 6 mm M.S. angle to the nosing of steps of staircase	meter	493.00	491.00	484.00	484.00
20.18.2	Providing nosing 32 mm x 32 mm x 6 mm M.S. angle to the nosing of steps of stair case.	meter	434.00	432.00	425.00	425.00
20.18.3	Providing 25 mm x 25 mm x 6 mm size M.S. angle to the nosing of stair case.	meter	376.00	374.00	367.00	367.00
20.18.4	Providing 38 mm x 38 mm x 6 mm brass angle to the nosing of steps of stair case	meter	1560.00	1559.00	1551.00	1551.00
20.18.5	Providing 38 mm x 38 mm x 6 mm S.S. angle to the nosing of steps of staircase	meter	1517.00	1515.00	1508.00	1508.00
20.18.6	Providing 32 mm x 32 mm x 6 mm S.S. angle to the nosing of steps of stair case	meter	1213.00	1211.00	1204.00	1204.00
20.18.7	Providing 25 mm x 25 mm x 6 mm size S.S. angle to the nosing of stair case.	meter	1148.00	1146.00	1139.00	1139.00
20.19	Supplying, fitting & fixing of column guard made of 50 mm x 50 mm x 6 mm M.S. angle around column & 50 mm x 6 mm F.I. bar for Tie at the top including fitting and fixing with the angle by welding, fitting and fixing the angle by cutting grooves in R.C.C, fixing and finishing the same with C.C. (1:2:4) etc. cost of electricity and other charges all complete and accepted by the Engineer-in-charge.	meter	647.00	646.00	634.00	634.00
20.20.1	Supplying, fitting & fixing of column guard made of 75 mm x 75 mm x 3 mm S.S. angle at corner of column including supplying 3 Nos. of 75 mm long 12 mm x 3 mm SS bar clamp with bifurcated ends, fitting and fixing with the angle by welding, fitting and fixing the angle by cutting grooves in R.C.C, fixing and finishing the same with C.C. (1:2:4) etc. cost of electricity and other charges all complete and accepted by the Engineer-in-charge.	meter	1875.00	1873.00	1862.00	1862.00
20.20.2	For column guard made of 50 mm x 50 mm x 3 mm S.S. angle	meter	1792.00	1791.00	1779.00	1779.00

..... END OF CHAPTER TWENTY.....

CHAPTER 21: GRILL FENCING AND BARBED WIRE FENCING

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
21.1	Supplying, fitting and fixing MS grill fencing of any design and shape in boundary wall with 31 mm x 6 mm F.I. bar @ 150 mm c/c placed vertically after cutting as per required measurement. Welding the said F.I. bar with 2 nos. horizontal 30 mm x 6 mm F.I. bar placed one at top and another at bottom including embedding/fixing the horizontal F.I. bar in position with cutting grooves in wall up to 150 mm depth and mending good the damages with C.C. (1:2:4), finishing with two coats of painting with synthetic enamel paint over a coat of anti-corrosive paint etc. complete as per drawing and design and accepted by the Engineer-in-charge. (Rate is excluding the cost of painting)	sqm	2690.00	2677.00	2594.00	2594.00
21.2	Supplying, fitting and fixing MS grill fencing of any design and shape made with 19 mm x 19 mm x 3 mm box (box made with 2 nos. 19 mm x 19 mm x 3 mm angle by continuous welding) placed vertically @ 150 mm c/c and welding the said vertical boxes with two Nos. horizontal 25 x 25 x 6 mm angle box (made with 2 Nos. 25 x 25 x 6 mm angle by welding), placing one at bottom and another at top and again fitting & fixing by welding the said horizontal tube box with 38 mm x 38 mm x 6 mm angle box vertical post made with 2 nos. 38 mm x 38 mm x 6 mm angle by welding) provided @ 1800 mm c/c including embedding the tube box post in brick R.C.C. pillar or core wall up to 375 mm depth after cutting grooves in wall/pillar including mending good the damages with C.C. (1:2:4) and finishing, curing, 2 coats of approved synthetic enamel paint over a coat of anti-corrosive paint etc. all complete as per design, drawing and accepted by the Engineer-in-charge. (Rate is excluding the cost of painting)	sqm	5404.00	5381.00	5231.00	5231.00
21.3	Manufacturing, supplying, fitting and fixing M.S. grill fencing as per design with outer frames having 38 mm x 38 mm x 6 mm M.S. angle and inner members having 10 mm dia M.S. rod placed @ 100 mm c/c diagonally on both direction, welding each criss-cross end of rod with corners of outer frame including cutting rods and size angles to required shapes and size and setting the entire fence with the previously installed box tube (box tube made with 2 nos. angle) post including thorough and full welding the frame with the angle box posts, painting 2 coats of synthetic enamel paint over a coat of anti-corrosive priming etc. all complete as per drawing and accepted by the Engineer-in-charge. (Rate is excluding the cost of paint)	sqm	2692.00	2678.00	2599.00	2599.00
21.4	Manufacturing, supplying, fitting and fixing M.S. box tube (made with 2 nos angle) post (bottom end bifurcated) made by thorough welding of two Nos. 38 x 38 x 6 mm M.S. angle and vertically placing the post into C.C. or R.C.C. foundation including cutting angle to required shape and size including covering the top of the post with 6 mm thick M.S. plate etc. all complete as per drawing and accepted by the Engineer-in-charge. (Rate is excluding the cost of C.C./R.C.C. foundation and paint)	meter	1137.00	1133.00	1108.00	1108.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
21.5	Providing barbed wire fencing with R.C.C (1:2:4) pillars @ 2.43 m c/c. and of section 100 mm x 100 mm at top and 150 mm x 150 mm at bottom of 2.13 m total height (1.37 m above G.L. and 0.76 m below G.L.) including 150 mm thick, 450 mm square spread footings (pillars reinforced with 4 Nos. 10 mm dia main rod and 6 mm dia stirrups @ 150 mm c/c, footing reinforced with 5 Nos. 10 mm dia rod both ways) supplying, fitting and fixing 8 lines of barbed wire horizontally (fixed with the post through 6 mm dia rods embedded in to the post) and 2 lines diagonally from post to post with 12 BWG 2 ply barbed wire, with 4 points barbs @ at least 112 mm c/c including 6 mm thick (1:4) cement plaster up to 1500 mm length of the pillars etc. complete and accepted by the Engineer-in-charge. (Rate is excluding the cost of concrete, reinforcement & plaster which is to be paid as per corresponding items in the schedule)	sqm	161.00	161.00	159.00	159.00
21.6	Providing barbed wire fencing with average 100 mm dia best quality local ballah post of 1.98 m total height (1.37 m above G.L. and min. 0.60 m embedded in the ground) placed at 1800 mm c/c with 9 nos. horizontal lines and 2 nos. diagonal lines of 12 BWG 2 ply barbed wire with 4 points barbs @ at least 112 mm c/c in each way of 1.8 m including embedding the post tightly in ground and providing a cement concrete base of 200 mm x 200 mm x 300 mm around ballah at E.G.L., stretching the wires and fixing with the post with the help of minimum 62 mm long G.I. nails including supply of all materials etc. all complete and accepted by the Engineer-in-charge. (Rate is excluding the cost of ballah and its driving/fixing and concrete which is to be paid as per corresponding items in the schedule)	sqm	287.00	286.00	282.00	282.00
21.7	Supplying, fitting and fixing 12 BWG barbed wire (2 ply, 4 points) in fencing work @ 150 mm c/c in both horizontally and vertically, supported by 38 mm x 38 mm x 6 mm M.S. L-shape angle post (300 mm embedded in R.C.C. or in brick work with a cement concrete base of 75 mm x 75 mm x 300 mm) 600 mm vertical and 450 mm inclined or as per requirement @ 2.4 m c/c including straightening, binding the joints with 18 BWG wire, making holes in the angle etc. including supplying all necessary materials complete in all respect and accepted by the Engineer-in-charge. (Rate is excluding the cost of paint, R.C.C /brick work or C.C. which is to be paid as per corresponding items in the schedule).	sqm	987.00	979.00	959.00	959.00
21.8	Supplying, fitting and fixing 12 BWG barbed wire (2 ply, 4 points) in fencing work @ 150 mm c/c both horizontally and vertically, supported by 38 mm x 38 mm x 6 mm M.S. Y-shape angle post (300 mm embedded in R.C.C. or in brick work with a cement concrete base of 75 mm x 75 mm x 300 mm) 600 mm vertical and 450 mm inclined or as per requirement @ 2.4 m c/c including straightening, binding the joints with 18 BWG wire, making holes in the angle etc. including supplying all necessary materials complete in all respect and accepted by the Engineer-in-charge.	sqm	1063.00	1055.00	1034.00	1034.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	(Rate is excluding the cost of paint, RCC/ brick work or CC which is to be paid as per corresponding items in the schedule).					
21.9	Supplying, fitting and fixing 12 BWG barbed wire fencing in a circular shape of 600 mm dia and 100 mm pitch fitted with MS rod casing (made by 8 nos. 10 mm dia plain bar in a circular pattern and placed at equal interval), 38 mm x 38 mm x 6 mm M.S. angle post (300 mm embedded in RCC or in brick work with a cement concrete base of 75 mm x 75 mm x 300 mm) and 600 mm vertical and 450 mm inclined placed @ 3.0 m c/c including straightening, binding the joints with 18 BWG wire, making holes in the angle etc. including supply of all necessary materials complete in all respect and accepted by the Engineer-in-charge. (Rate is excluding the cost of Painting).	meter	2623.00	2617.00	2568.00	2568.00
21.10	Supplying, fitting and fixing Fency grill in Boundary wall made of 10 mm dia M.S. rod provided @ 75 mm c/c in any position both ways as per design with outside frame of 50 mm x 50 mm x 6 mm M.S. tube and two inner frame made of 25 mm x 25 mm x 6 mm M.S. tube including fabricating, welding in each point, painting 2 coats of synthetic enamel paint over a coat of anti-corrosive priming including cost of electricity, tools and plants, workshop charges, carriage of the same including cutting groves in the RCC or brick work, mending good the damages with CC (1:2:4) etc, all complete for all floors accepted by the Engineer-in-charge. [Rate is excluding the cost of painting]	sqm	4320.00	4314.00	4276.00	4276.00
21.11.1	Manufacturing, supplying, fitting and fixing SS grill fencing (Grade 304) as per design in boundary wall with 50 mm x 50 mm x 1.5 mm box horizontal section for top & bottom part & 25 mmx1.5 mm SS round horizontal section @ 4" c/c between top & bottom which are attached with 4 mm thickness SS base plate of required size & SS rowel bolt with side column/ wall, 37 mm x 1.5 mm SS round vertical section 3'-0" c/c section attached with bottom RCC section and top SS vertical section with required welding, mending good the damages with concrete (1:2:4) required polishing, finishing etc. all complete as per drawing and accepted by the Engineer-in-charge.	sqm	14100.00	14092.00	14057.00	14057.00
21.11.2	Manufacturing, supplying, fitting and fixing SS grill fencing (Grade 201) as per design in boundary wall with 50 mm x 50 mm x 1.5 mm box horizontal section for top & bottom part & 25 mm x 1.5 mm SS round horizontal section @ 4" c/c between top & bottom which are attached with 4 mm thickness ss base plate of required size & SS rowel bolt with side column/ wall, 37 mm x 1.5 mm SS round vertical section 3'-0" c/c section attached with bottom RCC section and top SS vertical section with required welding, mending good the damages with concrete (1:2:4) required polishing, finishing etc. all complete as per drawing and accepted by the Engineer-in-charge.	sqm	9668.00	9659.00	9624.00	9624.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
21.12	Supplying, fitting and fixing fancy grill in Boundary wall made of 38 mm x 38 mm x 6 mm M.S. tube vertical section @ 150 mm c/c and 19 mm x 19 mm x 3 mm M.S. Tube horizontal section @ 900 mm c/c fabricating, welding in each point, including cost of electricity, tools and plants, workshop charges, carriage of the same including cutting grooves in the R.C.C. or brick work, mending good the damages with C.C. (1:2:4) etc, all complete for all floors accepted by the Engineer-in-charge. (Rate is excluding the cost of painting)	sqm	3027.00	3021.00	2995.00	2995.00
21.13	Supplying, fitting and fixing SS galvanized barbed wire (dia 2.5 mm) fencing in a circular shape of 100 mm pitch fitted with SS rod casing (made by 6 nos. 10 mm dia SS solid bar(304 grade)) in a circular pattern and placed at equal interval), 38 x 38 x 6 mm S.S. angle(304 grade) Y-post 600 mm vertical and 450 mm inclined placed @ 1.5 m c/c (300 mm embedded in R.C.C. or in brick work with a cement concrete base of 75 mm x 75 mm x 300 mm) and including straightening, binding the joints with 18 BWG wire, making holes in the angle etc. including supply of all necessary materials complete in all respect and accepted by the Engineer-in-charge.					
21.13.1	600 mm circular dia	meter	11809.00	11801.00	11764.00	11764.00
21.13.2	450 mm circular dia	meter	10404.00	10396.00	10358.00	10358.00
21.14	Supplying, fitting and fixing SS galvanized barbed wire(dia 2.5 mm) fencing in a circular shape of 100 mm pitch fitted with SS rod casing (made by 6 nos. 10 mm dia SS solid bar(201 grade)) in a circular pattern and placed at equal interval), 38 x 38 x 6 mm S.S. angle(201 grade) Y- post 600 mm vertical and 450 mm inclined placed @ 1.5 m c/c (225 mm embedded in R.C.C. or in brick work with a cement concrete base of 75 mm x 75 mm x 225 mm) including straightening, binding the joints with 18 BWG wire, making holes in the angle etc. including supply of all necessary materials complete in all respect and accepted by the Engineer-in-charge.					
21.14.1	600 mm circular dia	meter	10806.00	10798.00	10761.00	10761.00
21.14.2	450 mm circular dia	meter	8633.00	8625.00	8588.00	8588.00
21.15	Manufacturing, supplying, fitting and fixing steel grill fencing in boundary wall with 38 mm dia MS Pipe with thickness 6 mm placed @ 150 mm c/c vertically and mending good the damages with C.C. (1:2:4), finishing with two coats of painting with synthetic enamel paint over a coat of anti-corrosive paint etc. complete as per drawing and design and accepted by the Engineer-in-charge. (Rate is excluding the cost of painting)	sqm	4462.00	4451.00	4403.00	4403.00

..... END OF CHAPTER TWENTY ONE.....

CHAPTER 22: MISCELLANEOUS ITEMS

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
22.1	Supplying, fitting and fixing of wooden wedge (12 mm base x 12 mm height) instead of putty for fixing glass panes with wooden frame by nails or by any other approved method including the cost of necessary wood (Garjan/ Jam/ Local sal), nails etc. all complete and accepted by the Engineer-in-charge. (Rate is excluding the cost of wooden frame, painting and 5 mm thick glass panes)	meter	81.00	80.00	77.00	77.00
22.2	Supplying, fitting and fixing of best quality of different dia foreign made aluminium pipe curtain rail for door and window including cutting and fitting-fixing as per required measurement and supplying necessary screws, SS clamp, electric drill and rowel plug including charge of electricity etc. all complete and accepted by the Engineer-in-charge.					
22.2.1	20 mm dia Aluminium pipe curtain rail	meter	631.00	736.00	729.00	729.00
22.2.2	25 mm dia Aluminium pipe curtain rail	meter	814.00	813.00	810.00	810.00
22.3	Supplying, fitting and fixing different dia best quality Stainless steel (SS) pipe as curtain rail for door and windows including cutting and fitting fixing as per required measurement and supplying heavy type SS Clamps & 2 nos SS End Caps, necessary screws, electric drill and rowel plug including charge of electricity etc. all complete and accepted by the Engineer-in-charge.					
22.3.1	20 mm dia Stainless steel (SS) pipe with wall thickness 1.00 mm.	meter	579.00	578.00	574.00	574.00
22.3.2	25 mm dia Stainless steel (SS) pipe with wall thickness 1.20 mm.	meter	709.00	709.00	705.00	705.00
22.3.3	32 mm dia Stainless steel (SS) pipe with wall thickness 1.20 mm.	meter	883.00	882.00	878.00	878.00
22.4	Supplying, fitting and fixing special quality 10 mm thick clear tempered glass door including all accessories, 1 set floor mounted auto door closure, 2 nos. clamping devices, 1 set locking device, top hinge and handle etc. complete in all respect as per drawing and direction of the Engineer-in-charge.	sqm	16256.00	16253.00	16224.00	16224.00
22.5	Supplying, fitting and fixing best quality of different thick clear glass partition with 44 mm, 44 mm, 1.5 mm aluminium box, protector bit (single), protector bit (double), Silicon including all accessories etc. all complete and as per drawing and direction of the Engineer-in-charge.					
22.5.1	8 mm thick clear glass partition with aluminium box	sqm	3082.00	3071.00	3024.00	3024.00
22.5.2	10 mm thick clear glass partition with aluminium box	sqm	3250.00	3238.00	3192.00	3192.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
22.6	Supplying, fitting and fixing of Chattogram Teak wood strip (62 mm x 25 mm x 20 mm) for fixing of aluminium curtain rails as per design and drawing, fitting and fixing coat of priming etc. all complete and accepted by the Engineer-in-charge. (Rate is excluding the cost of polishing etc.)	meter	940.00	925.00	903.00	903.00
22.7	Supplying, fitting and fixing vertical venetian blinds made with glass fiber fabrics (foreign made) with supply of all the best quality materials (foreign made) such as head rail (aluminium), end cap-set, rod tilt, sigger (stopper), runner, spacer (link), handling cord, ball chain, link chain, cord-weight weight-plate plastic washer, glass fiber fabrics, and head cap-set etc. all complete and accepted by the Engineer-in-charge.	sqm	2086.00	2086.00	2086.00	2086.00
22.8	Supplying, fitting and fixing horizontal venetian blinds of 25 mm width made with aluminium foils/ strips (foreign made) with supply of all materials (foreign made) such as head rail, bottom rail, rod tilt, head cap, bottom cap, gear box, stick, support and cap, cord drum and support, bracket, cord lock, cord equalizer, top holder, ladder, cord, handling cord and aluminium foils etc. all complete and accepted by the Engineer-in-charge.	sqm	1610.00	1611.00	1610.00	1610.00
22.9	Supplying, fitting and fixing of horizontal zebra blind made with polyester fabrics, synthetic net with 3 inch vinyl/upvc coated strips (foreign made) with supply of all materials (foreign made) such as head rail, bottom rail, rod tilt, head cap, bottom cap, gear box, stick, support and cap, cord drum and support, bracket, cord lock, cord equalizer, top holder, ladder, cord, handling cord and aluminium foils etc. all complete and accepted by the Engineer-in-charge.	sqm	3551.00	3552.00	3551.00	3551.00
22.10	Supplying, fitting and fixing of blackout/ translucent roller blind of PVC/ vinyl laminated fiberglass fabrics (foreign made) with supply of all materials (foreign made) such as head rail (aluminium), end cap-set, rod tilt, sigger (stopper), runner, spacer (link), handling cord, ball chain, link chain, cord-weight weight-plate plastic washer, glass fiber fabrics, and head cap-set etc. all complete and accepted by the Engineer-in-charge.	sqm	2923.00	2885.00	2885.00	2885.00
22.11	Supplying, fitting and fixing of steel iron rack made of 50 mm x 50 mm x 6.35 mm vertical and horizontal angle post, welding 63.5 mm x 6.35 mm F.I. bar placed horizontally as bracing for the posts, 38 mm x 6.35 mm cross F.I. bars welded with vertical post, 7.81 mm thick M.S plate welded as cup shape at the bottom of post, supplying and fitting rivets, charge for welding, drilling, carrying, cutting, straightening in required sizes etc complete in all respect as per drawing, design and accepted by the Engineer-in-charge.	sqm	11559.00	11379.00	11110.00	11110.00
22.12	Supplying, fitting and fixing of the best quality any sizes uPVC plastic door shutter with frame having specific gravity of 1.35 - 1.45, panel wall thickness 1.7 mm-2.2 mm, shutter/panel thickness 37.5 mm & weighing 17.25 kg/m ² and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer	sqm	3878.00	3878.00	3878.00	3878.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	standards and ASTM, BS/ISO/IS standards of different sizes uPVC plastic door shutter with uPVC plastic frame (frame size:150mm x 62.50mm) fitting - fixing in brick wall/ R.C.C wall with at least 3 Nos. SS hinges by min 64 Nos. Ø 3.17 mm and 3.97 mm 12.7 mm long rivets, 12 nos. 25.4 mm SS screws, Ø 9.38 mm, 150 mm long SS tower bolts 2 nos., 146 mm SS handle by rivet 6 Nos., G.I inner joint, 234.95 mm x 127 mm clamp, 76.2 mm x 57.15 mm, 6 Nos. GI clamp, 2 nos. outer GI joint clamp making necessary grooves and mending good the damages, finishing, curing, carrying the same to the site and local carriage etc. complete in all respect and accepted by the Engineer-in-charge.					
22.13	Supplying, fitting and fixing of the best quality any size uPVC plastic door shutter with frame having specific gravity of 1.35 - 1.45, panel wall thickness 2.4 mm-2.76 mm, shutter/panel thickness 37.5 mm & weighing 27.00 kg/m ² and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards and cosmic /Foam /aristocrat or equivalent standards of different sizes uPVC plastic door shutter with uPVC plastic frame (frame size:150mm x 62.50mm) fitting - fixing in brick wall/ R.C.C wall with at least 3 Nos. SS hinges by min 64 Nos. Ø 3.17 mm and 3.97 mm 12.7 mm long rivets, 24 nos. 25.4 mm SS screws, Ø 9.38 mm, 150 mm long SS tower bolts 2 nos., 146 mm SS handle by rivet, 6 Nos. GI clamp, 6 Nos. G.I inner joint, 234.95 mm x 127 mm clamp, 76.2 mm x 57.15 mm, including making necessary grooves and mending good the damages, finishing, curing, local carriage etc. complete in all respect and accepted by the Engineer-in-charge.	sqm	7057.00	7042.00	6980.00	6980.00
22.14	Supplying, fitting & fixing of uPVC plastic or glass partition in plastic frame fabricated by 70 mm x 50 mm x 2 mm T and 50 mm x 40 mm x 2 mm / 50 mm x 30 mm x 2 mm L-sections, providing partition with 156 mm x 25 mm uPVC hollow section having wall thickness of 2.5 mm / partition with 5 mm thick glass. physical, chemical, thermal, fire resistivity properties etc of the materials as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards, fitted and fixed in brick wall or R.C.C wall with 6 nos. GI clamps, 4 nos. inner joint GI clamps, 2 nos. outer GI joint clamps, 16 nos. rivets, making necessary grooves and mending good the damages, finishing, curing, carriage etc complete in all respect and accepted by the Engineer-in-charge.					
22.14.1	With partition of uPVC hollow section	sqm	2871.00	2864.00	2818.00	2818.00
22.14.2	With 5 mm glass	sqm	2738.00	2733.00	2703.00	2703.00
22.15	Supplying, fitting & fixing of uPVC Profile for door, window and fixed partition frames applications having specific gravity of 1.36-1.43, and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards including all accessories, fittings with 6 nos. steel clamps complete in all respect as per drawing and accepted by the Engineer-in-charge.	meter	635.00	650.00	634.00	634.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
22.16	Supplying, fitting & fixing of swing door shutter made of low density free foam (LDFF) sheet having standard size 1200 mm x 3200 mm. Physical properties: density: 0.55-0.68 g/cm ³ , weighing 1.3 kg/sft, providing new sash (100 mm), sliding glass bead, rubber, screws, 75 mm hinges 4 Nos., 100 mm tower bolt 2 Nos., 150 mm handle 2 nos. etc. including all accessories complete in all respect as per drawing and accepted by the Engineer-in-charge.					
22.16.1	1950 mm x 750 mm size 8 mm thick uPVC swing door shutter	each	11407.00	11574.00	11341.00	11341.00
22.16.2	2100 mm x 750 mm size 8 mm thick uPVC swing door shutter	each	11726.00	11906.00	11673.00	11673.00
22.16.3	2100 mm x 900 mm size 8 mm thick uPVC swing door shutter	each	12439.00	12629.00	12368.00	12368.00
22.17	Supplying, fitting & fixing of plastic wall paneling with 3 mm sheet, weighing 0.188 kg/sft, fitting and mending good the damages, carriage to the site including glass bead, partition frame, rubber, 5 mm clear glass fitted and fixed with screws, steel clamp etc. all complete and accepted by the Engineer-in-charge.	sqm	1396.00	1390.00	1345.00	1345.00
22.18	Supplying, fitting & fixing of uPVC profile fixed partition with 5 mm clear glass, weighing 1.032 kg/sft, fitting and mending good the damages, carriage etc. complete in all respect and accepted by the Engineer-in-charge.	sqm	3857.00	3897.00	3819.00	3819.00
22.19	Supplying, fitting & fixing of uPVC profile sliding window having gross weight of 14.00 kg/sqm (including 5 mm glass) fitting and mending good the damages, carries etc complete in all respect accepted by the Engineer-in-charge.					
22.19.1	uPVC sliding window with 5 mm glass (1200 mm x 1200 mm size)	sqm	5839.00	5864.00	5757.00	5757.00
22.19.2	uPVC sliding window without glass (1200 mm x 1200 mm size)	sqm	4936.00	4960.00	4853.00	4853.00
22.20	Supplying, fitting & fixing of plastic wood paneling in false ceiling with 6 mm sheet, weighing 3.85 kg/sqm, fitting and mending good the damages, carries etc complete in all respect and accepted by the Engineer-in-charge.	sqm	1492.00	1485.00	1437.00	1437.00
22.21	Supplying, fitting and fixing of approved quality 190 mm x 190 mm size glass bricks in round stair wall including all accessories & charges, complete in all respect and accepted by the Engineer-in-charge.	sqm	16986.00	16984.00	16842.00	16842.00
22.22	Supplying, fitting & fixing 50 mm thick rock or glass wool padding of approved quality and accepted by the Engineer-in-charge.	sqm	4473.00	4449.00	4412.00	4412.00
22.23	Manufacturing supplying, fitting and fixing of single leaf louver door shutter made with 16 gauge thick 50 mm x 50 mm SS hollow box as outer frame, 16 gauge thick 50 mm x 38 mm SS hollow box as panel frame and 18 gauge thick 50 mm x 12 mm SS hollow box as louver with 150 mm long	sqm	25320.00	25303.00	25149.00	25149.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	12 mm dia SS handle, 300 mm long 20 mm dia ss hasp bolt, 100 mm hinges etc., complete in all respect and accepted by the Engineer-in-charge.					
22.24.1	Supplying, laying, fitting & fixing best quality 225 mm dia (internal) machine made RCC pipe over 100 mm thick cement concrete (1:3:6) at base and sides including single brick flat soling and gasket with cement mortar (1:4) joints, cutting and filling trenches up to required depth including excavation of soil etc. all complete in all respect as per type plan and accepted by the Engineer-in-charge (average depth of trench is 1050 mm). (Cement: CEM-II/B-M)	meter	1496.00	1494.00	1479.00	1479.00
22.24.2	Supplying, laying, fitting & fixing best quality 300 mm dia (internal) machine made RCC pipe over 100 mm thick cement concrete (1:3:6) at base and sides including single brick flat soling and gasket with cement mortar (1:4) joints, cutting and filling trenches up to required depth including excavation of soil etc. all complete in all respect as per type plan and accepted by the Engineer-in-charge. (average depth of trench is 1050 mm). (Cement: CEM-II/B-M)	meter	2380.00	2376.00	2357.00	2357.00
22.24.3	Supplying, laying, fitting and fixing best quality 900 mm dia (internal) machine made R.C.C. pipe with socket over 100 mm thick cement concrete (1:3:6) at base and sides including single layer brick flat soling, cutting and filling trenches up to required depth including excavation of soil etc. complete in all respect as per type plan and accepted by the Engineer-in-charge (Cement: CEM-II/B-M). [Rate is excluding cost of excavation, back-fill, materials for back-fill and bedding]	meter	12312.00	12294.00	12199.00	12199.00
22.25	Supplying, making, fitting & fixing of R.C.C. door/window frame of 155 mm x 65 mm which is made by using M.S. rod ($f_y = 400$ MPa) fabrication work with 24 BWG G.I. wire, steel formworks with minimum cement concrete relates mix ratio (1:2:4) having minimum $f_{cr} = 27$ MPa & satisfying a specified compressive strength, $f_c = 22$ MPa at 28 days and cement conforming to BDS EN-197-1-CEM-I, 52.5N, best quality 50% quantity of local sand (F.M. 1.2) and 50% quantity of coarse sand (F.M. 2.2), 6 mm down well graded stone chips, screening, making, placing in position, making shutter/formworks water-tight properly, jute hessian, polythene sheet, placing of 100 mm long welded iron hinges with 6 mm dia M.S. rod clamp in position and mixing with mixer machine, casting in forms, compacting properly and curing at least for 21 days, removing shuttering and demoulding etc. all complete including the cost of water, electricity and other charges as per design, drawing and accepted by the Engineer-in-charge. (Considering cross section of the frame 153 mm x 64 mm).	meter	552.00	549.00	533.00	532.00
22.26	Supply & installation of fire rated door complete & accepted by the Engineer-in-charge with the following specification: Standard(s) for safety: UL Certified, NFPA 80 standard. ANSI / UL 10C: Positive pressure of fire tests of door assemblies. ANSI / UL 10B: Fire tests of door assemblies.	sqm	50422.00	50422.00	50422.00	50422.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	UL Subject 63: Outline of investigation for fire frames. Shutter materials: Mild steel. Fire resistivity (Door & frame): Two hours. Fire resistivity (accessories): Three hours (panic bar, pul handle, ceramic fibre tape for sealing smoke, hinge, bolt and screw, mortice lock, door closer. Door frame: 2 vertical fire resisting jamb and 1 fire resisting horizontal jamb made with single rabbet hollow steel channel frame made of 2.3 mm imported cold rolled mild steel sheet. Four SS hinges (size: 112 mm x 100 mm x 3.4 mm) are used on each leaf screwed with frame. Door leaf: Door leaf faces consists of 1.6 mm thick imported cold rolled MS sheet attached together using interlocking mechanism and tack welding which is filled with imported 100 kg/m ³ rock wool cake. Stiffeners should be used inside to strengthen structure. Vision Panel: Made of UL certified 5 mm glass. It has clear vision area of 150 mm x 100 mm. Its frame is made of 1.6 mm imported cold rolled MS sheet and SS pop rivet used for fixing. Ceramic fibre tape is used for sealing smoke. Internal insulation: Rock wool. Surface treatment: All MS sheets are chemically treated coated with zinc phosphate before assembly in highly equipped chemical treatment plant. All chemicals are imported. Paint Finish: Epoxy powder coated paint finish and curing in temperature controlled gas oven.					
22.27	Supplying, fitting and fixing special quality 10 mm thick clear tempered glass digital Honour board including all accessories, heavy type 6 nos. SS clamping devices/SS knob, digital print name plate including making hole etc. complete in all respect as per drawing and direction of the Engineer-in-charge.	sqm	11260.00	11238.00	11147.00	11147.00

..... END OF CHAPTER TWENTY TWO.....

CHAPTER 23: FERROCEMENT WORKS

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
23.1	Supplying, fitting & fixing of pre-cast ferrocement roof panel which is made by using vibration table & steel shutter with minimum cement content relates to mix ratio 1:2 for flange having minimum compressive strength 30 MPa (28 days standard cube strength) and cement conforming to BDS EN-197-1-CEM-I, 52.5N, best quality coarse sand of equivalent F.M. 2.2, 2 layers of 18 BWG galvanized/ epoxy coated wire mesh having minimum yield strength $f_y = 450$ MPa & having 2 meshes per 25 mm and reinforced cement concrete works for rib with minimum cement content relates to mix ratio 1:1.5:3 having minimum $f_{cr} = 33.5$ MPa and satisfying a specified compressive strength $f_c = 25$ MPa, best quality coarse sand of equivalent F.M. 2.2 and 12 mm down well graded stone chips conforming to ASTM C-33, supplying, fabrication and fixing to details as per design, deformed bar reinforcement BDS ISO 6935-2:2006, including straightening and cleaning rust, if any, bending and binding in position with supply of 24 nos GI wires, remove the shuttering, lifting the panel to floor/roof level, keeping on proper position, filling the interstices with cement concrete (1:1.5:3), satisfying a specified compressive strength $f_c = 25$ MPa, stitching overlapped wire meshes with 18 BWG GI wire, filling with mortar (1:2), casting of 25 mm thick as screeding (1:1.5:3) using 6 mm down stone chips and M.S. rod ($f_y = 400$ MPa) with fabrication over F.C. panel including the cost of reinforcement & wire mesh, curing at least for 7 days including the cost of water, electricity and other charges all complete as per design, drawing and accepted by the Engineer-in-charge.					
23.1.1	For ground floor, span up to 3810 mm for floor/ roof slab.	sqm	3110.00	3090.00	3024.00	3016.00
23.1.2	Add for each additional span length of 150 mm long direction (3810 mm < span $\leq$ 4800 mm)	sqm	9.00	9.00	9.00	9.00
23.1.3	Add for each additional floor above ground floor	sqm	40.00	40.00	40.00	40.00
23.2	Supplying, fitting & fixing of 20 mm thick ferrocement folded plate roof which is made by using vibration table & steel shutter with minimum cement content relates to mix ratio 1:2, having minimum compressive strength of 30 MPa (28 days standard cube strength) and cement conforming to BDS EN-197-1-CEM-I, 52.5N, best quality coarse sand of equivalent F.M. 2.2, 1 layer of 20 BWG galvanized/ epoxy coated wire mesh having minimum yield strength $f_y = 450$ MPa & having 2 meshes per 25 mm, fabrication and fixing to details as per design, deformed bar reinforcement BDS ISO 6935-2:2006, including straightening and cleaning the rust, if any, bending and binding in position with supply of 24 BWG GI wires, removing the shutter, lifting, keeping on proper position, curing at least for 7 days including the cost of water, electricity and other charges all complete as per design, drawing and accepted by the Engineer-in-charge.					
23.2.1	For ground floor, span up to 3810 mm	sqm	2524.00	2508.00	2465.00	2464.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
23.2.2	Add for each additional span length of 150 mm long direction (3810 mm < span ≤ 4800 mm)	sqm	9.00	9.00	9.00	9.00
23.2.3	Add for each additional floor above ground floor	sqm	40.00	40.00	40.00	40.00
23.3	Supplying, fitting & fixing of 20 mm thick ferrocement corrugated sheet roof which is made by using vibration table & steel shutter with minimum cement content relates to mix ratio 1:2, having minimum compressive strength of 30 MPa (28 days standard cube strength) and cement conforming to BDS EN-197-1-CEM-I, 52.5N, best quality coarse sand of equivalent F.M. 2.2, 1 layer of 20 BWG galvanized/epoxy coated wire mesh having minimum yield strength $f_y=450$ MPa & having 2 meshes per 25 mm and supplying, fabrication and fixing to details as per design, deformed bar reinforcement BDS ISO 6935-2:2006 including straightening and cleaning rust, if any, bending and binding in position with supply of 24 nos GI wires, removing the shutter, lifting on ground floor roof, keeping on proper position, curing at least for 28 days including the cost of water, electricity and other charges all complete as per design, drawing and accepted by the Engineer-in-charge.					
23.3.1	For ground floor, span up to 3810 mm for floor/ roof slab.	sqm	2044.00	2035.00	2011.00	2010.00
23.3.2	Add for each additional floor above ground floor	sqm	40.00	40.00	40.00	40.00
23.4	Supplying, fitting & fixing of pre-cast Ferrocement L-Panel which is made by using vibration table & steel shutter with minimum cement content relates to mix ratio 1:2 for flange having minimum compressive strength of 30 MPa (28 days standard cube strength) and cement conforming to BDS EN-197-1-CEM-I, 52.5N, best quality coarse sand of equivalent F.M. 2.2, 2 layers of 20 BWG galvanized/ epoxy coated wire mesh having minimum yield strength $f_y=450$ MPa & having 2 meshes per 25 mm and reinforced cement concrete works for rib with minimum cement content relates to mix ratio 1:1.5:3 having minimum $f_{cr} = 33.5$ MPa and satisfying a specified compressive strength $f_c = 25$ MPa, best quality coarse sand of equivalent F.M. 2.2 and 12 mm down well graded stone chips conforming to ASTM C-33, supplying, fabrication and fixing to details as per design, deformed bar reinforcement BDS ISO 6935-2:2006 including straightening and cleaning rust, if any, bending and binding in position, curing at least for 28 days with supply of GI wires, remove the shuttering of ferrocement L-panel, lifting the panel to floor/roof level, keeping on proper position, the cost of water, electricity and other charges all complete as per design, drawing and accepted by the Engineer-in-charge.					
23.4.1	For ground floor, span up to 3810 mm for floor/ roof slab.	sqm	1797.00	1790.00	1761.00	1757.00
23.4.2	Add for each additional floor above ground floor	sqm	40.00	40.00	40.00	40.00
23.5	Supplying, making and fitting fixing of ferrocement door/ window frame 155 mm x 65 mm which is made by using M.S. rod ($f_y = 400$ MPa) fabrication work minimum	meter	766.00	761.00	738.00	737.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	cement content relates to mix ratio 1:2 cement conforming to BDS EN-197-1-CEM-I, 52.5N; coarse sand (F.M. 2.2), cutting, bending, binding of one layer 20 BWG galvanized / epoxy coated wire mesh having minimum yield strength $f_y=450$ MPa & 12 mm c/c gap in both directions with 24 BWG. G.I. wire, jute hessian, polythene sheet, placing of 100 mm long welded iron hinges including 6 mm dia M.S. rod clamp fittings, fixing in position, casting with neat cement finishing demoulding and lean cement sand (1:8) cement, sand (F.M. 1:2) and curing at least for 28 days etc. all complete including the cost of water, electricity, testing and other charge as per design, drawing and accepted by the Engineer-in-charge. (Considering x- section of the frame is 153 mm x 64 mm).					
23.6	25mm thick cast-in-situ ferrocement wall with minimum cement content relates to mix ratio 1:2, cement conforming to BDS EN-197-1-CEM-I, 52.5N, and best quality coarse sand (F.M. 2.2) M.S. rod fabrication in accordance with BDS, ISO 6935-2:2006 straightening and cleaning rust if any, bending and binding in position with supply of 8 mm dia M.S. rod 250 mm c/c vertically, 6 mm dia 250 mm c/c horizontally, 24 nos G.I. wire splices laps etc. 2 layers of 20 BWG galvanized wire mesh having minimum yield strength $f_y=450$ Mpa & 2 mesh per 25 mm, casting and finishing the both surfaces with cement sand (F.M.-1.2) mortar (1:3) and curing at least for 21 days, including the cost of water, electricity and other charges in all complete as per drawing, design and accepted by the Engineer-in-charge.	sqm	2225.00	2208.00	2160.00	2160.00
23.7	Supplying, fitting & fixing of 25 mm thick pre-cast ferrocement wall panel with minimum cement content relates to mix ratio 1:2, cement conforming to BDS EN-197-1-CEM-1, 52.5N and best quality coarse sand (F.M. 2.2) and 2 layers of 20 BWG galvanized wire mesh having minimum yield strength $f_y=450$ Mpa & 2 mesh per 25 mm, including cutting, binding, bending, with 24 B.W.G. G.I. wire, casting and finishing the both surfaces with cement sand (F.M.-1.2) Mortar (1:3) and curing at least for 21 days before lifting, fitting & fixing the Ferrocement plate in proper position with making rib, supply of 8 mm dia M.S. rod 250 mm c/c vertically, 6 mm dia 250 mm c/c horizontally fabrication in accordance with BDS, ISD 6935-2.2006 straightening and cleaning rust if any, bending and binding in position with supply of G.I. wire etc. the cost of water, electricity and other charges, complete in all respect and accepted by the Engineer-in-charge.					
23.7.1	Ground Floor	sqm	1960.00	1951.00	1922.00	1922.00
23.7.2	Add for each additional floor above ground floor	sqm	20.00	20.00	20.00	20.00
23.8	90 mm thick partition wall with ferrocement sandwich panel wall (cast in situ) using mortar having compressive strength not less than 15.0 N/mm ² and fitting-fixing of EPS sheet size(3000 mm x 1200 mm x 63 mm), 8 mm M.S. bar and its fabrication in both side with 20 BWG galvanized wire mesh having minimum yield strength $f_y=450$ Mpa & 2 mesh per					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	25 mm, in compliance with ASTM C129 fairly uniform thickness and water absorption not more than 7% including necessary scaffolding, cleaning and curing at least for 7 days including cost of water, electricity and other charges etc. in all complete accepted by the Engineer-in-charge.					
23.8.1	Ground Floor	sqm	2596.00	2582.00	2540.00	2539.00
23.8.2	Add for each additional floor above ground floor	sqm	15.00	15.00	15.00	15.00
23.9	40 mm ferro-cement slab on soil-cement stabilized sub-grade in ground floor etc. with minimum cement content relates to mix ratio 1:2 having minimum compressive strength of 30 MPa (28 days standard cube strength) and cement conforming to BDS EN-197-1-CEM-1, best quality coarse (F.M. 2.2) sand, 2 layer of 20 BWG galvanized/epoxy coated wire mesh having minimum yield strength $f_y=450$ Mpa & having 2 mesh per 25 mm with minimum clear cover 12 mm both top & bottom, true to desired level, placing, compacting, curing at least for 7 days in ground floor including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge.	sqm	1487.00	1479.00	1462.00	1461.00

..... END OF CHAPTER TWENTY THREE.....

CHAPTER 24: ROAD AND PAVEMENT WORKS

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
24.1	Earth work in road embankment up to a lift of 1.5 m in all kinds of soil including cutting and throwing earth in layers not exceeding 150 mm in thickness, breaking clods up to 40 mm size in each layer, ramming, leveling and dressing as per required side slope and alignment with earth borrowed from the road side govt. acquired land for any leads and maintaining the embankment true to level and side slopes as per profiles for one year from the date of completion including making dug, bailing, profiling etc. complete and accepted by the Engineer-in-charge.					
24.1.1	For initial lift of 1.5 m	cum	206.00	203.00	188.00	188.00
24.1.2	For additional lift of 1 m beyond 1.5 m up to 2.5 m	cum	236.00	231.00	214.00	214.00
24.1.3	For additional lift of 1 m beyond 2.5 m up to 3.5 m	cum	265.00	260.00	241.00	241.00
24.1.4	For additional lift of 1 m beyond 3.5 m up to 4.5 m	cum	295.00	289.00	268.00	268.00
24.1.5	For additional lift of 1 m beyond 4.5 m up to 5.5 m	cum	324.00	318.00	295.00	295.00
24.1.6	For additional lift of 1 m beyond 5.5 m up to 6.5 m	cum	353.00	347.00	321.00	321.00
24.2	Earthwork in box cutting in all types of soil. Removing soil to a safe distance, maintaining proper alignment, camber and grade including leveling, dressing and compacting the sub grade as per drawing and accepted by the Engineer-in-charge.					
24.2.1	Depth up to 300 mm	sqm	68.00	67.00	62.00	62.00
24.2.2	Depth up to 450 mm	sqm	102.00	100.00	92.00	92.00
24.3	Creating turf on the side slopes and top of embankment with good quality turf not less than 225 mm square chunk, watering till the grass grown including all leads and lifts etc. complete and accepted by the Engineer-in-charge.	sqm	23.00	23.00	21.00	21.00
24.4.1	Single layer brick flat soling in road work with first class or picked jhama bricks as per alignment, camber and grade including filling joints with sand (F.M. 0.80) etc. complete including cost of all materials and accepted by the Engineer-in-charge.	sqm	690.00	687.00	657.00	657.00
24.4.2	One layer of Concrete Solid Block Soling having minimum compressive strength of 15 MPa and water absorption not greater than 7% of size (240 x 114 x 70) mm in road work including preparation of bed and filling the interstices with fine sand (F.M.= 0.8), leveling etc. all completed by the contractor and accepted by the Engineer-in-charge.	Sqm	680.00	678.00	667.00	667.00
24.5.1	Herring bone bond (HBB) with brick on edges pavement with first class or picked jhama bricks as per alignment, camber and grade over 12 mm thick sand cushion (F.M. 0.80) including filling the joints with the same sand including cost of all materials and accepted by the Engineer-in-charge.	sqm	1121.00	1117.00	1068.00	1068.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
24.5.2	Herring bone bond (HBB) with brick on edges pavement with Concrete Solid Block (240 x 114 x 70 mm) having minimum compressive strength of 15 MPa and water absorption not greater than 7% of size (240 x 114 x 70) mm as per alignment, camber and grade over 12 mm thick sand cushion (F.M. 0.80) including filling the joints with the same sand including cost of all materials and accepted by the Engineer-in-charge.	Sqm	1121.00	1117.00	1102.00	1102.00
24.6	Double brick flat soling in roadwork with first class or picked jhama bricks as per alignment, camber and grade including filling the joints with fine sand (F.M. 0.80) and also providing 12 mm thick sand cushion in between the two layers of brick flat soling with the same quality of sand including cost of all materials and accepted by the Engineer-in-charge.	sqm	1388.00	1382.00	1322.00	1322.00
24.7.1	Brick on end edging (75 mm across the road) with first class or picked jhama bricks and filling the gaps with fine sand (F.M. 0.80) including cutting trenches, true to level and grade, removing earth, refilling and ramming the sides properly including cost of all materials and accepted by the Engineer-in-charge.	meter	175.00	174.00	166.00	166.00
24.7.2	Brick on end edging (75 mm across the road) with Concrete Solid Block (240 x 114 x 70 mm) having minimum compressive strength of 15 MPa and water absorption not greater than 7% of size (240 x 114 x 70) mm and filling the gaps with fine sand (F.M. 0.80) including cutting trenches, true to level and grade, removing earth, refilling and ramming the sides properly including cost of all materials and accepted by the Engineer-in-charge.	meter	175.00	174.00	172.00	172.00
24.8	Breaking picked jhama, first class bricks or bats including cost of bricks and bats and stacking in measurable sizes at site accepted by the Engineer-in-charge.					
24.8.1	For 62 mm to 40 mm size	cum	5779.00	5763.00	5511.00	5511.00
24.8.2	For 40 mm to 25 mm size	cum	6024.00	6004.00	5734.00	5734.00
24.9	Providing compacted water bound macadam base course with graded material of crushed well burnt, picked jhama or first class bricks and bats (50 mm downgraded brick chips having LAA value not exceeding 40%) including supplying of 12 mm downgraded chips made of same quality bricks, having compacted thickness made as per specifications including local handling and spreading uniformly to proper grade, camber and super elevation, hand packing watering, dry rolling followed by wet rolling in layers of specified thickness with 8 to 10 ton capacity power driven road roller to attain minimum soaked CBR of 80% or design CBR at minimum degree of compaction of 98% of MDD (Modified Proctor), including supplying and blinding with sand (F.M. 0.80) @ 0.012 m ³ per sqm or as required etc. all complete as per direction of the Engineer-in-charge. After adequate dry rolling, spreading of sand on the surface, sprinkling of water and rolling is to be continued until all the	cum	7462.00	7440.00	7165.00	7165.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	voids are filled. thickness of each layer should not be more than 100 mm loose and payment will be made on compacted thickness.					
24.10.1	Providing compacted sub-base course with well graded material of crushed well burnt picked jhama / 1st class brick bats and sand (FM 0.8) with mixing proportion 2 : 1 having compacted thickness made as per specification including local handling, spreading uniformly to proper grade camber and super elevation, packing, rolling properly with 8 to 10 ton capacity power driven road roller and watering properly for compaction of 100% MDD (standard) blinding with sand including cost of fuel, lubricants, spares, maintenance, driver etc. all complete and accepted by the Engineer-in-charge.	cum	6582.00	6548.00	6227.00	6227.00
24.10.2	Providing improved sub-grade with sand F.M.>0.80 having compacted thickness as per specification including cost of sand, carrying, local handling, spreading uniformly in layers of 150mm to proper grade camber, super elevation, rolling properly with 7-10 tone vibratory roller and watering profusely for compaction 95% MDD (Modified Proctor Test) including cost of fuel, lubricants, spares, maintenance, driver etc. all complete and accepted by the Engineer-in-charge.	Cum	957.00	949.00	911.00	911.00
24.10.3	Providing compacted aggregate base type-I with graded metal of Crushed boulder<9mm, Crushed boulder<25mm, Crushed boulder <38mm and Sylhet sand F.M>1.00 @ ratio of (2:1) (Crushed boulder : Sand) having compacted thickness of 150mm including local handling spreading uniformly to proper grade and camber and super elevation, hand packing, rolling properly with 7-10 tone vibratory roller and watering profusely for proper consolidation with blending materials etc. in/c. cost of all materials complete as per direction of the Engineer-in-charge (Payment will be made on compacted volume and compaction of 98% MDD in Modified Proctor Test).	Cum	10890.00	10504.00	9714.00	9413.00
24.10.4	Providing compacted aggregate base type-I (With Paver) with graded metal of Crushed boulder<9mm, Crushed boulder<25mm, Crushed boulder <38mm and Sylhet sand F.M>1.00 @ ratio of (2:1) (Brick Khoa : Sand) having compacted thickness of 150mm including local handling spreading uniformly to proper grade and camber and super elevation, hand packing, rolling properly with 7-10 tone vibratory roller and watering profusely for proper consolidation with blending materials etc. in/c. cost of all materials complete as per direction of the Engineer-in-charge (Payment will be made on compacted volume and compaction of 98% MDD in Modified Proctor Test).	Cum	11143.00	10756.00	9966.00	9665.00
24.10.5	Providing compacted aggregate base type-II with graded metal of crushed well burnt picked jhama, 1st class brick chips 25mm to 38mm size and Sylhet sand F.M>1.00 @ ratio of (2:1) (Brick Khoa : Sand) having compacted thickness of 150mm including local handling spreading uniformly to proper grade and camber and super elevation, hand packing, rolling properly with 7-10 tone vibratory roller and watering profusely for proper consolidation with blending materials	Cum	8321.00	7769.00	7531.00	7531.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	etc. including cost of all materials complete as per direction of the Engineer-in-charge (Payment will be made on compacted volume and compaction of 98% MDD in Modified Proctor Test).					
24.10.6	Providing compacted aggregate base type-II (With Paver) with graded metal of crushed well burnt picked jhama, 1st class brick chips 25 mm to 38 mm size and Sylhet sand F.M > 1.00 @ ratio of (2:1) (Brick Khoa : Sand) having compacted thickness of 150 mm including local handling spreading uniformly to proper grade and camber and super elevation, hand packing, rolling properly with 7-10 tone vibratory roller and watering profusely for proper consolidation with blending materials etc. including cost of all materials complete as per direction of the Engineer-in-charge (Payment will be made on compacted volume and compaction of 98% MDD in Modified Proctor Test).	Cum	8567.00	8015.00	7777.00	7777.00
24.11	50 mm thick compacted pre-mixed bituminous carpeting with 20 mm downgraded stone-chips (having LAA value ≤ 30%, water absorption not greater than 2%, flakiness index not greater than 35) of gradation as specified @ 0.68 cum of stone chips mixed with 46 kg of heated bitumen of 60/ 70 penetration grade heated straight run bitumen satisfying the requirements of ASTM/ AASHTO. Bitumen content % by wt. of total is 4.5% to 5.50% or as determined by job mix design. The bitumen and stone-chips shall be separately heated to a temperature of 140°C–155°C and 150°C–170°C respectively before mixing. The mixing shall be done at temperature between 140°C–160°C at a separate place away from the fire. The bitumen and stone-chips mixture shall be laid uniformly over 10 sqm of surface in proper camber, grade and super-elevation only on the prepared and accepted base or surface in a single appropriate layer to give the specified compacted thickness. The mixture should be rolled with appropriate steel drum roller (3-5 tons) & pneumatic multiple tire roller (8-10 tons) to full compaction. The rolling temperature shall be maintained not below 90°C including supplying of all materials, their carriage, labourers, tools and equipment etc. all complete as per direction of the Engineer-in-charge. (In order to achieve the specified grading a blending of nominal maximum size of 20 mm, 12 mm crushed stone chips and stone dust is suggested and proportion will have to be determined by the laboratory analysis).	sqm	1202.00	1193.00	1171.00	1154.00
24.12	38 mm thick compacted pre-mixed bituminous carpeting with 20 mm downgraded stone-chips (having LAA value ≤ 30%, water absorption not greater than 2%, flakiness index not greater than 35) of gradation as specified @ 0.63 cum of stone chips mixed with 37 kg heated bitumen of 60/ 70 penetration grade heated straight run bitumen satisfying the requirements of ASTM/ AASHTO. Bitumen content % by wt. of total is 4.5% to 5.50% or as determined by job mix design. The bitumen and stone-chips shall be separately heated to a temperature of 140°C–155°C and 150°C–170°C respectively before mixing. The mixing shall be done at temperature between 140°C–160°C at a separate place	sqm	970.00	962.00	946.00	933.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	away from the fire. The bitumen and stone-chips mixture shall be laid uniformly over 10 sqm of surface in proper camber, grade and super-elevation only on the prepared and accepted base or surface in a single appropriate layer to give the specified compacted thickness. The mixture should be rolled with appropriate steel drum roller (3-5 tons) & pneumatic multiple tire roller (8-10 tons) to full compaction. The rolling temperature shall be maintained not below 90°C including supplying of all materials, their carriage, labourers, tools and equipment etc. all complete as per direction of the Engineer-in-charge. (In order to achieve the specified grading a blending of nominal maximum size of 20 mm, 12 mm crushed stone chips and stone dust is suggested and proportion will have to be determined by the laboratory analysis).					
24.13	25 mm thick compacted pre-mixed bituminous carpeting with 12 mm downgraded stone-chips (having LAA value $\leq 30\%$, water absorption not greater than 2%, flakiness index not greater than 35) of gradation as specified @ 0.34 cum of stone chips mixed with 23 kg heated bitumen of 60/ 70 penetration grade heated straight run bitumen satisfying the requirements of ASTM/ AASHTO. Bitumen content % by wt. of total is 4.5% to 5.50% or as determined by job mix design. The bitumen and stone-chips shall be separately heated to a temperature of 140°C–155°C and 150°C–170°C respectively before mixing. The bitumen and stone-chips mixture shall be laid uniformly over 10 sqm of surface in proper camber, grade and super-elevation only on the prepared and accepted base or surface in a single appropriate layer to give the specified compacted thickness. The mixture should be rolled with appropriate steel drum roller (3-5 tons) & pneumatic multiple tire roller (8-10 tons) to full compaction. The rolling temperature shall be maintained not below 90°C including supplying of all materials, their carriage, labourers, tools and equipment etc. all complete as per direction of the Engineer-in-charge. (In order to achieve the specified grading a blending of nominal maximum size of 20 mm, 12 mm crushed stone chips and stone dust is suggested and proportion will have to be determined by the laboratory analysis).	sqm	618.00	611.00	604.00	598.00
24.14	38 mm thick compacted pre-mixed dense bituminous carpeting with 20 mm downgraded stone-chips (having LAA value $\leq 30\%$, water absorption not greater than 2%, flakiness index not greater than 35) of gradation as specified @ 0.56 cum of stone chips mixed with 45 kg heated bitumen of 60/ 70 penetration grade heated straight run bitumen satisfying the requirements of ASTM/ AASHTO. Bitumen content % by wt. of total is 4.5% to 5.50% or as determined by job mix design. The bitumen and stone-chips shall be separately heated to a temperature of 140°C–155°C and 150°C–170°C respectively before mixing. The mixing shall be done at temperature between 140°C–160°C at a separate place away from the fire. The bitumen and stone-chips mixture shall be laid uniformly over 10 sqm of surface in proper camber, grade and super-elevation only on the prepared and accepted base or surface in a single	sqm	1060.00	1049.00	1038.00	1025.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	appropriate layer to give the specified compacted thickness. The mixture should be rolled with appropriate steel drum roller (3-5 tons) & pneumatic multiple tire roller (8-10 tons) to full compaction. The rolling temperature shall be maintained not below 90°C including supplying of all materials, their carriage, labourers, tools and equipment etc. all complete as per direction of the Engineer-in-charge. (In order to achieve the specified grading a blending of nominal maximum size of 20 mm, 12 mm crushed stone chips and stone dust is suggested and proportion will have to be determined by the laboratory analysis).					
24.15	25 mm thick compacted pre-mixed dense bituminous carpeting with 12 mm downgraded stone-chips (having LAA value $\leq 30\%$, water absorption not greater than 2%, flakiness index not greater than 35) of gradation as specified, @ 0.35 cum of stone chips mixed with 29.8 kg heated bitumen of 60/70 penetration grade heated straight run bitumen satisfying the requirements of ASTM/ AASHTO. Bitumen content % by wt. of total is 4.5% to 5.50% or as determined by job mix design. The bitumen and stone-chips shall be separately heated to a temperature of 140°C–155°C and 150°C–170°C respectively before mixing. The mixing shall be done at temperature between 140°C–160°C at a separate place away from the fire. The bitumen and stone-chips mixture shall be laid uniformly over 10 sqm of surface in proper camber, grade and super-elevation only on the prepared and accepted base or surface in a single appropriate layer to give the specified compacted thickness. The mixture should be rolled with appropriate steel drum roller (3-5 tons) & pneumatic multiple tire roller (8-10 tons) to full compaction. The rolling temperature shall be maintained not below 90°C including supply of all materials, their carriage, labourers, tools and equipments etc. all complete as per direction of the Engineer-in-charge. (In order to achieve the specified grading, a blending of nominal maximum size of 20mm, 12mm crushed stone chips and stone dust is suggested and proportion will have to be determined by the laboratory analysis).	sqm	679.00	670.00	668.00	662.00
24.16	Providing and laying pre-mixed dense bituminous carpeting with hot mix plant using coarse aggregate, fine aggregate, filler and bituminous binder as per design Job Mix Formula conforming Marshall Method as per specification, LAA value of aggregate should be $\leq 30\%$, water absorption not $>2\%$, flakiness index not >35 mixed with 60/ 70 penetration grade straight run bitumen satisfying the requirements of ASTM/ AASHTO. including screening, cleaning of chips and preparing a uniform and quality mix in hot mix plant and ensuring a homogenous mix, in which all particles of the mineral aggregates are coated uniformly, carrying the hot premixed materials by means of dump /tipper truck, spreading the mixed materials at specified laying temperature with a hydrostatic paver finisher with sensor control to the required grade, level and alignment over the prepared surface, tamping and finishing the mix at specified compacted thickness, maintaining specified camber, grade, super-elevation and cross section, through rolling with	cum	27491.00	26830.00	26639.00	26334.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	appropriate steel drum roller & pneumatic multiple tire roller (8-10 tons) to full compaction, for break down, inter - mediate and finished rolling to achieve the desired density of at least 98% of that of Laboratory Marshall specimen, hand packing and pinning to give an even surface, including cost of all materials, their carriages, hire charges of hot mix plant and all other machines, equipments for construction and quality control as per specification, fuels, lubricants and wages of operational staff etc. all complete as per the direction of the Engineer-in-charge. (Carpeting work by using asphalt plant is mandatory for all Divisional headquarter & capital city)					
24.17	Providing tack coat @ 7.50 kg of bitumen (60/70 penetration grade) per 10 sqm including heating bitumen up to 175°C to 185°C etc. all complete (cost of bitumen included) and accepted by the Engineer-in-charge.	sqm	123.00	120.00	122.00	122.00
24.18.1	Providing seal coat with 4 cft of Sylhet sand (FM 2.2) mixed with @ 7.32 kg of bitumen (60/70 penetration grade) per 10 sqm of road surface including supplying and spreading of dry sand (F.M. 0.80) @ 0.09 cum per 10 sqm, including heating bitumen up to 176°C to 190°C, and spreading, rolling at a temperature not below 90°C celsius with appropriate steel drum roller (3 -5 ton) and pneumatic multiple tire roller (8-10 tons) to the desired compaction etc. all complete (cost of bitumen included) and accepted by the Engineer-in-charge.	sqm	167.00	164.00	166.00	165.00
24.18.2	Premixed bituminous seal coat with 0.12 cum of pea gravels mixed with 80 kg of bitumen (60/70 penetration grade) per cum of pea gravels and laid over 10 sqm road surface, spreading with proper camber, grade, surface blinding with dry sand (F.M. 1.2) @ 0.09 cum per 10 sqm, rolling at a temperature not below 90°C with appropriate steel drum roller (3-5 ton) and pneumatic multiple tire roller (8-10 tons) to the desired compaction etc. all complete and accepted by the Engineer-in-charge.	sqm	225.00	221.00	220.00	220.00
24.19.1	Providing prime coat @ 1.2 liter/sqm with cutback bitumen to be prepared by cutting back 60/70 penetration grade bitumen in the ratio of 100 parts by volume of bitumen to 40-60 parts by volume of kerosene depending on the porosity of surface and will be decided by field trials, carefully cleaning of the surface of base material to be primed and spraying cutback bitumen at a temperature from 100 degree celcius to 120 degree Celsius by appropriate hand device etc.all complete as per direction of the Engineer-in-charge.	sqm	168.00	144.00	148.00	148.00
24.19.2	Providing prime coat @1.2 liter/sqm with cutback bitumen to be prepared by cutting back 60/70 penetration grade bitumen in the ratio of 100 parts by volume of bitumen to 40-60 parts by volume of kerosene depending on the porosity of surface and will be decided by field trials, carefully cleaning of the surface of base material to be primed and spraying cutback bitumen at a temperature from 100°C to 120°C by mechanical distributor etc. all complete as per direction of the Engineer-in-charge.	sqm	169.00	146.00	149.00	149.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
24.20.1	Providing painting at the top of the road surface as road marking in two coats with approved best quality and colour of synthetic paint from authorized local agent of the manufacturer in a sealed container having high water resistance, high bondability & flexibility, using specific brand thinner applied by brass/ roller or others over a coat of priming, providing elapsing time for drying including surface cleaning from dust, oil or dirt, smoothening, finishing necessary tools etc. all complete & approved and accepted by the Engineer-in-charge.	sqm	381.00	378.00	359.00	359.00
24.20.2	Providing painting top of the road surface as road marking in two coats with approved best quality and colour of Thermo-plastic paint, approved quality of paint from authorized local agent of the manufacturer in a sealed container having highly water resistant, high bondability, flexible, using specific brand thinner applied by brass/ roller or others over a coat of priming elapsing time for drying including surface cleaning from dust, oil or dirt, smoothening, finishing necessary tools etc. all complete in approved and accepted by the Engineer-in-charge.	sqm.	1027.00	1023.00	994.00	994.00
24.21	Providing expansion joints across the R.C.C. road pavement with 20 mm gap between the adjacent panels. Supplying dowel bars of size 12 mm dia and 600 mm long M.S rod placed @ 750 mm c/c. 300 mm of the bar being fixed within one slab keeping remaining portion the bar free within the adjacent slab being inserted in 20 mm dia and 300 mm long P.V.C. pipe embedded in the slab, inside of pipe fully greased, filling the gap between the slabs (with admixture) of hot bitumen and coarse sand (F.M. 2.2) in proportion of 2:1, finishing the top with bitumen, spreading coarse sand over the joint, all complete as per plan, drawing and accepted by the Engineer-in-charge.	meter	485.00	479.00	465.00	465.00
24.22	Providing Stamped Concrete or decorative concrete flooring on RCC Casting in colored and textured form accomplished with the application of high Abrasion and UV resistant, non-fading pigment and long-wearing surface color hardener in three shakes, antiquing by using of a powdered Release Agent in a contrasting color and sealed by a Solvent-Borne Acrylic Sealer for chemical resistant according to ASTM D 543 : 95 and moisture resistant according to ASTM C 156 and stain resistant according to ASTM D 1308, providing a deep penetrating, scruff-resistance finish.	sqm	2382.00	2382.00	2369.00	2369.00

..... END OF CHAPTER TWENTY FOUR.....

CHAPTER 25: ARBORICULTURE WORKS

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
25.1	Labour charge for scraping lawn surface up to 38 mm depth by spade, picking up all sorts of brick bats, rubbish by suitable tools, removing the same by head load or by any other means and stacking the same to a safe distance beyond 300 m including supply of tools and plants etc. all complete and accepted by the Engineer-in-charge.	sqm	12.00	12.00	11.00	11.00
25.2	Preparation of ground to make ready for plantation by spading the ground to a depth of 150 mm to 230 mm beyond 38 mm deep scrapped ground by spade, breaking earth clods to powder by hammers, picking up all sorts of rubbish, unwanted grasses by suitable tools, carrying and spreading the surplus earth into low lying area including supply of tools and plants etc. all complete and accepted by the Engineer-in-charge.	sqm	24.00	24.00	22.00	22.00
25.3	Leveling and dressing of lawn area to proper slope and grade by spading the same including supplying tools and plants etc. all complete and accepted by the Engineer-in-charge.	sqm	9.00	8.00	8.00	8.00
25.4	Supply of best and approved quality alluvial loamy silty soil including loading, unloading at both ends, properly stacking at site including supply of tools and plants etc. all complete and accepted by the Engineer-in-charge.	cum	938.00	935.00	925.00	925.00
25.5	Supply well decomposed cow dung carried by trucks or any other means including loading, unloading at both ends, stacking the same at site including supply of tools and plants etc. all complete and accepted by the Engineer-in-charge.	cum	1751.00	1749.00	1695.00	1695.00
25.6	Labour charge for spreading the alluvial loamy silty soil from the stacks at site on the lawn surface, leveling, dressing the same including supply all necessary tools and plants etc. all complete and accepted by the Engineer-in-charge.	cum	199.00	195.00	181.00	181.00
25.7	Added rate for lifting alluvial loamy silty soil/ decomposed cow dung work in additional floor:					
25.7.1	Add for each additional floor up to 5th floor	cum	86.00	84.00	78.00	78.00
25.7.2	Add for each additional floor from 6th floor to 9th floor	cum	122.00	120.00	111.00	111.00
25.7.3	Add for each additional floor for 10th floor & above	cum	159.00	156.00	145.00	145.00
25.8	Supply of lawn grass of approved quality by truck or by any other means, sorting the grass to proper size, washing the grass, dibbling the grass 6 mm to 50 mm apart, irrigation of lawn area till the grass grown at least for two months after plantation, weeding the undesirable grass, mowing the lawn grass by lawn mower up to two months after plantation, applying urea fertilizer on the lawn surface @ 1 kg per 9.29 sqm including supply of tools and plants etc. all complete and accepted by the Engineer-in-charge.	sqm	69.00	68.00	64.00	64.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
25.9	Labour charge for mixing well decomposed cow dung with alluvial loamy silty soil and excavated earth, removing the excess earth to safe distance including supply of tools and plants etc. all complete and accepted by the Engineer-in-charge.	cum	180.00	176.00	163.00	163.00
25.10	Supplying and providing, fitting & fixing bamboo jafry fencing by best quality muli bamboo split of 20 mm in width, having 75 mm x 75 mm mesh placed diagonally doing framing a square shape in both ways and both sides tightened with 2 x 4 Nos. same split horizontally and 2 x 6 Nos. same split vertically and with G.I wire fitted with Borrak bamboo post of 100 mm dia and placed firmly in position at 1800 mm apart including supply of tools and plants, digging hole and filling back etc. all complete and accepted by the Engineer-in-charge.	sqm	565.00	565.00	550.00	550.00
25.11	Supplying and providing, fitting & fixing muli bamboo tree guard of 1200 mm length and 500 mm dia best quality muli bamboo split 20 mm in size having 75 mm x 75 mm a square holes with 20 mm wide bamboo splits strengthen with 4 Nos. 20 mm wide bamboo split in both sides tightened with G.I wire fitted with 3 Nos. 63 mm dia borrak bamboo post of 1800 mm long of which 600 mm will be driven into earth by digging hole followed by fill back including supply of tools and plants all complete as per direction of the Engineer-in-charge.	each	804.00	804.00	791.00	791.00
25.12	Earth work in excavation to make a pit of 600 x 600 x 450 mm (depth) for plantation, applying cow dung mixing with loamy silty soil and excavated earth, planting the plants, tightened with 1800 mm long borrak bamboo post with jute rope and filled up the hole with mixed soil including supply of tools and plants all complete and accepted by the Engineer-in-charge.	each	175.00	174.00	169.00	169.00
25.13	Spading for preparation of flower beds in pits up to 600 mm depth, re-molding, picking up and placing and removing the spaded earth to a safe distance, mixing @ 1 cft well decomposed cow dung with 20% loamy silty soil and 6 cft excavated soil and fill back the pit including supply of tools and plants, all complete and accepted by the Engineer-in-charge.	sqm	583.00	577.00	549.00	549.00
25.14	Preparation of hedge beds by excavation of earth up to 300 mm depth, filling up the bed by a mixture of cow dung, loamy silty soil, cutted earth @ 1 cft cow dung manure per 6 cft of cutted earth and 20% loamy silty soil including supply of tools and plant etc. all complete and accepted by the Engineer-in-charge.	sqm	288.00	286.00	272.00	272.00
25.15	Carrying of rubbish , taking up all sorts of bricks, brick-bats and rubbish gravel chips, loading and unloading at both ends including supply of tools and plants etc. all complete and accepted by the Engineer-in-charge.	cum	183.00	179.00	166.00	166.00
25.16	Supply and carrying of 12.20 m long 100 mm dia borrak bamboo at site, loading and unloading at both end, stacking the same at site including supply of tools and plants etc. all complete and accepted by the Engineer-in-charge.	each	552.00	552.00	549.00	549.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
25.17	Supply and carrying of 7.62 m long 50 mm to 62.5 mm dia muli bamboo at site, loading and unloading at both end, stacking the same at site including supply of tools and plants etc. all complete and accepted by the Engineer-in-charge.	each	292.00	291.00	289.00	289.00
25.18	Supply and carrying of 4.5 h.p., 550 mm blade 4 stroke, finger trip 3 position height adjuster 200 mm x 38 mm star tread wheels grass cutting (Power Lawn Mower Machine): YARDMAN No. 060A	each	54335.00	54335.00	54335.00	54335.00
25.19	Supply and carrying of 6.5 h.p., 550 mm blade 4 stroke, finger trip 3 position height adjuster 200 mm x 38 mm star tread wheels grass cutting (Power Lawn Mower Machine): YARDMAN No. 060A	each	72447.00	72447.00	72447.00	72447.00
25.20	Supply and carrying of 22 h.p. 1150 mm cutting blade power riding lawn yardman mower machine made in USA. Model No.13 BT 793G678 or equivalent.	each	607501.00	607461.00	607304.00	607304.00
25.21	Supply and carrying of 450 mm blade Hand Lawn Mower, Model No.1403-106(USA)	each	15093.00	15093.00	15093.00	15093.00

..... END OF CHAPTER TWENTY FIVE.....

CHAPTER 26: SANITARY & WATER SUPPLY WORKS

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
26.01	Supplying, fitting and fixing of European type country made best quality glazed porcelain combi closet (two piece) , including plastic seat cover with soft closing, cistern system, water consumption 6 litre, siphon wash down/siphon jet single or dual flushing system which reduce water consumption, hygienic glaze in toilet bowl, glaze in inner waste line, round bowl, outlet range 280~305 mm. The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5 mm. When assembled together and when examined from a distance of 60 cm, the outer surface shall not show to the unaided eye, blemishes or defects in excess of those listed in BDS standard. The mean value of water absorption shall not be greater than 0.5% of the ware when dry. When tested with chemical solutions (Acetic acid, Citric acid, Detergent, Hydrochloric acid, Sodium hydroxide, Sodium stearate and Sulfuric acid of various strength) as per BDS1162:2014 procedure, none of the test pieces should suffer any loss of reflectivity on the glaze. There shall be no crazing and no stain on the ware. The materials used for making glaze shall not contain lead compound. In case of certain coloring oxides used for making colored glaze, the lead content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked at a prominent place, visible even after the appliances are installed with the following: a) manufacturer's name and/or registered trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI Certification Mark. The fixture should be placed in position preparing the base with cement concrete and with wire mesh or rods if necessary, in all floors including making holes wherever required and mending good the damages and fitting, fixing, finishing, complete with all necessary fittings and connection approved and accepted by the Engineer- in- charge.					
26.01.1	Approx. 670~690 X 360~ 362 mm size, minimum 27.5 kg of weight; Equivalent to Stella:Victoria/ Stella:Imola/ RAK:Amy/ RAK:Karla or similar brand	each	9212.00	9180.00	9101.00	9101.00
26.01.2	Approx. 665~ 704 X 360~ 390 mm size, minimum 31.00 kg of weight; Equivalent to CHARU: CM18/ CHARU: CM15/ Stella: Marcela/ RAK: Tampa/ Stella: Marcela or similar brand	each	10757.00	10725.00	10646.00	10646.00
26.01.3	Approx. 639~670 X 370 ~399 mm size, minimum 32.5 kg of weight; Equivalent to RAK: Orient Standard/ Stella: Verso or similar brand	each	11766.00	11734.00	11655.00	11655.00
26.01.4	Approx. 670~670 X 350~390 mm size, minimum 25.2 kg of weight; Equivalent to COTTO: C1480/ COTTO: C13960/ RAK Series 600 or similar brand	each	13632.00	13601.00	13521.00	13521.00
26.01.5	Approx. 668~750 x 356 ~430 mm size, minimum 37.0 kg of weight; Equivalent to COTTO: C1390/ Stella: Isabella/ RAK: Washington/ RAK: Jumairah or similar brand	each	16309.00	16278.00	16199.00	16199.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
26.01.6	Approx. 700~725 X 360~ 380 mm size, minimum 34.1 kg of weight; Equivalent to COTTO - C1470/ RAK: Venic or similar brand	each	18323.00	18292.00	18213.00	18213.00
26.01.7	Approx. 702~ 750x 380~412 mm size, minimum 40.0 kg of weight, Equivalent to COTTO: C118/ RAK: Shino or similar brand	each	22701.00	22669.00	22590.00	22590.00
26.01.8	Approx. 730~ 735x 430~440 mm size, minimum 42.0 kg of weight, Equivalent to COTTO: 109/ COTTO: 129 or similar brand	each	25512.00	25480.00	25401.00	25401.00
26.02	Supplying, fitting and fixing of country made European type special quality combi closet (one piece) including inbuilt flushing unit, of white color, including plastic seat cover with soft closing ,cistern system, water consumption 6 litre, siphon jet single flushing system which reduce water consumption, hygienic glaze in toilet bowl ,glaze in inner waste line, round bowl, outlet range 280~305 mm. The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5 mm. When assembled together and when examined from a distance of 60 cm, the outer surface shall not show to the unaided eye, blemishes or defects in excess of those listed in BDS standard. The mean value of water absorption shall not be greater than 0.5% of the ware when dry. When tested with chemical solutions (Acetic acid, Citric acid, Detergent, Hydrochloric acid, Sodium hydroxide, Sodium stearate and Sulfuric acid of various strength) as per BDS1162:2014 procedure, none of the test pieces should suffer any loss of reflectivity on the glaze. There shall be no crazing and no stain on the ware. The materials used for making glaze shall not contain lead compound. In case of certain coloring oxides used for making colored glaze, the lead content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked at a prominent place, visible even after the appliances are installed with the following: a) manufacturer's name and/or registered trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI Certification Mark. The fixture should be placed in position preparing the base with cement concrete and with wire mesh or rods if necessary, in all floors including making holes wherever required and mending good the damages and fitting, fixing, finishing, complete with all necessary fittings and connection approved and accepted by the Engineer-in-charge.					
26.02.1	Approx. 695~719 X 340~395 mm size, minimum 39.5 kg of weight; Equivalent to RAK: Metropolitan/ Stella: Vivana or similar brand	each	17693.00	17674.00	17614.00	17614.00
26.02.2	Approx. 685~729 X 360~406 mm size, minimum 36.0 kg of weight; Equivalent RAK: Oasis/ Stella: Evana/ Stella: Marlina or equivalent model	each	21981.00	21962.00	21901.00	21901.00
26.02.3	Approx. 715~735 X 280~480 mm size, minimum 39.5 kg of weight; Equivalent to COTTO - C1053 / COTTO: 1141/ CHARU: CM 950/ RAK: Galaxy or similar brand	each	26394.00	26376.00	26315.00	26315.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
26.02.4	Approx. 760~735 X 430~490 mm size, minimum 40 kg of weight, Equivalent to Stella: Viola/ COTTO: C1026 or similar brand	each	32700.00	32681.00	32621.00	32621.00
26.03	Supplying, fitting and fixing of country made European type glazed combi closet (Wall Hung) with concealed cistern, of any color including plastic seat cover with soft closing, water consumption 6 litre, Wash Down Dual flushing system which reduce water consumption, hygienic glaze in toilet bowl, glaze in inner waste line, round bowl, outlet range 225~230 mm. The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5 mm. When assembled together and when examined from a distance of 60 cm, the outer surface shall not show to the unaided eye, blemishes or defects in excess of those listed in BDS standard. The mean value of water absorption shall not be greater than 0.5% of the ware when dry. When tested with chemical solutions (Acetic acid, Citric acid, Detergent, Hydrochloric acid, Sodium hydroxide, Sodium stearate and Sulfuric acid of various strength) as per BDS1162:2014 procedure, none of the test pieces should suffer any loss of reflectivity on the glaze. There shall be no crazing and no stain on the ware. The materials used for making glaze shall not contain lead compound. In case of certain coloring oxides used for making colored glaze, the lead content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked at a prominent place, visible even after the appliances are installed with the following: a) manufacturer's name and/ or registered trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI Certification Mark. The fixture should be placed in position preparing the base with cement concrete and with wire mesh or rods if necessary, in all floors including making holes wherever required and mending good the damages and fitting, fixing, finishing, complete with all necessary fittings and connection approved and accepted by the Engineer-in-charge.					
26.03.1	Approx. 540 X 360 mm size, minimum 16.00 kg of weight	each	22863.00	22844.00	22784.00	22784.00
26.03.2	Approx. 570 X 375 mm size, minimum 22.00 kg of weight	each	30682.00	30663.00	30603.00	30603.00
26.03.3	Approx. 560 X 360 mm size, minimum 26 kg of weight	each	40267.00	40248.00	40187.00	40187.00
26.04	Supplying, fitting and fixing of European type country made glazed combi closet (Flush Valve) including flush valve, of any color, Approx. 380 mm x 710 mm x 800 mm size, minimum 28.00 kg of weight, excluding flush valve, including plastic seat cover with soft closing, Siphon jet single flushing system which reduce water consumption, hygienic glaze in toilet bowl, glaze in inner waste line, round bowl, outlet range 305 mm. The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5 mm. When assembled together and when examined from a distance of 60 cm, the outer surface shall not show to the unaided eye,	each	27145.00	27126.00	27067.00	27067.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	Rajshahi, Rangpur
	blemishes or defects in excess of those listed in BDS standard. The mean value of water absorption shall not be greater than 0.5% of the ware when dry. When tested with chemical solutions (Acetic acid, Citric acid, Detergent, Hydrochloric acid, Sodium hydroxide, Sodium stearate and Sulfuric acid of various strength) as per BDS1162:2014 procedure, none of the test pieces should suffer any loss of reflectivity on the glaze. There shall be no crazing and no stain on the ware. The materials used for making glaze shall not contain lead compound. In case of certain coloring oxides used for making colored glaze, the lead content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked at a prominent place, visible even after the appliances are installed with the following: a) manufacturer's name and/or registered trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI Certification Mark. The fixture should be placed in position preparing the base with cement concrete and with wire mesh or rods if necessary, in all floors including making holes wherever required and mending good the damages and fitting, fixing, finishing, complete with all necessary fittings and connection approved and accepted by the Engineer-in-charge.					
26.05	Supplying, fitting and fixing of country made glazed vitreous standing bowl urinal . The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5 mm. When assembled together and when examined from a distance of 60 cm, the outer surface shall not show to the unaided eye, blemishes or defects in excess of those listed in BDS standard. The mean value of water absorption shall not be greater than 0.5% of the ware when dry. When tested with chemical solutions (Acetic acid, Citric acid, Detergent, Hydrochloric acid, Sodium hydroxide, Sodium stearate and Sulfuric acid of various strength) as per BDS1162:2014 procedure, none of the test pieces should suffer any loss of reflectivity on the glaze. There shall be no crazing and no stain on the ware. The materials used for making glaze shall not contain lead compound. In case of certain coloring oxides used for making colored glaze, the lead content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked at a prominent place, visible even after the appliances are installed with the following: a) manufacturer's name and/or registered trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI Certification Mark. The fixture should be placed in position after making holes in walls and floors, providing 32 mm dia plastic waste pipe with brass coupling up to grading below, 12 mm dia plastic connection pipe with brass coupling, 12 mm dia brass stop cock including mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer-in-charge.					
26.05.1	Approx. 330 X 355 X 445 mm size, minimum 10.0 kg of weight	each	3579.00	3569.00	3532.00	3532.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
26.05.2	Approx. 300 X 370 X 510 mm size, minimum 11.0 kg of weight.	each	4405.00	4395.00	4358.00	4358.00
26.05.3	Approx. 315 X 330 X 600 mm size, minimum 17.0 kg of weight.	each	7356.00	7346.00	7309.00	7309.00
26.05.4	Approx. 300 X 350 X 690 mm size, minimum 18.0 kg of weight	each	13573.00	13563.00	13526.00	13526.00
26.06	Supplying, fitting and fixing of country made glazed vitreous china flat or squatting urinal approx. 510 mm x 380 mm x 85 mm in size, minimum 9.5 kg of weight. The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5 mm. When assembled together and when examined from a distance of 60 cm, the outer surface shall not show to the unaided eye, blemishes or defects in excess of those listed in BDS standard. The mean value of water absorption shall not be greater than 0.5% of the ware when dry. When tested with chemical solutions (Acetic acid, Citric acid, Detergent, Hydrochloric acid, Sodium hydroxide, Sodium stearate and Sulfuric acid of various strength) as per BDS1162:2014 procedure, none of the test pieces should suffer any loss of reflectivity on the glaze. There shall be no crazing and no stain on the ware. The materials used for making glaze shall not contain lead compound. In case of certain coloring oxides used for making colored glaze, the lead content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked at a prominent place, visible even after the appliances are installed with the following: a) manufacturer's name and/or registered trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI Certification Mark. The fixture should be placed in position with flushing inlet fitted in cement mortar (1:4) with painted cast iron body: one gallon capacity, automatic flushing cistern in each group etc. including 12 mm brass controlling valve, 32 mm dia PVC flush pipe with brass coupling, 12 mm dia plastic lead (connection) pipe including mending good the damages with 1:4 cement mortar etc. all complete approved and accepted by the Engineer-in-charge.	each	3426.00	3414.00	3366.00	3366.00
26.07	Supplying, fitting and fixing of Bangladesh pattern, long pan with foot-rest . The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5 mm. When assembled together and when examined from a distance of 60 cm, the outer surface shall not show to the unaided eye, blemishes or defects in excess of those listed in BDS standard. The mean value of water absorption shall not be greater than 0.5% of the ware when dry. When tested with chemical solutions (Acetic acid, Citric acid, Detergent, Hydrochloric acid, Sodium hydroxide, Sodium stearate and Sulfuric acid of various strength) as per BDS1162:2014 procedure, none of the test pieces should suffer any loss of reflectivity on the glaze. There shall be no crazing and no stain on the ware. The materials used for making glaze shall not contain lead compound. In case of certain coloring oxides					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	used for making colored glaze, the lead content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked at a prominent place, visible even after the appliances are installed with the following: a) manufacturer's name and/or registered trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI Certification Mark. The fixture should be placed in position preparing the base of pan with cement mortar (1:4) and with wire mesh or rods, if necessary in all floors including making holes wherever required and mending good the damages and fitting, fixing, finishing etc. complete with all necessary fittings and connections approved and accepted by the Engineer-in-charge.					
26.07.1	Approx. 520 X 406.4 X 223.52 mm size, minimum 10.0 kg of weight	each	2105.00	2087.00	2026.00	2026.00
26.07.2	Approx. 530 X 400 X 230 mm size, minimum 11.0 kg of weight	each	2301.00	2282.00	2222.00	2222.00
26.07.3	Approx. 554 X 439. X 249 mm size, minimum 12.5 kg of weight	each	2774.00	2755.00	2695.00	2695.00
26.07.4	Approx. 540 X 460 X 290 mm size, minimum 13.5 kg of weight	each	2812.00	2793.00	2732.00	2732.00
26.07.5	Approx. 540 X 470 X 290 mm size, minimum 16 kg of weight	each	2938.00	2919.00	2859.00	2859.00
26.08	Supplying, fitting and fixing of European type glazed porcelain low-down . The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5 mm. When assembled together and when examined from a distance of 60 cm, the outer surface shall not show to the unaided eye, blemishes or defects in excess of those listed in BDS standard. The mean value of water absorption shall not be greater than 0.5% of the ware when dry. When tested with chemical solutions (Acetic acid, Citric acid, Detergent, Hydrochloric acid, Sodium hydroxide, Sodium stearate and Sulfuric acid of various strength) as per BDS1162:2014 procedure, none of the test pieces should suffer any loss of reflectivity on the glaze. There shall be no crazing and no stain on the ware. The materials used for making glaze shall not contain lead compound. In case of certain coloring oxides used for making colored glaze, the lead content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked at a prominent place, visible even after the appliances are installed with the following: a) manufacturer's name and/ or registered trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI Certification Mark. The fixture should be placed on walls or directly over water closet by necessary accessories, rowel plugs, making holes wherever required and mending good the damages and fitting, fixing & finishing etc. complete with all necessary fittings and connections approved and accepted by the Engineer-in-charge.					
26.08.1	Approx. 365 X 185 X 325 mm size, minimum 10.00 kg of weight	each	3709.00	3696.00	3661.00	3661.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
26.08.2	Approx. 490 X 190 X 345 mm size, minimum 11.00 kg of weight	each	4129.00	4116.00	4081.00	4081.00
26.08.3	Approx. 490 X 190 X 350 mm size, minimum 14 kg of weight	each	4182.00	4169.00	4134.00	4134.00
26.09	Supplying, fitting and fixing of plastic low-down of any color, on walls or directly over water closet with necessary accessories, making holes wherever required and mending good the damages and fitting, fixing & finishing etc. complete with all necessary fittings and connections approved and accepted by the Engineer-in-charge.	each	2497.00	2484.00	2450.00	2450.00
26.10	Supplying, fitting and fixing of flush valve for water closet on walls or directly over water closet with necessary accessories, making holes wherever required and mending good the damages and fitting, fixing & finishing etc. all complete with all necessary fittings and connections approved and accepted by the Engineer-in-charge.					
26.10.1	Flush valve (local)	each	15045.00	15035.00	15007.00	15007.00
26.10.2	Flush Valve (foreign)	each	25165.00	25155.00	25128.00	25128.00
26.11	Supplying, fitting and fixing of flush valve for urinal on walls or directly over water closet with necessary accessories,, rowel plugs, making holes wherever required and mending good the damages and fitting, fixing & finishing etc. all complete with all necessary fittings and connections approved and accepted by the Engineer-in-charge.	each	5997.00	5986.00	5959.00	5959.00
26.12	Supplying, fitting and fixing of country made glazed vitreous W/H wash basin excluding pedestal . The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5 mm. When assembled together and when examined from a distance of 60 cm, the outer surface shall not show to the unaided eye, blemishes or defects in excess of those listed in BDS standard. The mean value of water absorption shall not be greater than 0.5% of the ware when dry. When tested with chemical solutions (Acetic acid, Citric acid, Detergent, Hydrochloric acid, Sodium hydroxide, Sodium stearate and Sulfuric acid of various strength) as per BDS1162:2014 procedure, none of the test pieces should suffer any loss of reflectivity on the glaze. There shall be no crazing and no stain on the ware. The materials used for making glaze shall not contain lead compound. In case of certain coloring oxides used for making colored glaze, the lead content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked at a prominent place, visible even after the appliances are installed with the following: a) manufacturer's name and/or registered trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI Certification Mark. The fixture should be placed in position with heavy type C.I. Brackets. 30 mm dia PVC waste water pipe with brass coupling (not exceeding 750 mm in length), basin waste with chain plug including making holes in walls and floors and					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	fitting with wall, screws and mending good the damages, finishing etc. all complete approved and accepted by the Engineer-in-charge.					
26.12.1	Over Counter: Approx. 400X 200 mm, minimum weight 6.0 kg	each	3627.00	3608.00	3554.00	3554.00
26.12.2	Over Counter: Approx. 445X 345 mm, minimum weight 7.0 kg	each	3917.00	3898.00	3844.00	3844.00
26.12.3	Over Counter: Approx. 535X 435 mm, minimum weight 7.5 kg	each	4472.00	4453.00	4399.00	4399.00
26.12.4	Over Counter: Approx. 560 mm X 475 mm size, minimum weight 10.0 kg	each	4573.00	4554.00	4500.00	4500.00
26.12.5	Under Counter: Approx. 570 mm X 420 mm size, minimum weight 7.5 kg	each	4390.00	4371.00	4317.00	4317.00
26.12.6	Under Counter: Approx. 515 mm X 365 mm size, minimum weight 9.5 kg	each	6055.00	6036.00	5982.00	5982.00
26.12.7	Table Top: Approx. 400 mm X 400 mm size, minimum weight 6.0 kg	each	5670.00	5651.00	5597.00	5597.00
26.12.8	Table Top: Approx. 450 mm X 450 mm size :minimum weight 10.0 kg	each	6729.00	6710.00	6657.00	6657.00
26.12.9	Table Top: Approx. 480 mm X 370 mm size, minimum weight 10.0 kg	each	6956.00	6937.00	6884.00	6884.00
26.12.10	Table Top: Approx. 485 mm X 380 mm size, minimum weight 11.0 kg	each	8104.00	8085.00	8031.00	8031.00
26.12.11	Corner Basin: Approx. 540 mm X 400 mm size, minimum weight 7.5 kg	each	3690.00	3671.00	3617.00	3617.00
26.12.12	Corner Basin: Approx. 460 mm X 390 mm size, minimum weight 15.0 kg	each	4648.00	4629.00	4576.00	4576.00
26.13	Supplying of country made glazed vitreous W/H wash basin of any color including pedestal . The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5 mm. When assembled together and when examined from a distance of 60 cm, the outer surface shall not show to the unaided eye, blemishes or defects in excess of those listed in BDS standard. The mean value of water absorption shall not be greater than 0.5% of the ware when dry. When tested with chemical solutions (Acetic acid, Citric acid, Detergent, Hydrochloric acid, Sodium hydroxide, Sodium stearate and Sulfuric acid of various strength) as per BDS1162:2014 procedure, none of the test pieces should suffer any loss of reflectivity on the glaze. There shall be no crazing and no stain on the ware. The materials used for making glaze shall not contain lead compound. In case of certain coloring oxides used for making colored glaze, the lead content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked at a prominent place, visible even after the					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	appliances are installed with the following: a) manufacturer's name and/or registered trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI Certification Mark. The fixture should be placed in position with heavy type C.I. Brackets. 30 mm dia PVC waste water pipe with brass coupling (not exceeding 750 mm in length), basin waste with chain plug including making holes in walls and floors and fitting with wall, screws and mending good the damages, finishing etc. all complete approved and accepted by the Engineer-in-charge.					
26.13.1	Approx. 436 x 343 mm, minimum weight 14.8 kg	each	3941.00	3931.00	3894.00	3894.00
26.13.2	Approx. 457 x 406 mm, minimum weight 15.3 kg	each	4194.00	4184.00	4147.00	4147.00
26.13.3	Approx. 521 x 419 mm, minimum weight 17.7 kg	each	4314.00	4304.00	4267.00	4267.00
26.13.4	Approx. 508 x 394 mm, minimum weight 17.3 kg	each	4339.00	4329.00	4292.00	4292.00
26.13.5	Approx. 540 x 450 mm, minimum weight 20.1 kg	each	4390.00	4380.00	4343.00	4343.00
26.13.6	Approx. 495 x 394 mm, minimum weight 17.3 kg	each	4529.00	4519.00	4481.00	4481.00
26.13.7	Approx. 513 x 432 mm, minimum weight 17.8 kg	each	4655.00	4645.00	4607.00	4607.00
26.13.8	Approx. 564 x 419 mm, minimum weight 18.8 kg	each	4781.00	4771.00	4733.00	4733.00
26.13.9	Approx. 584 x 437 mm, minimum weight 20.0 kg	each	4970.00	4960.00	4923.00	4923.00
26.13.10	Approx. 560 x 450 mm, minimum weight 22.8 kg	each	5039.00	5029.00	4992.00	4992.00
26.13.11	Approx. 572 x 437 mm, minimum weight 20.3 kg	each	5153.00	5143.00	5105.00	5105.00
26.13.12	Approx. 648 x 488 mm, minimum weight 20.0 kg	each	5443.00	5433.00	5396.00	5396.00
26.13.13	Approx. 605 x 485 mm, minimum weight 22.5 kg	each	5525.00	5515.00	5478.00	5478.00
26.13.14	Approx. 630 x 520 mm, minimum weight 28.0 kg	each	5790.00	5780.00	5742.00	5742.00
26.13.15	Approx. 559 x 483 mm, minimum weight 24.5 kg	each	6042.00	6032.00	5995.00	5995.00
26.13.16	Approx. 656 x 510 mm, minimum weight 26.0 kg	each	7253.00	7243.00	7205.00	7205.00
26.13.17	Approx. 500 x 450 mm, minimum weight 25.6 kg	each	7353.00	7343.00	7306.00	7306.00
26.13.18	Approx. 520 x 425 mm, minimum weight 26.2 kg	each	7707.00	7697.00	7659.00	7659.00
26.13.19	Approx. 665 x 490 mm, minimum weight 29.5 kg	each	7839.00	7829.00	7792.00	7792.00
26.13.20	Approx. 660 x 525 mm, minimum weight 31.5 kg	each	8041.00	8031.00	7993.00	7993.00
26.13.21	Approx. 600 x 440 mm, minimum weight 26.0 kg	each	8123.00	8113.00	8075.00	8075.00
26.13.22	Approx. 525 x 415 mm, minimum weight 27.4 kg	each	8678.00	8668.00	8630.00	8630.00
26.13.23	Approx. 650 x 510 mm, minimum weight 25.0 kg	each	8753.00	8743.00	8706.00	8706.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
26.13.24	Approx. 550 x 470 mm, minimum weight 34.0 kg	each	10645.00	10635.00	10598.00	10598.00
26.14	Supplying of country made glazed vitreous W/H wash basin of any color including semi-pedestal/ half pedestal . The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5 mm. When assembled together and when examined from a distance of 60 cm, the outer surface shall not show to the unaided eye, blemishes or defects in excess of those listed in BDS standard. The mean value of water absorption shall not be greater than 0.5% of the ware when dry. When tested with chemical solutions (Acetic acid, Citric acid, Detergent, Hydrochloric acid, Sodium hydroxide, Sodium stearate and Sulfuric acid of various strength) as per BDS1162:2014 procedure, none of the test pieces should suffer any loss of reflectivity on the glaze. There shall be no crazing and no stain on the ware. The materials used for making glaze shall not contain lead compound. In case of certain coloring oxides used for making colored glaze, the lead content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked at a prominent place, visible even after the appliances are installed with the following: a) manufacturer's name and/or registered trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI Certification Mark. The fixture should be placed in position with heavy type C.I. Brackets. 30 mm dia PVC waste water pipe with brass coupling (not exceeding 750 mm in length), basin waste with chain plug including making holes in walls and floors and fitting with wall, screws and mending good the damages, finishing etc. all complete approved and accepted by the Engineer-in-charge.	each				
26.14.1	Approx. 510 mm X 400 mm size, minimum weight 15.0 kg	each	4289.00	4279.00	4242.00	4242.00
26.14.2	Approx. 550 mm X 440 mm size, minimum weight 17.0 kg	each	6584.00	6574.00	6537.00	6537.00
26.14.3	Approx. 600 mm X 500 mm size, minimum weight 18.5 kg	each	7429.00	7419.00	7382.00	7382.00
26.14.4	Approx. 550 mm X 460 mm size, minimum weigh 20.0 kg	each	7606.00	7596.00	7558.00	7558.00
26.15	Supplying, fitting and fixing basin pedestal of Approx. size of 670 mm x 186 mm x 170 mm, any color with rowel plug and screws etc. all complete approved and accepted by the Engineer-in-charge.	each	2565.00	2559.00	2543.00	2543.00
26.16	Supplying, fitting and fixing of country made porcelain sink of any color, approx. 635 mm x 480 mm x 195 mm size, 19.5 kg of weight. The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5 mm. When assembled together and when examined from a distance of 60 cm, the outer surface shall not show to the unaided eye, blemishes or defects in excess of those listed in BDS standard. The mean value of water absorption shall not be greater than 0.5% of the ware when dry. When tested with chemical solutions (Acetic acid, Citric acid, Detergent,	each	3959.00	3951.00	3927.00	3927.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	Hydrochloric acid, Sodium hydroxide, Sodium stearate and Sulfuric acid of various strength) as per BDS1162:2014 procedure, none of the test pieces should suffer any loss of reflectivity on the glaze. There shall be no crazing and no stain on the ware. The materials used for making glaze shall not contain lead compound. In case of certain coloring oxides used for making colored glaze, the lead content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked at a prominent place, visible even after the appliances are installed with the following: a) manufacturer's name and/ or registered trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI Certification Mark. The fixture should be placed in position fitted and fixed with heavy type C.I. brackets, 12 mm dia C.P. bib cock, 40 mm dia C.P. chain plug, 40 mm dia C.P. waste, 32 mm dia PVC waste pipe with brass coupling (750 mm length) including making holes in walls and floors and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer-in-charge.					
26.17	Supplying, fitting and fixing of best quality single bowl stainless steel sink with heavy type CI steel brackets, 40 mm dia C.P. chain plug, 40 mm dia C.P. waste, 40 mm dia PVC waste pipe with brass coupling (750 mm length) including making hole in walls and floors and mending good the damages, finishing with 1:4 cement mortar etc. all complete approved and accepted by the Engineer-in-charge.					
26.17.1	Approx. 508 X 406 mm size single bowl without sink tray	each	3688.00	3680.00	3656.00	3656.00
26.17.2	Approx. 508 X 457 mm size single bowl without sink tray	each	3802.00	3794.00	3770.00	3770.00
26.17.3	Approx. 610 X 457 mm size single bowl without sink tray	each	4204.00	4197.00	4173.00	4173.00
26.17.4	Approx. 762 X 457 mm size single bowl with sink tray	each	5447.00	5439.00	5415.00	5415.00
26.17.5	Approx. 914 X 457 mm size single bowl with sink tray	each	5573.00	5565.00	5541.00	5541.00
26.17.6	Approx. 1016 X 508 mm size single bowl with sink tray	each	6571.00	6563.00	6539.00	6539.00
26.18	Supplying, fitting and fixing of best quality double bowl stainless steel sink with heavy type CI or steel brackets, 12 mm dia C.P. chain plug, 40 mm dia C.P. waste, 40 mm dia PVC waste pipe with brass coupling (750 mm length) including making hole in walls and floors and mending good the damages, finishing etc. all complete approved and accepted by the Engineer-in-charge.					
26.18.1	Approx. 1160 mm x 500 mm size double bowl with sink tray (Standard)	each	8725.00	8715.00	8684.00	8684.00
26.18.2	Approx. 1160 mm x 500 mm size double bowl with sink tray (Super)	each	12508.00	12498.00	12467.00	12467.00
26.18.3	Approx. 1160 mm x 500 mm size double bowl with sink tray (Special)	each	18183.00	18173.00	18142.00	18142.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
26.19	Supplying, fitting and fixing of 5 mm thick unframed super quality double coated mirror with all necessary fitting including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer-in-charge.					
26.19.1	Local Mirror, 5 mm thickness	sqm	2662.00	2643.00	2580.00	2580.00
26.19.2	Belgium Mirror, 5 mm thickness	sqm	1772.00	1767.00	1750.00	1750.00
26.20	Supplying, fitting and fixing of super quality 600 mm x 125 mm coloured glass (plate) shelf having 5 mm thickness with fancy C.P. brackets, screws and frames including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer-in-charge.	each	1880.00	1875.00	1858.00	1858.00
26.21	Supplying, fitting and fixing of super quality 600 mm x 125 mm white glass (plate) shelf having 5 mm thickness with fancy C.P. brackets, screws and frames including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer-in-charge.	each	1061.00	1056.00	1039.00	1039.00
26.22	Supplying, fitting and fixing of country made best quality towel rail/ ring/ shelf minimum 20 mm in dia with C.P. holder including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer-in-charge.					
26.22.1	C.P. towel ring/ 450 mm long single towel rail	each	738.00	737.00	733.00	733.00
26.22.2	600 mm long C.P. single towel rail	each	738.00	737.00	733.00	733.00
26.22.3	600 mm long C.P. double towel rail	each	1300.00	1298.00	1295.00	1295.00
26.22.4	600 mm long C.P. towel shelf	each	1692.00	1690.00	1687.00	1687.00
26.23	Supplying, fitting and fixing of best quality toilet paper holder of standard size including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer-in-charge.					
26.23.1	PVC toilet paper holder	each	301.00	300.00	296.00	296.00
26.23.2	C.P iron bracket toilet paper holder	each	383.00	382.00	378.00	378.00
26.23.3	Porcelain toilet paper holder (any color)	each	830.00	830.00	826.00	826.00
26.23.4	Stainless steel toilet paper holder	each	578.00	577.00	574.00	574.00
26.24	Supplying, fitting and fixing of standard size country made soap tray including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer-in-charge.					
26.24.1	PVC soap tray	each	154.00	153.00	149.00	149.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
26.24.2	C.P. soap tray	each	242.00	241.00	237.00	237.00
26.24.3	Porcelain soap tray (any color)	each	431.00	430.00	427.00	427.00
26.24.4	Stainless steel soap tray	each	646.00	645.00	641.00	641.00
26.25	Supplying, fitting and fixing of Automatic sensor liquid soap dispenser to hold and dispense up to min 600 ml of liquid and lotion soaps, synthetic detergents and antibacterial soaps. Dispenser shall be powered by batteries and shall operate automatically from IR sensor that shall activate soap dispensing when hands are placed in sensor zone. Sensor detection range shall be adjustable by owner. Dispenser shall pump a drop volume of 0.8 ml to 1.0 ml of soap during each activation. A tamper resistant soap level-viewing window shall be provided. Unit shall have a swing open body secured with side-mounted lock that is opened with special key provided, all complete and accepted by the Engineer-in-charge.					
26.25.1	Automatic liquid soap dispenser (local); standard quality	each	1678.00	1671.00	1656.00	1656.00
26.25.2	Automatic liquid soap dispenser (local): super quality	each	3942.00	3935.00	3920.00	3920.00
26.25.3	Automatic liquid soap dispenser (foreign): special quality	each	8011.00	8004.00	7989.00	7989.00
26.26	Supplying, fitting and fixing of Push-Up type liquid soap dispenser to dispense 16 oz (47 liters) of soap, detergent or lotion. Unit shall be fabricated of tamper resistant, chrome plated plastic, a translucent white polyethylene soap container, and a corrosion resistant dispensing valve which can provide no more than 5 lbs (22.2 Newtons) pressure and unit can be reloaded by unscrewing base from bracket collar, inverting unit, and unscrewing soap container in which soap will continue to feed properly until empty with a continuously visible soap level etc. all complete approved and accepted by the Engineer-in-charge.					
26.26.1	Push-Up type liquid soap dispenser (local): standard quality	each	1384.00	1377.00	1362.00	1362.00
26.26.2	Push-Up type liquid soap dispenser (local): super quality	each	2109.00	2102.00	2087.00	2087.00
26.26.3	Push-Up type liquid soap dispenser (foreign): superior quality	each	6246.00	6239.00	6224.00	6224.00
26.26.4	Push-Up type liquid soap dispenser (foreign): special quality	each	9071.00	9064.00	9048.00	9048.00
26.27	Supplying, fitting and fixing of floor grating net in traps or in drains including making holes in walls/ floors and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer-in-charge of following type.					
26.27.1	Approx. 50~75 mm dia stainless steel floor grating net	each	192.00	191.00	188.00	188.00
26.27.2	Approx. 100~125 mm dia stainless steel floor grating net	each	337.00	336.00	333.00	333.00
26.27.3	Approx. 50 mm x 50 mm stainless steel floor grating net	each	192.00	191.00	188.00	188.00
26.27.4	Approx. 100 mm x 100 mm stainless steel floor grating net	each	217.00	216.00	213.00	213.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
26.27.5	Approx. 125 mm x 125 mm stainless steel floor grating net	each	1018.00	1017.00	1014.00	1014.00
26.27.6	125 mm dia convex cast iron grating on rain water down pipe (roof top)	each	570.00	569.00	567.00	567.00
26.28	Supplying, fitting and fixing of 100 mm floor drain with vertical outlet in traps including making holes in walls/floors and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer- in-charge.	each	1409.00	1408.00	1405.00	1405.00
26.29	Supplying, fitting and fixing of best quality country made 12 mm bib cock made from copper or copper alloy, chromium plated. The faucet conforms BDS EN 200:2009. The faucet tap shall be free from any leakage, permeation and other abnormalities. The water hammer value shall be 1.47 MPa or under. The faucet after it has been operated 100000 times it shall be free from a seat- leakage and shall satisfy the reverse flow preventing performance. The inside and outside surfaces of the faucet shall be smooth and be free from blowholes, fissures, remarkable flows or injurious defects. The chromium plating on the faucet shall be of class 2 grade 1. The final coating should be done with chromium of minimum 0.1 micron. The faucet shall be made leak proof and fixing in position with selected tape etc. all complete approved and accepted by the Engineer- in- charge.					
26.29.1	Round headed CP Conceal Bib Cock short body (Essco/ coaster/ star/ diamond/ delux/ deco/ orbed/ delin/ triple/ master/ classic headed or similar head)	each	1204.00	1202.00	1193.00	1193.00
26.29.2	Lever CP Conceal Bib Cock long body with aerator (Oliver/ spoon/ delta/ decent lever or similar)	each	1204.00	1202.00	1193.00	1193.00
26.29.3	12 mm CP open Bib Cock	each	1009.00	1006.00	998.00	998.00
26.29.4	12 mm CP Two in One Bib Cock	each	1898.00	1895.00	1887.00	1887.00
26.29.5	Elbow action CP Bib Cock	each	3361.00	3358.00	3350.00	3350.00
26.29.6	CP Push Cock	each	1040.00	1038.00	1030.00	1030.00
26.29.7	CP Leaf Cock	each	838.00	836.00	828.00	828.00
26.30	Supplying, fitting and fixing of best quality surface mounted or conceal stop cock/angle stop cock (lever or round headed) with wall flange chromium plated. The faucet conforms BDS EN 200:2009. The faucet tap shall be free from any leakage, permeation and other abnormalities. The water hammer value shall be 1.47 MPa or under. The faucet after it has been operated 100000 times it shall be free from a seat- leakage and shall satisfy the reverse flow preventing performance. The inside and outside surfaces of the faucet shall be smooth and be free from blowholes, fissures, remarkable flows or injurious defects. The chromium plating on the faucet shall be of class 2 grade 1. The final coating should be done with chromium of minimum 0.1 micron. The faucet shall be made					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	leak proof and fixing in position with selected tape etc. all complete approved and accepted by the Engineer-in-charge.					
26.30.1	12 mm dia CP Concealed Stop Cock	each	1185.00	1183.00	1175.00	1175.00
26.30.2	20 mm dia CP Concealed Stop Cock	each	1236.00	1233.00	1225.00	1225.00
26.30.3	25 mm dia CP Concealed Stop Cock	each	1393.00	1391.00	1383.00	1383.00
26.30.4	CP angle stop cock	each	1015.00	1013.00	1004.00	1004.00
26.30.5	CP Two in One angle stop cock	each	1299.00	1296.00	1288.00	1288.00
26.31	Supplying, fitting and fixing of best quality pillar cock made from copper or copper alloy, chromium plated materials. The faucet conforms BDS EN 200:2009. The faucet tap shall be free from any leakage, permeation and other abnormalities. The water hammer value shall be 1.47 MPa or under. The faucet after it has been operated 100000 times it shall be free from a seat- leakage and shall satisfy the reverse flow preventing performance. The inside and outside surfaces of the faucet shall be smooth and be free from blowholes, fissures, remarkable flows or injurious defects. The chromium plating on the faucet shall be of class 2 grade 1. The final coating should be done with chromium of minimum 0.1 micron. The faucet shall be made leak proof and fixing in position with selected tape etc. all complete approved and accepted by the Engineer-in-charge.					
26.31.1	CP Round headed fixed Pillar cock	each	1583.00	1580.00	1572.00	1572.00
26.31.2	CP Single lever pillar cock	each	1583.00	1580.00	1572.00	1572.00
26.31.3	CP Single lever pillar cock (High top 8")	each	3154.00	3151.00	3143.00	3143.00
26.31.4	CP Single lever pillar cock (High top 12")	each	4163.00	4160.00	4152.00	4152.00
26.31.5	CP Single lever moving pillar cock	each	1943.00	1941.00	1932.00	1932.00
26.31.6	CP Elbow action Pillar cock	each	3361.00	3358.00	3350.00	3350.00
26.31.7	CP One way Swan Cock	each	6085.00	6082.00	6074.00	6074.00
26.31.8	CP Two way Swan Cock	each	7094.00	7091.00	7083.00	7083.00
26.31.9	CP Three way Swan Cock	each	8405.00	8403.00	8394.00	8394.00
26.32	Supplying, fitting and fixing of best quality CP self closing pillar cock without mixer (SensorType/ Push Type) with necessary hardware etc. complete approved and accepted by the Engineer-in-charge.					
26.32.1	Sensor Type self closing pillar cock	each	9480.00	9476.00	9463.00	9463.00
26.32.2	Push Type Self closing pillar cock	each	1404.00	1400.00	1387.00	1387.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
26.33	Supplying, fitting and fixing of best quality sink cock made from copper or copper alloy, chromium plated. The faucet conforms BDS EN 200:2009. The faucet tap shall be free from any leakage, permeation and other abnormalities. The water hammer value shall be 1.47 MPa or under. The faucet after it has been operated 100000 times it shall be free from a seat- leakage and shall satisfy the reverse flow preventing performance. The inside and outside surfaces of the faucet shall be smooth and be free from blowholes, fissures, remarkable flows or injurious defects. The chromium plating on the faucet shall be of class 2 grade 1. The final coating should be done with chromium of minimum 0.1 micron. The faucet shall be made leak proof and fixing in position with selected tape etc. all complete approved and accepted by the Engineer- in- charge.					
26.33.1	12 mm CP concealed fixed sink cock	each	1236.00	1233.00	1225.00	1225.00
26.33.2	12 mm CP concealed super quality moving sink cock	each	1731.00	1729.00	1721.00	1721.00
26.33.3	12 mm CP concealed special moving sink cock	each	1943.00	1941.00	1932.00	1932.00
26.34	Supplying, fitting and fixing of best quality CP basin/ sink mixer . The faucet conforms BDS EN 200:2009. The faucet tap shall be free from any leakage, permeation and other abnormalities. The water hammer value shall be 1.47 MPa or under. The faucet after it has been operated 100000 times it shall be free from a seat- leakage and shall satisfy the reverse flow preventing performance. The inside and outside surfaces of the faucet shall be smooth and be free from blowholes, fissures, remarkable flows or injurious defects. The chromium plating on the faucet shall be of class 2 grade 1. The final coating should be done with chromium of minimum 0.1 micron. The faucet shall be made leak proof and fixing in position with selected tape etc. all complete approved and accepted by the Engineer-in-charge.					
26.34.1	Single handle/ lever basin mixer	each	3153.00	3150.00	3142.00	3142.00
26.34.2	Fixed basin mixer	each	3348.00	3346.00	3337.00	3337.00
26.34.3	Moving basin mixer	each	3411.00	3409.00	3400.00	3400.00
26.34.4	Moving sink mixer	each	1943.00	1941.00	1932.00	1932.00
26.35	Supplying, fitting and fixing of best quality 20 mm CP shower mixer . The faucet conforms BDS EN 200:2009. The faucet tap shall be free from any leakage, permeation and other abnormalities. The water hammer value shall be 1.47 MPa or under. The faucet after it has been operated 100000 times it shall be free from a seat- leakage and shall satisfy the reverse flow preventing performance. The inside and outside surfaces of the faucet shall be smooth and be free from blowholes, fissures, remarkable flows or injurious defects. The chromium plating on the faucet shall be of class 2 grade 1. The final coating should be done with chromium of minimum 0.1 micron. The faucet shall be made leak proof and fixing in position with selected tape etc. all complete approved and accepted by the Engineer-in-charge.					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
26.35.1	CP shower mixture including shower head only	each	5923.00	5921.00	5913.00	5913.00
26.35.2	CP shower mixture including shower head and faucet	each	7321.00	7318.00	7310.00	7310.00
26.36	Supplying, fitting and fixing of best quality Bathtub mixer . The faucet conforms BDS EN 200:2009. The faucet tap shall be free from any leakage, permeation and other abnormalities. The water hammer value shall be 1.47 MPa or under. The faucet after it has been operated 100000 times it shall be free from a seat- leakage and shall satisfy the reverse flow preventing performance. The inside and outside surfaces of the faucet shall be smooth and be free from blowholes, fissures, remarkable flows or injurious defects. The chromium plating on the faucet shall be of class 2 grade 1. The final coating should be done with chromium of minimum 0.1 micron. The faucet shall be made leak proof and fixing in position with selected tape etc. all complete approved and accepted by the Engineer- in- charge.					
26.36.1	Bathtub mixer without hand shower	each	5111.00	5108.00	5069.00	5069.00
26.36.2	Bathtub mixer including hand shower	each	5572.00	5568.00	5529.00	5529.00
26.37	Supplying, fitting and fixing of best quality Single lever angle stop mixer . The faucet conforms BDS EN 200:2009. The faucet tap shall be free from any leakage, permeation and other abnormalities. The water hammer value shall be 1.47 MPa or under. The faucet after it has been operated 100000 times it shall be free from a seat- leakage and shall satisfy the reverse flow preventing performance. The inside and outside surfaces of the faucet shall be smooth and be free from blowholes, fissures, remarkable flows or injurious defects. The chromium plating on the faucet shall be of class 2 grade 1. The final coating should be done with chromium of minimum 0.1 micron. The faucet shall be made leak proof and fixing in position with selected tape etc. all complete approved and accepted by the Engineer- in- charge.	each	2347.00	2344.00	2336.00	2336.00
26.38	Supplying and fitting-fixing Chromium plated (CP) Shower head all complete approved and accepted by the Engineer- in- charge.					
26.38.1	Moving type 100 mm CP shower head	each	1286.00	1284.00	1275.00	1275.00
26.38.2	Moving type 150 mm CP shower head	each	2339.00	2337.00	2328.00	2328.00
26.38.3	Moving type 200 mm CP shower head	each	2604.00	2602.00	2593.00	2593.00
26.38.4	Moving type 250 mm CP shower head	each	2907.00	2904.00	2896.00	2896.00
26.39	Supplying and fitting-fixing stainless steel hand / push shower for ablution including holder etc. all complete approved and accepted by the Engineer- in- charge.					
26.39.1	Moving type hand shower	each	1494.00	1492.00	1484.00	1484.00
26.39.2	Moving type push shower	each	1078.00	1076.00	1067.00	1067.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	Rajshahi, Rangpur
	PIPE AND PIPE FITTING ACCESSORIES					
	PIPE ITEMS					
26.40	Supplying, fitting and fixing of 100 mm inside diameter & wall thickness 2.7 mm - 3.4 mm best quality uPVC rain water down pipe fitting, fixed in position with head and shoes, bends, min. 20 mm width F.I. Bar clamp and nails, and including all accessories such as round grating/ domed roof grating, bands, sockets approved and accepted by the Engineer-in-charge.	meter	1021.00	1015.00	997.00	997.00
26.41	Supplying, laying, fitting and fixing of best quality HDPE soil, waste and ventilation pipe having PE-100 (Hydrostatic Strength for PE-100 is 5.0 MPa & 12.4 MPa at 80°C & 20°C respectively according to ISO 4427:2007(E), PN-6 (nominal pressure for PN-6 is 0.6 MPa according to ISO 4427:2007(E) & SDR 26 for soil, waste and ventilation pressure pipe having density 0.940 – 0.970 gm/cm ³ and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM/BS/ISO/IS standards, fitted and fixed in position with necessary joints and fittings with all accessories complete approved and accepted by the Engineer-in-charge.					
26.41.1	For underground including earth cutting & preparation of bed					
26.41.1.1	HDPE pipe of 110 mm outside dia with wall thickness 4.2 mm - 4.8 mm	meter	1555.00	1551.00	1527.00	1527.00
26.41.1.2	HDPE pipe of 160 mm outside dia with wall thickness 6.2 mm - 7.0 mm	meter	2448.00	2442.00	2414.00	2414.00
26.41.1.3	HDPE pipe of 200 mm outside dia with wall thickness 7.7 mm - 8.6 mm	meter	4063.00	4057.00	4025.00	4025.00
26.41.1.4	HDPE pipe of 250 mm outside dia with wall thickness 9.6 mm - 10.7 mm	meter	6234.00	6214.00	6139.00	6139.00
26.41.1.5	HDPE pipe of 280 mm outside dia with wall thickness 10.7 mm - 11.9 mm	meter	8112.00	8092.00	8017.00	8017.00
26.41.1.6	HDPE pipe of 315 mm outside dia with wall thickness 12.1 mm - 13.5 mm	meter	9940.00	9920.00	9846.00	9846.00
26.41.1.7	HDPE pipe of 400 mm outside dia with wall thickness 15.3 mm - 17.0 mm	meter	15829.00	15810.00	15726.00	15726.00
26.41.1.8	HDPE pipe of 630 mm outside dia with wall thickness 24.2 mm - 26.7 mm	meter	36794.00	36769.00	36661.00	36661.00
26.41.1.9	HDPE pipe of 710 mm outside dia with wall thickness 27.2 mm - 30.1 mm	meter	47294.00	47269.00	47161.00	47161.00
26.41.1.10	HDPE pipe of 900 mm outside dia with wall thickness 34.4 mm - 38.3 mm	meter	70454.00	70430.00	70321.00	70321.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
26.41.2	For in house system					
26.41.2.1	HDPE pipe 110 mm outside dia with wall thickness 4.2 mm - 4.8 mm	meter	2069.00	2065.00	2050.00	2050.00
26.41.2.2	HDPE pipe 160 mm outside dia with wall thickness 6.2 mm - 7.0 mm	meter	3367.00	3361.00	3341.00	3341.00
26.41.2.3	HDPE pipe 200 mm outside dia with wall thickness 7.7 mm - 8.6 mm	meter	5375.00	5369.00	5349.00	5349.00
26.41.2.4	HDPE pipe 250 mm outside dia with wall thickness 9.6 mm - 10.7 mm	meter	8418.00	8412.00	8393.00	8393.00
26.42	Supplying, fitting and fixing of G.I. pipe with all special fittings, such as bends, elbows, sockets, reducing sockets, Tee, unions, jam-nuts etc. including cutting trenches where necessary and fitting the same with earth duly rammed and fixing in walls with holder bats and making hole in floors, walls and consequent mending good the damages etc. all complete in all respects approved and accepted by the Engineer- in-charge.					
26.42.1	12.5 mm dia G.I. pipe with wall thickness 2.65 mm, outside diameter min 17.8 mm, weight 1.31 kg/m, can withstand min 50 kg/cm ² hydraulic pressure.	meter	453.00	451.00	444.00	444.00
26.42.2	20 mm dia G.I. pipe with wall thickness 2.65 mm, outside diameter min 25.3 mm, weight 1.7 kg/m, can withstand min 50 kg/cm ² hydraulic pressure.	meter	564.00	562.00	555.00	555.00
26.42.3	25 mm dia G.I. pipe with wall thickness 3.35 mm, outside diameter min 31.7 mm, weight 2.59 kg/m, can withstand min 50 kg/cm ² hydraulic pressure.	meter	720.00	718.00	711.00	711.00
26.42.4	32 mm dia G.I. pipe with wall thickness 3.25 mm, outside diameter min 38.5 mm, weight 3.33 kg/m, can withstand min 50 kg/cm ² hydraulic pressure.	meter	909.00	906.00	897.00	897.00
26.42.5	40 mm dia G.I. pipe with wall thickness 3.25 mm, outside diameter min 46.5 mm, weight 3.83 kg/m, can withstand min 50 kg/cm ² hydraulic pressure.	meter	1178.00	1174.00	1161.00	1161.00
26.42.6	50 mm dia G.I. pipe with wall thickness 3.65 mm, outside diameter min 57.3 mm, weight 5.38 kg/m, can withstand min 50 kg/cm ² hydraulic pressure.	meter	1546.00	1540.00	1520.00	1520.00
26.42.7	62-65 mm dia G.I. pipe with wall thickness 3.25 mm, outside diameter min 71.5 mm, weight 6.15 kg/m, can withstand min 50 kg/cm ² hydraulic pressure.	meter	2463.00	2453.00	2421.00	2421.00
26.42.8	75 -80 mm dia G.I. pipe with wall thickness 3.25 mm, outside diameter min 86.5 mm, weight 7.22 kg/m, can withstand min 50 kg/cm ² hydraulic pressure.	meter	2680.00	2670.00	2636.00	2636.00
26.42.9	100 mm dia G.I. pipe with wall thickness 3.65 mm, outside diameter min 107.3 mm, weight 10.42 kg/m, can withstand min 50 kg/cm ² hydraulic pressure.	meter	3824.00	3812.00	3773.00	3773.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
26.43	Supplying different inside dia best quality uPVC soil, waste and ventilation pipe having specific gravity 1.35 - 1.45, wall thickness 2.5 mm - 3.0 mm, and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards fitting and fixing in position with sockets, bends, of uPVC Pipe with all accessories such as Round grating/ domed roof grating bands, sockets etc. approved and accepted by the Engineer-in-charge.					
26.43.1	50 mm inside dia wall thickness 2.5 mm - 3.0 mm	meter	580.00	574.00	556.00	556.00
26.43.2	100 mm inside dia wall thickness 3.4- 4.0 mm	meter	906.00	902.00	888.00	888.00
26.43.3	150 mm inside dia wall thickness 4.5 mm - 5.2 mm	meter	1643.00	1637.00	1617.00	1617.00
26.44	Supplying and laying uPVC pipe for underground including fitting, fixing etc. all complete approved and accepted by the Engineer-in-charge.					
26.44.1	150 mm dia with wall thickness 4.5 mm - 6.6 mm uPVC pipe	meter	1455.00	1452.00	1433.00	1433.00
26.44.2	200 mm dia with wall thickness 5.3 mm - 7.8 mm uPVC pipe	meter	2163.00	2160.00	2136.00	2136.00
26.44.3	250 mm dia with wall thickness 6.6 mm - 7.6 mm uPVC pipe	meter	3163.00	3160.00	3138.00	3138.00
26.44.4	280 mm dia with wall thickness 6.9 mm - 8.6 mm uPVC pipe	meter	3538.00	3534.00	3508.00	3508.00
26.44.5	315 mm dia with wall thickness 7.8 mm - 9.0 mm uPVC pipe	meter	4453.00	4449.00	4422.00	4422.00
26.45	Supplying different inside dia best quality uPVC pressure pipe for water supply having specific gravity 1.35 -1.45, and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards fitted and fixed in position with sockets, bends, with all accessories such as Round grating/ domed roof grating, bends, sockets etc. approved and accepted by the Engineer-in-charge.					
26.45.1	12 mm dia wall thickness 1.7 mm - 2.8 mm	meter	172.00	170.00	164.00	164.00
26.45.2	19 mm dia wall thickness 1.9 mm - 2.9 mm	meter	222.00	220.00	213.00	213.00
26.45.3	25 mm dia wall thickness 2.2 mm - 3.4 mm	meter	287.00	283.00	274.00	274.00
26.45.4	32 mm dia wall thickness 2.7 mm - 3.6 mm	meter	293.00	291.00	285.00	285.00
26.45.5	37 mm dia wall thickness 2.5 mm - 3.1 mm	meter	307.00	305.00	299.00	299.00
26.45.6	60 mm dia wall thickness 3.0 mm - 3.9 mm	meter	587.00	584.00	574.00	574.00
26.45.7	75 mm dia wall thickness 2.9 mm - 3.5 mm	meter	656.00	653.00	643.00	643.00
26.45.8	88 mm dia wall thickness 3.5 mm - 4.1 mm	meter	755.00	752.00	741.00	741.00
26.45.9	114 mm dia wall thickness 4.5 mm - 5.2 mm	meter	924.00	922.00	911.00	911.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
26.46	Supplying different inside dia best quality CPVC pressure pipe for water supply having specific gravity 1.35 - 1.45, and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards fitting and fixing in position with sockets, bends, with all accessories such as round grating/ domed roof grating, bends, sockets etc. approved and accepted by the Engineer-in-charge.					
26.46.1	12 mm dia wall thickness 2.8 mm - 3.3 mm	meter	273.00	271.00	264.00	264.00
26.46.2	19 mm dia wall thickness 2.9 mm - 3.4 mm	meter	397.00	396.00	389.00	389.00
26.46.3	25 mm dia wall thickness 3.4 mm - 4.0 mm	meter	466.00	463.00	453.00	453.00
26.46.4	32 mm dia wall thickness 3.6 mm - 4.2 mm	meter	642.00	640.00	635.00	635.00
26.46.5	37 mm dia wall thickness 3.7 mm - 4.3 mm	meter	892.00	890.00	884.00	884.00
26.46.6	50 mm dia wall thickness 3.9 mm - 4.5 mm	meter	1526.00	1523.00	1513.00	1513.00
26.47	Supplying, fitting and fixing of PP-R Pipe for water supply sustaining minimum water pressure PN 20, fulfilling corresponding standard dimension ratio SDR meeting the performance & long-term strength requirements as per DIN 8077/ 78 or ASTM F 2983 including nipple, elbow, reducers, Tee, end cap, plug, socket etc. as per manufacturer instruction all complete accepted by the Engineer in-charge.					
26.47.1	12 mm dia, minimum wall thickness 2.8 mm	meter	332.00	329.00	315.00	315.00
26.47.2	19 mm dia, minimum wall thickness 3.5 mm	meter	373.00	367.00	353.00	353.00
26.47.3	25 mm dia, minimum wall thickness 4.4 mm	meter	436.00	430.00	416.00	416.00
26.47.4	32 mm dia, minimum wall thickness 5.5 mm	meter	553.00	539.00	525.00	525.00
26.47.5	38 mm dia, minimum wall thickness 6.9 mm	meter	679.00	640.00	626.00	626.00
26.47.6	50 mm dia, minimum wall thickness 8.6 mm	meter	914.00	887.00	873.00	873.00
26.48	Supplying, fitting and laying of Pipes up to depth of invert dia R.C.C pipe having 1.83 meter in length made of stone chips with 40 mm cement joint including all fittings and specials like plain bend, Tees, reducing sockets, junctions, door bends cowl, anti-siphon, gasket and cement joints, making holes in walls and mending good the damages etc. all complete approved and accepted by the Engineer-in-charge.					
26.48.1	R.C.C pipe of 150 mm dia with thickness 40mm	meter	1127.00	1123.00	1106.00	1106.00
26.48.2	R.C.C pipe of 225 mm dia with thickness 40mm	meter	1787.00	1780.00	1750.00	1750.00
26.48.3	R.C.C pipe of 300 mm dia with thickness 50mm	meter	2932.00	2923.00	2881.00	2881.00
26.48.4	R.C.C pipe of 375 mm dia with thickness 50mm	meter	3719.00	3706.00	3658.00	3658.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	Pipe fitting Accessories (union, gate valve, globe valve, check valve, float valve, clean out)					
26.49	Supplying, fitting and fixing of PP-R Union meeting the performance & long-term strength requirements of ASTM F2389 in accordance with the manufacturer's specifications all complete accepted by the Engineer-in-charge.					
26.49.1	12 mm PP-R Union	each	327.00	265.00	258.00	258.00
26.49.2	19 mm PP-R Union	each	373.00	289.00	281.00	281.00
26.49.3	25 mm PP-R Union	each	419.00	367.00	358.00	358.00
26.49.4	32 mm PP-R Union	each	661.00	529.00	518.00	518.00
26.49.5	37 mm PP-R Union	each	1069.00	755.00	737.00	737.00
26.49.6	50 mm PP-R Union	each	1223.00	860.00	843.00	843.00
26.50	Supplying, fitting and fixing of PP-R Gate-Valve meeting the performance & long-term strength requirements of ASTM F 2389 in accordance with the manufacturer's specifications all complete accepted by the Engineer-in-charge.					
26.50.1	12 mm PP-R Gate-Valve	each	430.00	507.00	500.00	500.00
26.50.2	19 mm PP-R Gate-Valve	each	562.00	658.00	650.00	650.00
26.50.3	25 mm PP-R Gate-Valve	each	613.00	751.00	743.00	743.00
26.50.4	32 mm PP-R Gate-Valve	each	991.00	855.00	847.00	847.00
26.50.5	37 mm PP-R Gate-Valve	each	1054.00	962.00	954.00	954.00
26.50.6	50 mm PP-R Gate-Valve	each	1307.00	1412.00	1404.00	1404.00
26.51	Supplying, fitting and fixing of G.I. Union with sealant etc. complete in all respects approved and accepted by the Engineer-in-charge.					
26.51.1	12 mm dia G.I. Union	each	182.00	179.00	172.00	172.00
26.51.2	20 mm dia G.I. Union	each	234.00	231.00	223.00	223.00
26.51.3	25 mm dia G.I. Union	each	282.00	279.00	269.00	269.00
26.51.4	32 mm dia G.I. Union	each	362.00	358.00	346.00	346.00
26.51.5	40 mm dia G.I. Union	each	504.00	499.00	481.00	481.00
26.51.6	50 mm dia G.I. Union	each	540.00	535.00	519.00	519.00
26.51.7	62 mm dia G.I. Union	each	889.00	883.00	864.00	864.00
26.51.8	75 mm dia G.I. Union	each	1189.00	1183.00	1160.00	1160.00
26.51.9	100 mm dia G.I. Union	each	1614.00	1606.00	1580.00	1580.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
26.52	Supplying, fitting and fixing of best quality G.I. gate valve with sealant etc. complete approved and accepted by the Engineer- in- charge.					
26.52.1	12 mm brass gate valve	each	472.00	469.00	462.00	462.00
26.52.2	20 mm brass gate valve	each	650.00	647.00	640.00	640.00
26.52.3	25 mm brass gate valve	each	767.00	764.00	755.00	755.00
26.52.4	32 mm brass gate valve	each	1075.00	1071.00	1059.00	1059.00
26.52.5	40 mm brass gate valve	each	1255.00	1249.00	1231.00	1231.00
26.52.6	50 mm brass gate valve	each	1927.00	1923.00	1906.00	1906.00
26.52.7	62 mm brass gate valve	each	3891.00	3885.00	3865.00	3865.00
26.52.8	75 mm brass gate valve	each	5282.00	5275.00	5252.00	5252.00
26.52.9	100 mm brass gate valve	each	8310.00	8302.00	8277.00	8277.00
26.53	Supplying, fitting and fixing of best quality G.I. globe valve , threaded joint with sealant etc. complete approved and accepted by the Engineer- in- charge.					
26.53.1	12 mm dia brass globe valve	each	522.00	520.00	513.00	513.00
26.53.2	20 mm dia brass globe valve	each	606.00	603.00	595.00	595.00
26.53.3	25 mm dia brass globe valve	each	874.00	871.00	862.00	862.00
26.53.4	32 mm dia brass globe valve	each	1201.00	1197.00	1185.00	1185.00
26.53.5	40 mm dia brass globe valve	each	1438.00	1432.00	1414.00	1414.00
26.53.6	50 mm dia brass globe valve	each	2192.00	2187.00	2171.00	2171.00
26.53.7	62 mm dia brass globe valve	each	4584.00	4579.00	4559.00	4559.00
26.53.8	75 mm dia brass globe valve	each	5824.00	5817.00	5794.00	5794.00
26.53.9	100 mm dia brass globe valve	each	9193.00	9185.00	9159.00	9159.00
26.54	Supplying, fitting and fixing of best quality G.I. check valve , threaded joint with sealant etc. complete approved and accepted by the Engineer- in- charge.					
26.54.1	12 mm brass check valve	each	478.00	475.00	469.00	469.00
26.54.2	20 mm brass check valve	each	575.00	572.00	564.00	564.00
26.54.3	25 mm brass check valve	each	780.00	777.00	767.00	767.00
26.54.4	32 mm brass check valve	each	1037.00	1033.00	1021.00	1021.00
26.54.5	40 mm brass check valve	each	1305.00	1300.00	1282.00	1282.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
26.54.6	50 mm brass check valve	each	1909.00	1904.00	1887.00	1887.00
26.54.7	62 mm brass check valve	each	3273.00	3267.00	3247.00	3247.00
26.54.8	75 mm brass check valve	each	4449.00	4443.00	4420.00	4420.00
26.54.9	100 mm brass check valve	each	7301.00	7294.00	7268.00	7268.00
26.55	Supplying, fitting and fixing of best quality G.I. float valve , threaded joint Pit valve etc. complete approved and accepted by the Engineer- in- charge.					
26.55.1	12 mm brass float valve	each	435.00	432.00	425.00	425.00
26.55.2	20 mm brass float valve	each	576.00	573.00	565.00	565.00
26.55.3	25 mm brass float valve	each	643.00	640.00	631.00	631.00
26.55.4	32 mm brass float valve	each	1053.00	1049.00	1037.00	1037.00
26.55.5	40 mm brass float valve	each	1353.00	1347.00	1329.00	1329.00
26.56	Supplying different inside dia best quality uPVC clean out/ trap having specific gravity 1.35-1.45 and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ ISO/ IS standards, fitting and fixing in position etc. complete approved and accepted by the Engineer-in-charge.					
26.56.1	50 mm dia uPVC Y or T - Y Cleanout	each	364.00	361.00	353.00	353.00
26.56.2	50 mm dia uPVC 'P' or 'S' trap	each	713.00	709.00	696.00	696.00
26.56.3	100 mm dia uPVC Y or T - Y Cleanout	each	690.00	686.00	671.00	671.00
26.56.4	100 mm dia uPVC 'P' or 'S' trap	each	452.00	449.00	441.00	441.00
	Pressure reducing valve					
26.57	Supply, fitting and fixing of Water pressure reducing valve to reduce static and flowing pressures in water distribution systems and it shall be a diaphragm/ balanced piston type with integral stainless steel strainer and a built-in bypass to relieve pressure build-up downstream of the assembly. The valve shall be spring loaded to open and shall be diaphragm actuated to close under pressure conditions. The valve shall be suitable for supply pressure up to 400 psi and water temperatures from 33° to 180°F. The valve's internal parts such as the cartridge assembly, strainer, diaphragm, and spring shall be accessible for inspection, repair or replacement without disconnecting the device from the pipeline. In addition, the valve shall have a clean-out feature to allow for removal of the strainer and seat disc without disturbing the pressure setting etc. all complete accepted by the Engineer-in-charge.					
26.57.1	12 mm dia water pressure reducing valve (MS)	each	2605.00	2602.00	2594.00	2594.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
26.57.2	19 mm dia water pressure reducing valve (MS)	each	3450.00	3447.00	3439.00	3439.00
26.57.3	25 mm dia water pressure reducing valve (MS)	each	4307.00	4305.00	4297.00	4297.00
26.57.4	32 mm dia water pressure reducing valve (MS)	each	6451.00	6449.00	6441.00	6441.00
26.57.5	38 mm dia water pressure reducing valve (MS)	each	7965.00	7962.00	7954.00	7954.00
26.57.6	50 mm dia water pressure reducing valve (MS)	each	11748.00	11745.00	11737.00	11737.00
26.57.7	62 mm dia water pressure reducing valve (MS)	each	20324.00	20321.00	20313.00	20313.00
26.57.8	75 mm dia water pressure reducing valve (MS)	each	29151.00	29149.00	29141.00	29141.00
26.57.9	19 mm dia water pressure reducing valve (Brass double net)	each	4151.00	4148.00	4140.00	4140.00
26.57.10	25 mm dia water pressure reducing valve (Brass double net)	each	5339.00	5336.00	5328.00	5328.00
26.57.11	38 mm dia water pressure reducing valve (Brass double net)	each	9790.00	9787.00	9779.00	9779.00
26.57.12	50 mm dia water pressure reducing valve (Brass double net)	each	13498.00	13496.00	13488.00	13488.00
	WATER TANK, CONNECTION PIPE, WATER PURIFIER & DISPENSER, BOOSTER PUMP, HAND DRIER					
26.58	Supplying, fitting and fixing of food graded plastic overhead water reservoir /tank including all necessary fittings, hardware and consumables etc. all complete approved and accepted by the Engineer- in- charge.					
26.58.1	1000 liter capacity	each	12331.00	12293.00	12142.00	12142.00
26.58.2	1500 liter capacity	each	16934.00	16896.00	16745.00	16745.00
26.58.3	2000 liter capacity	each	21537.00	21499.00	21348.00	21348.00
26.58.4	3000 liter capacity	each	30743.00	30706.00	30554.00	30554.00
26.58.5	5000 liter capacity	each	49156.00	49118.00	48966.00	48966.00
26.59	Supply and installation of food-graded plastic internal mini water tank for the use in kitchen, bathroom and toilet for emergency storage and supply of water manufactured from liner low density polyethylene (ILDPE) roto-grade (ultra violet) stabilized which complies FDA (Federal Department of Agriculture, USA) regulations 21 CFR 1277. 152, having food grade quality where no recycled material is used carrying, lifting, fitting, fixing in position including supply of necessary hardware, consumables, fittings etc. all complete approved and accepted by the Engineer- in- charge.					
26.59.1	150 liter capacity	each	4247.00	4235.00	4184.00	4184.00
26.59.2	300 liter capacity	each	5824.00	5811.00	5761.00	5761.00
26.59.3	500 liter capacity	each	6013.00	6000.00	5950.00	5950.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
26.60	Supply and installation of 400 gallon capacity ferro-cement water tank (HBRI made or equivalent) including supply of hardware, consumables, fittings etc. all complete approved and accepted by the Engineer- in- Charge.	each	9711.00	9711.00	9711.00	9711.00
26.61	Supplying, fitting and fixing of 12 mm dia connection pipe approved and accepted by the Engineer- in- charge.					
26.61.1	450 mm long plastic flexible lead (connection) pipe	each	115.00	115.00	111.00	111.00
26.61.2	600 mm long plastic flexible lead (connection) pipe	each	127.00	127.00	124.00	124.00
26.61.3	450 mm long metal cover connection pipe	each	193.00	193.00	189.00	189.00
26.61.4	600 mm long metal cover connection pipe	each	228.00	228.00	224.00	224.00
26.62	Supplying, fitting, fixing of foreign made best quality Reverse Osmosis Water Purifier (Kent/ Unilever/ Vapor water purifier or equivalent brand) for purification of water by reverse osmosis system to have potable water conforming WHO standard and Bangladesh concentration parameters including installation charge, carriage, sundries etc. complete approved and accepted by the Engineer- in- charge.					
26.62.1	Water purification capacity: 10 L/hr, storage 6 litre; RO+MF	each	19093.00	19093.00	19093.00	19093.00
26.62.2	Water purification capacity: 10~12 L/hr, digital display, storage minimum 9 litre, 7 stage purification; Ro+UV+MF	each	33432.00	33432.00	33432.00	33432.00
26.62.3	Water purification capacity: 15 L/hr; storage 8 litre, RO+UF	each	23141.00	23141.00	23141.00	23141.00
26.62.4	Water purification capacity: 20 L/hr, minimum storage 8 litre, 6 stage purification; RO+UV+MF	each	30216.00	30216.00	30216.00	30216.00
26.62.5	Water purification capacity: 60 L/hr, at least 5 stage filtration RO purifier.	each	97106.00	97105.00	97105.00	97105.00
26.63	Supply, installation and commissioning of 50 liter capacity best quality 'Water dispenser' with container of approved brand/origin.	each	4729.00	4729.00	4729.00	4729.00
26.64	Supply and Installation of Automatic Pressure and Flow Controller having Maximum flow rate-80 Liter/min (minimum), Starting Flow rate- 2-2.5 Liter/min, Maximum Switching current: 12 A. Maximum total pressure 10 Bar and operating pressure should be 1-3.5 Bar. Supported Motor voltage 230 V $\pm$ 5% 50 Hz AC supply. Having pressure gauge of minimum 40mm dia (0-12 Bar) and inlet and outlet size shall be 1 inch minimum and inline position threaded and protection: IP-65 (minimum). Manufactured in EU/G7 countries as per sample accepted/ approved by the Engineer-in-charge. (For Centrifugal Pump motor up to 2 HP)					
26.64.1	Maximum flow rate-80 Liter/min	each	11760.00	11754.00	11697.00	11697.00
26.64.2	Maximum flow rate-200 Liter/min	each	17939.00	17933.00	17876.00	17876.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
26.65	Supplying, fitting and installation of automatic hand drier of high speed, energy efficient, rapid drying, automatic sensor, adjustable speed and sound control, adjustable heat control, electric hand dryer; surface mounted or semi-recessed which can eliminate over 99% of airborne bacteria and particles as small as 0.3 microns with the removable Super Filter System and it shall be powered by 220v AC supply/ batteries and shall operate automatically from IR sensor that shall activate it when hands are placed in sensor zone etc. all complete accepted by the Engineer- in- charge.					
26.65.1	Automatic Hand drier Local (Standard quality)	each	5965.00	5957.00	5946.00	5946.00
26.65.2	Automatic Hand drier Local (Super quality)	each	7226.00	7219.00	7207.00	7207.00
26.65.3	Automatic Hand drier Local (Superior quality)	each	9118.00	9110.00	9099.00	9099.00
26.65.4	Automatic Hand drier (Special quality)	each	14415.00	14407.00	14396.00	14396.00
	MISCELLANEOUS ITEMS					
26.66	Manufacturing, supplying, fitting & fixing of adjustable hanger made of 38 mm x 38 mm x 6 mm m.s. angle with 600 mm long 12 mm dia nut-bolt for having pvc pipe from ceiling as per direction of the Engineer-in-charge.	meter	893.00	889.00	858.00	858.00
26.67	Groove cutting in brick work and R.C.C work, including cost for concealing of water distribution pipe work (12 mm and 20 mm dia) in brick wall by cutting groove in wall, lintel, beam etc. by any means carefully without damaging the structure and filling the grooves with C.C (4:2:1) after laying of pipe including cost of scaffolding, finishing, curing etc. all complete approved and accepted by the Engineer-in-charge.					
26.67.1	Groove size 40 mm x 40 mm (For laying 12 mm to 20 mm dia pipes)	meter	334.00	328.00	307.00	307.00
26.67.2	Groove size 75 mm x 75 mm (For 25 mm to 40 mm dia pipes)	meter	550.00	541.00	509.00	509.00
26.68	Punching or cutting hole of any diameter in RCC floor for sanitary works.	each hole	208.00	203.00	190.00	190.00
26.69	Supply, fitting & fixing of 600 mm dia C.I. manhole cover etc. all complete approved by the Engineer- in- charge.	each	1870.00	1868.00	1860.00	1860.00
	INSPECTION PIT & SOAK WELL					
26.70	Construction of masonry inspection pit with 250 mm thick brick work in cement mortar (1:4) including necessary earth work, side filling and one layer brick flat soling, 75 mm thick (1:3:6) base concrete for making invert channel and 12 mm thick (1:2) cement plaster with neat finishing etc. all complete up to a depth of 700 mm approved and accepted by the Engineer-in-charge.					
26.70.1	Clear 450 mm x 450 mm and depth 450 mm to 600 mm, average 525 mm for single 150 mm dia R.C.C. pipes and 400 mm PVC pipe.	each	4900.00	4878.00	4676.00	4676.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
26.70.2	Clear 525 mm x 525 mm and depth 675 mm to 825 mm, average 750 mm for single 225 mm dia R.C.C. pipes and 400 mm PVC pipe.	each	7260.00	7229.00	6931.00	6931.00
26.70.3.	Clear 600 x 600 mm and depth 750 mm to 900 mm, average 825 mm for single 300 mm dia R.C.C. pipes and 400 mm PVC pipe.	each	10133.00	10091.00	9677.00	9677.00
26.70.4	Master-pit of Size: Clear 600 mm x 500 mm and average 750 mm depth for Septic tank.	each	4813.00	4794.00	4613.00	4613.00
26.71	Construction and placement M.H. cover with locking/unlocking arrangement including necessary earth work, side filling, shuttering, curing, cement plaster (1:4) with neat finishing on edges and top etc. all complete approved and accepted by the Engineer- in- charge.					
26.71.1	900 mm x 900 mm x 75 mm R.C.C. pit cover	each	1399.00	1396.00	1373.00	1373.00
26.71.2	1025 mm x 1025 mm x 75 mm R.C.C. pit cover	each	1616.00	1612.00	1587.00	1587.00
26.71.3	1100 mm x 1100 mm x 75 mm R.C.C. pit cover	each	1854.00	1850.00	1822.00	1821.00
26.72	Construction and placing of R.C.C inspection pit cover (slab) with supplying and provisions for placing, fitting, fixing 450 mm dia C.I. man-hole cover with locking/un-locking arrangement including concrete (1:2:4) with approx. 1% reinforcement, necessary earth cutting, or cleaning, side filling, curing etc. with minimum 12 mm cement plaster (1:4) and neat cement finishing on edges and top all complete and accepted by the Engineer- in- charge.					
26.72.1	950 mm x 950 mm x 75 mm R.C.C. pit cover with 450 mm dia C.I. manhole cover.	each	2314.00	2311.00	2292.00	2292.00
26.72.2	1025 mm x 1025 mm x 75 mm R.C.C. pit cover with 450 mm dia C.I. manhole cover.	each	2531.00	2527.00	2505.00	2505.00
26.72.3	1100 mm x 1100 mm x 75 mm R.C.C. pit cover with 450 mm dia C.I. manhole cover.	each	2769.00	2765.00	2740.00	2740.00
26.73	Construction of masonry inspection pits up to a depth of 700 mm with 250 mm thick brick work in cement mortar (1:4) including 100 mm thick R.C.C. top slab (1:2:4) with 1% reinforcement, man-hole cover with locking arrangement including necessary earth work, side filling and one brick flat soling. 75 mm thick (1:3:6) base concrete for making invert channel and 12 mm thick (1:2) cement plaster with neat finishing etc. all complete approved and accepted by the Engineer- in- charge.					
26.73.1	Clear 450 mm x 450 mm and depth 450 mm to 600 mm, average 525 mm for single 150 mm dia R.C.C. pipes and 400 mm PVC pipe with pit cover and 450 mm dia C.I. man-hole cover.	each	7214.00	7189.00	6968.00	6968.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
26.73.2	Clear 525 mm x 525 mm and depth 675 mm to 825 mm, average 750 mm for single 225 mm dia R.C.C. pipes and 400 mm PVC pipe with pit cover and 450 mm dia C.I. man-hole cover.	each	9791.00	9756.00	9436.00	9436.00
26.73.3	Clear 600 mm x 600 mm and depth 750 mm to 900 mm, average 825 mm for single 300 mm dia R.C.C. pipes and 375 mm and 400 mm PVC pipe with pit cover and 450 mm dia C.I. man-hole cover.	each	12902.00	12856.00	12417.00	12417.00
26.74	Construction of septic tank of different sizes with walls of brick work in cement mortar (1:6) having a lining of minimum 125 mm R.C.C cast against the walls as per approved type plan over a brick flat soling and 150 mm thick reinforced cement concrete flooring (1:2:4) with 125 mm thick walls in partition and 12 mm thick cement plaster (1:4) with N.C.F. to insides of walls on floor and all around outside walls by 450 mm height at top including supplying, fitting and fixing of two R.C.C. Tees and providing 450 mm dia water sealed heavy type C.I. manhole cover with locking/unlocking arrangement and 100 mm thick R.C.C (1:2:4) top slab, including centering, shuttering, fabricating, casting and curing etc. complete up to required depth including necessary earth work in excavation and shoring, bailing out water and side filling including the cost of all materials, operations and incidental charges etc. all complete as per type plan approved and accepted by the Engineer-in-charge. (Rate is including cost of reinforcement and its fabrication, binding and placing).					
26.74.1	For 200 users	each	339770.00	338622.00	330068.00	330007.00
26.74.2	For 100 users	each	268157.00	267274.00	260229.00	260185.00
26.74.3	For 50 users	each	168040.00	167500.00	163347.00	163317.00
26.74.4	For 30 users	each	123435.00	123043.00	119909.00	119889.00
26.74.5	For 20 users	each	115507.00	115140.00	112199.00	112180.00
26.74.6	For 10 users	each	67966.00	67763.00	66200.00	66188.00
26.75	Construction of non electric Eco STP of different sizes (as per detail drawing attached in annexure) with 250 mm walls of brick work in cement mortar (1:4) having a brick flat soling and 125 mm thick reinforced cement concrete flooring (1:2:4) with 125 mm thick walls (1:4) in partition and flush pointing (1:2) on inside wall surface and 12 mm thick cement plaster (1:4) with N.C.F. on floor and slab surface including supplying, fitting and fixing of upvc pipes & Tees and providing 450 mm dia water sealed heavy type C.I. manhole cover with locking/unlocking arrangement and 100 mm thick R.C.C (1:2:4) top slab, including centering, shuttering, fabricating, casting and curing etc. complete up to required depth including necessary earth work in excavation and shoring, bailing out water and side filling, dressing, inside cleaning, cow dung or old septic tank liquid for charging/start up including the cost of all materials, operations and incidental					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	charges etc. all complete as per type plan approved and accepted by the Engineer-in-charge. (Rate is including cost of reinforcement and its fabrication, binding and placing).					
26.75.1	500 users	each	702645.00	701576.00	671446.00	668017.00
26.75.2	300 users	each	553793.00	552807.00	529249.00	526794.00
26.76	Construction of soak well of different sizes (as per detail drawing attached in annexure) (medium and large sizes) with 250 mm thick solid brick work and 250 mm honey comb brick work with cement mortar (1:6) as per design over R.C.C. (1:2:4) well curb with 1% reinforcement up to the depth as per drawing with 450 mm dia water sealed heavy type. C.I. manhole cover with locking arrangement, filling the well up to the required depth with graded khoa including supplying and fabricating M.S. rod, casting, curing including necessary earth work in excavation, side filling and bailing out water including cost of all materials etc. all complete as per drawing, design approved and accepted by the (Rate is including cost of reinforcement and its fabrication, binding and placing) Engineer- in- charge.					
26.76.1	200 users	each	157197.00	156757.00	150387.00	150086.00
26.76.2	100 users	each	141335.00	140936.00	135228.00	134966.00
26.76.3	50 users	each	126582.00	126225.00	121132.00	120903.00
26.77	Purification of supplied raw water using Mobile Water Desalination Plant which includes mobilization, demobilization, necessary maintenance of all associated electromechanical machines, tank, membrane, micron filter, sand tube, gravel tube, manganese tube, activated carbon tube, resin tube, anti-scalant, salt tube and any other related instruments as and when required. This rate also includes cost of energy, laboratory testing to conform following specification and as per the direction of Engineer in charge. Water in outlet must conform the following indicators and levels: 1) pH- 6.5 to 8.5, 2) Iron as Fe ≤ 0.3 mg/l, 3) Arsenic ≤ 0.05mg/l, 4) Total Hardness as CaCO₃ - 5 - 25 mg/l, 5) Chloride as CL⁻ 500 mg/l, 6) Sulfate as SO₄²⁻ ≤ 2000mg/l, 7) Alkali equivalent sodium oxide ≤ 1500 mg/l, 8) Sugars ≤ 100mg/l, 9) Phosphates as P₂O₅ ≤ 100mg/l, 10) Nitrates as NO₃⁻ ≤ 500mg/l, 11) Lead as Pb⁺ ≤ 100mg/l, 12) Zinc as Zn²⁺ ≤ 100 mg/l, 13) Salinity ≤ 1000ppm/l. B. Setting time and strength test: The initial setting time obtained on paste samples made with the water shall not be less than 1 hr and not differ by more than 25% from the initial setting time obtained on specimens made with distilled or de-ionized water. The final setting time obtained on paste samples made with the water shall not be less than 10 hr and not differ by more than 25% from the final setting time obtained on specimens made with distilled or de-ionized water.					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	The mean compressive strength at 7 days and 28 days of the concrete or mortar specimens prepared with water shall be at least 90% of the mean compressive strength of corresponding specimens prepared with distilled or de-ionized water. C. To determine the value of aforementioned indicators, test shall be carried out following ISO 29581-1, ISO 7890-1, BDS ISO 12439:2011 (ISO 12439:2010). D. Supplier shall be responsible for all kind of maintenance and providing spare parts until the completion of service. E. The authority or engineer-in-charge reserves the right to select the materials/ goods/ machineries to be used in the plant.					
26.77.1	Consumption Quantity: 50,000 to 100,000 liter	per liter	2.52	2.52	2.52	2.52
26.77.2	Consumption Quantity: 100,000 to 500,000 liter	per liter	2.21	2.21	2.21	2.21
26.77.3	Consumption Quantity: 500,000 to 10,000,000 liter	per liter	1.89	1.89	1.89	1.89
26.77.4	Consumption Quantity: 10,00,000 to 50,000,000 liter	per liter	1.58	1.58	1.58	1.58
26.77.5	Consumption Quantity: 50,000,000 liter and above	per liter	1.27	1.27	1.27	1.27

..... **END OF CHAPTER TWENTY SIX**.....

CHAPTER 27: DEEP TUBE-WELL

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	Rajshahi, Rangpur
	Note: Tender for test & observation well must be called before hand. Tender for main production well will then be called on the basis of required data obtained from the test well. Requirements of water must be the guiding factor for dimensioning the main well.					
	SINKING OF 38 mm DIA TEST AND OBSERVATION WELL					
27.1	Mobilization of test boring or observation well: Transportation of materials, equipments, tools and plants and boring rig to work site. Construction of derrick and dismantling the same. Cleaning the site after completion of the work accepted by the Engineer-in-charge.	per set	8071.00	8071.00	8071.00	8071.00
27.2	Boring by using 100 mm dia cutter and 40 mm dia heavy type G.I pipe (wall thickness 2.9 mm, outside diameter min 47.8 mm, weight 3.517 kg/m, capable to withstand 50 kg/cm ² pressure) and other equipments capable of drilling up to a depth of 500 meter by water jet system through all sorts of soil strata providing protection of caving by supplying necessary casing pipe. Collection of soil samples at every 3 meter interval and at every change of soil strata and preserving them in a controlled environment for analysis and laboratory test. Finally, withdrawal of boring and casing pipes etc. complete and accepted by the Engineer-in-charge.					
27.2.1	From 0.0 m to 50 m = 50 m	meter	202.00	202.00	202.00	202.00
27.2.2	Above 50 m to 100 m = 50 m	meter	232.00	232.00	232.00	232.00
27.2.3	Above 100 m to 152 m = 52 m	meter	267.00	267.00	267.00	267.00
27.2.4	Above 152 m to 200 m = 48 m	meter	307.00	307.00	307.00	307.00
27.2.5	Above 200 m to 250 m = 50 m	meter	353.00	353.00	353.00	353.00
27.2.6	Beyond 250 m	meter	406.00	406.00	406.00	406.00
27.3	Installation of tube-well fixture for observation well: Supplying and lowering of 40/38 mm inside dia best quality uPVC pressure tube well pipe (specific gravity 1.35 - 1.45, wall thickness 2.5 mm - 3.0 mm capable to withstand a minimum hydrostatic pressure of 170 psi for 1 hr). Fitting and fixing in position with all accessories, uPVC sand trap of length 3.00m with uPVC strainer of desired slot installing in or at mid depth of the most suitable water bearing strata, 38 mm dia, best quality G.I. pipe of length 1.52 m with M.S. welded flat bar welded on each side to prevent from rotation up to desired depth, fitting, fixing the best quality no. 6 C.I. head hand-pump etc including the cost of solvent cement, socket adapter, filling medium sand up to 18.00m above strainer and the remaining portion with available soil from boring etc. complete as per standard specification and accepted by the Engineer-in-charge.					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
27.3.1	Fitting & fixing of no. 6 Hand-pump set including all necessary accessories etc.	per set	3556.00	3551.00	3531.00	3531.00
27.3.2	Supplying and fitting 38/ 40 mm dia heavy type G.I pipe conforming to standard BS-1387 & BDS-1031, having chemical composition (in%) carbon 0.17-0.25, manganese 0.95-1.20, sulphur 0.060 max, phosphorous 0.060 max, tensile properties: minimum yield strength 188 MPa, minimum tensile strength 313 MPa and marking for a) manufacturer b) material c) wall thickness d) nominal outside dia e) intended use etc. on the body of the pipe having wall thickness 2.9 mm, weight 3.517 kg/m capable to withstand 50 kg/cm ² hydraulic pressure.	meter	1045.00	1041.00	1025.00	1025.00
27.3.3	38/ 40 mm dia water grade uPVC pipe having wall thickness 2.5 mm -3.00 mm	meter	226.00	225.00	221.00	221.00
27.3.4	38/ 40 mm dia water grade uPVC strainer having wall thickness 2.5 mm -3.00 mm	meter	299.00	297.00	290.00	290.00
27.3.5	38/ 40 mm dia uPVC socket adapter	each	136.00	135.00	132.00	132.00
27.3.6	Best quality 38 mm dia uPVC cap	each	110.00	110.00	107.00	107.00
27.3.7	Supplying, fitting & fixing tube-well log describing technical information of the tube-well	each	5145.00	5145.00	5145.00	5145.00
27.3.8	Filling the top 0.6 meter of the bore hole around the top pipe with sanitary seal of 1:2:4 (Cement: 1.2 FM sand: 20 mm downgraded brick chips) concrete	each	73.00	73.00	71.00	71.00
27.4	Complete development of the tube well to obtain sand and turbidity free water at a satisfactory yield confirmed by tests as per specification and accepted by the Engineer-in-charge. Water sample must be taken from 3 separate aquifers from three tube-wells.					
27.4.1	Wells up to 200 meter depth					
27.4.1.1	For 1 No. test tube-well	per set	9080.00	9080.00	9080.00	9080.00
27.4.1.2	For 2 Nos. test tube-wells	per set	13620.00	13620.00	13620.00	13620.00
27.4.1.3	For 3 Nos. test tube-wells	per set	18160.00	18160.00	18160.00	18160.00
27.4.2	Wells beyond 200 meter depth					
27.4.2.1	For 1 No. test tube-well	meter	52.00	52.00	52.00	52.00
27.4.2.2	For 2 Nos. test tube-wells	meter	78.00	78.00	78.00	78.00
27.4.2.3	For 3 Nos. test tube-wells	meter	104.00	104.00	104.00	104.00
27.5	"Furnishing design of a production well by testing of water and soil samples from test bores up to 350 m depth collecting samples of water from the best suitable aquifer, filling in sterilized air-tight glass bottles having no air space inside;					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	collecting soil (sand, solids etc) at every 3 m interval and at each change of soil strata from the bores, arranging them in the cell of a box in an orderly manner. Carrying out test of water for (1) pH, (2) CO₂ (3) Chloride, (4) Fluoride, (5) Iron, (6) Manganese, (7) Nitrate-Nitrogen, (8) Total alkalinity, (9) Total hardness, (10) Arsenic, (11) Turbidity, followed by test reports along with Bangladesh Standards of potable water and (12) sieve analysis on soils throughout a bore, leading to ascertain the best suitable sustained aquifers, depths and slot sizes of strainer, types and dia of tube well for specific yield, thickness of shrouding around strainer, fineness modulus of shrouding materials, mechanical units (pumps, compressor) for testing and operation of the tube well, maintaining test bore functional till tube well installation, testing etc. is finished, finally filling and sealing the left over test bore permanently, including carrying water and soil samples under direct responsibility of Engineer-in-charge to BRTC, BUET or other reputed laboratory, approved by the authority, submitting the report and design details all complete and accepted by the Engineer-in-charge and maintaining the mobilized tools and plants at site till satisfactory test results are found (if not, next test bore may be executed with the approval of concern S.E./ Design Office) Total No. of test on water: 11 types of test x 1 test bore x one set sample (3 specimen) = 11 Nos. test (each specimen 1.5 liter of water) Sieve analysis: min 9 Nos. Sample x one test x One bore = 9 Nos. test (Samples are of 1 kg dry wt. each)" There are about 55 (fifty-five) tests for potable water quality standard according to Bangladesh Environment Conservation Rules-12 (Schedule-3), 1997, under ECA 1995 of Ministry of Environment and Forest. Therefore, additional test/ tests on water or sieve analysis of soil if required, other than the above specified 12 (twelve) tests, may be carried out for public interest as per direction of the design engineer on actual payment including profit, VAT and all other charges.					
27.5.1	Furnishing design considering 1 No. test bore	LS	38716.00	38716.00	38716.00	38716.00
27.5.2	Furnishing design considering 2 Nos. test bores	LS	75302.00	75302.00	75302.00	75302.00
27.5.3	Furnishing design considering 3 Nos. test bores	LS	112954.00	112954.00	112954.00	112954.00
27.6	Disinfections of the well by using minimum 3 kg of bleaching powder of 33% strength or any other disinfectant as per standard specification and accepted by the Engineer-in-charge.	each	467.00	467.00	467.00	467.00
	PRODUCTION WELL					
27.7	Mobilization: Preparation for installation of tube-well and transportation of complete boring equipments, labour and materials to the work site and remove the materials after					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	completion of the works. Installation of drilling rig and accessories, making arrangements for electricity, water, labour shed, site office and stores, digging mud pit etc, leveling, dressing and clearing of the site as per original condition and a testing for discharge using minimum 1000 liter water tub etc. all complete as per specifications and accepted by the Engineer-in-charge.					
27.7.1	For Tube-wells up to 100 meter depth	per set	49309.00	49309.00	49309.00	49309.00
27.7.2	For Tube-wells up to 200 meter depth	per set	52832.00	52832.00	52832.00	52832.00
27.7.3	For Tube-wells beyond 200 meter depth	per set	56354.00	56354.00	56354.00	56354.00
27.8	Preparation and making gravel pack around the tube well fixtures with supply of designed graded pea gravels free from any substance harmful to pipe and health confirmed by test (Passing through #10 mesh and retained on #40 mesh) including sieving, washing etc. complete as per standard specification and accepted by the Engineer-in-charge. (The rate is inclusive of the cost of extra amount required for caving and extra depth below the tube well fixtures, shrouding should not be more than 15 m above the strainer and measurement should be allowed from bottom of the tube-well fixture to top of the gravel pack)	cum	5636.00	5620.00	5126.00	5126.00
27.9	Making a sanitary seal up to a minimum depth of 6 meter from G.L. or as specified including the supply of approved quality of cement, sand and khoa (12 mm downgraded) in a ratio of (1:1.5:3) as per standard specification and accepted by the Engineer-in-charge.	cum	11519.00	11469.00	11259.00	11248.00
	INSTALLATION OF 50 mm x 125 mm DIA SHROUDED					
	PRODUCTION WELL WITH PVC PIPE					
27.10	Boring: Execution of 325 mm dia boring through all sorts of strata by reverse circulation or any other approved method (Method other than reverse circulation is to be applied only for wells deeper than 152 meter). Boring for 325 mm dia vertical hole up to designed depth and collection of soil samples at every 3 meter interval or as required and at every change in soil stratum including sinking and with drawing necessary casing pipe and all necessary arrangements complete as per specification and accepted by the Engineer-in-charge. (Measurement will be allowed from E.G.L. to bottom of the blind pipe and the rate is inclusive of the cost of extra depth or of further boring required due to caving and siltation)					
27.10.1	From 0.0 m to 50 m = 50 m	meter	984.00	984.00	984.00	984.00
27.10.2	From 50 m to 100 m = 50 m	meter	1131.00	1131.00	1131.00	1131.00
27.10.3	From 100 m to 152 m = 52 m	meter	1301.00	1301.00	1301.00	1301.00
27.10.4	From 152 m to 200 m = 48 m	meter	1496.00	1496.00	1496.00	1496.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
27.10.5	From 200 m to 250 m = 50 m	meter	1720.00	1720.00	1720.00	1720.00
27.10.6	Beyond 250 m	meter	1979.00	1979.00	1979.00	1979.00
27.11	Supplying the following tube well fixtures and pipes having density 1350 kg/m ³ , opacity 0.2% of visible light as per ISO 7686, minimum required strength 25 MPa conforming to BDS-1:2013, 4.4.1, 4.4.2 at working site as per standard practice and accepted by the Engineer-in-charge. (Note : Pipe size (Wall Thickness) will be chosen as per table page no: 285)					
27.11.1	Best quality 50 mm dia uPVC cap	each	182.00	181.00	177.00	177.00
27.11.2.1	50 mm dia water grade (Class D) uPVC blind pipe/sand trap of wall thickness 3.1 mm to 3.7 mm	meter	271.00	270.00	267.00	267.00
27.11.2.2	50 mm dia water grade (Class E) uPVC blind pipe/sand trap of wall thickness 3.9 mm to 4.5 mm	meter	340.00	339.00	336.00	336.00
27.11.3.1	50 mm dia strainer of any slot as per design made with grade (Class D) uPVC pipe of wall thickness 3.1 mm to 3.7 mm	meter	363.00	361.00	351.00	351.00
27.11.3.2	50 mm dia strainer of any slot as per design made with grade (Class E) uPVC pipe of wall thickness 3.9 mm to 4.5 mm	meter	433.00	430.00	420.00	420.00
27.11.4	Best quality 50 mm x 125 mm dia uPVC Reducer	meter	1126.00	1125.00	1121.00	1121.00
27.11.5.1	125mm dia water grade (Class D) uPVC housing pipe of wall thickness 7.3 to 8.4mm	meter	1319.00	1318.00	1314.00	1314.00
27.11.5.2	125mm dia water grade (Class E) uPVC housing pipe of wall thickness 9.0 to 10.4mm	meter	1559.00	1558.00	1554.00	1554.00
27.11.6	Supplying centralizer made with 12 mm dia M.S. rod of approved design	each	602.00	599.00	589.00	589.00
27.12	Complete installation of 50 mm dia uPVC tube well fixtures such as expanded top or furnishing pipe, reducer, tube well pipes, strainer, blind pipe, pipe cap etc. fitting and fixing with best quality PVC solution, iron screws and PVC tape, sockets and placing in position with proper size M.S. centralizer @ 3.0 meter c/c in strainer portion including blind pipe etc. complete as per standard practice and accepted by the Engineer-in-charge.	meter	113.00	106.00	102.00	102.00
27.13	Complete development of the tube well by air compressor and pump of suitable capacity by alternate surging and pumping or any specified method until satisfactory yield is achieved in sand and turbid free water confirmed by laboratory test using necessary quantity of cologne and conducting step drawn-down test before and after the development as per specification and accepted by the Engineer-in-charge. (Development should be started within 24 hours of completion of shrouding)					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
27.13.1	Wells up to 200 m depth	each	32158.00	32158.00	32158.00	32158.00
27.13.2	Wells beyond 200 m depth	each	40733.00	40733.00	40733.00	40733.00
27.14	Pumping test of the well by designed turbine/submersible pump with supply of testing equipments for pressure/ velocity/ discharge etc. and all materials for 72 hours including yield drawn and recovery test etc. complete as per specification and accepted by the Engineer-in-charge.	per hour	1011.00	895.00	883.00	883.00
27.15	Disinfections of the well including supply of sufficient quantity of bleaching powder (33% strength) to obtain chlorinated water having 150 ppm free chlorine in the well complete as per standard specification and accepted by the Engineer-in-charge.	each	1690.00	1690.00	1690.00	1690.00
27.16	Filling of the borehole around the tube well from top of the shrouding up to the bottom of sanitary seal by withdrawn selected soil or by local clay free from any substances harmful to pipes and health as per standard specification and accepted by the Engineer-in-charge.	meter	46.00	45.00	43.00	43.00
27.17	Protective top cover: Supplying and fitting fixing of best quality 150 mm dia 4 mm thick MS. Pipe 1.0 m (3'-4") long one end blocked with 200 mm dia 4 mm thick M.S. plate and other end minimum 300 mm (1'-0") embedded in sanitary seal for protection of uPVC Housing Pipe as per standard specification and accepted by the Engineer-in-charge.	each	5473.00	5461.00	5410.00	5410.00
	INSTALLATION OF 75 mm x 150 mm DIA SHROUDED					
	PRODUCTION WELL WITH PVC PIPE					
27.18	Boring: Execution of 350 mm dia boring through all sorts of strata by reverse circulation or any other approved method (Method other than reverse circulation is to be applied only for wells deeper than 152 meter). Boring for 350 mm dia vertical hole up to designed depth and collection of soil samples at every 3 meter interval or as required and at every change in soil stratum including sinking and withdrawing necessary casing pipe and all necessary arrangements complete as per specification and accepted by the Engineer-in-charge. (Measurement will be allowed from E.G.L. to bottom of the blind pipe and the rate is inclusive of the cost of extra depth or of further boring required due to caving and siltation)					
27.18.1	From 0.0 m to 50 m = 50 m	meter	1072.00	1072.00	1072.00	1072.00
27.18.2	From 50 m to 100 m = 50 m	meter	1233.00	1233.00	1233.00	1233.00
27.18.3	From 100 m to 152 m = 52 m	meter	1418.00	1418.00	1418.00	1418.00
27.18.4	From 152 m to 200 m = 48 m	meter	1630.00	1630.00	1630.00	1630.00
27.18.5	From 200 m to 250 m = 50 m	meter	1875.00	1875.00	1875.00	1875.00
27.18.6	Beyond 250 m	meter	2156.00	2156.00	2156.00	2156.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
27.19	Supplying the following tube well fixtures and pipes having density 1350 kg/m ³ , opacity 0.2% of visible light as per ISO7686, minimum required strength 25 MPa conforming to BDS- 1:2013, 4.4.1, 4.4.2 at working site as per standard practice and accepted by the Engineer-in-charge.					
27.19.1	Best quality 75 mm dia uPVC cap	each	245.00	244.00	240.00	240.00
27.19.2.1	75 mm dia water grade (Class D) uPVC blind pipe/sand trap of wall thickness 4.6 mm to 5.3 mm	meter	537.00	536.00	532.00	532.00
27.19.2.2	75 mm dia water grade (Class E) uPVC blind pipe/sand trap of wall thickness 5.7 mm to 6.6 mm	meter	677.00	676.00	672.00	672.00
27.19.3.1	75 mm dia strainer of any slot as per design made with water grade (Class D) uPVC pipe of wall thickness 4.6 mm to 5.3 mm	meter	620.00	618.00	608.00	608.00
27.19.3.2	75 mm dia strainer of any slot as per design made with water grade (Class E) uPVC pipe of wall thickness 5.7 mm to 6.6 mm	meter	760.00	758.00	748.00	748.00
27.19.4	Best quality 75 mm x 150 mm dia uPVC Reducer	each	1614.00	1613.00	1609.00	1609.00
27.19.5.1	150 mm dia water grade (Class D) uPVC housing pipe having wall thickness 8.8 mm to 10.2 mm	meter	2173.00	2172.00	2168.00	2168.00
27.19.5.2	150 mm dia water grade (Class E) uPVC housing pipe having wall thickness 10.8 mm to 12.5 mm	meter	2647.00	2646.00	2642.00	2642.00
27.19.6	Supplying of centralizer made with 12 mm dia M.S. rod of approved design	each	602.00	599.00	589.00	589.00
27.20	Complete installation of 75 mm dia uPVC tube-well fixtures such as expanded top pipes, reducer, tube-well pipes, strainer, blind pipe, pipe cap etc. fitting and fixing with best quality uPVC solution, iron screws and uPVC tape and placing in position with proper size M.S. centralizer @ 3 meter c/c .in strainer portion including blind pipe etc. complete as per standard practice and accepted by the Engineer-in-charge.	meter	121.00	113.00	109.00	109.00
27.21	Complete development of the well by suitable air compressor and pump of suitable capacity by alternate surging and pumping until satisfactory yield, sand free water and the turbidity condition is reached using necessary quantity of calgon and conducting step draw down test before and after the development as per specification and accepted by the Engineer-in-charge. (Development should be started within 24 hours of completion of shrouding)					
27.21.1	Wells up to 200 m depth	each	42626.00	42626.00	42626.00	42626.00
27.21.2	Wells beyond 200 m depth	each	51151.00	51151.00	51151.00	51151.00
27.22	Pumping test of the well by designed turbine/ submersible pump with supply of testing equipments for pressure/	hour	1251.00	1097.00	1084.00	1084.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	Rajshahi, Rangpur
	velocity/ discharge etc. and all materials for 72 hours including yield drawn and recovery test etc. complete as per specification and accepted by the Engineer.					
27.23	Disinfections of the well including supply of sufficient quantity of bleaching powder (33% strength) chlorinated water having 150 ppm available free chlorine complete as per standard specification and accepted by the Engineer-in-charge.	each	2052.00	2052.00	2052.00	2052.00
27.24	Filling of the bore-hole around the tube well from top of the shrouding up to the bottom of sanitary seal by withdrawn selected soil or local clay free from any substances harmful to pipes and health as per standard specification and accepted by the Engineer-in-charge.	meter	55.00	54.00	51.00	51.00
27.25	Protective top cover: Supplying and fitting fixing best quality 200 mm dia 4 mm thick M.S. pipe 1.0 m (3'-4") long, one end blocked with 250 mm dia 4 mm thick M.S. plate and other end minimum 300 mm (1'-0") embedded in sanitary seal for protection of uPVC housing pipe as per standard specification and accepted by the Engineer-in-charge.	each	7346.00	7327.00	7251.00	7251.00
	INSTALLATION OF 100 mm x 200 mm DIA SHROUDED					
	PRODUCTION WELL WITH PVC PIPE					
27.26	Boring: Execution of 400 mm dia of boring through all sorts of strata by reverse circulation or any other approved method (Method other than reverse circulation is to be applied only for wells deeper than 152 meter) Boring for 400 mm dia vertical hole up to designed depth and collection of soil samples at every 3 meter interval or as required and at every change in soil stratum including sinking and withdrawing necessary casing pipe and all necessary arrangements complete as per specification and accepted by the Engineer-in-charge. (Measurement will be allowed from E.G.L. to bottom of the blind pipe and the rate is inclusive of the cost of extra depth or of further boring required due to caving and siltation)					
27.26.1	From 00 m to 50 m = 50 m	meter	1122.00	1122.00	1122.00	1122.00
27.26.2	From 50 m to 100 m = 50 m	meter	1291.00	1291.00	1291.00	1291.00
27.26.3	From 100 m to 152 m = 52 m	meter	1484.00	1484.00	1484.00	1484.00
27.26.4	From 152 m to 200 m = 48 m	meter	1707.00	1707.00	1707.00	1707.00
27.26.5	From 200 m to 250 m = 50 m	meter	1963.00	1963.00	1963.00	1963.00
27.26.6	Beyond 250 m	meter	2258.00	2258.00	2258.00	2258.00
27.27	Supplying the following tube well fixtures and pipes having density 1350 kg/m ³ , opacity 0.2% of visible light as per ISO 7686, minimum required strength 25 MPa conforming to BDS-1878:2014, 4.4.1, 4.4.2 at working site as					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	per standard practice and accepted by the Engineer-in-charge.					
27.27.1	Best quality 100 mm dia uPVC cap	each	560.00	559.00	555.00	555.00
27.27.2.1	100 mm dia water grade (Class D) uPVC blind pipe/ sand trap having wall thickness 6.0 mm to 6.9 mm	meter	725.00	724.00	720.00	720.00
27.27.2.2	100 mm dia water grade (Class E) uPVC blind pipe/ sand trap having wall thickness 7.3 mm to 8.4 mm	meter	1053.00	1052.00	1048.00	1048.00
27.27.3.1	100 mm dia strainer of any slot as per design made with water grade (Class D) uPVC pipe having wall thickness 6.0 mm to 6.9 mm	meter	808.00	806.00	796.00	796.00
27.27.3.2	100 mm dia strainer of any slot as per design made with water grade (Class E) uPVC pipe having wall thickness 7.3 mm to 8.4 mm	meter	1136.00	1134.00	1124.00	1124.00
27.27.4	Best quality 100 mm x 200 mm dia uPVC reducer	each	2389.00	2388.00	2384.00	2384.00
27.27.5.1	200 mm dia water grade (Class D) uPVC housing pipe having wall thickness 10.3 mm to 11.9 mm	meter	3269.00	3268.00	3264.00	3264.00
27.27.5.2	200 mm dia water grade (Class E) uPVC housing pipe having wall thickness 12.6 mm to 14.8 mm	meter	3932.00	3931.00	3927.00	3927.00
27.27.6	Supplying centralizer made with 12 mm dia M.S. rod of approved design	each	602.00	599.00	589.00	589.00
27.28	Complete installation of 100 mm dia uPVC tube-well fixtures such as expanded top pipes, reducer, tube-well pipes, strainer, blind pipe, pipe cap etc. fitting and fixing with best quality PVC solution, iron screws and uPVC tape and placing in position with proper size M.S. centralizer @ 3 meter c/c. in strainer portion including blind pipe etc. complete as per standard practice and accepted by the Engineer-in-charge.	meter	144.00	134.00	130.00	130.00
27.29	Complete development of the tube-well by air compressor and pump of suitable capacity by alternate surging and pumping until satisfactory yield of sand free water and the turbidity condition is reached using necessary quantity of calgon and conducting step draw down test before and after the development as per specification and accepted by the Engineer-in-charge. (Development should be started within 24 hours of completion of shrouding)					
27.29.1	Wells up to 200 m depth	each	52336.00	52336.00	52336.00	52336.00
27.29.2	Wells beyond 200 m depth	each	62803.00	62803.00	62803.00	62803.00
27.30	Pumping test of the well by designed turbine/ submersible pump with supply of testing equipments for pressure/ velocity/ discharge etc. and all materials for 72 hours including yield drawn and recovery test etc. complete as per specification and accepted by the Engineer-in-charge.	hour	1324.00	1151.00	1138.00	1138.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
27.31	Disinfections of the well including supply of sufficient quantity of bleaching powder (33% strength) chlorinated water having 150 ppm available free chlorine etc. complete as per standard specification and accepted by the Engineer-in-charge.	each	2414.00	2414.00	2414.00	2414.00
27.32	Filling of the borehole around the tube-well from top of the shrouding up to the bottom of sanitary seal by withdrawn selected soil or local clay free from any substances harmful to pipes and health as per standard specification and accepted by the Engineer-in-charge.	meter	63.00	61.00	58.00	58.00
27.33	Protective top cover: Supplying and fitting fixing best quality 250 mm dia 4 mm thick M.S. pipe, 1.0 m (3'-4") long one, end blocked with 300 mm dia 4 mm thick M.S. plate and other end minimum 300 (1'-0") embedded in sanitary seal for protection of uPVC Housing pipe as per standard specification and accepted by the Engineer-in-charge.	each	12068.00	12036.00	11910.00	11910.00
	INSTALLATION OF 150 mm x 200 mm & 150 mm x 250 mm DIA SHROUDED					
	PRODUCTION WELL WITH uPVC PIPE					
27.34	Boring: Execution of 600 mm dia boring through all sorts of strata by reverse circulation or any other approved method (Method other than reverse circulation is to be applied only for wells deeper than 152 meter). Boring for 600 mm dia vertical hole up to designed depth and collection of soil samples at every 3 meter interval or as required and at every change in soil stratum including sinking and withdrawing necessary casing pipe and all necessary arrangements complete as per specification and accepted by the Engineer-in-charge. (Measurement will be allowed from E.G.L. to bottom of the blind pipe and the rate is inclusive of the cost of extra depth or of further boring required due to caving and siltation)					
27.34.1	From 0.0 m to 50 m = 50 m	meter	1412.00	1412.00	1412.00	1412.00
27.34.2	From 50 m to 100 m = 50 m	meter	1624.00	1624.00	1624.00	1624.00
27.34.3	From 100 m to 152 m = 52 m	meter	1868.00	1868.00	1868.00	1868.00
27.34.4	From 152 m to 200 m = 48 m	meter	2148.00	2148.00	2148.00	2148.00
27.34.5	From 200 m to 250 m = 50 m	meter	2470.00	2470.00	2470.00	2470.00
27.34.6	Beyond 250 m	meter	2841.00	2841.00	2841.00	2841.00
27.35	Supplying the following tube well fixtures and pipes having density 1350 kg/m ³ , opacity 0.2% of visible light as per ISO 7686, minimum required strength 25 MPa conforming to BDS-1878:2014, 4.4.1, 4.4.2 at working site as per standard practice and accepted by the Engineer-in-charge.					
27.35.1	Best quality 150 mm dia uPVC cap for blind pipe/ sand trap.	each	1175.00	1174.00	1170.00	1170.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	Rajshahi, Rangpur
27.35.2.1	150 mm dia water grade(Class D) uPVC blind pipe/ sand trap having wall thickness 8.8 mm to 10.2 mm	meter	1866.00	1865.00	1861.00	1861.00
27.35.2.2	150 mm dia water grade(Class E) uPVC blind pipe/ sand trap having wall thickness 10.8 mm to 12.5 mm	meter	2274.00	2273.00	2269.00	2269.00
27.35.3.1	150 mm dia strainer of any slot as per design made with water grade(Class D) uPVC pipe of wall thickness 8.8 to 10.2 mm	meter	1970.00	1968.00	1956.00	1956.00
27.35.3.2	150 mm dia strainer of any slot as per design made with water grade(Class E) uPVC pipe of wall thickness 10.8 to 12.5 mm	meter	2378.00	2375.00	2363.00	2363.00
27.35.4.1	Best quality 150 mm x 200 mm dia uPVC Reducer	each	2602.00	2600.00	2595.00	2595.00
27.35.4.2	Best quality 150 mm x 250 mm dia uPVC Reducer	each	3853.00	3851.00	3846.00	3846.00
27.35.5.1	200 mm dia water grade(Class D) uPVC housing pipe of wall thickness 10.3 mm to 11.9 mm	meter	3269.00	3268.00	3264.00	3264.00
27.35.5.2	200 mm dia water grade(Class E) uPVC housing pipe of wall thickness 12.6 mm to 14.8 mm	meter	3932.00	3931.00	3927.00	3927.00
27.35.5.3	250 mm dia water grade(Class D) uPVC housing pipe of wall thickness 12.8 mm to 14.8 mm	meter	4532.00	4531.00	4527.00	4527.00
27.35.5.4	250 mm dia water grade(Class E) uPVC housing pipe of wall thickness 15.7 mm to 18.1 mm	meter	6033.00	6032.00	6028.00	6028.00
27.35.6	Supplying of centralizer made with 12 mm dia M.S. rod of approved design	each	602.00	599.00	589.00	589.00
27.36	Complete installation of 150 mm dia uPVC tube-well fixtures such as expanded top pipes, reducer, tube-well pipes, strainer, blind pipe, pipe cap etc. fitting and fixing with best quality uPVC solution, iron screws and uPVC tape and placing in position with proper size M.S. centralizer @ 3 meter c/c in strainer portion including blind pipe etc. complete as per standard practice and accepted by the Engineer-in-charge.	meter	142.00	131.00	127.00	127.00
27.37	Complete development of the tube well by suitable air compressor and pump of suitable capacity by alternate surging and pumping until satisfactory yield, sand free water and the turbidity condition is reached using necessary quantity of calgon and conducting step draw down test before and after the development as per specification and accepted by the Engineer-in-charge. (Development should be started within 24 hours of completion of shrouding)					
27.37.1	Wells up to 200 m depth	each	62551.00	62551.00	62551.00	62551.00
27.37.2	Wells beyond 200 m depth	each	70891.00	70891.00	70891.00	70891.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
27.38	Pumping test of the well by designed turbine/ submersible pump with supply of testing equipments for pressure/ velocity/ discharge etc. and all materials for 72 hours including yield drawn and recovery test etc. complete as per specification and accepted by the Engineer-in-charge.	hour	1509.00	1308.00	1294.00	1294.00
27.39	Disinfections of the well including supply of sufficient quantity of bleaching powder (33% strength) chlorinated water having 150 ppm available free chlorine etc. complete as per standard specification and accepted by the Engineer-in-charge.	each	2897.00	2897.00	2897.00	2897.00
27.40	Filling of the borehole around the tube well from top of the shrouding up to the bottom of sanitary seal by withdrawn selected soil or local clay as free from any substances harmful to pipes and health per standard specification and accepted by the Engineer-in-charge.	meter	87.00	85.00	80.00	80.00
27.41	Protective top cover: Supplying fitting and fixing of best quality 250 mm dia 4 mm thick M.S. pipe 1.0 m (3'-4") long one end blocked with 300 dia 4 mm thick M.S. plate and other end minimum 300 (1'-0") embedded in sanitary seal for protection of uPVC Housing pipe as per standard specification and accepted by the Engineer-in-charge.	each	11260.00	11229.00	11103.00	11103.00
	INSTALLATION OF 150 mm x 300 mm DIA SHROUDED					
	PRODUCTION WELL WITH G.I. PIPE					
27.42	Boring: Execution of 600 mm dia boring through all sorts of strata by reverse circulation or any other approved method (Method other than reverse circulation is to be applied only for wells deeper than 152 meter) for boring 600 mm dia vertical hole up to designed depth and collection of soil samples at every 3 meter interval and at every change of formation including sinking and withdrawing necessary casing pipe and all necessary arrangements complete as per specification and accepted by the Engineer-in-charge. (Measurement will be allowed from G.L. to bottom of the blind pipe and the rate is inclusive of the cost of extra depth of boring required for caving and siltation)					
27.42.1	From 0.0 m to 50 m = 50 m	meter	1412.00	1412.00	1412.00	1412.00
27.42.2	From 50 m to 100 m = 50 m	meter	1624.00	1624.00	1624.00	1624.00
27.42.3	From 100 m to 152 m = 52 m	meter	1868.00	1868.00	1868.00	1868.00
27.42.4	From 152 m to 200 m = 48 m	meter	2148.00	2148.00	2148.00	2148.00
27.42.5	From 200 m to 250 m = 50 m	meter	2470.00	2470.00	2470.00	2470.00
27.42.6	Beyond 250 m	meter	2841.00	2841.00	2841.00	2841.00
27.43	Supplying the following tube well fixtures and pipes conforming to standard BS-1387 & BDS-1031, having chemical composition (in%) carbon 0.17-0.25, manganese					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	Rajshahi, Rangpur
	0.95-1.20, sulphur 0.060 max, phosphorous 0.060 max, tensile properties: minimum yield strength 188 MPa, minimum tensile strength 313 MPa and marking for a) manufacturer b) material c) wall thickness d) nominal outside dia e) intended use etc. on the body of the pipe at working site as per standard practice and accepted by the Engineer-in-charge.					
27.43.1	150 mm dia M.S. cap 6 mm thick for blind pipe/ sand trap	each	1594.00	1593.00	1589.00	1589.00
27.43.2	150 mm dia G.I. Pipe having wall thickness 5.4 mm, weight 21.2 kg/m can withstand 50 kg/cm ² hydraulic pressure for blind pipe/ sand trap	meter	3894.00	3891.00	3878.00	3878.00
27.43.3	150 mm dia strainer of slot opening as per design including tagging 4 Nos. 12 mm dia M.S. rod continuously.					
27.43.3.1	Stainless steel strainer of continuous slot having weight 28.84 kg per meter.	meter	18943.00	18941.00	18931.00	18931.00
27.43.3.2	2.50 mm thick stainless steel Bridge type strainer.	meter	14410.00	14407.00	14397.00	14397.00
27.43.4	150 mm x 300 mm dia M.S. reducer of minimum thickness of 6 mm.	each	3399.00	3392.00	3367.00	3367.00
27.43.5	300 mm dia 6 mm minimum thick M.S. housing pipe (Seamless)	meter	10751.00	10745.00	10719.00	10719.00
27.43.6	Centralizer made with 12 mm dia M.S. rod of approved design.	each	602.00	599.00	589.00	589.00
27.43.7	350 mm dia M.S. cap having 6 mm thick for housing pipe covering.	each	3607.00	3592.00	3531.00	3531.00
27.44	Complete installation of 150 mm dia deep tube-well fixtures such as expanded top pipes, reducer, tube-well pipes, strainer, blind pipe, pipe cap etc. fitting and fixing socket, welding and additional welding with fibre and placing in position with proper size M.S. centralizer @ 3 meter c/c in strainer portion including blind pipe etc. complete as per standard practice and accepted by the Engineer-in-charge.	meter	827.00	812.00	752.00	752.00
27.45	Complete development of the tube well by suitable air compressor and pump of suitable capacity by alternate surging and pumping until satisfactory yield, sand free water and the turbidity condition is reached using necessary quantity of calgon and conducting step draw down test before and after the development as per specification and accepted by the Engineer-in-charge. (Development should be started within 24 hours of completion of shrouding)					
27.45.1	Wells up to 200 m depth	each	62551.00	62551.00	62551.00	62551.00
27.45.2	Wells beyond 200 m depth	each	70891.00	70891.00	70891.00	70891.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
27.46	Pumping test of the well by designed turbine/ submersible pump with supply of testing equipments for pressure/ velocity/ discharge etc. and all materials for 72 hours including yield drawn and recovery test etc. complete as per specification and accepted by the Engineer-in-charge.	hour	1551.00	1350.00	1336.00	1336.00
27.47	Disinfections of the well including supply of sufficient quantity of bleaching powder (33% strength) chlorinated water having 150 ppm available free chlorine etc. complete as per standard specification and accepted by the Engineer-in-charge.	each	2957.00	2957.00	2957.00	2957.00
27.48	Filling of the borehole around the tube well from top of the shrouding up to the bottom of sanitary seal by withdrawn selected soil or local clay free from any substances harmful to pipes and health as per standard specification and accepted by the Engineer-in-charge.	meter	87.00	85.00	80.00	80.00
	INSTALLATION OF 200 mm x 400 mm DIA SHROUDED					
	PRODUCTION WELL WITH G.I. PIPE					
27.49	Boring: Execution of 800 mm dia boring through all sorts of strata by reverse circulation or any other approved method (Method other than reverse circulation is to be applied only for wells deeper than 152 meter). For boring 800 mm dia vertical hole up to designed depth and collection of soil samples at every 3 meter interval and at every change of formation including sinking and withdrawing necessary casing pipe and all necessary arrangements complete as per specification and accepted by the Engineer-in-charge. (Measurement will be allowed from G.L. to bottom of the blind pipe and the rate is required for caving and siltation)					
27.49.1	From 0.0 m to 50 m = 50 m	meter	1589.00	1589.00	1589.00	1589.00
27.49.2	From 50 m to 100 m = 50 m	meter	1827.00	1827.00	1827.00	1827.00
27.49.3	From 100 m to 152 m = 52 m	meter	2101.00	2101.00	2101.00	2101.00
27.49.4	From 152 m to 200 m = 48 m	meter	2417.00	2417.00	2417.00	2417.00
27.49.5	From 200 m to 250 m = 50 m	meter	2779.00	2779.00	2779.00	2779.00
27.49.6	Beyond 250 m	meter	3196.00	3196.00	3196.00	3196.00
27.50	Supplying the following tube-well fixtures and pipes conforming to standard BS-1387 & BDS-1031, having chemical composition (in%) carbon 0.17-0.25, manganese 0.95-1.20, sulphur 0.060 max, phosphorous 0.060 max, tensile properties: minimum yield strength 188 MPa, minimum tensile strength 313 MPa and marking for a) manufacturer b) material c) wall thickness d) nominal outside dia e) intended use etc. on the body of the pipe at working site as per standard practice and accepted by the Engineer-in-charge.					
27.50.1	200 mm dia M.S. cap 6mm thick for blind pipe/ sand strap	each	2023.00	2022.00	2018.00	2018.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
27.50.2	200 mm dia 6 mm thick tube well pipe and blank G.I. pipe of wt. 33.45 kg per meter can withstand minimum 700 psi hydraulic pressure.	meter	7992.00	7989.00	7977.00	7977.00
27.50.3	200 mm dia strainer of slot opening as per design including tagging 4 Nos. 12 mm dia M.S. rod continuously.					
27.50.3.1	200 mm dia stainless steel strainer of continuous slot having 38.36 kg per meter.	meter	22633.00	22630.00	22617.00	22617.00
27.50.3.2	200 mm dia 2.5 mm thick stainless steel bridge type strainer	meter	15068.00	15065.00	15053.00	15053.00
27.50.4	200 mm x 400 mm dia 6 mm thick M.S. reducer.	each	3468.00	3463.00	3443.00	3443.00
27.50.5	400 mm dia 6 mm thick M.S. housing pipe (Seamless)	meter	14913.00	14906.00	14881.00	14881.00
27.50.6	Centralizer made with 12 mm dia M.S. rod of approved design	each	602.00	599.00	589.00	589.00
27.50.7	450 mm dia M.S. cap of 6 mm thick for housing pipe covering.	each	807.00	795.00	744.00	744.00
27.51	Complete installation of 200 mm dia deep tube well fixtures such as expanded top pipes, reducer, and tube well pipes, strainer, blind pipe, pipe cap etc. Fitting and fixing socket, welding and additional welding with fibre and placing in position with proper size M.S. centralizer @ 3 meter c/c in strainer position including blind pipe etc. complete as per standard practice and accepted by the Engineer-in-charge.	meter	904.00	887.00	822.00	822.00
27.52	Complete development of the tube well by suitable air compressor and pump of suitable capacity by alternate surging and pumping until satisfactory yield, sand free water and the turbidity condition is reached using necessary quantity of calgon and conducting step draw down test before and after the development as per specification and accepted by the Engineer-in-charge. (Development should be started within 24 hours of completion of shrouding).					
27.52.1	Wells up to 200 m depth	each	59398.00	59398.00	59398.00	59398.00
27.52.2	Wells beyond 200 m depth	each	66386.00	66386.00	66386.00	66386.00
27.53	Pumping test of the well by designed turbine/submersible pump with supply of testing equipments for pressure/velocity/ discharge etc. and all materials for 72 hours including yield drawn and recovery test etc. complete as per specification and accepted by the Engineer-in-charge.	hour	1617.00	1396.00	1383.00	1383.00
27.54	Disinfections of the well including supply of sufficient quantity of bleaching powder (33% strength) chlorinated water having 150 ppm available free chlorine complete as per standard specification and accepted by the Engineer-in-charge.	each	3380.00	3380.00	3380.00	3380.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	Rajshahi, Rangpur
27.55	Filling of the borehole around the tube well from top of the shrouding up to the bottom of sanitary seal by withdrawn selected soil or local clay free from any substances harmful to pipes and health as per standard specification and accepted by the Engineer-in-charge.	meter	87.00	85.00	80.00	80.00
	INSTALLATION OF 50 mm x 150 mm DIA SHROUDED					
	PRODUCTION WELL WITH G.I. PIPE					
27.56	Boring: Execution of 325 mm dia boring through all sorts of strata by reverse circulation or any other approved method (Method other than reverse circulation is to be applied only for wells deeper than 152 meter) for boring 325 mm dia vertical hole up to designed depth and collection of soil samples at every 3 meter interval and at every change of formation including sinking and withdrawing necessary casing pipe and all necessary arrangements complete as per specification and accepted by the Engineer-in-charge. (Measurement will be allowed from G.L. to bottom of the blind pipe and the rate is inclusive of the cost of extra depth of boring required for caving and siltation)					
27.56.1	From 0.0 m to 50 m = 50 m	meter	984.00	984.00	984.00	984.00
27.56.2	From 50 m to 100 m = 50 m	meter	1131.00	1131.00	1131.00	1131.00
27.56.3	From 100 m to 152 m = 52 m	meter	1301.00	1301.00	1301.00	1301.00
27.56.4	From 152 m to 200 m = 48 m	meter	1496.00	1496.00	1496.00	1496.00
27.56.5	From 200 m to 250 m = 50 m	meter	1720.00	1720.00	1720.00	1720.00
27.56.6	Beyond 250 m	meter	1979.00	1979.00	1979.00	1979.00
27.57	Supplying the following tube-well fixtures and pipes conforming to standard BS-1387 & BDS-1031, having chemical composition (in%) carbon 0.17-0.25, manganese 0.95-1.20, sulphur 0.060 max, phosphorous 0.060 max, tensile properties: minimum yield strength 188 MPa, minimum tensile strength 313 MPa and marking for a) manufacturer b) material c) wall thickness d) nominal outside dia e) intended use etc. on the body of the pipe at working site as per standard practice and accepted by the Engineer-in-charge.					
27.57.1	150 mm dia 6mm thick M.S. cap for blind pipe/ sand trap.	each	1594.00	1593.00	1589.00	1589.00
27.57.2	50 mm dia 4.85 mm thick tube well pipe and blank G.I. pipe	meter	1208.00	1205.00	1192.00	1192.00
27.57.3	50 mm dia strainer of slot opening as per design including tagging 4 Nos. 12 mm dia M.S. rod continuously.					
27.57.3.1	50 mm dia stainless steel strainer of continuous slot having 28.84 kg per meter.	meter	7669.00	7667.00	7657.00	7657.00
27.57.3.2	50 mm dia 2.5 mm thick stainless steel bridge type strainer	meter	7669.00	7667.00	7657.00	7657.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
27.57.4	50 mm x 150 mm dia 6 mm thick M.S. reducer.	each	1387.00	1381.00	1356.00	1356.00
27.57.5	150 mm dia 6 mm thick M.S. housing pipe (Seamless).	meter	5202.00	5196.00	5171.00	5171.00
27.57.6	Centralizer made with 12 mm dia M.S. rod of approved design.	each	602.00	599.00	589.00	589.00
27.57.7	150 mm dia M.S. cap of 6 mm thick for housing pipe covering.	each	2371.00	2356.00	2295.00	2295.00
27.58	Complete installation of 50 mm dia deep tube-well fixtures such as expanded top pipes, reducer, tube-well pipes, strainer, blind pipe, pipe cap etc. fitting and fixing socket, welding and additional welding with fibre and placing in position with proper size M.S. centralizer @ 3 meter c/c in strainer portion including. blind pipe etc. complete as per standard practice and accepted by the Engineer-in-charge	meter	827.00	812.00	752.00	752.00
27.59	Compete development of the tube well by suitable air compressor and pump of suitable capacity by alternate surging and pumping until satisfactory yield, sand free water and the turbidity condition is reached using necessary quantity of calgon and conducting step draw down test before and after the development as per specification and accepted by the Engineer-in-charge (Development should be started within 24 hours of completion of shrouding)					
27.59.1	Wells up to 200 m depth	each	32158.00	32158.00	32158.00	32158.00
27.59.2	Wells beyond 200 m depth	each	36446.00	36446.00	36446.00	36446.00
27.60	Pumping test of the well by designed turbine/ submersible pump with supply of testing equipments for pressure/ velocity/ discharge etc. and all materials for 72 hours including yield drawn and recovery test etc. complete as per specification and accepted by the Engineer-in-charge.	hour	1307.00	1106.00	1093.00	1093.00
27.61	Disinfections of the well including supply of sufficient quantity of bleaching powder (33% strength) chlorinated water having 150 ppm available free chlorine etc. complete as per standard specification and accepted by the Engineer-in-charge.	each	1690.00	1690.00	1690.00	1690.00
27.62	Filling of the borehole around the tube well from top of the shrouding up to the bottom of sanitary seal by withdrawn selected soil or local clay free from any substances harmful to pipes and health as per standard specification and accepted by the Engineer-in-charge.	meter	50.00	48.00	46.00	46.00
	INSTALLATION OF 75 mm x 150 mm DIA SHROUDED					
	PRODUCTION WELL WITH G.I. PIPE					
27.63	Boring: Execution of 350 mm dia boring through all sorts of strata by reverse circulation or any other approved method (Method other than reverse circulation is to be applied only)					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	for wells deeper than 152 meter) for boring 350 mm dia vertical hole up to designed depth and collection of soil samples at every 3 meter interval and at every change of formation including sinking and withdrawing necessary casing pipe and all necessary arrangements complete as per specification and accepted by the Engineer-in-charge. (Measurement will be allowed from G.L. to bottom of the blind pipe and the rate is inclusive of the cost of extra depth of boring required for caving and siltation)					
27.63.1	From 0.0 m to 50 m = 50 m	meter	1072.00	1072.00	1072.00	1072.00
27.63.2	From 50 m to 100 m = 50 m	meter	1233.00	1233.00	1233.00	1233.00
27.63.3	From 100 m to 152 m = 52 m	meter	1418.00	1418.00	1418.00	1418.00
27.63.4	From 152 m to 200 m = 48 m	meter	1630.00	1630.00	1630.00	1630.00
27.63.5	From 200 m to 250 m = 50 m	meter	1875.00	1875.00	1875.00	1875.00
27.63.6	Beyond 250 m	meter	2156.00	2156.00	2156.00	2156.00
27.64	Supplying the following tube-well fixtures and pipes conforming to standard BS-1387 & BDS-1031, having chemical composition (in%) carbon 0.17-0.25, manganese 0.95-1.20, sulphur 0.060 max, phosphorous 0.060 max, tensile properties: minimum yield strength 188 MPa, minimum tensile strength 313 MPa and marking for a) manufacturer b) material c) wall thickness d) nominal outside dia e) intended use etc. on the body of the pipe at working site as per standard practice and accepted by the Engineer-in-charge.					
27.64.1	150 mm dia 6mm thick M.S. cap for blind pipe/ sand trap.	each	1437.00	1436.00	1433.00	1433.00
27.64.2	75 mm dia 4.85 mm thick tube well pipe and blank G.I. pipe	meter	1777.00	1776.00	1772.00	1772.00
27.64.3	75 mm dia strainer of slot opening as per design including tagging 4 Nos. 12 mm dia M.S. rod continuously.					
27.64.3.1	75 mm dia stainless steel strainer of continuous slot having 28.84 kg per meter.	meter	10318.00	10315.00	10303.00	10303.00
27.64.3.2	75 mm dia 2.5 mm thick stainless steel bridge type strainer	meter	10251.00	10247.00	10235.00	10235.00
27.64.4	75 mm x 150 mm dia 6 mm thick M.S. reducer.	meter	1387.00	1381.00	1356.00	1356.00
27.64.5	150 mm dia 6 mm thick M.S. housing pipe (Seamless)	meter	5202.00	5196.00	5171.00	5171.00
27.64.6	Centralizer made with 12 mm dia M.S. rod of approved design	each	602.00	599.00	589.00	589.00
27.64.7	150 mm dia M.S. cap of 6 mm thick for housing pipe covering.	each	2371.00	2356.00	2295.00	2295.00
27.65	Complete installation of 75 mm dia deep tube-well fixtures such as expanded top pipes, reducer, tube-well	meter	793.00	779.00	721.00	721.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	pipes, strainer, blind pipe, pipe cap etc. fitting and fixing socket, welding and additional welding with fibre and placing in position with proper size M.S. centralizer @ 3 meter c/c in strainer portion including blind pipe etc. complete as per standard practice and accepted by the Engineer-in-charge.					
27.66	Complete development of the tube well by suitable air compressor and pump of suitable capacity by alternate surging and pumping until satisfactory yield, sand free water and the turbidity condition is reached using necessary quantity of calgon and conducting step draw down test before and after the development as per specification and accepted by the Engineer-in-charge. (Development should be started within 24 hours of completion of shrouding).					
27.66.1	Wells up to 200 m depth	each	42626.00	42626.00	42626.00	42626.00
27.66.2	Wells beyond 200 m depth	each	48309.00	48309.00	48309.00	48309.00
27.67	Pumping test of the well by designed turbine/submersible pump with supply of testing equipments for pressure/ velocity/ discharge etc. and all materials for 72 hours including yield drawn and recovery test etc. complete as per specification and accepted by the Engineer-in-charge.	hour	1387.00	1233.00	1219.00	1219.00
27.68	Disinfections of the well including supply of sufficient quantity of bleaching powder (33% strength) chlorinated water having 150 ppm available free chlorine etc. complete as per standard specification and accepted by the Engineer-in-charge.	each	2052.00	2052.00	2052.00	2052.00
27.69	Filling of the borehole around the tube well from top of the shrouding up to the bottom of sanitary seal by withdrawn selected soil or local clay free from any substances harmful to pipes and health as per standard specification and accepted by the Engineer-in-charge.	meter	57.00	56.00	53.00	53.00
	INSTALLATION OF 100 mm x 200 mm DIA SHROUDED					
	PRODUCTION WELL WITH G.I. PIPE					
27.70	Boring: Execution of 400 mm dia boring through all sorts of strata by reverse circulation or any other approved method (Method other than reverse circulation is to be applied only for wells deeper than 152 meter) for boring 400 mm dia vertical hole up to designed depth and collection of soil samples at every 3 meter interval and at every change of formation including sinking and withdrawing necessary casing pipe and all necessary arrangements complete as per specification and accepted by the Engineer-in-charge. (Measurement will be allowed from G.L. to bottom of the blind pipe and the rate is inclusive of the cost of extra depth of boring required for caving and siltation)					
27.70.1	From 0.0 m to 50 m = 50 m	meter	1122.00	1122.00	1122.00	1122.00
27.70.2	From 50 m to 100 m = 50 m	meter	1291.00	1291.00	1291.00	1291.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
27.70.3	From 100 m to 152 m = 52 m	meter	1484.00	1484.00	1484.00	1484.00
27.70.4	From 152 m to 200 m = 48 m	meter	1707.00	1707.00	1707.00	1707.00
27.70.5	From 200 m to 250 m = 50 m	meter	1963.00	1963.00	1963.00	1963.00
27.70.6	Beyond 250 m	meter	2258.00	2258.00	2258.00	2258.00
27.71	Supplying the following tube-well fixtures and pipes conforming to standard BS-1387 & BDS-1031, having chemical composition (in%) carbon 0.17-0.25, manganese 0.95-1.20, sulphur 0.060 max, phosphorous 0.060 max, tensile properties: minimum yield strength 188 MPa, minimum tensile strength 313 MPa and marking for a) manufacturer b) material c) wall thickness d) nominal outside dia e) intended use etc. on the body of the pipe at working site as per standard practice and accepted by the Engineer-in-charge.					
27.71.1	Supplying 150 mm dia 6mm thick M.S. cap for blind pipe/sand trap.	each	1594.00	1593.00	1589.00	1589.00
27.71.2	Supplying 100 mm dia 6 mm thick tube well pipe and blank G.I. pipe	meter	2668.00	2665.00	2653.00	2653.00
27.71.3	100 mm dia strainer of slot opening as per design including tagging 4 Nos. 12 mm dia M.S. rod continuously.	meter				
27.71.3.1	Supplying 100 mm dia stainless steel strainer of continuous slot having 28.84 kg per meter.	meter	11424.00	11424.00	11423.00	11423.00
27.71.3.2	Supplying 100 mm dia 2.5 mm thick stainless steel bridge type strainer	meter	8863.00	8860.00	8848.00	8848.00
27.71.4	Supplying 100 mm x 200 mm dia 6 mm thick M.S. reducer.	each	1665.00	1660.00	1639.00	1639.00
27.71.5	Supplying 200 mm dia 6 mm thick M.S. housing pipe (Seamless)	meter	5404.00	5398.00	5372.00	5372.00
27.71.6	Supplying centralizer made with 12 mm dia M.S. rod of approved design	each	368.00	366.00	356.00	356.00
27.71.7	Supplying 200 mm dia M.S. cap of 6 mm thick for housing pipe covering.	each	2850.00	2850.00	2787.00	2787.00
27.72	Complete installation of 100 mm dia deep tube-well fixtures such as expanded top pipes, reducer, and tube-well pipes, strainer, blind pipe, pipe cap etc. fitting and fixing socket, welding and additional welding with fibre and placing in position with proper size M.S. centralizer @ 3 meter c/c in strainer portion including blind pipe etc. complete as per standard practice and accepted by the Engineer-in-charge	meter	763.00	752.00	711.00	711.00
27.73	Complete development of the tube well by suitable air compressor and pump of suitable capacity by alternate surging and pumping until satisfactory yield, sand free water and the turbidity condition is reached using necessary					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	quantity of calgon and conducting step draw down test before and after the development as per specification and accepted by the Engineer-in-charge (Development should be started within 24 hours of completion of shrouding)					
27.73.1	Wells up to 200 m depth	each	52336.00	52336.00	52336.00	52336.00
27.73.2	Wells beyond 200 m depth	each	59314.00	59314.00	59314.00	59314.00
27.74	Pumping test of the well by designed turbine/submersible pump with supply of testing equipments for pressure/ velocity/ discharge etc. and all materials for 72 hours including yield drawn and recovery test etc. complete as per specification and accepted by the Engineer-in-charge	hour	1452.00	1280.00	1266.00	1266.00
27.75	Disinfections of the well including supply of sufficient quantity of bleaching powder (33% strength) chlorinated water having 150 ppm available free chlorine etc. complete as per standard specification and accepted by the Engineer-in-charge	each	2414.00	2414.00	2414.00	2414.00
27.76	Filling of the borehole around the tube well from top of the shrouding up to the bottom of sanitary seal by withdrawn selected soil or local clay free from any substances harmful to pipes and health as per standard specification and accepted by the Engineer-in-charge.	meter	65.00	63.00	60.00	60.00
	INSTALLATION OF 40 MM DIA uPVC HAND TUBE WEL					
27.77	Supplying and sinking of 40 mm dia water grade uPVC tube well pipe having wall thickness 2.5 mm to 3.0 mm including trial boring and with all necessary fittings as required etc. all complete and accepted by the Engineer-in-charge.					
27.77.1	40 mm dia pipe up to 60 m depth	meter	286.00	281.00	265.00	265.00
27.77.2	40 mm dia pipe beyond 60 m depth	meter	507.00	501.00	476.00	476.00
27.78	Supplying and sinking of 3 m long uPVC strainer with all necessary fittings as required etc. complete and accepted by the Engineer-in-charge.	each	721.00	717.00	702.00	702.00
27.79	Supplying, fitting and fixing of No. 6 pump for 40 mm dia tube well with all necessary fittings including 0.61 m long 40 mm dia G.I. Pipe etc. all complete as per accepted by the Engineer-in-charge.	each	4283.00	4283.00	4283.00	4283.00
27.80	Construction of platform of size 1.4 m x 1.0 m and outlet drain up to 1 meter long, as per drawing with 75 mm thick cement concrete of f _c min 17 MPa with brick chips and cement content relates to 1:2:4, over a brick flat soling and providing 125 mm x 75 mm brick band in 1:6 all around, including finished with 12 mm thick cement plaster in 1:4 followed by neat cement finishing all complete and accepted by the Engineer-in-charge.	each	7362.00	7340.00	7063.00	7063.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	DEEP SET HAND OPERATED TUBE WELL					
27.81	Supplying and sinking uPVC, tube well pipe, uPVC strainer including trial boring with all necessary fittings as required etc. all complete and accepted by the Engineer-in-charge.					
27.81.1	50 mm dia water grade uPVC pipe having wall thickness 2.5 mm to 3 mm	meter	600.00	596.00	579.00	579.00
27.81.2	40 mm dia water grade uPVC pipe having wall thickness 2.5 mm to 3 mm	meter	393.00	389.00	372.00	372.00
27.81.3	40 mm dia uPVC strainer 3.0 m long	each	721.00	717.00	702.00	702.00
27.82	Supplying, fitting and fixing of deep set tube well pump (Hand set) with all necessary fittings as required such as No. 6 pump, 50 mm dia G.I. pipe 0.61 m long, 50 mm x 40 mm reducing socket, 40 mm dia pipe Nipple 1.22 m long cylinder, tie foot ball, tie plunger, 3 Nos. 10 mm dia sockets, 4 Nos. 10mm dia nuts, 5 Nos. end threaded 10 mm dia M.S. rod 3 m long, necessary quantity of solution and tape etc. complete and accepted by the Engineer-in-charge.	each	8660.00	8635.00	8534.00	8534.00

uPVC pipe selection for deep tube well depending on depth

Normal size (inner dia) mm	Class D Pipe		Class E Pipe	
	Wall Thickness (mm)	Depth of well to be continued (ft)	Wall Thickness (mm)	Depth of well to be continued (ft)
50	3.1 – 3.7	600'-0"	3.9 - 4.5	900'-0"
75	4.0 – 4.6	600'-0"	5.7 – 6.6	900'-0"
100	6.0 – 6.9	600'-0"	7.3 – 8.4	900'-0"
125	7.3 - 8.4	400'-0"	9.0 – 10.4	800'-0"
150	8.8 – 10.2	400'-0"	10.8 – 12.5	800'-0"
200	10.3 – 11.9	400'-0"	12.6-14.8	800'-0"
250	12.8 – 14.8	400'-0"	15.7-18.1	800'-0"

..... **END OF CHAPTER TWENTY SEVEN**

CHAPTER 28: GAS CONNECTION WORKS

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
28.1	Pipe line installation: Installation of 50 psi, API, 5L, Grade-B, ERW Natural pipe line for supplying Titas Gas including, supplying, fitting, fixing and laying different sizes M.S. pipes with necessary tape and primer including cutting trenches (450 mm x 910 mm) in all kinds of soil, cleaning, cutting, applying coal-tar, wrapping the pipes, marking the pipeline with 200 mm X 200 mm demarcation plate (C.C./ M.S. plate) @ 15m interval and back filling the trenches, excavating earth including leveling, dressing and removing excess earth in all respect as per specification of Titas Gas (T and D) Co. Ltd. and accepted by the Engineer-in-charge. [Rate is excluding the cost of welding and back filling with sand at the bottom by 300 mm in thickness (compacted)] (Pipes manufactured by National Tubes Limited under Steel & Engineering Corporation, Ministry of Industries, Government of Bangladesh shall be given priority)					
28.1.1	100 mm ND (114.30 mm O.D) M.S pipe, weight of min 14.4 kg/m, standard test pressure 176 kg/ m ² , wall thickness of min 5.4 mm	meter	4250.00	4244.00	4227.00	4227.00
28.1.2	75 mm N.D (88.90 mm O.D) M.S pipe, weight of min 10.1 kg/m, standard test pressure 176 kg/m ² , wall thickness of min 4.85 mm	meter	2422.00	2416.00	2399.00	2399.00
28.1.3	50 mm N.D. (60.30 mm O.D) M.S pipe, weight of min 6.17 kg/m, standard test pressure 176 kg/m ² , wall thickness of min 4.47 mm	meter	1462.00	1456.00	1439.00	1439.00
28.1.4	25 mm N.D. (33.80 mm O.D) M.S pipe weight of min 3.84 kg/m, standard test pressure 50 kg/m ² , wall thickness of min 4.05 mm	meter	873.00	867.00	850.00	850.00
28.1.5	20 mm N.D. (27.20 mm O.D) M.S pipe weight of min 1.90 kg/m, standard test pressure 50 kg/m ² , wall thickness of min 3.25 mm	meter	685.00	679.00	662.00	662.00
28.2	Providing Butt welded joints with pipes to Tees, Elbows, Saddles, end caps etc. above or below ground including, cutting and V-leveling in each end of the pipe, grinding by machine etc. complete as per specification of Titas Gas (T and D) Co. Ltd. and accepted by the Engineer-in-charge.					
28.2.1	75 mm N.D (88.90 mm O.D)-6.95 mm	each	288.00	288.00	288.00	288.00
28.2.2	50 mm N.D (60.30 mm O.D)-5.15 mm	each	247.00	247.00	247.00	247.00
28.2.3	25 mm N.D (33.40 mm O.D)-4.20 mm	each	192.00	192.00	192.00	192.00
28.2.4	20 mm N.D (26.70 mm O.D)-3.35 mm	each	165.00	165.00	165.00	165.00
28.3	Supplying, fitting and fixing the following materials including carriage to the work site from Titas Gas Store as per specification of Titas Gas (T and D) Co. Ltd. and accepted by the Engineer-in-charge. (Rate is excluding the cost of welding)					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
28.3.1	50 mm x 50 mm x 50 mm (N.D) equal tee	each	323.00	323.00	322.00	322.00
28.3.2	50 mm x 50 mm x 25 mm (N.D) reducing tee	each	527.00	527.00	526.00	526.00
28.3.3	25 mm x 25 mm x 25 mm (N.D) equal tee	each	187.00	186.00	185.00	185.00
28.3.4	50 mm x 90° elbow	each	262.00	262.00	261.00	261.00
28.3.5	25 mm x 90° elbow	each	221.00	221.00	220.00	220.00
28.3.6	50 mm x 25 mm 45° elbow	each	121.00	120.00	119.00	119.00
28.3.7	50 mm x 25 mm reducer.	each	139.00	138.00	137.00	137.00
28.3.8	20 mm plug, socket	each	543.00	543.00	542.00	542.00
28.3.9	50mm X 20 mm saddle	each	447.00	447.00	446.00	446.00
28.3.10	50 mm dia end cap	each	107.00	107.00	106.00	106.00
28.3.11	25 mm dia end cap	each	117.00	116.00	115.00	115.00
28.4	Supplying, welding, fitting and fixing of different size valve tee/ service tee to connect the pipe line with the Titas Gas Main pipe line etc. all complete in all respect as per specification of Titas Gas T and D Co. Ltd. approved and accepted by the Engineer-in-charge.					
28.4.1	50 mm x 50 mm Valve Tee (50 mm and above 50 mm low pressure line) Sch 40	each	17266.00	17202.00	16947.00	16947.00
28.4.2	50 mm x 25 mm Valve Tee	each	3156.00	3108.00	2916.00	2916.00
28.4.3	25 mm x 25 mm Service Tee	each	7170.00	7129.00	6964.00	6964.00
28.4.4	50 mm x 25 mm Service Tee	each	13997.00	13942.00	13722.00	13722.00
28.5	Supplying, fitting and fixing in position different dia I/F (Insulated Flange) etc. all complete in all respect as per specification of Titas Gas T and D Co. Ltd. approved and accepted by the Engineer-in-charge. 50 mm N.D. (60.30 mm O.D) Insulation Flange.	each	7389.00	7328.00	7081.00	7081.00
28.6	Construction of 1520 mm x 1520 mm x 1370 mm (depth) water-tight valve pit , enclosed by 250 mm thick brick wall in 1:6, plastered on each face in 1:4 with net cement finishing, having a 75 mm thick C.C (1:3:6) bed upon a layer of brick flat soling, over laid by 38 mm thick patent stone flooring including standard M.S. sheet valve pit cover as per drawing and specification of Titas Gas T and D Co. Ltd. etc. all complete in all respect and accepted by the Engineer-in-charge.	each	128635.00	128349.00	126223.00	126223.00
28.7	Supplying, fitting and fixing of ball valve class 150 RF including supplying of 2 Nos. flange along with necessary nuts and bolts, welding the flange etc. all complete in all respect as per specification of Titas Gas T and D Co. Ltd. approved and accepted by the Engineer-in-charge.					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
28.7.1	50 mm ball valve class 150 RF. 2" dia	each	19232.00	19133.00	18735.00	18735.00
28.7.2	25 mm ball valve class 150 RF. 1" dia	each	14881.00	14782.00	14384.00	14384.00
	Part - B (Domestic & Commercial line)					
28.8	Riser Pipe line installation: Installation of 2 psi, API, 5L, Grade-B, ERW Natural pipe line for supplying Titas Gas including, supplying, fitting, fixing and laying different sizes M.S. pipes with necessary tape and painting in all respect as per specification of Titas Gas (T and D) Co. Ltd. and accepted by the Engineer-in-charge. [Rate is excluding the cost of welding and tee, elbow socket etc. fittings] (Pipes manufactured by National Tubes Limited under Steel & Engineering Corporation, Ministry of Industries, Government of Bangladesh shall be given priority)					
28.8.1	12 mm N.D. with wall thickness 2 mm	meter	328.00	327.00	320.00	320.00
28.8.2	20 mm N.D. with wall thickness 2.35 mm	meter	397.00	396.00	390.00	390.00
28.9	Supplying, fitting and fixing in position different dia one-way brass stop cock (best quality and heavy type) etc. complete in all respect as per specification of Titas Gas T and D Co. Ltd. approved and accepted by the Engineer-in-charge.					
28.9.1	12 mm x 6 mm N.D.	each	415.00	414.00	412.00	412.00
28.9.2	20 mm x 20 mm N.D.	each	749.00	748.00	743.00	743.00
28.10	Cutting of permanent pucca (rigid/ flexible) road and mending good the damages etc. all complete in all respect and accepted by the Engineer-in-charge.					
28.10.1	Bituminous Road	sqm	1393.00	1368.00	1267.00	1267.00
28.10.2	R.C.C. Road	sqm	2084.00	2046.00	1894.00	1894.00
28.11	Testing and purging of the house line properly as per specifications Titas Gas T and D Co. Ltd. and accepted by the Engineer-in-charge.	meter	30.00	30.00	30.00	30.00
28.12	Supplying and installation the complete LP Gas Reticulated System for high-rise buildings (Up to 40 unit 20 storied) with Storage facility (45 KG POL Valve cylinders/ Bulk Tank) with isolation and safety valve, pressure gauges, LPG transfer hose, Seamless MS pipe network, LPG Regulator (1st Stage and 2nd Stage), Household LP Gas meter, Safety fittings & accessories, system design, documentation, supervision and commissioning etc. (as per standard of department of Explosive and NFPA-58) all complete and accepted by engineer in charge.					
28.12.1	Cylinder heading line for multistoried Building with 40 unit apartment, 2X10 Nos cylinder Heading line, 45 Kg LP Gas Cylinder Bank Vapor Off Take (VOT) System with MS	set	1191750.00	1191750.00	1191750.00	1191750.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	Seamless SCH 40 pipes. (min. dia 25 mm), Flanze Type MS 150 class ball valve, Pressure Gauge (100 mm dia) liquid type (range: 0-20 Bar), Bleed Valve, Safety Relief Valve (LPG Type, Relief at 14.6 Bar), LP Gas pigtail, Ball valve and necessary fittings suitable for LP Gas as per standard of department of Explosive and NFPA-58 , Supply, Installation of Medium pressure main distribution pipeline, MS Seamless (Sch-40) 50 mm dia pipe up to 100 meter length , Flanze Type MS Valve 150 Class Dia 50 mm, Sch 40 MS 50 mm TEE, Sch 40 MS 50 mm Elbow, 150 Class 50 mm MS Flanze, Painting, Pipe support with MS Clamp, First Stage Regulator; Brand: REGO / FISHER / CAVAGNA or similar from USA or EU, MS Seamless SCH 40 pipes, Flanze Type MS 150 class ball valve, Pressure Gauge (100 mm dia) liquid type (range: 0-20 Bar), Bleed Valve, Safety Relief Valve (LPG Type, Relief at 14.6 Bar) etc. as per requirement all complete, approved and accepted by the Engineer-in-charge. (All the welding joints must be TIG welded) (Rate is excluding the cost of shed, perimeter fencing and RCC floor).					
28.12.2	Reduction cost per unit below 40 unit connection for all necessary arrangement including heading line.	each	10000.00	10000.00	10000.00	10000.00
28.12.3	Additional cost per apartment up to 100 apartment for all necessary arrangement including heading line.	each	9458.00	9458.00	9458.00	9458.00
28.12.4	Supplying and installation of 45 Kg LP Gas empty cylinder [Water capacity: 108 litre; design code: DOT, Service pressure 17 Kgs/cm ² , test pressure 34 Kgs/cm ² , Steel grade SG295 or equiv.], certified by Department of Explosives.	each	7567.00	7567.00	7567.00	7567.00
28.13	Supplying and installation of LP Gas Prepaid meter with smart recharging system. (Smart card for recharge gas, Meter connection, Second Stage Regulator, Gas meter header with individual valves (MS 150 class) in both ends of meter and other fittings etc. all complete and accepted by the Engineer-in-charge.	each	25222.00	25222.00	25222.00	25222.00

..... **END OF CHAPTER TWENTY EIGHT**

CHAPTER 29: TERMITE TREATMENT WORKS

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
29.1	Supplying anti-termite chemicals named DURS BAN 20 EC / equivalent and mixing the same with pure water in required proportion (For DURS BAN 20 EC 1 Liter in 19 liters of pure water) and spraying the emulsified mixture @ 5 liters per square meter of soil surface by chemical sprayer or by any other means to the sides and bottom of the foundation trench and over plinth filling or floor bed accepted by the Engineer-in-charge.	sqm	346.00	346.00	345.00	345.00
29.2	Supplying anti termite chemicals named DURS BAN 20 EC / equivalent and mixing the same with pure water in required proportion (For DURS BAN 20 EC 1 Liter in 19 liters of pure water) and using the same emulsified water as mixing water in cement-sand mortar of brick works in foundation and up to plinth and accepted by the Engineer-in-charge.	cum	2559.00	2555.00	2547.00	2547.00
29.3	Supplying anti-termite chemicals named DURS BAN 20 EC / equivalent and mixing the same with pure water in required proportion (For DURS BAN 20 EC 1 Liter in 19 liters of pure water) and spraying the emulsified mixture with hand sprayer over both outside and inside back fill in foundation trenches @ 7.50 liters per sqm of the vertical surface area of the foundation wall accepted by the Engineer-in-charge. (The maximum depth of the back fill to be treated is 500 mm. and the measurement for depth should not be given more than 500 mm)	sqm	518.00	517.00	516.00	516.00
29.4	Anti-termite treatment in existing super structures by making downwardly slanting holes at a required depth of 9" from the existing finished F.L/G.L inside and outside the building and applying the emulsion of anti termite chemicals, named DURS BAN 20 EC into the holes preparing chemical solution mixing with water at the ratio of chemical: water = 1:19 maintaining a dosage rate of 250 ml per hole including supplying all materials and repairing the holes all complete and accepted by the Engineer-in-charge.	per hole	78.00	77.00	73.00	73.00
29.5	Trench treatment for protection against incoming termites to the establishment through underground by making trench around existing building /structures at a required depth of 750 mm from existing level including supplying anti-termite chemicals named DURS BAN 20 EC / equivalent preparing the solution to be mixed with water in the ratio of chemical: water = 1:19, applying the solution into trench with the help of a chemical sprayer in three layers and each layer follows a 250 mm thick back-fill in trench etc. all complete and accepted by the Engineer-in-charge.	meter	353.00	351.00	344.00	344.00
29.6	Fumigation treatment (Pest Control) against mosquitoes, flies, bees, cockroaches, spiders, silver fishes, lizards and other common pests and insects in wooden walls, bricks walls, floors, doors and windows, furniture fanlight, carpets, records, curtains, electrical conduits etc. with the application of fumigants such as Syngenta or NEOCIDOL-60 EC or similar chemically equivalent govt. registered pest control	cum	48.00	48.00	46.00	46.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	products preparing chemical solution mixing with water in the ratio of chemical: water = 1:100, applying with the help of electrically/mechanically operated jet fogging machine, swing fog, dyna fog, pneumatic hand sprayer, knap sac hand sprayer in air-tight position, after fumigation the surface will be kept remain at air-tight condition at least for 3 (three) hours etc. complete and accepted by the Engineer-in-charge. (Volume of the room will be considered towards measurement.)					
29.7	Anti termite treatment of all wooden doorframes, window frames, wood paneling etc. by using DURS BAN 20 EC / equivalent emulsion in the ratio of 1 liter. DURS BAN 20 EC + 19 liters of Kerosene oil suitable for wood, plywood, particle board, hard board etc. on both surfaces by brush on both surfaces by brush-on-method etc. complete and accepted by the Engineer-in-charge.	sqm	252.00	199.00	196.00	196.00
29.8	Anti-termite treatment of electric telephone wiring system by inserting a plugging materials (cotton, foam etc.) soaked in anti-termite chemical DURS BAN 20 EC / equivalent to an electric switch board point for all floors and spraying the emulsion (to be mixed at the ratio of 1 liters DURS BAN 20 EC + 19 liter of water) to the casings and grooving of electric wirings, telephone cables utility pipes etc. for all floors etc. complete and accepted by the Engineer-in-charge.	per board	335.00	331.00	326.00	326.00
29.9	Destruction of termite nest around an infested building, tree stumps in lawn with the treatment of DURS BAN 20 EC / equivalent by excavation of soil in affected area up to a depth of 1.5 meter, mixing the DURS BAN 20 EC / equivalent solution to be mixed with water in 1:19 ratio with the soil and laying the same in same place etc. all complete as per direction including cost of all materials and chemicals etc. complete and accepted by the Engineer-in-charge.	each nest	2602.00	2581.00	2536.00	2536.00

..... END OF CHAPTER TWENTY NINE.....

CHAPTER 30: CONCRETE SOLID AND HOLLOW BLOCKS, FACING AND PAVING STONES ETC.

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
30.1	240 mm thick Concrete Solid Block wall works having minimum compressive strength of 15 MPa and water absorption not greater than 7% of size (240 x 114 x 70) mm , laying with specified mortar of cement and sand in a ratio 1:5 (sand not less than F.M = 1.2) and minimum thickness of 12 mm in foundation and plinth , filling the joints/ interstices fully with mortar, racking out the joints and curing for minimum 3 (three) days on mortar joints by jute /brush in wet, followed by impervious /wet covering for another 4 (four) days curing etc. all completed by the contractor and accepted by the Engineer-in-charge.	Cum	9317.00	9292.00	9176.00	9176.00
30.2	One layer of Concrete Solid Block Soling having minimum compressive strength of 15 MPa and water absorption not greater than 7% of size (240 x 114 x 70) mm in ground floor/ foundation including preparation of bed and filling the interstices with fine sand (F.M.= 0.8), leveling etc. all completed by the contractor and accepted by the Engineer-in-charge.	sqm	680.00	678.00	667.00	667.00
30.3	240 mm thick Exterior Wall with Concrete Solid Block having minimum compressive strength of 15 MPa and water absorption not greater than 7% of size (240 x 114 x 70) mm , laying with specified mortar of cement and sand in a ratio 1:5 (sand not less than F.M =1.2) and minimum thickness of 12 mm , filling the interstices with mortar and making bond with connecting walls/ frames including necessary scaffolding and curing for minimum 3 (three) days on mortar joints by jute/ brush in wet, followed by impervious/ wet covering for another 4 (four) days curing etc. all completed by contractor and accepted by the Engineer-in-charge.					
30.3.1	Ground floor	Cum	9428.00	9404.00	9287.00	9287.00
30.3.2	Add for each additional floor above ground floor	Cum	73.00	73.00	73.00	73.00
30.4	114 mm thick Partition Wall with Concrete Solid Block having minimum compressive strength of 15 MPa and water absorption not greater than 7% of size (240 x 114 x 70) mm , laying with specified mortar of cement and sand in a ratio 1:5 (sand not less than F.M =1.2) and minimum thickness of 12 mm, filling the interstices with mortar and making bond with connecting walls/ frames including necessary scaffolding and curing for minimum 3 (three) days on mortar joints by jute/ brush in wet, followed by impervious/ wet covering for another 4 (four) days curing etc. all completed by contractor and accepted by the Engineer-in-charge.					
30.4.1	Ground floor	sqm	1290.00	1285.00	1261.00	1261.00
30.4.2	Add for each additional floor up above ground floor	sqm	36.00	36.00	36.00	36.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
30.5	240 mm thick Exterior Wall with Concrete Hollow Block having minimum compressive strength of 15 MPa of size (390 x 190 x 240) mm, thickness of individual Block Shell should not be less than 32 mm, water absorption not more than 7%, laying with specified mortar of cement and sand in a ratio 1:4 (sand not less than F.M =1.2) and minimum thickness of 15 mm (9 mm for shell portion and 6 mm for inside hollow portion), filling the interstices with mortar and making bond with connecting walls/ frames including necessary scaffolding and curing for minimum 3 (three) days on mortar joints by jute/ brush in wet, followed by impervious/ wet covering for another 4 (four) days curing etc. all completed by contractor and accepted by the Engineer-in-charge.					
30.5.1	Ground floor	sqm	1980.00	1976.00	1951.00	1951.00
30.5.2	Add for each additional floor up above ground floor	sqm	36.00	36.00	36.00	36.00
30.6	112 mm thick Partition Wall with Concrete Hollow Block having minimum compressive strength of 15 MPa of size (390 x 190 x 112) mm, thickness of individual Block Shell should not be less than 25 mm, water absorption not more than 7%, laying with specified mortar of cement and sand in a ratio 1:4 (sand not less than F.M =1.2) minimum thickness of 15 mm (9 mm for shell portion and 6 mm for inside hollow portion), filling the interstices with mortar and making bond with connecting walls/ frames including necessary scaffolding and curing for minimum 3 (three) days on mortar joints by jute/ brush in wet, followed by impervious/ wet covering for another 4 (four) days curing etc. all completed by contractor and accepted by the Engineer-in-charge.					
30.6.1	Ground floor	sqm	1053.00	1049.00	1025.00	1025.00
30.6.2	Add for each additional floor up above ground floor	sqm	36.00	36.00	36.00	36.00
30.7	240 mm thick Exterior Wall with 3 Holes Concrete Hollow Block having minimum compressive strength of 15 MPa and water absorption not greater than 7% of size (240 x 114 x 70-3H) mm, laying with specified mortar of cement and sand in a ratio 1:5 (sand not less than F.M =1.2) and minimum thickness of 12 mm, filling the interstices with mortar and making bond with connecting walls/ frames including necessary scaffolding and curing for minimum 3 (three) days on mortar joints by jute/ brush in wet, followed by impervious/ wet covering for another 4 (four) days curing etc. all completed by contractor and accepted by the Engineer-in-charge.					
30.7.1	Ground floor	cum	7466.00	7453.00	7373.00	7373.00
30.7.2	Add for each additional floor up above ground floor	cum	73.00	73.00	73.00	73.00
30.8	114 mm thick Partition Wall with 3 Holes Concrete Hollow Block having minimum compressive strength of 15 MPa and water absorption not greater than 7% of size					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	(240 x 114 x 70-3H) mm, laying with specified mortar of cement and sand in a ratio 1:5 (sand not less than F.M =1.2) and minimum thickness of 12 mm, filling the interstices with mortar and making bond with connecting walls /frames including necessary scaffolding and curing for minimum 3 (three) days on mortar joints by jute /brush in wet, followed by impervious /wet covering for another 4 (four) days curing etc. all completed by contractor and accepted by the Engineer-in-charge.					
30.8.1	Ground floor	sqm	1156.00	1152.00	1128.00	1128.00
30.8.2	Add for each addl. floor up above ground floor	sqm	36.00	36.00	36.00	36.00
30.9	240 mm thick Boundary Wall with Concrete Solid Block having minimum compressive strength of 15 MPa and water absorption not greater than 7% of size (240 x 114 x 70) mm , laying with specified mortar of cement and sand in a ratio 1:5 (sand not less than F.M =1.2) and minimum thickness of 12 mm, filling the interstices with mortar and making bond with connecting walls /frames including necessary scaffolding and curing for minimum 3 (three) days on mortar joints by jute /brush in wet, followed by impervious /wet covering for another 4 (four) days curing etc. all completed by contractor and accepted by the Engineer-in-charge.	Cum	9428.00	9404.00	9287.00	9287.00
30.10	114 mm thick boundary wall with Concrete Solid block having minimum compressive strength of 15 MPa and water absorption not greater than 7% of size (240 x 114 x 70) mm , laying with specified mortar of cement and sand in a ratio 1:5 (sand not less than F.M= 1.2) and minimum thickness of 12 mm, filling the interstices with mortar and making bond with connecting walls /frames including necessary scaffolding and curing for minimum 3 (three) days on mortar joints by jute /brush in wet, followed by impervious /wet covering for another 4 (four) days curing etc. all completed by contractor and accepted by the Engineer-in-charge.	sqm	1290.00	1285.00	1261.00	1261.00
30.11	240 mm thick Boundary Wall with Concrete Hollow Block having minimum compressive strength of 15 MPa of size (390 x 190 x 240) mm , thickness of individual Block Shell should not be less than 32 mm, water absorption not more than 7%, laying with specified mortar of cement and sand in a ratio 1:4 (sand not less than F.M =1.2) and minimum thickness of 15 mm (9 mm for shell portion and 6 mm for inside hollow portion), filling the interstices with mortar and making bond with connecting walls /frames including necessary scaffolding and curing for minimum 3 (three) days on mortar joints by jute /brush in wet, followed by impervious /wet covering for another 4 (four) days curing etc. all completed by contractor and accepted by the Engineer-in-charge.	sqm	1980.00	1976.00	1951.00	1951.00
30.12	112 mm thick Boundary Wall with Concrete Hollow Block having minimum compressive strength of 10 MPa of size (390 x 190 x 112) mm , thickness of individual Block Shell	sqm	1053.00	1049.00	1025.00	1025.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	should not be less than 25 mm, water absorption not more than 7%, laying with specified mortar of cement and sand in a ratio 1:4 (sand not less than F.M =1.2) minimum thickness of 15 mm (9 mm for shell portion and 6 mm for inside hollow portion), filling the interstices with mortar and making bond with connecting walls/ frames including necessary scaffolding and curing for minimum 3 (three) days on mortar joints by jute/ brush in wet, followed by impervious/ wet covering for another 4 (four) days curing etc. all completed by contractor and accepted by the Engineer-in-charge.					
30.13	240 mm thick Boundary Wall with 3 Holes Concrete Hollow Block having minimum compressive strength of 15 MPa of size (240 x 114 x 70 -3H) mm , thickness of individual Block Shell should not be less than 32 mm, water absorption not more than 7%, laying with specified mortar of cement and sand in a ratio 1:4 (sand not less than F.M =1.2) and minimum thickness of 15 mm (9 mm for shell portion and 6 mm for inside hollow portion), filling the interstices with mortar and making bond with connecting walls/ frames including necessary scaffolding and curing for minimum 3 (three) days on mortar joints by jute/ brush in wet, followed by impervious /wet covering for another 4 (four) days curing etc. all completed by contractor and accepted by the Engineer-in-charge.	cum	7466.00	7453.00	7373.00	7373.00
30.14	114 mm thick Boundary Wall with 3 Holes Concrete Hollow Block having minimum compressive strength of 10 MPa of size (240 x 114 x 70 - 3H) mm , thickness of individual Block Shell should not be less than 25 mm, water absorption not more than 7%, laying with specified mortar of cement and sand in a ratio 1:4 (sand not less than F.M =1.2) minimum thickness of 15 mm (9 mm for shell portion and 6 mm for inside hollow portion), filling the interstices with mortar and making bond with connecting walls/ frames including necessary scaffolding and curing for minimum 3 (three) days on mortar joints by jute/ brush in wet, followed by impervious/ wet covering for another 4 (four) days curing etc. all completed by contractor and accepted by the Engineer-in-charge.	sqm	1156.00	1152.00	1128.00	1128.00
30.15	112 mm thick partition wall with sand cement hollow block wall (SCHB) having compressive strength of not less than 10 MPa, size (390 x 190 x 112) mm, thickness of individual Block shell should not be less than 25 mm, water absorption not more than 7%, laying with specified mortar (with admixture) of cement and sand in a ratio of not less than 1:5 (sand not less than F.M = 1.2), filling the interstices with mortar and making bond with connecting walls including necessary scaffolding and curing for minimum 14 days on mortar joints by jute/ brush in wet, followed by impervious/ wet covering for another 7 days including cost of water, electricity and other charges etc. in all completed by the contractor and accepted by the Engineer-in-charge.					
30.15.1	Ground Floor	sqm	895.00	891.00	867.00	867.00
30.15.2	Add for each additional floor above ground floor	sqm	36.00	36.00	36.00	36.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
30.16	Minimum 10 mm thick cement plaster in cement : sand = 1:5 in surface of external/ internal wall with specified external/internal plaster mix applied in two coats (first coat 6 mm and second coat 4 mm), finishing the corner and edge including washing of sand, cleaning the surface, scaffolding and curing for minimum 3 (three) days on mortar joints by jute/ brush in wet, followed by impervious/ wet covering for another 4 (four) days etc. all complete etc. all complete and accepted by the Engineer-in-charge. (Rate is excluding the cost of grouting and reinforcement)					
30.16.1	Ground floor	sqm	302.00	300.00	282.00	282.00
30.16.2	Add for each additional floor above ground floor	sqm	6.00	6.00	6.00	6.00
30.17	Supplying and placing of 60 mm thick grey uni-block paving for walk way having size (222x110x60) mm , water absorption not greater than 4% and minimum compressive strength of 25 MPa on compacted sand bed of 50 mm on stabilized soil base, and filling all interstices with sand, cleaning etc. completed by the contractor and accepted by the Engineer-in-charge.	sqm	1156.00	1153.00	1136.00	1136.00
30.18	Supplying and placing of 60 mm thick coloured uni-block paving for walk way having size (222x110x60) mm , water absorption not greater than 4% and minimum compressive strength of 25 MPa on compacted sand bed of 50 mm on stabilized soil base, and filling all interstices with sand, cleaning etc. completed by the contractor and accepted by the Engineer-in-charge.	sqm	1285.00	1282.00	1265.00	1265.00
30.19	Supplying and placing of 70 mm thick grey uni-block paving for walk way having size (222x110x70) mm , water absorption not greater than 4% and minimum compressive strength of 30 MPa on compacted sand bed of 50 mm on stabilized soil base, and filling all interstices with sand, cleaning etc. completed by the contractor and accepted by the Engineer-in-charge.	sqm	1259.00	1256.00	1240.00	1240.00
30.20	Supplying and placing of 70 mm thick coloured uni-block paving for walk way having size (222x110x70) mm , water absorption not greater than 4% and minimum compressive strength of 30 MPa on compacted sand bed of 50 mm on stabilized soil base, and filling all interstices with sand, cleaning etc. completed by the contractor and accepted by the Engineer-in-charge.	sqm	1336.00	1334.00	1317.00	1317.00
30.21	Supplying and placing of 80 mm thick grey uni-block for paving foot-path, major walk way, car porch having size (222x110x80) mm , water absorption not greater than 4% and compressive strength of 40 MPa on compacted sand bed of 50 mm on stabilized soil base, and filling all interstices with sand, cleaning etc. completed by the contractor and accepted by the Engineer-in-charge.	sqm	1543.00	1540.00	1523.00	1523.00
30.22	Supplying and placing of 80 mm thick coloured uni-block for paving foot-path, major walk way, car porch having	sqm	1697.00	1695.00	1678.00	1678.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	size (222x110x80) mm, water absorption not greater than 4% and compressive strength of 40 MPa on compacted sand bed of 50 mm on stabilized soil base, and filling all interstices with sand, cleaning etc. completed by the contractor and accepted by the Engineer-in-charge.					
30.23	Supplying and placing of 90 mm grey uni-block for paving heavy traffic areas, roads rounds abuts, industrial yards etc. having size (222x110x90) mm , water absorption not greater than 4% and compressive strength of 40 MPa on compacted sand bed of 50 mm on stabilized soil base, and filling all interstices with sand, cleaning etc. completed by the contractor and accepted by the Engineer-in-charge.	sqm	1594.00	1592.00	1575.00	1575.00
30.24	Supplying and placing of 90 mm thick coloured uni-block for paving heavy traffic areas, road, industrial yard etc. having size (222x110x90) mm , water absorption not greater than 4% and compressive strength of 40 MPa on compacted sand bed of 50 mm on stabilized soil base, and filling all interstices with sand, cleaning etc. completed by the contractor and accepted by the Engineer-in-charge.	sqm	1749.00	1746.00	1730.00	1730.00
30.25	Supplying and placing of 100 mm grey uni-block for paving heavy traffic areas, roads rounds abuts, industrial yards etc. having size (222x110x100) mm , water absorption not greater than 4% and compressive strength of 40 MPa on compacted sand bed of 50 mm on stabilized soil base, and filling all interstices with sand, cleaning etc. completed by the contractor and accepted by the Engineer-in-charge.	sqm	1904.00	1901.00	1884.00	1884.00
30.26	Supplying and placing of 100 mm thick coloured uni-block for paving heavy traffic areas, road, industrial yard etc. having size (222x110x100) mm , water absorption not greater than 4% and compressive strength of 40 MPa on compacted sand bed of 50 mm on stabilized soil base, and filling all interstices with sand, cleaning etc. completed by the contractor and accepted by the Engineer-in-charge.	sqm	2007.00	2004.00	1988.00	1988.00
30.27	Supplying and placing of grey 200 mm x 100 mm x 60 mm rectangular paving block having water absorption not greater than 4% and compressive strength of 30 MPa on 50 mm thick compacted sand bed, and filling all interstices with sand, cleaning etc. completed by the contractor and accepted by the Engineer-in-charge.	sqm	1261.00	1258.00	1242.00	1242.00
30.28	Supplying and placing of coloured 200 mm x 100 mm x 60 mm rectangular paving block having water absorption not greater than 4% and compressive strength of 30 MPa on 50 mm thick compacted sand bed, and filling all interstices with sand, cleaning etc. completed by the contractor and accepted by the Engineer-in-charge.	sqm	1513.00	1510.00	1494.00	1494.00
30.29	Supplying and placing of grey 200 mm x 100 mm x 80 mm rectangular paving block having water absorption not greater than 4% and compressive strength of 30 MPa on 50 mm thick compacted sand bed, and filling all interstices with sand, cleaning etc. completed by the contractor and accepted by the Engineer-in-charge.	sqm	1702.00	1699.00	1682.00	1682.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
30.30	Supplying and placing of coloured 200 mm x 100 mm x 80 mm rectangular paving block having water absorption not greater than 4% and compressive strength of 30 MPa on 50 mm thick compacted sand bed, and filling all interstices with sand, cleaning etc. completed by the contractor and accepted by the Engineer-in-charge.	sqm	1828.00	1825.00	1808.00	1808.00
30.31	Supplying and placing of grey 200 mm x 100 mm x 100 mm rectangular paving block having water absorption not greater than 4% and compressive strength of 30 MPa on 50 mm thick compacted sand bed, and filling all interstices with sand, cleaning etc. completed by the contractor and accepted by the Engineer-in-charge.	sqm	1891.00	1888.00	1871.00	1871.00
30.32	Supplying and placing of coloured 200 mm x 100 mm x 100 mm rectangular paving block having water absorption not greater than 4% and compressive strength of 30 MPa on 50 mm thick compacted sand bed, and filling all interstices with sand, cleaning etc. completed by the contractor and accepted by the Engineer-in-charge.	sqm	2017.00	2014.00	1997.00	1997.00
30.33	Supplying, carrying, placing, providing of Concrete Kerb Stone having minimum compressive strength 15 MPa of size 600 mm x 300 mm x 100/ 60 mm all completed by the contractor and accepted by the Engineer-in-charge.	nos	245.00	245.00	242.00	242.00
30.34	Supplying, carrying, placing, providing of Concrete Kerb Stone having minimum compressive strength 15 MPa of size 500 mm x 350 mm x 100 mm all completed by the contractor and accepted by the Engineer-in-charge.	nos	252.00	251.00	249.00	249.00
30.35.1	Supplying and placing of grey engraved cement concrete tiles (250 mm x 250 mm in size) having minimum thickness of 24 mm over 12 mm sand cement mortar (4:1) each at a distance of 6 mm apart and filling the joints with cement sand mortar (1:4) including raking out joints and cutting the tiles to required sizes wherever necessary with high class recessed pointing, cleaning and washing of sand, curing for minimum 3 (three) days on mortar joints by jute/ brush in wet, followed by impervious/ wet covering for another 4 (four) days etc. all complete and accepted by the Engineer-in-charge.					
30.35.1.1	Ground floor	sqm	998.00	996.00	981.00	981.00
30.35.1.2	Add for each additional floor above ground floor	sqm	10.00	10.00	10.00	10.00
30.35.2	Supplying and placing of coloured engraved cement concrete tiles (250 mm x 250 mm in size) having minimum thickness of 24 mm over 12 mm sand cement mortar (4:1) each at a distance of 6 mm apart and filling the joints with cement sand mortar (1:4) including raking out joints and cutting the tiles to required sizes wherever necessary with high class recessed pointing, cleaning and washing of sand, curing for min 3 (three) days on mortar joints by jute/ brush in wet, followed by impervious/ wet covering for another 4 (four) days etc. all complete and accepted by the Engineer-in-charge.					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
30.35.2.1	Ground floor	sqm	1141.00	1138.00	1124.00	1124.00
30.35.2.2	Add for each additional floor above ground floor	sqm	10.00	10.00	10.00	10.00
30.36.1	38 mm thick grey cladding work in facing on superstructure with 200 mm x 90 mm x 38 mm size concrete clad pasted with 20 mm thick cement mortar (1:4) to be placed at 3 mm apart, filling the interstices with same mortar, raking out joints and cutting the clad to required sizes wherever necessary with high class recessed pointing, cleaning and washing of sand, necessary scaffolding, curing for minimum 3 (three) days on mortar joints by jute/ brush in wet, followed by impervious/ wet covering for another 4 (four) days etc. all complete and accepted by the Engineer-in-charge.					
30.36.1.1	Ground floor	sqm	1657.00	1649.00	1611.00	1611.00
30.36.1.2	Add for each additional floor above ground floor	sqm	18.00	18.00	18.00	18.00
30.36.2	38 mm thick coloured cladding work in facing on superstructure with 200 mm x 92 mm x 38 mm size concrete clad pasted with 20 mm thick cement mortar (1:4) to be placed at 6 mm apart, filling the interstices with same mortar, raking out joints and cutting the clad to required sizes wherever necessary with high class recessed pointing, cleaning and washing of sand, necessary scaffolding, curing for minimum 3 (three) days on mortar joints by jute/ brush in wet, followed by impervious/ wet covering for another 4 (four) days etc. all complete and accepted by the Engineer-in-charge.					
30.36.2.1	Ground floor	sqm	1788.00	1779.00	1742.00	1742.00
30.36.2.2	Add for each additional floor above ground floor	sqm	18.00	18.00	18.00	18.00
30.36.3	50 mm thick grey cladding work in facing on superstructure with 400 mm x 100 mm x 50 mm size concrete clad pasted with 20 mm thick cement mortar (1:4) to be placed at 6 mm apart, filling the interstices with same mortar, raking out joints and cutting the clad to required sizes wherever necessary with high class recessed pointing, cleaning and washing of sand, necessary scaffolding, curing for minimum 3 (three) days on mortar joints by jute/ brush in wet, followed by impervious/ wet covering for another 4 (four) days etc. all complete and accepted by the Engineer-in-charge.					
30.36.3.1	Ground floor	sqm	1408.00	1397.00	1351.00	1351.00
30.36.3.2	Add for each additional floor above ground floor	sqm	18.00	18.00	18.00	18.00
30.36.4	50 mm thick coloured cladding work in facing on superstructure with 400 mm x 100 mm x 50 mm size concrete clad pasted with 20 mm thick cement mortar (1:4) to be placed at 6 mm apart, filling the interstices with same mortar, raking out joints and cutting the clad to required sizes					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	wherever necessary with high class recessed pointing, cleaning and washing of sand, necessary scaffolding, curing for minimum 3 (three) days on mortar joints by jute/ brush in wet, followed by impervious/ wet covering for another 4 (four) days etc. all complete and accepted by the Engineer-in-charge.					
30.36.4.1	Ground floor	sqm	1557.00	1546.00	1500.00	1500.00
30.36.4.2	Add for each additional floor above ground floor	sqm	18.00	18.00	18.00	18.00
30.36.5	15 mm thick grey/coloured cladding work in facing on superstructure with 420 mm x 330 mm x 15 mm size concrete clad pasted with 20 mm thick cement mortar (1:4) to be placed at 6 mm apart, filling the interstices with same mortar, raking out joints and cutting the clad to required sizes wherever necessary with high class recessed pointing, cleaning and washing of sand, necessary scaffolding, curing for minimum 3 (three) days on mortar joints by jute/ brush in wet, followed by impervious/ wet covering for another 4 (four) days etc. all complete and accepted by the Engineer-in-charge.					
30.36.5.1	Ground floor	sqm	1040.00	1032.00	995.00	995.00
30.36.5.2	Add for each additional floor above ground floor	sqm	18.00	18.00	18.00	18.00
30.37.1	240 mm thick wall in super structure with Autoclaved Aerated Concrete (AAC) Block of size (600 x 200 x 240 : L x H x W) mm having Compressive Strength not less than 6 MPa, Nominal Dry Density 850 kg/m ³ and Drying Shrinkage not exceeding 0.02% conforming BNBC-2020 (ASTM C1386), laying with specified mortar of cement and sand in a ratio 1:4 (sand not less than F.M =1.2) and minimum thickness of 10 mm, (or other binding materials which comply with BNBC-2020) filling the interstices with mortar and making bond with connecting walls/ frames including necessary scaffolding and curing for minimum 3 (three) days on mortar joints by jute/ brush in wet, followed by impervious/ wet covering for another 4 (four) days curing etc. all completed by the contractor and accepted by the Engineer-in-charge.					
30.37.1.1	Ground floor	cum	6230.00	6209.00	6117.00	6117.00
30.37.1.2	Add for each additional floor above ground floor	cum	73.00	73.00	73.00	73.00
30.37.2	200 mm thick wall in super structure with Autoclaved Aerated Concrete (AAC) Block of size (600 x 200 x 200 : L x H x W) mm having Compressive Strength not less than 6 MPa, Nominal Dry Density 850 kg/m ³ and Drying Shrinkage not exceeding 0.02% conforming BNBC-2020 (ASTM C1386), laying with specified mortar of cement and sand in a ratio 1:4 (sand not less than F.M =1.2) and minimum thickness of 10 mm, (or other binding materials which comply with BNBC-2020) filling the interstices with mortar and making bond with connecting walls/ frames including necessary scaffolding and curing for minimum 3					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	(three) days on mortar joints by jute/ brush in wet, followed by impervious/ wet covering for another 4 (four) days curing etc. all completed by the contractor and accepted by the Engineer-in-charge.					
30.37.2.1	Ground floor	cum	6606.00	6586.00	6494.00	6494.00
30.37.2.2	Add for each additional floor above ground floor	cum	73.00	73.00	73.00	73.00
30.37.3	150 mm thick wall in super structure with Autoclaved Aerated Concrete (AAC) Block of size (600 x 200 x 150: L x H x W) mm having Compressive Strength not less than 6 MPa, Nominal Dry Density 850 kg/m ³ and Drying Shrinkage not exceeding 0.02% conforming BNBC-2020 (ASTM C1386), laying with specified mortar of cement and sand in a ratio 1:4 (sand not less than F.M =1.2) and minimum thickness of 10 mm, (or other binding materials which comply with BNBC-2020) filling the interstices with mortar and making bond with connecting walls/ frames including necessary scaffolding and curing for minimum 3 (three) days on mortar joints by jute/ brush in wet, followed by impervious/ wet covering for another 4 (four) days curing etc. all completed by the contractor and accepted by the Engineer-in-charge.					
30.37.3.1	Ground floor	cum	7491.00	7471.00	7378.00	7378.00
30.37.3.2	Add for each additional floor above ground floor	cum	73.00	73.00	73.00	73.00
30.38.1	240 mm thick wall in super structure with Autoclaved Aerated Concrete (AAC) Block of size (600 x 200 x 240 : L x H x W) mm having Compressive Strength not less than 6 MPa, Nominal Dry Density 850 kg/m ³ and Drying Shrinkage not exceeding 0.02% conforming BNBC-2020 (ASTM C1386), laying with approved polymer modified adhesive mortar having water retention not less than 75% & average compressive strength at 28 days, min 5.2 MPa conforming ASTM C270, Splitting Tensile Strength not less than (0.40 – 0.49 MPa) conforming ASTM C1660, maintaining w/p ratio 25% - 30% and jointing adhesive mortar layer thickness of (3 mm –4 mm), (or other binding materials which comply with BNBC-2020) filling the interstices with mortar and making bond with connecting walls/ frames including necessary scaffolding, cutting and sizing AAC blocks etc. all completed by the contractor and accepted by the Engineer-in-charge.					
30.38.1.1	Ground floor	cum	6294.00	6279.00	6209.00	6209.00
30.38.1.2	Add for each additional floor above ground floor	cum	73.00	73.00	73.00	73.00
30.38.2	200 mm thick wall in super structure with Autoclaved Aerated Concrete (AAC) Block of size (600 x 200 x 200 : L x H x W) mm having Compressive Strength not less than 6 MPa, Nominal Dry Density 850 kg/m ³ and Drying Shrinkage not exceeding 0.02% conforming BNBC-2020 (ASTM C1386), laying with approved polymer modified adhesive mortar having water retention not less than 75% & average compressive strength at 28 days, min 5.2 MPa conforming					

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	ASTM C270, Splitting Tensile Strength not less than (0.40 – 0.49 MPa) conforming ASTM C1660, maintaining w/p ratio 25% - 30% and jointing adhesive mortar layer thickness of (3mm -4 mm), (or other binding materials which comply with BNBC-2020) filling the interstices with mortar and making bond with connecting walls/ frames including necessary scaffolding, cutting and sizing AAC blocks etc. all completed by the contractor and accepted by the Engineer-in-charge.					
30.38.2.1	Ground floor	cum	6759.00	6743.00	6672.00	6672.00
30.38.2.2	Add for each additional floor above ground floor	cum	73.00	73.00	73.00	73.00
30.38.3	150 mm thick wall in super structure with Autoclaved Aerated Concrete (AAC) Block of size (600 x 200 x 150 : L x H x W) mm having Compressive Strength not less than 6 MPa, Nominal Dry Density 850 kg/m ³ and Drying Shrinkage not exceeding 0.02% conforming BNBC-2020 (ASTM C1386), laying with approved polymer modified adhesive mortar having water retention not less than 75% & average compressive strength at 28 days, min 5.2 MPa conforming ASTM C270, Splitting Tensile Strength not less than (0.40 – 0.49 MPa) conforming ASTM C1660, maintaining w/p ratio 25% - 30% and jointing adhesive mortar layer thickness of (3 mm -4 mm), (or other binding materials which comply with BNBC-2020) filling the interstices with mortar and making bond with connecting walls/ frames including necessary scaffolding, cutting and sizing AAC blocks etc. all completed by the contractor and accepted by the Engineer-in-charge.					
30.38.3.1	Ground floor	cum	7717.00	7702.00	7628.00	7628.00
30.38.3.2	Add for each additional floor above ground floor	cum	73.00	73.00	73.00	73.00

..... END OF CHAPTER THIRTY.....

CHAPTER 31: SUB-SOIL INVESTIGATION WORKS & DIGITAL SURVEY

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	Percussion Method of Drilling					
31.1	Mobilization and demobilization of boring equipment and man-power: at site (drilling rig comprising drilling pipe, drop hammer, tripod, pulley, chain, wrangle, sample collection devices etc. tools and plants; tripol for temporary camp, necessary work-force etc.) (Once for one site)	per site	14702.00	14585.00	14252.00	14252.00
31.2	Sub-Soil investigation by 100 mm dia percussion wash boring including collecting disturbed and undisturbed soil samples in numbers as required for classification of soil, conducting SPT using auto trip hammer, stratification of layers, analyzing physical parameters of soils like Atterberg limits, specific gravity, grain size distribution (by wet sieve, hydrometer if required) , ground water table location, direct shear test, unconfined compression test, unit weight (dry/weight), natural moisture content ; C - ϕ values and other strength parameters to ascertain bearing capacity , skin friction, end bearings etc. at every 1.5m interval as per respective national/ international standards and entering all these data & information in necessary tables & graphs and finally furnishing them in the form of standard sub-soil investigation report with CD containing video of sub-soil investigation operation of concerned site duly signed by competent engineer & exploratory office.					
31.2.1	Bore hole depth from 0 to 20 m	per bore hole	33871.00	33722.00	33259.00	33259.00
31.2.2	Additional charge for bore hole depth above 20.0 m and up to 30.0 m	meter	495.00	491.00	480.00	480.00
31.2.3	Additional charge for bore hole depth above 30.0 m and up to 40.0 m	meter	540.00	535.00	523.00	523.00
31.2.4	Additional charge for bore hole depth above 40.0 m and up to 50.0 m	meter	570.00	565.00	553.00	553.00
31.3	Sub-soil investigation by 100 mm dia wash boring including collecting disturbed and undisturbed soil samples in numbers as required for classification of soil, conducting SPT using auto trip hammer, stratification of layers, and entering all these data & information in necessary tables & graphs, furnishing them in the form of standard sub-soil investigation report duly signed by competent engineer & exploratory office. (Only after written advice from concerned design division/circle)					
31.3.1	Bore hole depth from 0 to 20m	per bore hole	9300.00	9226.00	9042.00	9042.00
31.3.2	Additional charge for bore hole depth above 20.0 m and up to 30.0 m	meter	408.00	404.00	394.00	394.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
31.3.3	Additional charge for bore hole depth above 30.0 m and up to 40.0 m	meter	453.00	448.00	437.00	437.00
31.3.4	Additional charge for bore hole depth above 40.0 m and up to 50.0 m	meter	482.00	477.00	466.00	466.00
31.4	Added cost per bore hole, if the same is under water by more than 1.5 m in depth	per bore hole	6954.00	6903.00	6643.00	6643.00
	Rotary Method of Drilling					
31.5	Mobilization and demobilization of boring equipment and man-power: at site (rotary hydraulic drilling rig comprising mud pump, drilling pipe, auto trip hammer, pulley, chain, wrangle, sample collection devices (shelby tube, split spoon sampler) etc. tools and plants; tripol for temporary camp, necessary work-force etc.) (Once for one site) (Only after written advice from concerned design division/circle)	per site	25785.00	25785.00	25785.00	25785.00
31.6	Sub - Soil investigation by 100 mm dia rotary wash boring and including collecting disturbed and undisturbed soil samples in numbers as required for classification of soil, conducting SPT using auto trip hammer, stratification of layers, analyzing physical parameters of soils like Atterberg limits, specific gravity, grain size distribution (by wet sieve, hydrometer if required), ground water table location, direct shear test, unconfined compression test, unit weight (dry/weight), natural moisture content; C - ϕ values and other strength parameters to ascertain bearing capacity, skin friction, end bearings etc. at every 1.5m interval as per respective national/international standards and entering all these data & information in necessary tables & graphs and finally furnishing them in the form of standard sub-soil investigation report with CD containing video of sub-soil investigation operation of concerned site duly signed by competent engineer & exploratory office. (Only after written advice from concerned design division/circle)					
31.6.1	Bore hole depth from 0 to 20 m	per bore hole	52846.00	52846.00	52846.00	52846.00
31.6.2	Additional charge for bore hole depth above 20.0 m and up to 30.0 m	meter	900.00	900.00	900.00	900.00
31.6.3	Additional charge for bore hole depth above 30.0 m and up to 40.0 m	meter	1028.00	1028.00	1028.00	1028.00
31.6.4	Additional charge for bore hole depth above 40.0 m and up to 50.0 m	meter	1159.00	1159.00	1159.00	1159.00
	Downhole Seismic Testing					
31.7	Mobilization of downhole seismic testing equipments such as a hammer weighing 10 lb, a wooden Beam of L= 2.40 m and B & t = 150 mm, Receiver borehole pick with	per test	9734.00	9734.00	9734.00	9734.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	3D geophones to measure the velocity and travel time of P and S wave inside the borehole and 2nos. 1D Geophone to measure surface velocity of P and S wave. Trigger: Sending signal to control unit to record First Arrival Time (FAT) and velocity of P and S wave. Control and Processing Unit with Laptop (Only after written advice from concerned design division/circle)					
31.8	Downhole Seismic Testing- The test is to be conducted in accordance to ASTM D7400-08 to determine the interval velocities (VS & VP) from arrival times of compression (P) and shear (S) seismic waves which are generated near surface and travel down to an array of vertically installed seismic sensors. This item includes the necessary cost for entering all these data & information in necessary tables & graphs and finally furnishing them in the form of standard sub-soil investigation report with CD containing video of sub-soil investigation operation of concerned site duly signed by competent engineer & exploratory office. (Only after written advice from concerned design division/circle)					
31.8.1	For first test	per test	125541.00	125541.00	125541.00	125541.00
31.8.2	For each consecutive test after first test	per test	113283.00	113283.00	113283.00	113283.00
31.9	Conducting plate load test as per ASTM D1194 or equivalent standard providing required arrangement of three circular steel plates with minimum thickness of 25 mm and varying in diameter from 305 mm to 762 mm respectively or square steel bearing plates of equivalent area for minimum 50 tons loading capacity of hydraulic or mechanical jack assembly and applying load in 2 cycles with maintaining time interval of each loading increment of not less than 15 minutes. Continue each test until a peak load is reached or until the ratio of load increment to settlement increment reaches a minimum, steady magnitude. If sufficient load is available, continue the test until the total settlement reaches at least 10 percent of the plate diameter, unless a well defined failure load is observed and all other required materials, excavation, protection against collapse, preparation of test pit, calibration of hydraulic jacks with pressure gauge (with an error not exceeding $\pm 2\%$ of the load increment used) & dial gauges (an accuracy of at least 0.25 mm.) including plants and equipment, platform for loading & unloading, mobilization, demobilization, hire charge of load testing equipment (joist, jacks and other necessary devices), gunny bags, filling with sand & stitching gunny bags, execution of tests by engineer, data acquisition and preparation of test results in standard forms and other incidental charges as per standard practice and procedures including submission of plate load test report, furnishing all graphs and charts and with CD containing video of sub-soil investigation operation of concerned site, all complete and accepted by the Engineer-in-charge. At least 03 no of tests must be conducted at one site. (Only after written advice from concern design division/circle)	per test	90549.00	90288.00	88908.00	88908.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
31.9.1	Per test rate for conducting additional plate load test at the same site after first 03 (Three) tests.	per test	28520.00	28222.00	27101.00	27101.00
31.9.2	Additional charge per km (beyond 25 Km) outside Dhaka city (two ways)/any city for mobilization & demobilization	per km	193.00	193.00	193.00	193.00
31.10	Carrying out different tests on soil samples in BUET laboratory collected from the sub-soil investigation site accepted by the Engineer-in-Charge. (Only after written advice from concern design division/circle)					
31.10.1	Void ratio	per set of test	7700.00	7700.00	7700.00	7700.00
31.10.2	Organic matter content	per set of test	4500.00	4500.00	4500.00	4500.00
31.10.3	Permeability for cohesive soil	per set of test	24000.00	24000.00	24000.00	24000.00
31.10.4	Permeability non-cohesive soil	per set of test	9500.00	9500.00	9500.00	9500.00
31.10.5	Consolidation test for cohesive soil	per set of test	24000.00	24000.00	24000.00	24000.00
31.10.6	Triaxial shear Test					
31.10.6.1	Consolidated undrained triaxial test with pore pressure for cohesive and non cohesive soil	per set of test	52000.00	52000.00	52000.00	52000.00
31.10.6.2	Consolidated undrained triaxial test without pore pressure for cohesive soil	per set of test	46000.00	46000.00	46000.00	46000.00
31.10.6.3	Consolidated drained triaxial test	per set of test	52000.00	52000.00	52000.00	52000.00
31.10.6.4	Unconsolidated undrained triaxial test without pore pressure	per set of test	24000.00	24000.00	24000.00	24000.00
31.10.7	One dimensional swelling/ settlement potential of cohesive soil.	per set of test	10000.00	10000.00	10000.00	10000.00
31.10.8	Modified proctor compaction test	per set of test	20000.00	20000.00	20000.00	20000.00
	Detail digital topographic & physical feature survey					
31.11.1	Mobilization and demobilization of survey equipment and man-power: survey equipment comprising Total Station, RTK-GPS, level machine, Prism with stand, Tripod and others necessary tools & plants, triple for temporary camp and necessary work-force.	per site	11390.00	11390.00	11257.00	11257.00
31.11.2	Detail digital topographic & physical feature survey of project area. The survey will cover the location and alignment of all topographic features inside the project area	per Acre	14955.00	16291.00	16157.00	16157.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	such as: Boundary, roads, exposed surface drains, walk ways, existing physical features such as trees, structures, exposed utility network etc. Spot land levels of the project area will be surveyed for contouring@ 5 m c/c. GPS should be used for establishing co-ordinate of global axis-Latitude/Longitude. Total station should be used for survey of spot level, detailed physical features etc. Field data shall be processed in GIS or Auto CAD Software. Finally layout map with all topographic and physical features shall be prepared using Auto CAD Software. All data & maps should be Submitted both in hard and soft format in 5 (five) copy.					

..... END OF CHAPTER THIRTY ONE.....

CHAPTER 32: REPAIR WORKS

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
32.1	Stripping of unserviceable plaster including racking out joints, cleaning etc.	sqm	32.00	31.00	29.00	29.00
32.2.1	Picking-up of unserviceable patent stone from floor and dado etc. and removal of debris to a safe distance.	sqm	48.00	47.00	44.00	44.00
32.2.2	Picking-up of unserviceable tiles including bonding mortar from floor, walls and dado etc. and removal of debris to a safe distance.	sqm	63.00	61.00	58.00	58.00
32.3	Picking up of damaged/unserviceable terraced (lime concrete) floor or roof etc. and removal of debris to a safe distance.	sqm	67.00	65.00	61.00	61.00
32.4	Dismantling of unserviceable/damaged terraced roof including beam, column, barga & tiles etc. and removal of debris to a safe distance.	sqm	169.00	166.00	157.00	157.00
32.5.1.1	Dismantling of unserviceable/damaged brick works (with cement or lime mortar) of thickness 250 mm in foundation and superstructure and removal of debris to a safe distance.	cum	553.00	539.00	504.00	504.00
32.5.1.2	Dismantling of unserviceable/damaged brick works (with cement or lime mortar) of thickness 75/125 mm in foundation and superstructure and removal of debris to a safe distance.	sqm	64.00	63.00	58.00	58.00
32.5.2	Dismantling of plain concrete made of lime or cement and removal of debris to a safe distance.	cum	1693.00	1651.00	1545.00	1545.00
32.5.3	Dismantling of brick flat soling and removal of debris to a safe distance and removal of debris to a safe distance.	sqm	18.00	18.00	17.00	17.00
32.5.4	Dismantling of H.B.B. Brick soling and removal of debris to a safe distance and removal of debris to a safe distance.	sqm	24.00	24.00	22.00	22.00
32.6.1.1	Dismantling of R.C.C. beam, lintel, column, drop wall, sun shade from any height and removal of debris to a safe distance.	cum	4037.00	3947.00	3713.00	3713.00
32.6.1.2	Dismantling of R.C.C. Railing of any kind, jally brickwork, and hollow block wall from any height and removal of debris to a safe distance.	sqm	224.00	219.00	207.00	207.00
32.6.2	Dismantling of R.C.C. in roof slab and removal of debris to a safe distance.	cum	3412.00	3334.00	3150.00	3150.00
32.6.3	Recovery of reinforcing bars and metals during dismantling of RCC including cleaning, making bundle, stacking or storing as per direction of engineer in charge and removal of debris to a safe distance.	quintal	568.00	555.00	517.00	517.00
32.6.4	Recovery of bricks during dismantling of brick works including cleaning, stacking or storing etc. all complete as per direction of engineer in charge and removal of debris to a safe distance.	% 0 nos	1526.00	1498.00	1387.00	1387.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
32.6.5	Recovery of bricks during dismantling of soling including cleaning, stacking or storing all complete as per direction of engineer-in-charge and removal of debris to a safe distance.	% 0 nos	1027.00	1008.00	933.00	933.00
32.6.6	Recovery of brick bats during dismantling of soling, brick works, HBB etc. including cleaning, stacking or storing as per direction of engineer in charge and removal of debris to a safe distance.	cum	257.00	252.00	233.00	233.00
32.7	Repairs to minor/ fine (non-structural affecting aesthetic) cracks in brick walls, floor and roof etc.	meter	43.00	43.00	40.00	40.00
32.8.1	Cutting and polishing of old mosaic on wall with pumice stone etc.	sqm	103.00	100.00	95.00	95.00
32.8.2	Cutting and polishing of old mosaic on floor with pumice stone and mosaic cutting machine etc.	sqm	115.00	113.00	109.00	109.00
32.8.3	Cleaning and washing the mosaic floor etc.	sqm	20.00	20.00	19.00	19.00
32.8.4	Cleaning and refilling of wornout joints between glazed tiles, marble etc. in floor or walls.	sqm	73.00	71.00	67.00	67.00
32.9	Repairing of terraced roof cracks by cutting in 'trapezoided' shape	meter	565.00	556.00	524.00	524.00
32.10	Taking out and relaying of old brick soling including replacement of 10% brick	sqm	143.00	142.00	134.00	134.00
32.11	Taking out and relaying of brick soling after redressing the surfaces	sqm	87.00	86.00	80.00	80.00
32.12.1	Taking out of old brick on edge pavement and resetting (Herring bone bond) including replacement of 10% brick	sqm	235.00	233.00	219.00	219.00
32.12.2	Taking out of old brick on edge pavement and resetting Herring bone bond and redressing the surface	sqm	121.00	119.00	110.00	110.00
32.13	Taking out of old roof tiles and ridges	sqm	69.00	66.00	63.00	63.00
32.14	Supplying and fitting-fixing of wind tie with M.S. Flat bar clamp	meter	585.00	582.00	569.00	569.00
32.15	Supplying and fitting-fixing of J-hook including nuts, washers	each	57.00	57.00	56.00	56.00
32.16	Supplying and fitting-fixing of M.S. U-hook including nuts, washers	each	76.00	76.00	75.00	75.00
32.17	Taking out of old & unserviceable wooden chowkat/ door or window frame	each	337.00	327.00	309.00	309.00
32.18	Taking out of old wooden chowkat/door or window frame and refitting and refixing after minor repair (excluding the cost of wood and M.S. clamp)	each	1087.00	1071.00	999.00	999.00
32.19	Taking out and refitting of wooden shutter after easing excluding the cost of wood	sqm	462.00	457.00	425.00	425.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
32.20.1	Thorough repairs to wooden door and window Panel shutter excluding the cost of wood	sqm	750.00	743.00	691.00	691.00
32.20.2	Thorough repairs to wooden door and window Batten shutter excluding the cost of wood	sqm	696.00	690.00	643.00	643.00
32.20.3	Thorough repairs to wooden door and window Venetian shutter excluding the cost of wood	sqm	675.00	669.00	622.00	622.00
32.20.4	Thorough repairs to wooden door and window Glazed shutter excluding the cost of glass & wood	sqm	645.00	639.00	594.00	594.00
32.21.1	Renewing of 3 mm glass panes in wooden frame including supply of glass	sqm	1053.00	1048.00	1028.00	1028.00
32.21.2	Renewing of 3 mm glass panes in steel frame including supply of glass	sqm	1161.00	1156.00	1134.00	1134.00
32.22	Renewing of 5 mm glass panes including supply of glass	sqm	1385.00	1381.00	1366.00	1366.00
32.23	Cleaning and washing of glass panes including supply of necessary fresh putty, pins etc.	per pane	4.00	4.00	3.00	3.00
32.24.1	Replacing/ renewing of fly proof wire net (with all new materials) the excluding cost of wood	sqm	789.00	788.00	746.00	746.00
32.24.2	Replacing/ renewing of synthetic fly proof net (with all new materials) the excluding cost of wood	sqm	818.00	817.00	774.00	774.00
32.25	Renewing of fly proof wire netting (with old and new materials) the excluding cost of wood	sqm	758.00	757.00	714.00	714.00
32.26	Renewing of 12 mm x 12 mm mesh wire netting the excluding cost of wood	sqm	647.00	647.00	612.00	612.00
32.27	Taking out of hard board ceiling, walling	sqm	22.00	22.00	20.00	20.00
32.28	Renewing of hard board ceiling or walling excluding cost of wood	sqm	675.00	674.00	646.00	646.00
32.29	Replacing of wooden cleat, making, finishing and fixing with chowkat by means of 40 mm hinge	each	82.00	81.00	81.00	81.00
32.30	Replacing of cleat with brass hinge	each	91.00	91.00	90.00	90.00
32.31	Replacing of wooden buffer block	each	61.00	61.00	61.00	61.00
32.32	Replacing of wooden catcher block	each	91.00	90.00	91.00	91.00
32.33.1	Replacing of 75 mm long galvanized iron catch hook	each	17.00	17.00	17.00	17.00
32.33.2	Replacing of 100 mm long galvanized iron catch hook	each	20.00	20.00	19.00	19.00
32.33.3	Replacing of 150 mm long galvanized iron catch hook	each	22.00	22.00	22.00	22.00
32.33.4	Replacing of 200 mm long galvanized iron catch hook	each	25.00	25.00	24.00	24.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
32.33.5	Replacing of 225 mm long galvanized iron catch hook	each	32.00	32.00	32.00	32.00
32.34	Replacing of iron socket bolt : 50 mm dia, 100 mm long	each	31.00	31.00	30.00	30.00
32.35.1	Replacing of SS socket bolt : 50 mm dia, 100 mm long (SS)	each	67.00	67.00	66.00	66.00
32.35.2	Replacing of iron socket bolt : 50 mm dia, 150 mm long	each	37.00	37.00	36.00	36.00
32.35.3	Replacing of SS socket bolt : 50 mm dia, 150 mm long(SS)	each	97.00	97.00	96.00	96.00
32.35.4	Replacing of iron socket bolt : 50 mm dia, 200 mm long	each	53.00	53.00	52.00	52.00
32.35.5	Replacing of SS socket bolt : 50 mm dia, 200 mm long(SS)	each	121.00	121.00	120.00	120.00
32.36.1	Replacing of brass socket bolt: 50 mm dia, 150 mm long	each	175.00	175.00	174.00	174.00
32.36.2	Replacing of brass socket bolt : 50 mm dia, 200 mm long	each	223.00	223.00	222.00	222.00
32.36.3	Replacing of brass socket bolt : 50 mm dia, 250 mm long	each	274.00	274.00	273.00	273.00
32.37.1	Replacing of 75 mm long iron hinge	each	54.00	54.00	53.00	53.00
32.37.2	Replacing of 100 mm long iron hinge	each	84.00	84.00	83.00	83.00
32.38.1	Replacing of 75 mm long brass hinge	each	169.00	169.00	168.00	168.00
32.38.2	Replacing of 100 mm long brass hinge	each	223.00	223.00	222.00	222.00
32.39.1	Replacing of 50 mm dia iron ring	each	33.00	33.00	32.00	32.00
32.39.2	Replacing of 50 mm dia brass ring	each	67.00	67.00	66.00	66.00
32.40.1	Supplying, fitting and fixing of 25 x 25 mm expanded mesh metal net of wooden or steel frame (excluding the cost of wood or steel sections and painting)	sqm	1138.00	1137.00	1071.00	1071.00
32.40.2	Supplying, fitting and fixing of 25 x 25 mm expanded mesh metal net in F.I. Bar frame (including the cost of F.I. Bar)	sqm	2140.00	2140.00	2055.00	2055.00
32.41.1	Renewing of white washing: 1 coat	sqm	15.00	15.00	14.00	14.00
32.41.2	Renewing of white washing: 2 coats	sqm	22.00	22.00	21.00	21.00
32.42.1	Renewing of colour washing with yellow ochre: 1 coat	sqm	24.00	24.00	22.00	22.00
32.42.2	Renewing of colour washing with yellow ochre: 2 coats	sqm	27.00	27.00	25.00	25.00
32.43.1	Renewing of Exterior standard acrylic emulsion paint of approved brand and quality	sqm	158.00	156.00	148.00	148.00
32.43.2	Renewing of Exterior premium acrylic emulsion paint of approved brand and quality	sqm	182.00	180.00	171.00	171.00
32.44.1	Renewing of standard synthetic enamel paint to door-windows frame and shutter:1coats	sqm	122.00	121.00	114.00	114.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
32.44.2	Renewing of premium synthetic enamel paint to door-windows frame and shutter: 1coat	sqm	126.00	125.00	118.00	118.00
32.45.1	Renewing of standard synthetic enamel paint to door-windows frame and shutter: 2 coat	sqm	188.00	186.00	175.00	175.00
32.45.2	Renewing of premium synthetic enamel paint to door-windows frame and shutter: 2 coat	sqm	196.00	194.00	183.00	183.00
32.46.1	Renewing of synthetic polyvinyl distemper: 1 coat	sqm	98.00	97.00	91.00	91.00
32.46.2	Renewing of synthetic polyvinyl distemper : 2 coat	sqm	142.00	140.00	131.00	131.00
32.47.1	Renewing of Interior standard acrylic emulsion paint (Plastic) to walls and ceiling: 1 coat	sqm	111.00	110.00	104.00	104.00
32.47.2	Renewing of Interior Premium acrylic emulsion painting (silky finish) to walls and ceiling: 1 coat	sqm	128.00	127.00	121.00	121.00
32.47.3	Renewing of Interior super premium acrylic emulsion painting (odorless) to walls and ceiling: 1 coat	sqm	148.00	147.00	141.00	141.00
32.48.1	Renewing of Interior standard acrylic emulsion paint (Plastic) to walls and ceiling: 2 coat	sqm	160.00	158.00	149.00	149.00
32.48.2	Renewing of Interior Premium acrylic emulsion painting (silky finish)to walls and ceiling: 2 coat	sqm	184.00	183.00	173.00	173.00
32.48.3	Renewing of Interior super premium acrylic emulsion painting (odorless) to walls and ceiling: 2 coat	sqm	204.00	203.00	194.00	194.00
32.49	Washing of painted wall surface with suitable soap or any other detergent	sqm	37.00	36.00	34.00	34.00
32.50.1	Renewing of chlorinated rubber paint: 1 coats	sqm	196.00	195.00	186.00	186.00
32.50.2	Renewing of chlorinated rubber paint: 2 coat	sqm	282.00	280.00	266.00	266.00
32.51.1	Renewing of french polishing: 1 coat	sqm	134.00	133.00	127.00	127.00
32.51.2	Renewing of french polishing: 2 coat	sqm	229.00	228.00	217.00	217.00
32.51.3	Providing of 2 coats lacquer spray painting with spray machine to high decorative Teak or similar wooden furniture	sqm	186.00	185.00	179.00	179.00
32.52.1	Renewing of painting with synthetic black enamel Paint to plinth and skirting: 1 coat	sqm	121.00	120.00	113.00	113.00
32.52.2	Renewing of painting with synthetic black enamel Paint to plinth and skirting: 2 coat	sqm	172.00	171.00	162.00	162.00
32.53	Renewing of painting to C.I. Roof with red corrugal paint: 2 coats	sqm	167.00	165.00	156.00	156.00
32.54.1	Renewing earth oiling with solignum or equivalent materials: 1 coat	sqm	100.00	99.00	93.00	93.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
32.54.2	Renewing earth oiling with solignum or equivalent materials: 2 coat	sqm	149.00	148.00	139.00	139.00
32.55.1	Renewing of wood varnishing with varnish (yacht)	sqm	120.00	119.00	113.00	113.00
32.55.2	Renewing of wood varnishing with varnish (egg-shell)	sqm	127.00	126.00	119.00	119.00
32.55.3	Renewing of wood varnishing with varnish (matt)	sqm	128.00	127.00	121.00	121.00
32.56	Scrapping of old paint from wood	sqm	49.00	48.00	44.00	44.00
32.57	Scrapping of old mosses from wall and roof	sqm	35.00	35.00	32.00	32.00
32.58	Renewing of painting to old 100 mm dia rain-water pipe	meter	40.00	39.00	37.00	37.00
32.59	Renewing of painting to old 50mm dia G.I. Pipe: 1 coat	meter	20.00	20.00	19.00	19.00
32.60	Stopping of roof leakage of C.I. sheet roof with putty	sqm	33.00	32.00	30.00	30.00
32.61	Labour for taking out C.I. sheet roofing	sqm	41.00	40.00	38.00	38.00
32.62	Labour for taking out and refitting of old G.I. Ridge/valley	meter	164.00	163.00	151.00	151.00
32.63	Labour for C.I. Sheet roofing including supply of limpet, washer, screws, putty etc.	sqm	130.00	128.00	118.00	118.00
32.64	Labour for C.I. Sheet walling including supply of limpet, washer, screws, putty etc.	sqm	98.00	96.00	89.00	89.00
32.65	Labour for taking out barbed wire fencing	meter	9.00	9.00	9.00	9.00
32.66	Labour charge for refitting of barbed wire fencing	meter	20.00	19.00	18.00	18.00
32.67	Labour charge for tightening of old loose barbed wire fencing	meter	2.00	2.00	2.00	2.00
32.68	Renewing, supplying and fitting-fixing of 300 mm long F.I. Clamp in CC (1:2:4)	each	119.00	119.00	115.00	115.00
32.69	Renewing, supplying and fitting-fixing of 150 mm long F.I. Clamp in CC (1:2:4)	each	81.00	80.00	77.00	77.00
32.70	Cutting jungles and shrub including removing and cleaning the spot/site	sqm	7.00	7.00	6.00	6.00
32.71	Supplying of the following items related to ARBORICULTURE work approved by the officer-in-charge					
32.71.1	200mm size earthen tub	each	53.00	53.00	53.00	53.00
32.71.2	250mm size earthen tub	each	63.00	63.00	63.00	63.00
32.71.3	300mm size earthen tub	each	88.00	88.00	88.00	88.00
32.71.4	350mm size earthen tub	each	120.00	120.00	120.00	120.00
32.71.5	400mm size earthen tub	each	208.00	208.00	208.00	208.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	Rajshahi, Rangpur
32.71.6	300 mm x 300 mm size earthen plate	each	38.00	38.00	38.00	38.00
32.71.7	Supply of mustard oil-cake	kg	58.00	58.00	58.00	58.00
32.71.8	Supply of Bone mele	kg	57.00	57.00	57.00	57.00
32.71.9	Supply of steel spade	each	568.00	568.00	568.00	568.00
32.71.10	Supply of Urea fertilizer	kg	32.00	32.00	32.00	32.00
32.71.11	Supply of Murate of potash	kg	28.00	28.00	28.00	28.00
32.71.12	Supply of T. S. P.	kg	38.00	38.00	38.00	38.00
32.71.13	Supply of 5 liter capacity spray machine (plaotic)	each	2270.00	2270.00	2270.00	2270.00
32.71.14	Supply of 450 mm size Steel funna with wooden handle	each	467.00	467.00	467.00	467.00
32.71.15	Supply of 225 mm long hand hoe with wooden handle	each	126.00	126.00	126.00	126.00
32.71.16	Supply of standard steel hand trolly as per direction of officer-in-charge	each	7819.00	7819.00	7819.00	7819.00
32.71.17	Supply of China made or equivalent Hedge Scissors	each	1513.00	1513.00	1513.00	1513.00
32.71.18	Supply of 250 mm size China made or equivalent Secature	each	820.00	820.00	820.00	820.00
32.71.19	Supply of 2.5 gallon capacity 22 BWG G.I. Water cane	each	441.00	441.00	441.00	441.00
32.71.20	Supply of 350 mm size G.I. bucket	each	353.00	353.00	353.00	353.00
32.71.21	Supply of best quality 19 mm dia plastic hose pipe	each	23.00	23.00	23.00	23.00
32.71.22	Supply of insecticide perfectthion 40 EC 1 pics, 100ml bottle	each	309.00	309.00	309.00	309.00
32.71.23	Supply of Redomil gold 68WG (metalexil+mencojeb) 1 pack, 500gm pack	each	1040.00	1040.00	1040.00	1040.00
32.71.24	Supply of Ripcord 400EC, 1 pics, 100ml bottle	each	277.00	277.00	277.00	277.00
32.71.25	Supply of Proclaim 5SG (emamectin benzoet) 1 box, (10 pack, each pack 10gm)	each	801.00	801.00	801.00	801.00
32.71.26	Supply of Vertimec 018ECG (ebamectin) 1 pics, 50ml bottle	each	151.00	151.00	151.00	151.00
32.72	Painting to earthen tub: 2 coats over a prime coat					
32.72.1	200mm and 250mm size tub	each	22.00	22.00	21.00	21.00
32.72.2	300 mm, 350mm and 400 mm size tub	each	36.00	35.00	34.00	34.00
32.73.1	Levelling & dressing the compound or plant/flower bed as per direction of Engineer-in-charge.	sqm	10.00	9.00	9.00	9.00
32.73.2	Lawn grass cutting, dressing, brooming and removing debris etc. as per direction of Officer in charge	sqm	17.00	17.00	16.00	16.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
32.73.3	Spading, pulverizing soil lump etc. as per direction of Engineer-in-charge.	sqm	6.00	6.00	5.00	5.00
32.74.1	Labour for picking-up and cleaning damaged bituminous road surface.	sqm	79.00	78.00	72.00	72.00
32.74.2	Repairing the potholes of the road by picking up and removing damaged materials with stone chips.	cum	35563.00	35290.00	34037.00	33639.00
31.75	Applying necessary coat of bituminous aluminium paint seal-coat on top surface of newly laid roofing felt.	sqm	109.00	108.00	104.00	104.00
32.76.1	Supplying timber (unfinished) for repairing in wood works: Garjan/ Jam/ local Sal.	cum	97979.00	93526.00	100206.00	100206.00
32.76.2	Supplying timber (unfinished) for repairing in wood works: Jarul.	cum	80165.00	80165.00	80165.00	80165.00
32.76.3	Supplying timber (unfinished) for repairing in wood works: Shilkorai/ Chickrashi.	cum	111340.00	111340.00	111340.00	111340.00
32.76.4	Supplying timber (unfinished) for repairing in wood works: Teak Chambal.	cum	164784.00	160330.00	167011.00	167011.00
32.76.5	Supplying timber (unfinished) for repairing in wood works: Chattogram Teak.	cum	195959.00	191505.00	204822.00	204822.00
32.76.6	Supplying timber (unfinished) for repairing in wood works: Kathal.	cum	106887.00	106887.00	106887.00	106887.00
32.76.7	Supplying timber (unfinished) for repairing in wood works: Gamari.	cum	84619.00	80165.00	89072.00	89072.00
32.76.8	Supplying timber (unfinished) for repairing in wood works: Chapalish.	cum	102433.00	97979.00	106887.00	106887.00
32.76.9	Supplying timber (unfinished) for repairing in wood works: Loha/ Pyiankado.	cum	120248.00	120248.00	120248.00	120248.00
32.76.10	Supplying timber (unfinished) for repairing in wood works: Myanmar (Burma) teak.	cum	316207.00	311753.00	320660.00	320660.00
32.76.11	Supplying timber (unfinished) for repairing in wood works: Ordinary timber (Mehogoni).	cum	89072.00	89072.00	89072.00	89072.00
32.77	Labour charge for cleaning, washing, brooming from all heights and stacking of debris at a place beyond plinth area of the site during execution of repair works as per direction of the Engineer-in-charge.	cum	1491.00	1464.00	1356.00	1356.00
32.78	Cleaning, washing, brooming and taking away of debris from the site during and or after the completion of the repair works in all heights by truck or by any other means as per direction of the Engineer-in-charge.	cum	830.00	820.00	778.00	778.00
32.79	Repairing of steel grill/ window frame and shutter/ stair railing, veranda grill, rolling shutter excluding the cost of steel materials.	sqm	941.00	927.00	862.00	862.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	Rajshahi, Rangpur
32.80	Supply of steel materials for repairing work:					
32.80.1	40-grade deform bar	kg	101.00	101.00	101.00	101.00
32.80.2	60-grade deform bar	kg	112.00	112.00	112.00	112.00
32.80.3	M.S. angle, T, and Z - section, Channel etc.	kg	88.00	88.00	88.00	88.00
32.80.4	M.S. plain bar, F.I. Bar	kg	88.00	88.00	88.00	88.00
32.80.5	M.S. sheet, plate used in repairing work	kg	97.00	97.00	97.00	97.00
32.80.6	38mm dia G.I. Pipe used in repairing work	meter	724.00	724.00	724.00	724.00
32.80.7	25mm dia G.I. Pipe used in repairing work	meter	331.00	331.00	331.00	331.00
32.80.8	20 mm dia G.I. Pipe used in repairing work	meter	339.00	339.00	339.00	339.00
32.80.9	12mm dia G.I. Pipe used in repairing work	meter	252.00	252.00	252.00	252.00
32.80.10	Spring for rolling shutter used in repairing work	meter	74.00	74.00	74.00	74.00
32.80.11	Spring box for rolling shutter used in repairing work	each	164.00	164.00	164.00	164.00
32.81	Cleaning and mending good the damages surrounding the mouth of spout/rain water down pipe	each	177.00	175.00	163.00	163.00
32.82	Cleaning rain water down pipe	meter	6.00	6.00	6.00	6.00
32.83	Cleaning, renewing of drain and apron with cement concrete or cement mortar etc. as per direction of Engineer-in-charge.	meter	262.00	261.00	249.00	249.00
32.84.1	Re-excavation of kutchra drain of 0.30 m width and average 0.6 m deep	meter	32.00	31.00	29.00	29.00
32.84.2	Re-excavation of kutchra drain of 0.61 m width and average 1.22 m deep	meter	129.00	126.00	117.00	117.00
32.85	Clearing choked up masonry surface drain	meter	32.00	31.00	29.00	29.00
32.86	Clearing silt from soak well up to 1.4 m dia	each	2157.00	2154.00	2018.00	2018.00
32.87	Clearing sludges & night soil from septic tank removing to a safe place/distance without affecting environment					
32.87.1	10 user septic tank	each	2459.00	2447.00	2333.00	2333.00
32.87.2	20 user septic tank	each	3468.00	3455.00	3279.00	3279.00
32.87.3	30 user septic tank	each	3973.00	3960.00	3752.00	3752.00
32.87.4	50 user septic tank	each	6243.00	6230.00	5927.00	5927.00
32.87.5	100 user septic tank	each	10783.00	10770.00	10278.00	10278.00
32.87.6	200 user septic tank	each	18854.00	18841.00	18034.00	18034.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
32.87.7	Clearing sewage or similar hazardous substances & removing to a safe place/ distances	cum	1734.00	1728.00	1639.00	1639.00
32.88	Clearing sludges & night soil from Inspection pit	each	539.00	539.00	504.00	504.00
32.89	Clearing sludges & night soil from RCC soil pipe & sewer line	meter	114.00	114.00	108.00	108.00
32.90	Supplying, fitting, fixing of 400 gallon capacity ferro-cement water tank	each	9774.00	9761.00	9711.00	9711.00
32.91	Taking out 40 mm dia tube-well pipe and strainer up to 70 m depth	meter	124.00	122.00	114.00	114.00
32.92	Labour for re-sinking 40 mm dia tube-well pipe	meter	336.00	332.00	308.00	308.00
32.93	Renewing Check Valve	each	1028.00	1024.00	1009.00	1009.00
32.94	Renewing of 40 mm dia best quality G.I. Socket	each	277.00	275.00	265.00	265.00
32.95	Taking out broken Long Pan	each	224.00	217.00	205.00	205.00
32.96	Taking out broken European type Commode	each	207.00	201.00	189.00	189.00
32.97	Providing 37 mm dia and 600 mm long PVC spout	each	260.00	257.00	245.00	245.00
32.98	Providing 25 mm dia and 450 mm long PVC spout	each	258.00	254.00	239.00	239.00
32.99	Supplying and fitting-fixing of plastic low-down including necessary internal and external fittings	each	1952.00	1946.00	1892.00	1892.00
32.100	Supplying and fitting fixing of syphone for plastic low-down	each	829.00	828.00	808.00	808.00
32.101	250mm and above thick brick work (1:6) in old/ unserviceable septic tank	cum	10276.00	10233.00	9793.00	9793.00
32.102	125mm thick brick work (1:6) in old/ unserviceable septic tank	sqm	1587.00	1579.00	1508.00	1508.00
32.103	12 mm plaster (1:4) with neat cement finishing in old/ dilapidated septic tank	sqm	512.00	503.00	477.00	477.00
32.104	Hire charge of welding set including welder cum fabricator and helper	per day	1794.00	1778.00	1649.00	1649.00
32.105	Hire charge of suspended scaffolding (gondula) made of rope	per day	441.00	439.00	429.00	429.00
32.106	Per day rate for Aluminium fabricator (labour rate)	per day	1513.00	1513.00	1513.00	1513.00
32.107	Supply of essential hard wares and consumables for repairing aluminium door-window frame and shutter, partition etc.					
32.107.1	Swing door closure	each	4036.00	4036.00	4036.00	4036.00
32.107.2	Swing door lock	each	946.00	946.00	946.00	946.00
32.107.3	Swing door Mohiar	meter	21.00	21.00	21.00	21.00
32.107.4	Fixed Neoprene	meter	12.00	12.00	12.00	12.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	Rajshahi, Rangpur
32.107.5	Flush bolt	each	404.00	404.00	404.00	404.00
32.107.6	Sliding door/ window key lock	each	252.00	252.00	252.00	252.00
32.107.7	Sliding door/ window wheel	each	101.00	101.00	101.00	101.00
32.107.8	Sliding door/ window Mohiar	meter	6.00	6.00	6.00	6.00
32.107.9	Sliding Neoprene	meter	12.00	12.00	12.00	12.00
32.107.10	Sealant	gm	4.00	4.00	4.00	4.00
32.107.11	Sliding door key lock (for window)	each	114.00	114.00	114.00	114.00
32.107.12	4-bar hinge	each	946.00	946.00	946.00	946.00
32.107.13	Casement handle	each	318.00	318.00	318.00	318.00
32.107.14	Rivet for Aluminium work	each	6.00	6.00	6.00	6.00
32.107.15	Screws for Aluminium work	each	1.50	1.50	1.50	1.50
32.108	Cleaning over head water reservoir and removing the waste to safe place/ distance from building site without affecting the environment etc. all completed as per direction of Engineer-in-charge.	per gallon	1.02	1.01	0.96	0.96
32.109	Cleaning under ground water reservoir and removing the waste to safe place/ distance from building site without affecting the environment etc. all completed as per direction of Engineer-in-charge. (If water reservoir tank capacity is more than 10,000 gallon then unit price for additional gallon will be reduced by @ 25% of unit price)	per gallon	0.89	0.88	0.85	0.85
32.110	Cleaning and removing inside rust from existing old GI pipe of different dia meter etc. all completed as per direction of Engineer-in-charge.	per meter	4.30	4.20	4.00	4.00
32.111	Taking out old unserviceable MS window shutter/grill etc. all completed as per direction of Engineer-in-charge.	each	208.00	204.00	195.00	195.00
32.112	Taking out unserviceable old MS collapsible gate and refitting after minor repair (excluding cost of material) etc. all completed as per direction of Engineer-in-charge.	each	2684.00	2646.00	2523.00	2523.00
32.113	Picking & uprooting unwanted tree, plants etc. from building /structure and removing to safe distance from building/structure and using chemicals to prevent further growing up. All completed as per direction of Engineer- in charge.	each	249.00	246.00	233.00	233.00
32.114	Sanitary blockage removal of Combi-closet, commode, Long Pan etc. all completed as per direction of Engineer-in-charge.	each	378.00	378.00	363.00	363.00
32.115	Sanitary blockage removal of Basin, Sink, waste water down pipe etc. all completed as per direction of Engineer-in-charge.	each	164.00	164.00	158.00	158.00

Item No	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
32.116	Writing & providing of name plate or Flat/ Room numbering on Acrylic transparent sheet including fitting fixing etc. all completed as per direction of Engineer-in-charge.	each	1539.00	1539.00	1532.00	1532.00
32.117	Hire charge of mechanical gondola for repair work of high rise building height above 20 meter etc. all completed as per direction of Engineer-in-charge.	per day	2522.00	2522.00	2459.00	2459.00
32.118	Taking out old unserviceable Aluminium Door/ window frame and shutter etc. all completed as per direction of Engineer-in-charge.	each	252.00	247.00	233.00	233.00

..... END OF CHAPTER THIRTY TWO.....

CHAPTER 33: ADDED RATE FOR INACCESSIBLE AREAS

* Following Added Rate will be applied on each item of this PWD SoR 2022 (Civil Works) according to Inaccessible Areas Listed in the category.

Category	Upazilla/ Area	District	Added Rate (%)
A (Accessibility with moderate difficulty)	Lama	Bandarban	5%
	Ali Kadam		
	Naikhongchori		
B (Accessibility with high difficulty)	Roangchori	Bandarban	10%
	Ruma		
	Thanchi		
	Barkal	Rangamati	
	Juraichari		
	Bilaichari		
	Longodu		
	Baghaichari		
	Hatia	Noakhali	
	Nijhum Dwip		
	Kutubdia	Cox's Bazar	
	Sandeep	Chattogram	
C (Accessibility with extreme difficulty)	Saint Martin's Island	Cox's Bazar	15%

..... END OF CHAPTER THIRTY THREE.....