

PWD SCHEDULE OF RATES 2022 (REVISED)

PART C: RETROFITTING WORKS

FIRST EDITION

**PUBLIC WORKS DEPARTMENT
GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH**

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Written suggestions on ***PWD Schedule of Rates 2022 (Revised) Part C: Retrofitting Works*** may please be addressed to

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উপ-সচিব (উন্নয়ন-১) এর দপ্তর
গৃহায়ন ও গণপূর্ত মন্ত্রণালয়
তারিখ: ২১/৬/২০২২
সিনিয়র সহকারী (সচিব)
বাংলাদেশ সরকার
সিনিয়র সহকারী প্রধান-১/২/৩
ব্যক্তিগত কর্মকর্তা

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
ব্যয় ব্যবস্থাপনা শাখা-৫
www.mof.gov.bd



তারিখ: ২১ জুন ২০২২ খ্রিস্টাব্দ
০৭ আষাঢ় ১৪২৯ বঙ্গাব্দ

বিষয়: গণপূর্ত অধিদপ্তরের দর তফসিল (Schedule of Rates) - ২০২২ সংক্রান্ত।

সূত্র: গৃহায়ন ও গণপূর্ত মন্ত্রণালয়ের পত্র নং- ২৫.০০.০০০০.০৩১.১৪.০০৩.২০২২-০৭৯, তারিখ: ২৮/০২/২০২২

উপর্যুক্ত বিষয় ও সূত্রস্ব পত্রের প্রেক্ষিতে গণপূর্ত অধিদপ্তরের কার্যক্রম পরিচালনা/সম্পাদনের লক্ষ্যে আন্তঃমন্ত্রণালয় কারিগরী কমিটি কর্তৃক সুপারিশকৃত গণপূর্ত অধিদপ্তরের দর তফসিল-২০২২ বাস্তবায়নে নিম্নোক্ত শর্তে অর্থ বিভাগের সম্মতি নির্দেশক্রমে জ্ঞাপন করা হলো:

শর্তাবলী:

- এ দর তফসিল “গণপূর্ত অধিদপ্তরের দর তফসিল-২০২২ (Part-A-‘Civil Works’; Part-B-‘Electro Mechanical Works’; Part-C-‘Retrofitting’;)” নামে অভিহিত হবে;
- সময়ে সময়ে অর্থ বিভাগ কর্তৃক পুনঃনির্ধারণকৃত দর উপর্যুক্ত Schedule of Rates এর ক্ষেত্রেও প্রযোজ্য হবে;
- দর তফসিলের অন্তর্ভুক্ত আইটেমসমূহের ক্ষেত্রে সময়ে সময়ে জাতীয় রাজস্ব বোর্ড কর্তৃক নির্ধারিত মূল্য সংযোজন কর (ভ্যাট), আয়কর, শুল্ক ও অন্যান্য ডিউটি প্রযোজ্য হবে;
- আইটেম সমূহের স্পেসিফিকেশন বাংলাদেশ ন্যাশনাল বিল্ডিং কোড (বিএনবিসি) এবং দেশে প্রচলিত অন্যান্য কোডসমূহ অনুসরণ করতে হবে;
- দর তফসিল অনুযায়ী প্রাক্কলন প্রণয়ন ও অন্যান্য কাজ সম্পাদনে জেনারেল ফাইন্যান্সিয়াল রুলস (জিএফআর), পাবলিক প্রকিউরমেন্ট আইন-২০০৬, পাবলিক প্রকিউরমেন্ট বিধিমালা-২০০৮-সহ যাবতীয় আর্থিক বিধি-বিধান প্রতিপালন করতে হবে।
- বিশেষ কোন কাজের ক্ষেত্রে বর্তমান দর তফসিল বহির্ভূত কোন আইটেম ব্যবহারের প্রয়োজন হলে দপ্তর/সংস্থা প্রধানের অনুমতি সাপেক্ষে প্রচলিত বাজার দর অনুযায়ী উক্ত আইটেমের বিশ্লেষণী দর অর্থ বিভাগের সর্বশেষ আর্থিক ক্ষমতা অর্পণ অনুযায়ী অনুমোদন করা যাবে।

২। উপরিউক্ত দর তফসিল আগামী ০৩ (তিন) বছর বহাল থাকবে এবং তা অবিলম্বে কার্যকর হবে।

উপ-সচিব (পরিকল্পনা) এর দপ্তর
পরিকল্পনা ও বাস্তবায়ন/অধিশাখা
ডকেট নং: ৩৮৮
তারিখ: ২১/৬/২০২২
সহকারী প্রধান: ১
সিঃ সহঃ প্রধান: ২
সিঃ সহঃ প্রধান: ৩

✓ সচিব
গৃহায়ন ও গণপূর্ত মন্ত্রণালয়
বাংলাদেশ সচিবালয়, ঢাকা।

সচিব
গৃহায়ন ও গণপূর্ত মন্ত্রণালয়
অতি: সচিব প্রা: ১/২/৩/৪/৫/৬/৭/৮/৯/১০/১১/১২
মুগাসচিব প্রা: ১/২/৩/৪/৫/৬/৭/৮/৯/১০/১১/১২
আইন উপদেষ্টা/আইন কর্মকর্তা-১/২
প্রধান প্রকৌশলী, গণপূর্ত অধিদপ্তর
প্রধান স্থপতি, স্থাপত্য অধিদপ্তর
চেম্যান, রাকটক/এনএইচ/সিউক/সিউক/সিউক/সিউক
ম্যাজিস্ট্রেট/এইবিআই/আইআই/আইআই/আইআই
সচিবের একান্ত সচিব
নং: ৩২/০৫/২২

২১/৬/২০২২
চৌধুরী আশরাফুল করিম
সিনিয়র সহকারী সচিব
ফোন: ০২-২২৩৩৫৬০৩৭
ই-মেইল: chashraf@finance.gov.bd

মুগাসচিব (উন্নয়ন: অঃ-২)
গৃহায়ন ও গণপূর্ত মন্ত্রণালয়
নং: তারিখ:
উপসচিব (উন্নয়ন: ৭/৮/৯/১৪/১৫)
সিঃ সহঃ সচিব (উন্নয়ন: ৭/৮/৯/১৪/১৫)
ব্যক্তিগত কর্মকর্তা

মুগাসচিব (উন্নয়ন ব্রাঞ্চ)
গৃহায়ন ও গণপূর্ত মন্ত্রণালয়
নং: ২০২২ তারিখ: ২১/৬/২০২২
পরিকল্পনা অধিশাখা
সিনিয়র সহকারী প্রধান-১/২/৩
ব্যক্তিগত কর্মকর্তা

২৬৪৬
২১/৬/২০২২
২০২২

(অঃপূঃ ডঃ)


গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
গৃহায়ন ও গণপূর্ত মন্ত্রণালয়
পরিকল্পনা শাখা-২

স্মারক নং- ২৫.০০.০০০০.০৩১.০০৩.২০২২- ৬২৬

তারিখ : ২৬ - ০৬ - ২০২২।
০৯ - ০৬ - ১৪২৯।

সদয় অবগতি ও পরবর্তী প্রয়োজনীয় ব্যবস্থা গ্রহণের জন্য (জ্যেষ্ঠতার ক্রমানুসারে নয়) :

১. প্রধান প্রকৌশলী, গণপূর্ত অধিদপ্তর, পূর্ত ভবন, সেগুনবাগিচা, ঢাকা।
২. প্রধান স্থপতি, স্থাপত্য অধিদপ্তর, স্থাপত্য ভবন, সেগুনবাগিচা, ঢাকা।
৩. চেয়ারম্যান, রাজধানী উন্নয়ন কর্তৃপক্ষ/জাতীয় গৃহায়ন কর্তৃপক্ষ/চট্টগ্রাম উন্নয়ন কর্তৃপক্ষ/খুলনা উন্নয়ন কর্তৃপক্ষ/রাজশাহী উন্নয়ন কর্তৃপক্ষ/কক্সবাজার উন্নয়ন কর্তৃপক্ষ।
৪. মহাপরিচালক, হাউজিং এন্ড বিল্ডিং রিসার্চ ইনস্টিটিউট, দারুস সালাম, মিরপুর, ঢাকা।
৫. পরিচালক, নগর উন্নয়ন অধিদপ্তর, সেগুনবাগিচা, ঢাকা।
৬. মাননীয় প্রতিমন্ত্রী এর একান্ত সচিব, গৃহায়ন ও গণপূর্ত মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা (মাননীয় প্রতিমন্ত্রীর সদয় অবগতির জন্য)।
৭. সচিব মহোদয়ের একান্ত সচিব, গৃহায়ন ও গণপূর্ত মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা (সচিব মহোদয়ের সদয় অবগতির জন্য)।
৮. উপসচিব (পরিকল্পনা), গৃহায়ন ও গণপূর্ত মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা।
৯. অতিরিক্ত সচিব (উন্নয়ন অনুবিভাগ-১) মহোদয়ের ব্যক্তিগত সহকারী, গৃহায়ন ও গণপূর্ত মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা।
১০. যুগ্মসচিব (উন্নয়ন ব্রাঞ্চ) মহোদয়ের ব্যক্তিগত সহকারী, গৃহায়ন ও গণপূর্ত মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা।
১১. অফিস কপি/মাষ্টার কপি।


23/06/2022
(মোহাম্মদ আবুল কালাম আজাদ)
নির্বাহী প্রকৌশলী
(পরিকল্পনা অধিশাখায় সংযুক্ত)
পরিকল্পনা শাখা-২

নং-০৭.০০.০০০০.১৫৫.১৪.০০২.২৩ - ৬৭

তারিখঃ ২৩ ফেব্রুয়ারি ২০২৩ খ্রিষ্টাব্দ
১০ ফাল্গুন ১৪২৯ বঙ্গাব্দ

বিষয়ঃ মন্ত্রণালয়/বিভাগ/অফিসপত্রের দর তফসিল (Schedule of Rates) এর ০৪(চার) টি বেসিক আইটেমের দর পুনঃনির্ধারণ সংক্রান্ত।

সূত্রঃ স্থানীয় সরকার বিভাগের পত্র নং- ৪৬.০০.০০০০.০৯৩.২২.০০৯.২২-১০৪৬, তারিখ: ১৮/১২/২০২২

উপর্যুক্ত বিষয় ও সূত্রের পত্রের পরিপ্রেক্ষিতে দর তফসিল সংক্রান্ত আন্তঃমন্ত্রণালয় কারিগরী কমিটি কর্তৃক সুপারিশকৃত বিভিন্ন মন্ত্রণালয়/বিভাগ/অফিসপত্রের দর তফসিল (Schedule of Rates) এর ০৪(চার)টি বেসিক আইটেমের সাথে সংশ্লিষ্ট আইটেমসমূহের মধ্যে Brick ০২ (দুই) ক্যাটাগরির, Bitumen ০৬(ছয়) ক্যাটাগরির, Cement ০৬(ছয়) ক্যাটাগরির এবং MS Rod ০৯(নয়) ক্যাটাগরিরসহ মোট ২৩(তেইশ) ক্যাটাগরির বিভিন্ন আইটেমের পুনঃনির্ধারিত দর বাস্তবায়নে নিম্নবর্ণিত শর্তে অর্থ বিভাগের সম্মতি নির্দেশক্রমে জ্ঞাপন করা হলোঃ

শর্তাবলীঃ

- পুনঃনির্ধারিত দর সকল দস্তরের দর তফসিলের ক্ষেত্রে প্রযোজ্য হবে;
 - পুনঃনির্ধারিত এ দরের ভিত্তিতে সকল দস্তরের ইতিপূর্বে অনুমোদিত কার্য বাস্তবায়ন আইটেমসমূহের দর (Work Execution Item rate) সংশোধনপূর্বক অনতিবিলম্বে সংশ্লিষ্ট সকল দস্তরের ওয়েবসাইটে আপলোড করতে হবে;
 - ইতিপূর্বে বিভিন্ন দস্তরের জন্য অনুমোদিত দর তফসিলে উল্লিখিত সকল শর্ত অপরিবর্তিত থাকবে।
 - এ পুনঃনির্ধারিত দরের ক্ষেত্রে সময়ে সময়ে জাতীয় রাজস্ব বোর্ড কর্তৃক নির্ধারিত মূল্য সংযোজন কর (ভ্যাট), আয়কর, শুল্ক ও অন্যান্য ভিউটি প্রযোজ্য হবে।
- ২। পরবর্তী নির্দেশ না দেয়া পর্যন্ত এ পুনঃনির্ধারিত দর বহাল থাকবে এবং তা অবিলম্বে কার্যকর হবে।

সংযুক্তিঃ

দর তফসিল সংক্রান্ত আন্তঃমন্ত্রণালয় কারিগরী কমিটি কর্তৃক সুপারিশকৃত দর (১ কপি)।


চৌধুরী আশরাফুল করিম
উপসচিব
ফোন: ০২-২২৩৩৫৬০৩৭
ই-মেইল: chashraful@finance.gov.bd

সচিব

স্থানীয় সরকার বিভাগ
স্থানীয় সরকার, পল্লী উন্নয়ন ও সমবায় মন্ত্রণালয়
বাংলাদেশ সচিবালয়, ঢাকা

নং-০৭.০০.০০০০.১৫৫.১৪.০০২.২৩ - ৬৭

তারিখঃ ১৬ ফেব্রুয়ারি ২০২৩ খ্রিষ্টাব্দ
০৩ ফাল্গুন ১৪২৯ বঙ্গাব্দ

সদয় অবগতি ও প্রয়োজনীয় কার্যার্থে অনুলিপি প্রেরণ করা হলো (জ্যেষ্ঠতার ক্রমানুসারে নয়) :

১. মন্ত্রিপরিষদ সচিব, মন্ত্রিপরিষদ বিভাগ/প্রধানমন্ত্রীর মুখ্য সচিব, প্রধানমন্ত্রীর কার্যালয়।
২. সচিব, পরিকল্পনা বিভাগ, পরিকল্পনা মন্ত্রণালয়, আগারগাঁও, ঢাকা।
৩. সচিব, গৃহায়ন ও গণপূর্ত মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা।

চলমান পাতা-০২

-০২-

৪. সচিব, সড়ক পরিবহন ও মহাসড়ক বিভাগ, সড়ক পরিবহন ও সেতু মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা
৫. সচিব, পানি সম্পদ মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা
৬. সচিব, রেলপথ মন্ত্রণালয়, রেল ভবন, ঢাকা
৭. প্রধান প্রকৌশলী, গণপূর্ত অফিসপত্র, সেগুনবাগিচা, ঢাকা
৮. মহাপরিচালক, বাংলাদেশ রেলওয়ে, রেল ভবন, ঢাকা
৯. প্রধান প্রকৌশলী, সড়ক ও জনপথ অফিসপত্র, তেজগাঁও, ঢাকা
১০. প্রধান প্রকৌশলী, স্থানীয় সরকার প্রকৌশল অফিসপত্র, আগারগাঁও, ঢাকা।
১১. মহাপরিচালক, বাংলাদেশ পানি উন্নয়ন বোর্ড, ঢাকা
১২. সিনিয়র সচিব মহোদয়ের একান্ত সচিব, অর্থ বিভাগ, অর্থ মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা।
১৩. সিনিয়র সিস্টেম এনালিস্ট, অর্থ বিভাগ, অর্থ মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা (ওয়েবসাইটে প্রকাশের অনুরোধসহ)।


চৌধুরী আশরাফুল করিম
উপসচিব

ENDORSEMENT

The First edition of PWD Schedule of Rates 2022 Part C: Retrofitting Works, approved by the Ministry of Finance, Government of the People Republic of Bangladesh (GoB) vide memo no. 07.00.0000.155.14.001.20.385, dated 21.06.2022, duly endorsed by the Ministry of Housing and Public Works, GoB vide memo no. 25.00.0000.031.003.2022-325, dated 23.06.2022 and revised with some updated basic items rates approved by the Ministry of Finance vide memo no. 07.00.0000.155.14.002.23-89, dated 23.02.2023, is hereby endorsed as the First edition of PWD Schedule of Rates 2022 (Revised) Part C: Retrofitting Works by the undersigned for official use in Public Works Department (PWD), Bangladesh with effect from 23 February, 2023.



Mohammad Shamim Akhter
Chief Engineer
Public Works Department

FOREWORD

Public Works Department (PWD) under ministry of Housing and Public Works is delighted to publish the PWD Retrofitting Schedule of Rates 2022 especially for retrofitting Reinforced Concrete buildings. This comprehensive document provides a basic framework in preparation of estimates for retrofitting works.


Over the past few decades, Bangladesh is experiencing rapid unplanned urbanization of several cities with most of the buildings being non-engineered, which is a big concern. Due to its proximity to the tectonic plate boundaries, active faults, and track records of historical damaging earthquakes in and around Bangladesh, probability of occurrence of strong earthquake is high; whereas, the country is not sufficiently prepared to reduce the risk. In the standing order on disaster (SOD) of the Government, PWD is assigned with the task to promote seismic resistant building and to retrofit public buildings which are vulnerable to earthquake or do not meet the seismic demand and capacity requirements of the current Bangladesh National Building Code (BNBC) 2020. Some of the existing functional buildings under the jurisdiction of PWD have been retrofitted to make them seismic resilient with the technical and financial assistance of Japan International Co-operation Agency (JICA) under the Technical Assistance Project named PROJECT ON PROMOTING BUILDING SAFETY FOR DISASTER RISK REDUCTION (BSPP). During execution of retrofitting works of several buildings under BSPP, the execution procedures and costs are found to be significantly different than those in normal construction works, which called for introducing a new Retrofitting Schedule of Rates alongside existing PWD Schedule of Rates (SoR).

In analyzing the unit prices of the requisite items i.e., basic materials prices, manpower rates, machineries/equipment hire charge/cost etc. have been incorporated here from the PWD SoR 2022 except those not available in the same SoR. The requisite imported materials prices and service charges such as construction chemicals, carbon fiber reinforced polymer sheet or fibers, etc. have been incorporated in the Retrofitting SoR on the basis of present market prices. But execution capacities of manpower, machineries and equipment have been considered and collected from the retrofitting construction projects executed by PWD following the analysis system of the existing PWD SoR. After being approved by Ministry of Finance in 2022, the PWD SoR 2022 undergone revision in certain material rates in 2023, leading to the publication of revised SoR. This Retrofitting SoR incorporates the updated pricing from the revised PWD SoR 2022.

Rates of all the items of work prescribed in this PWD Retrofitting SoR 2022 should be read and understood in conjunction with the Analysis of Items, other guidelines and structural design supplied by the PWD Design offices, and the currently effective PWD SoR 2022.

Preparation of such a new type of document within a short span of time is a daunting task. In spite of every effort to make this document flawless, there might be presence of inadvertent errors in various parts of the document. Notifying any such mistakes by the users would be highly appreciated. Moreover, PWD welcomes comments, suggestions and feedback from the users to improve this document in future. Manufacturers and dealers are also welcome to regularly send details of materials approved by BSTI / conforming to ASTM, BS, EN and other international standard organizations to be incorporated in the next version. The department expresses its gratitude to all who contributed directly or indirectly in preparing and publishing this Retrofitting Schedule of Rates.

23 February 2023
Purta Bhaban
Segun Bagicha, Dhaka


Mohammad Shamim Akhter
Chief Engineer
Public Works Department

PREFACE OF THE FIRST EDITION

In recent times, retrofitting has become a critical aspect of infrastructure development. The rapid growth of urbanization and the demand for sustainable and resilient structures have made it necessary to address the challenges posed by aging buildings and infrastructure. Retrofitting not only improves the safety and functionality of existing structures but also promotes resource efficiency and environmental sustainability.

Renovation and retrofitting projects present unique challenges like limited space and the need to minimize disruptions, which can significantly impact construction costs. Currently, several functional buildings under PWD's jurisdiction are being retrofitted to enhance their seismic resilience. This is made possible with technical and financial support from the Japan International Cooperation Agency (JICA) through the approved Technical Assistance project called "PROJECT ON PROMOTING BUILDING SAFETY FOR DISASTER RISK REDUCTION (BSPP)." However, executing these retrofitting projects has proven to be more expensive than regular construction due to the utilization of new materials and specialized construction techniques tailored for retrofitting purposes. To address this, a new Retrofitting Schedule of Rates is being introduced alongside the existing PWD Schedule of Rates. The PWD Retrofit Schedule of Rates 2022 serves as a valuable resource for contractors, consultants, and stakeholders involved in retrofitting projects, providing them with practical guidance.

Aligned with modern retrofit construction practices, the PWD Retrofitting Schedule of Rates 2022 reflects current market prices of construction materials. Due to the wide variety of materials available, only the most commonly used ones have been included, along with their average market rates.

The Ministry of Finance approved this edition of the Retrofitting Schedule of Rates in 2022. To ensure accuracy, an inter-ministerial technical committee was established, dividing the country into four zones with different rates to accurately represent local market prices. The schedule also took into account the recently approved labor wage increases and adjusted the VAT rate to align with the current 7.5% rate set by the NBR. Later in 2023, changes in some material rates lead to the release of a revised SoR. This retrofitting SoR incorporates the approved updated rates from the revised SoR providing users with the latest and most comprehensive pricing details.

Efforts have been made to ensure the accuracy and quality of this publication. Valuable suggestions for corrections, alterations, or corrigendum are welcomed.

The successful updating and publishing of the Retrofitting Schedule of Rates is a significant endeavor achieved through the dedicated efforts of the schedule committee, engineers, and officers who have provided valuable comments and suggestions. Their cooperation and support are sincerely appreciated.



Md. Shafiqul Islam

Convenor

PWD Schedule of Rates Preparation Committee

&

Additional Chief Engineer (Planning & Special Project)

Public Works Department.

23 February 2023

Purta Bhaban

Segun Bagicha, Dhaka

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SPECIAL NOTE

This PWD Retrofitting Schedule of Rates (RSoR) shall be applicable for retrofitting works only. Item(s) of this RSoR shall be used subject to approved structural design from the concerned design division. If item(s) in connection with retrofitting works are not available in this RSoR, the relevant item(s) shall be taken from PWD Schedule of Rates (SoR) in effect.

Utmost care has been taken to overcome mistakes and confusion etc., in the description of items, units, rates, although there may always be chances of unwilling printing mistakes. However, if confusion arises in interpreting any item/items, unit, rates etc. and if the situation so demands, then the procuring entity must clarify and resolve the issue with the approval obtained from the competent authority (HOPE or his authorized representative). Hence the decision given by the competent authority will be treated as final.

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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

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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

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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)						

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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			
Earth (compacted & damp)	100	1600	Size		Weight	
Earth (dry & loose)	90	1440	inch	mm*	lb/rft	kg/meter
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			
Lime (slaked to fresh)	40-60	640-960	Size		Weight	
Lime stone	150	2400	inch	mm*	lb/rft	kg/meter
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			
Reinforced cement concrete	150	2400	Size		Weight	
Sal wood	60-65	960-1040	inch	mm*	lb/rft	kg/meter
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

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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 1/2 x 1 1/2 x 1/4	2.35	2 1/4 x 2 1/4 x 1/4	3.64	3 x 3 x 3/8	7.20
1 x 1 x 1/4	1.54	1 3/4 x 1 3/4 x 1/4	2.79	2 1/2 x 2 1/2 x 1/4	4.07	3 x 3 x 1/2	9.38
1 1/4 x 1 1/4 x 3/16	1.50	1 3/4 x 1 3/4 x 3/16	2.11	2 1/2 x 2 1/2 x 5/16	5.00	3 1/2 x 3 1/2 x 3/8	8.49
1 1/4 x 1 1/4 x 1/4	1.88	2 x 2 x 1/4	3.21	2 1/2 x 2 1/2 x 3/8	5.92	3 1/2 x 3 1/2 x 1/2	11.08
1 1/2 x 1 1/2 x 3/16	1.81	2 x 2 x 3/8	4.64	3 x 3 x 1/4	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

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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

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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 Stubs 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	0.0126	0.012
30	8	0.0120	0.0140	0.01	0.0123	0.0108	0.0108
31	7	0.0105	0.0132	0.0089	0.011	0.0096	0.0096
32	6.5	0.0097	0.0128	0.008	0.0098	0.0084	0.0084
33	6	0.0090	0.0118	0.0071	0.0087	0.0072	0.0072
34	5.5	0.0082	0.0104	0.0063	0.0077	0.0062	0.0062
35	5	0.0075	0.0095	0.0056	0.0069	0.0054	0.0054
36	4.5	0.0067	0.0090	0.005	0.0061	0.0048	0.0048
37	4.25	0.0064	0.0085	0.0045	0.0054	0.0042	0.0042
38	4	0.0060	0.0080	0.004	0.0058	0.004	0.004
39			0.0075	0.0035	0.0043	0.0036	0.0036
40			0.0070	0.0031	0.0039	0.0032	0.0032

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).

Hawonine *Lee* *Star* *John*

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
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	18	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	485	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	116	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																						

	Lakshmipur	Lalmonirhat	Madaripur	Magera	Manikganj	Meherpur	Moulvibazar	Munshiganj	Mymensingh	Naogaon	Narail	Narayanganj	Narsingdi	Natore	Nawabganj	Netrakona	Nilphamari	Noakhali	Pabna	Panchagarh	Patuakhali	Pirojpur	Rajbari	Rajshahi	Rangamati	Rangpur	Sakthira	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	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	480	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	259	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	530	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	113	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	46	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	390	
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	245	139	211	418	271	229	0	298	261	267	97	98	268	142	403	156	219	430	379	237	78	538	153	336	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												

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")

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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		7.50%	7.50%	7.50%	7.50%
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

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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, Gopalgonj	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, Gopalgonj	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

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SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	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

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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, Gopalgonj	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	83,000.00	83,000.00	83,000.00	83,000.00






SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
289	Grade 400/ 420 (400MPa/ 400N/mm ² ≈ 60900 psi/ 60 Grade), BDS-6935-2006, B400: and ratio fy to fu ≥ 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 fy to fu ≥ 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, Gopalgonj	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

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SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	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

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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, Gopalgonj	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 x175 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

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SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	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(hycy.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

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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, Gopalgonj	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

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SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	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 groove 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 groove 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

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SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	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

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SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	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

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SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	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, Gopalgonj	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, Gopalgonj	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, Gopalgonj	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, Gopalgonj	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 yrds	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

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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

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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

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SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	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

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SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	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, Gopalgonj	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

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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, Gopalgonj	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 weigh 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

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SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	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

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SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	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, Gopalganj	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, Gopalgonj	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

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SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	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

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SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	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, Gopalgonj	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

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SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	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

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SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	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, Gopalgonj	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

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SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	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

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SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	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

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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

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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

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SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	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, Gopalgonj	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

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SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	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, Gopalgonj	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

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SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
1819	Fluorine (Fl)	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

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SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	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

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SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	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

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SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	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, Gopalgonj	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, Gopalgonj	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, Gopalgonj	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

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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/ Pyiankado	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, Gopalgonj	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	rf	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

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SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	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
RF	BASIC RATES FOR RETROFIT WORKS					
RF. 01	Electric bill for electric drill machine/ electromechanical mixer/ stirrer machine of 1 killo-watt capacity	Day	85.00	85.00	85.00	85.00
RF. 02	Hire charge of non-shrink grout pump	Day	2000.00	2000.00	2000.00	2000.00
RF. 03	Hire charge of rebar scanner	Day	2000.00	2000.00	2000.00	2000.00
RF. 04	Hire charge of rebar detector	Day	1000.00	1000.00	1000.00	1000.00
RF. 05	Hire charge of concrete core cutter	Day	2000.00	2000.00	2000.00	2000.00
RF. 06	Hire charge of Schmidt Hammer (Rebound Hammer)	Day	500.00	500.00	500.00	500.00
RF. 07	Hire charge rebar pull-out testing equipment	Day	2000.00	2000.00	2000.00	2000.00
RF. 08	Hire charge of slab concrete cutter	Day	1200.00	1200.00	1200.00	1200.00
RF. 09	Hot rolled W, I, S, T shape sections of grade 345 MPa	M.Ton	85000.00	85000.00	85000.00	85000.00
RF. 10	Rebar bolt anchoring Epoxy Resin based (effective in dry and wet conditions)	ml	5.50	5.50	5.50	5.50
RF. 11	Rebar bolt anchoring Epoxy Resin based (effective in submerged condition)	ml	9.00	9.00	9.00	9.00
RF. 12	SBR based bonding chemicals	Litre	700.00	700.00	700.00	700.00
RF. 13	Acrylic based bonding chemicals	Litre	700.00	700.00	700.00	700.00
RF. 14	Corrossion protective chemical (rust converter)	Litre	600.00	600.00	600.00	600.00
RF. 15	Shuttering leak proofer compound	Kg	400.00	400.00	400.00	400.00
RF. 16	Primer for carbon fiber work	Kg	1360.00	1360.00	1360.00	1360.00
RF. 17	Levelling adhesive (Epoxy Resin) for carbon fiber work	Kg	760.00	760.00	760.00	760.00
RF. 18	Saturant adesive (Epoxy Resin) for carbon fiber work	Kg	1360.00	1360.00	1360.00	1360.00
RF. 19	Carbon Fiber Reinforced Polymer Plate (1.1 mm to 1.2 mm thick)/ CFRP	Sqm	18870.00	18870.00	18870.00	18870.00
RF. 20	Carbon Fiber Reinforced Polymer Plate (1.4 mm thick)/ CFRP	Sqm	20655.00	20655.00	20655.00	20655.00
RF. 21	Carbon Fiber Sheet (Fabric) 200 gsm	Sqm	1785.00	1785.00	1785.00	1785.00
RF. 22	Carbon Fiber Sheet (Fabric) 300 gsm	Sqm	2295.00	2295.00	2295.00	2295.00
RF. 23	Carbon Fiber Sheet (Fabric) 450 gsm	Sqm	3464.00	3464.00	3464.00	3464.00
RF. 24	Liquid polymer for water proofing coat	Kg	250.00	250.00	250.00	250.00
RF. 25	25mm / 1" dia MS pipe (A-class)	foot	70.00	70.00	70.00	70.00
RF. 26	150 mm (6") dia M.S. pipe of wall thickness 5.40 mm (BS 1387/ BDS 1031 & BS 729)	foot	600.00	600.00	600.00	600.00
RF. 27	Fabrication charge for steel scaffolding end frames inc diagonal bracing with MS pipes of 50, 40 mm, 32, 25 mm dia (2 nos, Ladder Type) with MS pipes and base plate (Dim of 1 end frame - 4'x5', 4'x6', 4'x7', 5'x5', 5'x7')	set	500.00	500.00	500.00	500.00






SL	Items	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
RF. 28	Cutting by shearing/ flame 10 to 13 BWG MS sheet	Foot	10.00	10.00	10.00	10.00
RF. 29	10 mm down grade stone chips	% cft	16000.00	16000.00	16000.00	16000.00
RF. 30	Water curing Cost	Sft	3.00	3.00	3.00	3.00
RF. 31	Fabrication charge for steel prop with adjustable mechanism including top and bottom plate	Set	200.00	200.00	200.00	200.00
RF. 32	Cutting by shearing/ flame 12 mm MS plate	Foot	25.00	25.00	25.00	25.00
RF. 33	Thick synthetic Tarpaulin flexible sheet	Sft	5.00	5.00	5.00	5.00
RF. 34	Driving cost for barrak bamboo post (Avg. 3" dia)	Foot	22.44	22.44	22.44	22.44
RF. 35	Charge for tightening bolt by torque wrench	Kg	8.00	8.00	8.00	8.00

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CHAPTER 01: ASSESSMENT OF EXISTING BUILDING

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
01.1.1	Conducting field survey in the target building (keeping it functional) to produce/reproduce as-built detail architectural drawings including floor plan, present usages, existing finishing details, all sided elevation and at least one sectional elevation by engaging experienced architect/civil engineer (minimum 3-years for B.Sc./ 8-years for Diploma) and supervisor etc. all complete as per direction and approval by the Engineer-in-charge.	sqm of built-up area	6.75	6.75	6.57	6.57
01.1.2	Preparation and Submission of as-built detail architectural drawings including floor plan, present usages, existing finishing details, all sided elevation and at least one sectional elevation produced in AutoCAD Software (OS-Windows base), submission of 3 sets of printed copy on standard drawing paper in readable size, scale, specified format and a soft copy in CD/ pendrive by engaging experienced architect/ civil engineer (minimum 3 years for B.Sc./ 8 years for Diploma) and AutoCAD operator. The as-built drawings must reflect the existing scenario and deviation from approved existing drawings (if available) etc. all complete as per direction and acceptance by the Engineer-in-charge.	sqm of built-up area	8.85	8.85	8.85	8.85
01.2.1	Conducting field survey including foundation investigation (location, dimensions and depth of foundation), layout and dimensions of all structural members, slab dimensions, lift-machine room, underground water reservoir, overhead water tanks, visual deterioration of all structural members in the target building (keeping it functional) to produce/ reproduce as-built structural drawings or check (if drawings are available) by engaging experienced civil engineer (minimum 3 years for B.Sc./ 8 years for Diploma) and supervisor etc. all complete as per direction and approval by the Engineer-in-charge. (The rate is excluding the cost of digging the foundation, shore protection and refilling)	sqm of built-up area	3.59	3.59	3.51	3.51
01.2.2	Carrying out rebar scanning process in all scannable sides of specified reinforced concrete members in the target building (keeping it functional) using rebar scanner for checking the clear cover, rebar diameter and spacing including stripping out plaster and mending/ filling the damaged portions after the process to produce/ reproduce as-built structural drawings or check (if drawings are available) by engaging an experienced civil engineer (minimum experience of 3 years for B.Sc./ 8 years for Diploma) and competent technicians etc. all complete as per direction and acceptance by the Engineer-in-charge.					
01.2.2.1	Main rebars and tie/ stirrup of floorwise columns and beams (between 2 supports irrespective of spans)	member	1,089.00	1,089.00	1,082.00	1,082.00






Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
01.2.2.2	Rebar scanning process of shear walls (floor to floor) and slabs (slab panel bounded by beams or 4 columns in the case of flat plate/ flat slab shall be reckoned as one member)	member	847.00	847.00	841.00	841.00
01.2.3	Carrying out of existing concrete strength test on specified RC members in the target building (keeping it functional) using recently calibrated schmidt hammer for collecting data (25 points over 1 sq.ft shall be reckoned as 1 spot) including stripping out plaster and mending/ filling the damaged portions after the process to produce/ reproduce as-built structural drawings or check (if drawings are available) by engaging competent technicians etc. all complete as per direction and acceptance by the Engineer-in-charge.	spot	568.00	568.00	553.00	553.00
01.2.4	Collection of concrete core samples for assessing compressive strength of concrete from the existing RC members (column, shear wall, beam) of the target building (keeping it functional) by using diamond core cutter machine and rebar detector including repair of the damaged portions with non-shrink grout, apply curing agent and supply of the samples to the specified laboratory for the purpose of producing/ reproducing as-built structural drawings. The process to be conducted in presence and guidance by an experienced civil engineer (minimum experience of 3 years for B.Sc./ 8 years for Diploma) and competent technician etc. all complete as per direction and acceptance by the Engineer-in-charge. The collected concrete core sample must be in cylindrical shape, to be suitable for compressive strength testing according to ASTM [C42 / C42 M] standard, the diameter of core specimens for the determination of compressive strength in load bearing structural members shall be of at least 3.70 inches [94 mm]. For non-load bearing structural members or when it is impossible to obtain cores with length-diameter ratio greater than or equal to 1, core diameters less than 3.70 inch [94 mm] will be acceptable.	each	3,968.00	3,960.00	3,907.00	3,907.00
01.2.5	Preparation for Compressive strength test of the collected concrete core samples in any reputed laboratory including sending of the samples to the laboratory in an acceptable manner, collection and supply of original tests report along with additional 2 sets of printed copy of that to the procuring entity etc. all complete as per direction and acceptance by the Engineer-in-charge.	each	3,559.00	3,559.00	3,559.00	3,559.00
01.2.6	Collecting rebar samples from pre-approved spots of structural members of the target building (keeping it functional) and supplying the standard samples properly by marking the sources of the samples for determining grade of rebars in any reputed laboratory for the purpose of producing/ reproducing as-built structural drawings (1 set shall comprise of at least 3 nos of rebars but 1 or 2 samples are acceptable depending upon the condition of sources) etc.					






Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	Rajshahi, Rangpur
	all complete as per direction and approval of the Engineer-in-charge.					
01.2.6.1	From concealed sources using rebar detector and partially stripping off/ cutting/ dismantling concrete of structural members presently acting for structural purposes or of extended portion presently not acting for structural purposes, including repair of the damaged portions with non-shrink grout and applying curing agent.	set	2,373.00	2,365.00	2,311.00	2,311.00
01.2.6.2	From unconcealed sources	set	880.00	872.00	839.00	839.00
01.2.7	Preparation for Tensile strength tests (yield and ultimate strength) of the collected rebar samples (1 set shall comprise of at least 3 nos of rebars but 1 or 2 samples are acceptable depending upon the condition of sources) in any reputed laboratory including sending of the samples to the laboratory in an acceptable manner, collection and supply of original tests report along with additional 2 sets of printed copy of that to the procuring entity etc. all complete as per direction and acceptance by the Engineer-in-charge.					
01.2.7.1	Tensile strength including weight & elongation up to 25 mm diameter rebar	set	3,682.00	3,682.00	3,682.00	3,682.00
01.2.7.2	Tensile strength including weight & elongation above 25 mm and up to 32 mm diameter rebar	set	5,154.00	5,154.00	5,154.00	5,154.00
01.2.8	Preparation, consolidation and submission of as-built detail structural drawings including foundation layout (location, dimensions and depth of foundation), floorwise layout plan and dimensions, reinforcement details of all structural members including slabs, lift-machine room, underground water reservoir, overhead water tanks, notes on existing materials strength, marking the visual deteriorations on drawings of corresponding structural members (concretes, steels) in the target building, produced in AutoCAD software (OS-Windows), supplying of 3 sets of printed copy of the drawings on standard drawing paper in readable size, scale, format and a soft copy in CD/ pendrive by engaging experienced civil engineer (minimum experience of 3 years for B.Sc./ 8 years for Diploma) and AutoCAD operator. The as-built drawings must show the permanent works as actually constructed and reflect the deviations from original drawings at the time of construction (if available) etc. all complete as per direction and acceptance by the Engineer-in-charge.	sqm of built-up area	9.73	9.73	9.73	9.73
01.2.9	Compilation, report preparation and submission of 3 sets of printed copy of overall detail engineering assessment (DEA) report on the target building emphasizing the structural conditions on the basis of as built drawings of Architectural, Structural, Plumbing, Electrical, Electro-	job	6,197.00	6,197.00	6,197.00	6,197.00






Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	Rajshahi, Rangpur
	mechanical, Fire fighting system, different test reports and field inspection reports by engaging experienced civil engineer (minimum 3 years for B.Sc./ 8 years for Diploma) and computer operator etc. all complete as per direction and acceptance by the Engineer-in-charge.					
01.3.1	Conducting field survey in the target building (keeping it functional) to produce/ reproduce as-built detail plumbing drawings (water supply and sanitary systems) including floorwise detail location of the appliances on plan and mentioning starting & ending R.L./ height of the lines with respect to ground floor plinth/ each floor level using as-built architectural drawings, by engaging experienced civil engineer (minimum 3 years for B.Sc./ 8 years for diploma) and supervisor etc. all complete as per direction and approval by the Engineer-in-charge.	sqm of built-up area	2.85	2.85	2.80	2.80
01.3.2	Preparation and submission of as-built detail plumbing drawings (sanitary and water supply system) of the target building including floorwise detail location of the appliances on plan and mentioning starting & ending R.L./ height of the lines with respect to ground floor plinth/ each floor level produced in AutoCAD software (OS-windows base), submission of 3 sets of printed copy on standard drawing paper in readable size, scale, specified format and a soft copy in CD/ pendrive by engaging experienced civil engineer (minimum 3 years for B.Sc./ 8 years for diploma) and AutoCAD operator. The as-built drawings must reflect the existing scenario and modification/ deviation of approved drawings (if available) etc. all complete as per direction and acceptance by the Engineer-in-charge.	sqm of built-up area	4.82	4.82	4.82	4.82
01.4.1	Conducting field survey in the target building (keeping it functional) to produce/ reproduce as-built electrical, electromechanical and fire fighting systems drawings or check (if drawings are available) including floorwise detail electrical, electromechanical and fire-fighting appliances locations on plan, elevation, starting-ending point, height/ length with respect to ground floor plinth/ each floor level using the as-built architectural drawings by engaging experienced electrical engineer (minimum 3 years for B.Sc./ 8 years for diploma) and supervisor etc. all complete as per direction and approval by the Engineer-in-charge.	sqm of built-up area	3.29	3.29	3.24	3.24
01.4.2	Preparation and submission of detail as-built electrical, electromechanical and fire fighting systems drawings of the target building including floorwise detail electrical, electromechanical and fire fighting appliances locations on plan, elevation, starting-ending point, height/ length with respect to ground floor plinth/ each floor level produced in AutoCAD software (OS-windows), supplying of 3 sets of printed copy on standard drawing paper in readable size, scale, format and a soft copy in CD/ pendrive by engaging experienced electrical engineer (minimum experience of 3	sqm of built-up area	4.82	4.82	4.82	4.82






Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	years for B.Sc./ 8 years for diploma) and AutoCAD operator etc. all complete as per direction and acceptance by the Engineer-in-charge.					

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CHAPTER 02: GENERAL AND SITE FACILITIES

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
02.1	Installation of 6'-0" height temporary safety fencing for restricting public access to working area of the target building, with 50x50x5 mm MS angle @ 4'-0" c/c vertical post fixing with 150x150x10 mm MS base plate to floor, 40x40x5 mm MS angle @ 3'-0" c/c horizontal inner batten, 40x5 mm MS flat iron bar horizontal outer batten, 1 no 3'-0" width full height entry gate with locking arrangement, sheeting the frame with 0.45 mm corrugated galvanized iron sheets including fitting and fixing in position by providing necessary anchors, cables, wires, ties at adequate spacing etc. by standard anchoring, welding, nut-bolts, washer etc., maintaining the structural safety, minimized sound and dust hazard as priority etc. all complete including removal after completion of the job as per direction and acceptance of the Engineer-in-charge. Up to Ground Floor	sqm	1,299.00	1,297.00	1,284.00	1,284.00
02.2	Installation of 9'-0" height temporary movable safety fencing with full height dust protective curtain around working spot of the building with 50x50x5 mm MS angle @ 5'-0" c/c vertical post, 40x40x5 mm MS angle @ 3'-0" c/c horizontal batten, 50 x 100 x 600 mm MS box base support welded with each vertical posts, fixing lateral stability, sheeting the frame with thick synthetic tarpaulin flexible sheet including fitting and fixing in position providing necessary anchors, cables, wires, ties etc. by standard anchoring and welding, nut-bolts etc. to minimize sound and dust hazard etc. all complete including removal after completion of the job as per direction and acceptance of the Engineer-in-charge. Up to Ground Floor	sqm	175.00	175.00	175.00	175.00
02.3	Installation of safety fencing of height 6'-0" at ground level around the target building for restricting public access to the building area with vertical post of bamboo @ 4'-0" c/c, 2"x1.5" garjan wood horizontal inner & outer batten @ 3'-0" c/c, 1 no. entry gate of 4'-0" width with locking arrangement, sheeting the frame with corrugated galvanized iron sheets of thickness 0.45 mm including fitting and fixing in position by providing necessary anchors, cables, wires, ties at adequate spacing etc. by standard anchoring and nut-bolts, including removal after completion of the job etc. all complete as per direction and acceptance of the Engineer-in-charge.	sqm	1,404.00	1,370.00	1,387.00	1,387.00
02.4.1	Hiring and supplying of height adjustable steel props (threaded mechanism with height adjustable range of 10" to 12") made of mild steel pipes (standard BDS-1031/ BS-1387) as extra, where necessary to support any structural member and where shuttering including props do not require; placing in position and removal after completion of the job, satisfying the following criteria, properties, conformities, maintaining the structural safety etc. all complete as per direction and acceptance of the Engineer-in-charge. With 50 mm diameter (wall thickness 2.9 mm) and 40 mm diameter (wall thick 2.9 mm) MS Pipe, outer part of length 7'-0", inner parts length of 7'-0", bottom plate 4"x4", top u-4"x3"x2" with	each	280.00	277.00	268.00	268.00






Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	10 BWG MS sheet of grade 345 MPa, height coverage up to 12'-0". Up to Ground Floor					
02.4.2	Hiring and supplying of additional rectangular 3" x 3" M.S. box channel made of 3/16" thick M.S. sheet (conforming to ASTM A572, with a minimum yield strength of 345 MPa) where it will require in addition to regular props/ batten with prior approval of concerned design office; placing in position and removal after completion of the job, maintaining the structural safety etc. all complete as per direction and acceptance of the Engineer-in-charge. Up to Ground Floor	meter	128.00	128.00	126.00	126.00
02.5	Hiring and supplying of additional individual 150mm (6 inches) diameter, 5.40 mm wall thickness mild steel pipe (standard BDS-1031/ BS-1387) and 6mm thick MS Plate (conforming to ASTM-A572, with a minimum yield strength of 345 MPa) welded at top and bottom in necessary shape to support any structural member where it will require in addition to regular props with prior approval of concerned design office; placing in position as prop/ strut and removal after completion of the job maintaining the structural safety etc. all complete as per direction and acceptance of the Engineer-in-charge. Up to Ground Floor	meter	200.00	200.00	199.00	199.00
02.6	Hiring and supplying of garjan/ jam/ local sal wood of specified sizes, to be required for miscellaneous purposes etc. all complete as per direction and acceptance of the Engineer-in-charge.	cum	12,804.00	12,235.00	13,088.00	13,088.00
02.7	Hiring and supplying of mild steel plate (conforming to ASTM A572, with a minimum yield strength of 345 MPa); placing in position and removal after completion of the job, where it will require to be acted as extra base plate to distribute load as per direction in structural drawing, maintaining the structural safety etc. all complete as per direction and acceptance of the Engineer-in-charge.	kg	6.44	6.40	6.31	6.31
02.8.1	Hiring and supplying of hot rolled W, I, S, T shape sections of grade 275 MPa (conforming to ASTM A36 M); placing in position and removal after completion of the job, where it will require to be acted as extra support/ to bridge load as per direction in structural drawing, maintaining the structural safety etc. all complete as per direction and acceptance of the Engineer-in-charge.	kg	31.00	31.00	31.00	31.00
02.8.2	Hiring and supplying of built-up steel structural sections W, I, S, T shape sections using mild steel plate with a minimum yield strength of 345 MPa (conforming to ASTM A572); placing in position and removal after completion of the job, where it will require to be acted as extra support/ bridge load as per direction in structural drawing, maintaining the structural safety etc. all complete as per direction and acceptance of the Engineer-in-charge.	kg	31.00	31.00	31.00	31.00
02.9	Hiring and supplying and installation of steel scaffolding	sqm	450.00	448.00	444.00	444.00






Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	having 2 nos side frames with J-type stiffener of height around 5 feet to 7 feet with or without base plate, made of MS pipes with requisite diagonal bracing and one steel working deck (All Pipes of class-A, D40 mm for sides frame, D32 mm for hooking, D25 mm for diagonal bracing; steel working deck made of 40 x40 mm MS angle at periphery, 25 mm F.I. bar @ 6" c/c both ways of the deck to support sheet and 16 BWG steel sheet to cover the deck top), covering approximate base area of 20 sft (5 feet x 4 feet); placing in position maintaining levelling, vertical and lateral stability and removal after completion of the job maintaining safety etc. all complete as per direction and acceptance of the Engineer-in-charge (scaffolding area to be measured in plan). Up to Ground Floor					
02.10	Providing expert Engineer having minimum 5 (five) years relevant experience(s) in retrofitting works or minimum 10 (ten) years experience(s) in civil construction works having expertise in project documentation, progress study & adjustment, preparation of project material schedule and testing schedule for approval, providing guidelines/ methodology for execution of non-traditional items etc. & jobs assigned by the HOPE or his/ her official at site (maximum man month shall not greater be than 1/4th of project duration & payment for the item shall be made subject to submission of C.V., recommendation by the Engineer-in-charge and procuring entity and approved by HOPE or his/ her authorized officer. The payment of salary shall be made monthly basis directly to the engaged engineer by cheque by the procuring entity after deducting income taxes only from the gross bill as per rules/ circulars in force at the time of payment.	Month	120,000.00	120,000.00	120,000.00	120,000.00
02.11	Added cost for each additional floor above ground floor for Item no.- 02.1 and 02.9	sqm	68.00	67.00	62.00	62.00
02.12	Added cost for each additional floor above ground floor for Item no.- 02.2	sqm	16.00	16.00	15.00	15.00
02.13	Added cost for each additional floor above ground floor for Item no.- 02.4.1	each	22.50	22.09	20.45	20.45
02.14	Added cost for each additional floor above ground floor for Item no.-02.4.2 and 02.5	meter	16.87	16.57	15.34	15.34

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CHAPTER 03: DISMANTLING, DEMOLISHING AND REMOVAL WORKS

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalgonj	Rajshahi, Rangpur
03.1.1	Stripping off plaster from RC members (columns, beams, shear walls etc.) for the purpose of retrofitting works including any type of skirting/ dado by manual means without using any electromechanical equipment, cleaning all types surfaces by soft-brooming, providing provision for safety, maintaining tolerable sound level and minimizing dust hazard, in constrained conditions/ limited scope of work to utilise full capacity of manpower and removal of debris and stacked in a safe place within the campus/ project site area as per directions and acceptance by the Engineer-in-charge. Up to Ground Floor	sqm	67.00	66.00	63.00	63.00
03.1.2	Stripping off plaster from inner/ outer brick walls for the purpose of repairing or renewing of plaster or brick wall lamination including any type of skirting/ dado by manual means without using any electromechanical equipment, racking out joints, cleaning surfaces by soft-brooming, providing provision for safety, maintaining tolerable sound level and minimizing dust hazard, in constrained conditions/ limited scope of work to utilise full capacity of manpower and removal of debris and stacked in a safe place within the campus/ project site area as per directions and acceptance by the Engineer-in-charge. Up to Ground Floor	sqm	65.00	64.00	61.00	61.00
03.1.3	Surface preparation of reinforced concrete members (already removed plaster or other finishing works), chipping by manual means with sharp chisel covering approximately 40 nos of spots per sq.ft area for the purpose of retrofitting works and making the surfaces free from any loose particle and dust, providing provision for safety, maintaining tolerable sound level and minimizing dust hazard, in constrained conditions/ limited scope of work to utilise full capacity of manpower and removal of debris and stacked in a safe place within the campus/ project site area as per directions and acceptance by the Engineer-in-charge.	sqm	164.00	161.00	152.00	152.00
03.2.1	Picking up of patent stone from floor, skirting, dado by using electromechanical equipment for repairing or renewing the item; which are not dismantled/ removed with other stripping-off or dismantling works, cleaning the surface by soft-brooming, providing provision for safety, maintaining tolerable sound level and minimizing dust hazard, in constrained conditions/ limited scope of work to utilise full capacity of manpower, equipment and removal of debris and stacked in a safe place within the campus/ project site area as per directions and acceptance by the Engineer-in-charge. Up to Ground Floor	sqm	117.00	115.00	111.00	111.00
03.2.2	Picking up of Mosaic and Tiles works from floor and wall by using electromechanical equipment for repairing or renewing the item; which are not dismantled/ removed with other stripping-off or dismantling works, cleaning the surface by soft-brooming, providing provision for safety, maintaining tolerable sound level and minimizing dust hazard, in constrained conditions/ limited scope of work to utilise full	sqm	141.00	138.00	133.00	133.00

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Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	capacity of manpower, equipment and removal of debris and stacked in a safe place within the campus/ project site area as per directions and acceptance by the Engineer-in-charge. Up to Ground Floor					
03.3.1	Picking up of terraced (lime concrete) roof by using electromechanical equipment for repairing or renewing or removing the item; which are not dismantled/ removed with other stripping off or dismantling works, cleaning the surface by soft-brooming, providing provision for safety, maintaining tolerable sound level and minimizing dust hazard, in constrained conditions/ limited scope of work to utilise full capacity of manpower, equipment and removal of debris and stacked in a safe place within the campus/ project site area as per directions and acceptance by the Engineer-in-charge. Up to Ground Floor	sqm	172.00	170.00	162.00	162.00
03.3.2	Dismantling of terraced roof including beam, column, barga and tiles etc. by using electromechanical equipment for reconstructing the dismantled components with new system of construction or removing the system; which are not dismantled/ removed with other stripping-off or dismantling works, cleaning the surface by soft-brooming, providing provision for safety, maintaining tolerable sound level and minimizing dust hazard, in constrained conditions/ limited scope of work to utilise full capacity of manpower, equipment and removal of debris and stacked in a safe place within the campus/ project site area as per directions and acceptance by the Engineer-in-charge. Up to Ground Floor	sqm	341.00	336.00	324.00	324.00
03.4.1	Dismantling of brick works of thickness 250 mm or more in foundation and in plinth including any type of plaster, skirting, dado etc. by using electromechanical equipment; cleaning the surface by soft-brooming, providing provision for safety, maintaining tolerable sound level and minimizing dust hazard, in constrained conditions/ limited scope of work to utilise full capacity of manpower, equipment and removal of debris, salvaged materials and stacked in a safe place within the campus/ project site area as per directions and acceptance by the Engineer-in-charge.	cum	1,127.00	1,110.00	1,062.00	1,062.00
03.4.2	Dismantling of brick work of thickness 250 mm or more in superstructure including any type of plaster, skirting, dado etc. by using electromechanical equipment; cleaning the surface by soft-brooming, providing provision for safety, maintaining tolerable sound level and minimizing dust hazard, in constrained conditions/ limited scope of work to utilise full capacity of manpower, equipment and removal of debris, salvaged materials and stacked in a safe place within the campus/ project site area as per directions and acceptance by the Engineer-in-charge. Up to Ground Floor	cum	1,160.00	1,142.00	1,095.00	1,095.00
03.4.3	Dismantling of brick works of thickness 75/125 mm in foundation and plinth including any type of plaster, skirting, dado etc. by using electromechanical equipment; cleaning the surface by soft-brooming, providing provision for safety,	sqm	169.00	166.00	159.00	159.00






Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	maintaining tolerable sound level and minimizing dust hazard, in constrained conditions/ limited scope of work to utilise full capacity of manpower, equipment and removal of debris, salvaged materials and stacked in a safe place within the campus/ project site area as per directions and acceptance by the Engineer-in-charge.					
03.4.4	Dismantling of brick works of thickness 75/125 mm in superstructure including any type of plaster, skirting, dado etc. by using electromechanical equipment; cleaning the surface by soft-brooming, providing provision for safety, maintaining tolerable sound level and minimizing dust hazard, in constrained conditions/ limited scope of work to utilise full capacity of manpower, equipment and removal of debris, salvaged materials and stacked in a safe place within the campus/ project site area as per directions and acceptance by the Engineer-in-charge. Up to Ground Floor	sqm	177.00	175.00	167.00	167.00
03.4.5	Dismantling of jally or hollow brick work and hollow block wall by manual means; cleaning the surface by soft-brooming, ensuring proper safety measures, maintaining tolerable sound level and minimizing dust hazard, in constrained conditions/ limited scope of work to utilise full capacity of manpower and removal of debris, salvaged materials and stacked in a safe place within the campus/ project site area as per directions and acceptance by the Engineer-in-charge. Up to Ground Floor	sqm	335.00	329.00	309.00	309.00
03.4.6	Dismantling of plain concrete made of lime or cement including any thin finishing on it by using electro- mechanical equipment; cleaning the surface by soft-brooming, providing provision for safety, maintaining tolerable sound level and minimizing dust hazard, in constrained conditions/ limited scope of work to utilise full capacity of manpower and removal of debris and stacked in a safe place within the campus/ project site area as per directions and acceptance by the Engineer-in-charge. Up to Ground Floor	cum	2,552.00	2,514.00	2,408.00	2,408.00
03.4.7	Dismantling of brick flat soling by manual means; cleaning the surface by soft-brooming, providing provision for safety, maintaining tolerable sound level and minimizing dust hazard, in constrained conditions/ limited scope of work to utilise full capacity of manpower and removal of debris, salvaged materials and stacked in a safe place within the campus/ project site area as per directions and acceptance by the Engineer-in-charge.	sqm	38.00	37.00	34.00	34.00
03.5.1	Dismantling of RC foundation, foundation beam, grade beam including any plaster and thin finishing on it by using electromechanical equipment; cleaning the surface by soft-brooming, providing provision for safety, maintaining tolerable sound level and minimizing dust hazard, in constrained conditions/ limited scope of work to utilise full capacity of manpower, equipment and removal of debris,	cum	5,027.00	4,958.00	4,767.00	4,767.00

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Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	salvaged materials and stacked in a safe place within the campus/ project site area as per directions and acceptance by the Engineer-in-charge.					
03.5.2	Dismantling of RC Beam, Lintel, Tie Beam, Column, Wall, Drop wall, Railing including any plaster, skirting/ dado and thin finishing on it by using electromechanical equipment; cleaning the surface by soft-brooming, providing provision for safety, maintaining tolerable sound level and minimizing dust hazard, in constrained conditions/ limited scope of work to utilise full capacity of manpower, equipment and removal of debris, salvaged materials and stacked in a safe place within the campus/ project site area as per directions and acceptance by the Engineer-in-charge. Up to Ground Floor	cum	5,461.00	5,391.00	5,200.00	5,200.00
03.5.3	Dismantling of RC in roof slab, sun shed, cornice including any plaster and thin finishing on it by using electromechanical equipment; cleaning the surface by soft-brooming, providing provision for safety, maintaining tolerable sound level and minimizing dust hazard, in constrained conditions/ limited scope of work to utilise full capacity of manpower, equipment and removal of debris, salvaged materials and stacked in a safe place within the campus/ project site area as per directions and acceptance by the Engineer-in-charge. Up to Ground Floor	cum	4,442.00	4,399.00	4,280.00	4,280.00
03.5.4	Making punch in RC slab in specified regular shape and sizes (3x3 to 4x4 inches) for beam and/ or column jacketing by using sharp drilling/ cutting electric equipment, avoiding harmful effect to the adjacent parts of the member; cleaning the surfaces by soft-brooming, providing provision for safety, maintaining tolerable sound level and minimizing dust hazard, in constrained conditions/ limited scope of work to utilise full capacity of manpower, equipment and removal of debris and stacked in a safe place within the campus/ project site area as per directions and acceptance by the Engineer-in-charge.	each	188.00	186.00	181.00	181.00
03.6.1	Removal of all types of unconcealed sewer pipes, rain water pipes including cleaning both inside and outside of the pipes by manual means, providing provision for safety, maintaining tolerable sound level and minimizing dust hazard, in constrained conditions/ limited scope of work to utilise full capacity of manpower and removal of debris, salvaged materials and stacked in a safe place within the campus/ project site area as per directions and acceptance by the Engineer-in-charge. Up to Ground Floor	meter	38.00	37.00	36.00	36.00
03.6.2	Taking out of all types of concealed sewer pipes, rain water pipes (which are not dismantlable/ removable with other dismantling works) including cleaning both in and outside of the pipes by manual means, providing provision for safety, maintaining tolerable sound level and minimizing dust hazard, in constrained conditions/ limited scope of work	meter	72.00	71.00	67.00	67.00






Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	to utilise full capacity of manpower and removal of debris, salvaged materials and stacked in a safe place within the campus/ project site area as per directions and acceptance by the Engineer-in-charge. Up to Ground Floor					
03.6.3	Taking out of all types of unconcealed water supplying pipes (which are not dismantlable/ removable with other dismantling works) including cleaning both inside and outside of the pipes by manual means, providing provision for safety, maintaining tolerable sound level and minimizing dust hazard, in constrained conditions/ limited scope of work to utilise full capacity of manpower and removal of debris, salvaged materials and stacked in a safe place within the campus/ project site area as per directions and acceptance by the Engineer-in-charge. Up to Ground Floor	meter	23.08	22.54	21.07	21.07
03.6.4	Taking out of all types of concealed water supplying pipes (which are not dismantlable/ removable with other dismantling works) including cleaning both inside and outside of the pipes by manual means, providing provision for safety, maintaining tolerable sound level and minimizing dust hazard, in constrained conditions/ limited scope of work to utilise full capacity of manpower and removal of debris, salvaged materials and stacked in a safe place within the campus/ project site area as per directions and acceptance by the Engineer-in-charge. Up to Ground Floor	meter	35.00	34.00	32.00	32.00
03.6.5	Taking out of all types of soil pipes including excavation of soil, dismantling of brick flat soling and cement concrete, cleaning pipes by manual means, providing provision for safety, maintaining tolerable sound level and minimizing dust hazard, in constrained conditions/ limited scope of work to utilise full capacity of manpower and removal of debris, salvaged materials and stacked in a safe place within the campus/ project site area as per directions and acceptance by the Engineer-in-charge.	meter	116.00	113.00	106.00	106.00
03.7.1	Dismantling of apron (CC 2" average with NCF and BFS) by manual means, providing provision for safety, maintaining tolerable sound level and minimizing dust hazard, in constrained conditions/ limited scope of work to utilise full capacity of manpower and removal of debris, salvaged materials and stacked in a safe place within the campus/ project site area as per directions and acceptance by the Engineer-in-charge.	sqm	77.00	75.00	71.00	71.00
03.7.2.1	Dismantling of drain of 125 mm brick Walls (average inner width=12", clear depth =10") including all plaster, NCF etc. by manual means, providing provision for safety, maintaining tolerable sound level and minimizing dust hazard, in constrained conditions/ limited scope of work to utilise full capacity of manpower and removal of debris, salvaged materials and stacked in a safe place within the campus/ project site area as per directions and acceptance by the Engineer-in-charge.	meter	118.00	115.00	108.00	108.00






Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
03.7.2.2	Dismantling of drain of 250 mm brick walls (average inner width=12", average clear depth=15", CC=3" and BFS) including all plaster, NCF etc. by manual means, providing provision for safety, maintaining tolerable sound level and minimizing dust hazard, in constrained conditions/ limited scope of work to utilise full capacity of manpower and removal of debris, salvaged materials and stacked in a safe place within the campus/ project site area as per directions and acceptance by the Engineer-in-charge.	meter	181.00	177.00	166.00	166.00
03.7.2.3	Dismantling of drain of RC wall and base thickness- 5.5" average (average inner width=12", average clear depth=15", BFS) including all plaster, NCF etc. by manual means, providing provision for safety, maintaining tolerable sound level and minimizing dust hazard, in constrained conditions/ limited scope of work to utilise full capacity of manpower and removal of debris, salvaged materials and stacked in a safe place within the campus/ project site area as per directions and acceptance by the Engineer-in-charge.	meter	435.00	427.00	403.00	403.00
03.8	Removal of all types of debris/ extra unusable earth/ unusable sand/ mud/ sludges etc. from the site/ campus by truck/ cart in such way that no carrying materials fall outside during carrying etc. in connection with retrofitting works only, in constrained conditions/ limited scope of work to utilise full capacity of manpower and machineries/ equipment/ transport as per direction and approval of the Engineer-in-charge.					
03.8.1	From the project site within Dhaka city	cum (bulk)	507.00	507.00	464.00	464.00
03.8.2	From the project site within other divisional and district town	cum (Bulk)	507.00	507.00	464.00	464.00
03.9.1	Added cost for each additional floor above ground floor for Item no.- 03.1.1	sqm	0.68	0.66	0.61	0.61
03.9.2	Added cost for each additional floor above ground floor for Item no.- 03.1.2	sqm	1.35	1.33	1.23	1.23
03.10.1	Added cost for each additional floor above ground floor for Item no.- 03.2.1	sqm	4.84	4.75	4.40	4.40
03.10.2	Added cost for each additional floor above ground floor for Item no.- 03.2.2	sqm	5.81	5.71	5.28	5.28
03.11.1	Added cost for each additional floor above ground floor for Item no.- 03.3.1	sqm	7.26	7.13	6.60	6.60
03.11.2	Added cost for each additional floor above ground floor for Item no.- 03.3.2	sqm	14.53	14.26	13.21	13.21
03.12.1	Added cost for each additional floor above ground floor for Item no.- 03.4.2	cum	48.00	47.00	44.00	44.00
03.12.2	Added cost for each additional floor above ground floor for Item no.- 03.4.4	Sqm	7.26	7.13	6.60	6.60






Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
03.12.3	Added cost for each additional floor above ground floor for Item no.- 03.4.5	Sqm	14.53	14.26	13.21	13.21
03.12.4	Added cost for each additional floor above ground floor for Item no.- 03.4.6	Cum	106.00	104.00	97.00	97.00
03.13.1	Added cost for each additional floor above ground floor for Item no.- 03.5.2	cum	191.00	188.00	174.00	174.00
03.13.2	Added cost for each additional floor above ground floor for Item no.- 03.5.3	cum	120.00	117.00	109.00	109.00
03.14.1	Added cost for each additional floor above ground floor for Item no.- 03.6.1	meter	0.74	0.72	0.67	0.67
03.14.2	Added cost for each additional floor above ground floor for Item no.- 03.6.2	meter	3.69	3.62	3.35	3.35
03.14.3	Added cost for each additional floor above ground floor for Item no.- 03.6.3	meter	1.48	1.45	1.34	1.34
03.14.4	Added cost for each additional floor above ground floor for Item no.- 03.6.4	meter	2.21	2.17	2.01	2.01

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CHAPTER 04: EXCAVATION, FILLING & SITE DEVELOPMENT AND PALISADING

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
04.1	Earth work in excavation by manual means for the purpose of retrofitting work in new foundation works or around existing columns/ RC walls/ load bearing vertical members, keeping safety provision for human and utility services, maintaining restriction for public access & minimizing hazard, in constrained conditions/ limited scope of work to utilise full capacity of manpower, removal of excavated soil by head-load/ hand-trolley and stacked in a safe place within the campus/ project site area as per directions and acceptance by the Engineer-in-charge.					
04.1.1	Earthwork in excavation up to 1.5m depth and maximum 10m lead.	cum	223.00	218.00	203.00	203.00
04.1.2	Added rate for each additional 0.5m depth exceeding 1.5m.	cum	48.00	47.00	44.00	44.00
04.1.3	Added rate for each 1m additional lead beyond 10m.	cum	7.15	7.02	6.50	6.50
04.2.1	Bailing out of trapped water (due to seepage) from foundation trenches by 1/4 cusec capacity diesel operated water pump including hire charge of pump, fuel, operator, spare parts and maintenance, in constrained conditions/ limited scope of work to utilise full capacity of manpower and machineries/ equipment etc. all complete as per directions and acceptance by the Engineer-in-charge.	hour	679.00	679.00	658.00	658.00
04.2.2	Bailing out of water (due to Rain, flood) from foundation by 1 cusec diesel operated pump including hire charge of pump, fuel, operator, spares and maintenance, in constrained conditions/ limited scope of work to utilise full capacity of manpower and machineries/ equipment etc. all complete as per directions and acceptance by the Engineer-in-charge.	hour	849.00	843.00	819.00	819.00
04.2.3	Bailing out of water (due to Rain, flood) from foundation by 1 cusec electricity operated pump including hire charge of pump, electric bill, operator, spares and maintenance, in constrained conditions/ limited scope of work to utilise full capacity of manpower and machineries/ equipment etc. all complete as per directions and acceptance by the Engineer-in-charge.	hour	696.00	690.00	665.00	665.00
04.3.1	Supplying of 75 mm diameter all through straight borrak bamboo posts , shaping the top of the post and driving the same vertically in the ground up to required depth by suitable means in constrained conditions/ limited scope of work to utilise full capacity of manpower and machineries/ equipment etc. all complete as per directions and acceptance by the Engineer-in-charge.	meter	108.00	108.00	102.00	102.00
04.3.2	Supplying of straight 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 suitable method including all	meter	995.00	981.00	931.00	931.00






Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	arrangement for staging, hoisting & carrying, in constrained conditions/ limited scope of work to utilise full capacity of manpower and machineries/ equipment etc. all complete as per directions and acceptance by the Engineer-in-charge.					
04.4.1	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, in constrained conditions/ limited scope of work to utilise full capacity of manpower and machineries/ equipment etc. all complete as per directions and acceptance by the Engineer-in-charge. (Rate is excluding the cost of bamboo post).	sqm	775.00	767.00	737.00	737.00
04.4.2	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 (very big nail), in constrained conditions/ limited scope of work to utilise full capacity of manpower and machineries/ equipment etc. all complete as per directions and acceptance by the Engineer- in-charge.	meter	249.00	246.00	238.00	238.00
04.5.1	Shore protection work with all through 75 mm diameter straight borrak bamboo as vertical post @ 450 mm c/c and palisading work by supplying of bitumen drum sheet walling tied with 20 BWG G.I. Wire fixing the same with driven borrak bamboo posts with half split borrak bamboo runners @ 450mm c/c horizontally with iron nails, G.I. wire etc. during excavation in foundation trenches up to 1.5 m depth to protect loss due to damage of property, in constrained conditions/ limited scope of work to utilise full capacity of manpower and machineries/ equipment etc. all complete as per directions and acceptance by the Engineer-in-charge.	sqm	1,172.00	1,163.00	1,112.00	1,112.00
04.5.2	Shore protection work with 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 anchoring and tying and palisading work by supplying of bitumen drum sheet walling tied with 20 BWG G.I. wire fixing the same with driven borrak bamboo posts with half split borrak bamboo runners @ 450mm c/c horizontally with iron nails, G.I. wire etc. during excavation in foundation trenches beyond 1.5 m depth to protect loss due to damage of property by palisading, in constrained conditions/ limited scope of work to utilise full capacity of manpower and machineries/ equipment etc. all complete as per directions and acceptance by the Engineer-in-charge.	sqm	1,234.00	1,223.00	1,173.00	1,173.00
04.5.3	Shore/ plinth protection work by execution of brick works (1:6) with 1st class bricks, water curing for 7 days and driving the brick works by successive excavation of the inside soil etc. all complete in constrained conditions/ limited scope of work to utilise full capacity of manpower and machineries/ equipment etc. all complete as per directions and acceptance by the Engineer-in-charge. (RCC driving shoe to be used and to be paid as separate item, the cost for excavation of earth for driving brick works is not included here.)	cum	9,056.00	9,033.00	8,681.00	8,681.00






Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
04.6	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, in constrained conditions/ limited scope of work to utilise full capacity of manpower and machineries/ equipment etc. all complete as per directions and acceptance by the Engineer-in-charge.	cum	371.00	364.00	339.00	339.00

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CHAPTER 05: REINFORCED CONCRETE WORKS

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
05.1	Execution of reinforced concrete works with minimum cement content relates to mix ratio 1:1.5:3 (with cement CEM-I, 100% coarse sand of equivalent F.M.-2.2 and stone chips of 20 mm down well graded) in constrained conditions and limited scope of works to utilise full capacity of manpower and machineries/ equipment; by satisfying the following specifications, properties, conformities etc. all complete as per direction, approval and acceptance by the Engineer-in-charge. (Rate is excluding the cost of reinforcement and its fabrication, placing, binding etc., the cost of shuttering & centering and the cost of curing. Rate is adjusted for volume of rebar in concrete.) The hardened concrete shall have 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/ ASTM, cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 Mpa)/ ASTM-C 150 type-I, 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, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position, mixing concrete ingredients with standard mixer machine with hopper, fed by standard measuring boxes or in batching plant, casting in forms, compacting by vibrator machine and curing with water at least for 28 days, removing centering-shuttering after specified time approved, bearing cost of all materials, manpower, equipment, energies/ powers, laboratory testing charges of materials and cylinders as required and including all other charges.					
05.1.1	Cost of concrete (dimension extension/ jacketing) to existing individual & combined footing.	cum	15,451.00	15,598.00	14,654.00	14,287.00
05.1.2	Cost of concrete for all type of footings, pedestals, column, RC bracing and RC walls (non structural), beam, slab, tie beam, lintel, stair case slab and steps, railing, drop wall, parapet wall, sun shed, cornice (all as new members) Up to Ground Floor	cum	16,995.00	17,118.00	16,084.00	15,717.00
05.1.3	Cost of concrete for insertion of shear wall, wing wall Up to Ground Floor	cum	16,481.00	16,612.00	15,608.00	15,240.00
05.1.4	Cost of concrete for jacketing existing pedestals, column, RC bracing, beam and RC wall lamination. Up to Ground Floor	cum	19,012.00	19,130.00	17,975.00	17,582.00
05.2	Execution of reinforced concrete works with minimum cement content relates to mix ratio 1:1.5:3 (with cement CEM-I, 100% coarse sand of equivalent F.M.-2.2 and stone chips of 12.5 mm down well graded) in constrained conditions and limited scope of works to utilise full capacity of manpower and machineries/ equipment; by satisfying the following specifications, properties, conformities etc. all complete as per direction, approval and acceptance by the					






Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	<p>Engineer-in-charge. (Rate is excluding the cost of reinforcement and its fabrication, placing, binding etc., the cost of shuttering & centering and the cost of curing. Rate is adjusted for volume of rebar in concrete.)</p> <p>The hardened concrete shall have minimum $f_{cr} = 30$ Mpa, satisfying a specified compressive strength $f_c = 25$ Mpa at 28 days on standard cylinders as per standard practice of code ACI/ BNBC/ ASTM, cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 Mpa)/ ASTM-C150 type-I; best quality sylhet sand or coarse sand of equivalent F.M.- 2.2 and 12.5 mm down well graded stone chips conforming to ASTM C-33, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position, mixing concrete ingredients with standard mixer machine with hopper, fed by standard measuring boxes or in batching plant, casting in forms, compacting by vibrator machine and curing with water at least for 28 days, removing centering-shuttering after specified time approved, bearing cost of all materials, manpower, equipment, energies/ power, laboratory testing charges of materials and cylinders as required and including all other charges.</p>					
05.2.1	<p>Cost of concrete for jacketing existing pedestals, column, RC bracing, beam and RC wall lamination. Up to Ground Floor</p>	cum	17,486.00	17,441.00	16,831.00	16,634.00
05.3	<p>Execution of reinforced concrete works with mix ratio of Non-Shrink Grout compound and 12.5 mm down well graded micro-stone chips (2:1 part by weight) in constrained conditions and limited scope of works to utilise full capacity of manpower and machineries/ equipment; by satisfying the following specifications, properties, conformities etc. all complete as per direction, approval and acceptance by the Engineer-in-charge. (Rate is excluding the cost of reinforcement and its fabrication, placing, binding etc., the cost of shuttering & centering and the cost of curing. Rate is adjusted for volume of rebar in concrete.)</p> <p>Making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position, mixing concrete ingredients with standard mechanical stirrer, fed by standard measuring boxes or in batching plant, casting in forms, compacting by vibrator machine and curing with water at least for 28 days, removing centering-shuttering after specified time approved, bearing cost of all materials, manpower, equipment, energies/ power, laboratory testing charges of materials and cylinders as required and including all other charges.</p> <p>The hardened concrete shall have minimum $f_{cr} = 40$ Mpa, satisfying a specified compressive strength $f_c = 32$ Mpa at 28 days on standard cylinders as per standard practice of code ACI/ BNBC/ ASTM, Non-Shrink Grout compound shall have dual shrinkage compensated properties (at plastic and hardened state as per test methods- ASTM C940 and C1090) and conforming to initial setting time more than 4 hours, final setting time less than 7 hours following test method ASTM C191-01a and 12.5 mm down well graded stone chips conforming to ASTM C-33, water mixing ratio as</p>					

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Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	per guidelines of Non-Shrink Grout manufacturer or as appropriate to attain desired consistency for free flow, self-compaction and compressive strength.					
05.3.1	Cost of Concrete for Jacketing existing Pedestals, column, RC bracing, Beam and RC Wall lamination. Up to Ground Floor	cum	131,332.00	131,211.00	130,386.00	130,282.00
05.3.2	Cost of concrete for filling gap in connection with fitting steel bracing and gap filling in shear wall. Up to Ground Floor	cum	122,740.00	122,627.00	121,856.00	121,759.00
05.4	<p>Execution of reinforced concrete works with Non-Shrink Grout compound only in constrained conditions and limited scope of works to utilise full capacity of manpower and machineries/ equipment; by satisfying the following specifications, properties, conformities etc. all complete as per direction, approval and acceptance by the Engineer-in-charge. (Rate is excluding the cost of reinforcement and its fabrication, placing, binding etc., the cost of shuttering & centering and the cost of curing. Rate is adjusted for volume of rebar in concrete.)</p> <p>Making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position, mixing concrete ingredients with standard mechanical stirrer, fed by standard measuring boxes or in batching plant, casting in forms, compacting by vibrator machine and curing with water at least for 28 days, removing centering-shuttering after specified time approved, bearing cost of all materials, manpower, equipment, energies/ power, laboratory testing charges of materials and cylinders as required and including all other charges.</p> <p>The hardened concrete/ mortar shall satisfy a specified compressive strength $f_c = 45$ MPa at 28 days on standard cylinders as per standard practice of Code ACI/ BNBC/ ASTM, Non-Shrink Grout compound shall have dual shrinkage compensated properties (at plastic and hardened state as per test Methods- ASTM C940 and C1090) and conforming to initial setting time more than 4 hours, final setting time less than 7 hours following test method ASTM C191-01a and water mixing ratio as per guidelines of Non-Shrink Grout manufacturer or as appropriate to attain desired consistency for free flow, self-compaction and compressive strength.</p>					
05.4.1	Cost of concrete for jacketing to existing pedestals, column, RC bracing, beam and RC Wall lamination. Up to Ground Floor	cum	165,084.00	165,005.00	164,643.00	164,643.00
05.5	Execution of reinforced concrete works/ mortar works with Non-Shrink Grout only by using mechanical pump machine into beam-column joint, RC bracing joint and in narrow gap specially specified, in constrained conditions and limited scope of works to utilise full capacity of manpower and machineries/ equipment; by satisfying the following specifications, properties, conformities etc. all complete as per direction, approval and acceptance by the Engineer-in-charge. (Rate is excluding the cost of reinforcement and its	cum	165,412.00	165,245.00	164,674.00	164,674.00






Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	<p>fabrication, placing, binding etc., the cost of shuttering & centering and the cost of curing. Rate is adjusted for volume of rebar in concrete.)</p> <p>Making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position, mixing concrete ingredients with standard mixer machine (heavy duty low speed electro-mechanical stirrer), fed by standard measuring boxes or in batching plant, casting in forms, compacting by vibrator machine and curing with water at least for 28 days, removing centering-shuttering after specified time approved, bearing cost of all materials, manpower, equipment, energies/ power, laboratory testing charges of materials and cylinders as required and including all other charges. The hardened concrete/ mortar shall satisfy a specified compressive strength $f_c = 45$ MPa at 28 days on standard cylinders as per standard practice of Code ACI/ BNBC/ ASTM, Non-Shrink Grout compound shall have dual shrinkage compensated properties (at plastic and hardened state as per test methods- ASTM C940 and C1090) and conforming to initial setting time more than 4 hours, final setting time less than 7 hours following test method ASTM C191-01a and water mixing ratio as per guidelines of Non-Shrink Grout manufacturer or as appropriate to attain desired consistency for free flow, self-compaction and compressive strength.</p> <p>Up to Ground Floor</p>					
05.6	Added cost for each additional floor above ground floor for Concrete in limited scope of works.	cum	143.00	141.00	131.00	131.00
05.7	Providing formwork/ shuttering , prop and necessary support etc. (steel): 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.); in constrained conditions and limited scope of works to utilise full capacity of manpower and machineries/ equipment; removal of formworks including all types of support after hardening of concrete etc. all complete as per direction, approval and acceptance by the Engineer-in-charge (this item to be treated as hired)					
05.7.1	Individual and combined footing, slab without bottom shuttering up to plinth level including curing by water.	sqm	665.00	663.00	650.00	650.00
05.7.2	Columns, Pedestals, column capitals, RC bracing, RC walls, foundation beam and railing, louver and fins using steel shutter including curing by water. Up to Ground Floor	sqm	883.00	878.00	848.00	848.00
05.7.3	Tie-beam, lintel, T-beam, I-beam, rectangular beam, drop walls using steel shutter including curing by water. Up to Ground Floor	sqm	710.00	706.00	684.00	684.00
05.7.4	Floor and roof slab, stair case slab, stair steps, sun shed and cornice using steel shutter including curing by water. Up to Ground Floor	sqm	761.00	758.00	745.00	745.00






Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
05.8	Providing centering and shuttering with plywood board, wooden batten and steel prop for non-shrink grout only: centering and shuttering, including strutting, propping etc. for non-shrink grout works only, in constrained conditions and limited scope of works and removal of formworks including all types of support after hardening of concrete etc. all complete as per direction, approval and acceptance by the Engineer-in-charge (this item to be treated as hired)					
05.8.1	Pedestal, column, column capital, RC bracing, RC walls and steel bracing using plywood board shutter (18 mm thickness) & wooden batten (cost of leak proofer chemical included) Up to Ground Floor	sqm	1,475.00	1,474.00	1,470.00	1,470.00
05.8.2	T-beam, Ell-beam, rectangular beam, grade beam using plywood board (18 mm) shutter & wooden batten (cost of leak proofer chemical included) Up to Ground Floor	sqm	141.00	141.00	141.00	141.00
05.9	Added cost for each additional floor above ground floor for formwork/ shuttering including curing in limited scope of works.	sqm	27.00	27.00	25.00	25.00
05.10	Supplying of carbon fiber reinforced polymer plate/ laminator (CFRP) and fitting, fixing as per application guidelines of the manufacturer (Surface preparation, applying primer adhesive, levelling epoxy resin adhesive, bonding epoxy resin adhesive, sand pasting etc.) and as per specified structural design supplied by the procuring entity and satisfying the following method, criteria, properties, conformities, in constrained conditions/ limited scope of work to utilise full capacity of manpower and as per approval and direction of the Engineer-in-charge (the rate to be excluding the cost of plaster removal). Surface preparation: Grinding/ molding concrete substrate, cleaning it with wire brush removing oil, laitance if present, rounding sharp edges to min 25 mm radius etc. complete. Profiling: Applying compatible primer on prepared substrate, filling the holes and uneven surface with thixotropic putty etc. complete. Wrapping: Wrapping the fiber plate/ sheet to structural element at desired orientation using tamping roller to avoid any air voids etc. Repeat the same procedure for multiple layers with the interval of 8hrs or as directed in manufacturer's catalogue. Sand pasting: Applying second coat of saturant after minimum 12 hours, rectify air voids if any, paste the specified sand (F.M.-1.20) on it to the make the surfaces rough to take any further finishes. The contractor shall supply the catalogue, certificate of origin of the carbon fiber plate, primer, levelling putty, epoxy resin adhesive and certification of properties by the international standard organisation (such as ASTM, BS, EN) from the approved manufacturer/ agent/ dealer in Bangladesh and copy of challan of purchasing. The epoxy primer shall satisfy the properties as per testing criteria ASTM-D 638, D 695 and D 790- (a) density 68.8 pcf (min.), (b) tensile properties {yield strength 2100 psi (min.) strain at yield 2.0%, elastic modulus 105 ksi (min.), ultimate strength 2500 psi (min.), rupture strain 40% max.},					






Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	<p>(c) compressive properties {yield strength 3800 psi (min.), strain at yield 4.0% (max.), elastic modulus 97 ksi (min.), ultimate strength 4100 psi (min.), rupture strain 10% (max.)}, (d) flexural properties {yield strength 3500 psi (min.), strain at yield 4.0% (max.), elastic modulus 86.3 ksi (min.), ultimate strength 3500 psi (min.), rupture strain large deformation with no rupture} and also have the property of drying Time at 20° C equal to or less than 10 hours.</p> <p>The epoxy adhesive shall satisfy the properties: (a) Compressive strength greater than 40 MPa at 1 day and greater than 65 Mpa at 7 days as per ASTM-C579, (b) Flexural strength greater than 25 MPa at 7 days as per BS-6319, pt 3, (c) Adhesive bond strength to concrete greater than 2.5 MPa as per ASTM- D4541 and (d) initial curing time 6 to 12 hours and full curing time 3 to 5 days.</p>					
05.10.1	with CFRP Plate of thickness: 1.11 to 1.20 mm (one layer) (Having the strength properties: (a) Minimum Value of tensile modulus- 150 GPa, (b) Minimum Value of tensile strength-1800 MPa, (c) Maximum elongation at break- 1.3%)	sqm	41,640.00	41,635.00	41,628.00	41,628.00
05.10.2	with CFRP Plate of thickness: 1.40 mm (one layer) (Having the strength properties: (a) Minimum Value of tensile modulus- 163 GPa, (b) Minimum Value of tensile strength-2800 MPa, (c) Maximum elongation at break- 1.6%)	sqm	43,940.00	43,935.00	43,928.00	43,928.00
05.11	<p>Supplying of unidirectional carbon fiber sheet (fabric) and fitting, fixing as per application guidelines of the manufacturer (surface preparation, applying primer adhesive, levelling epoxy resin adhesive, bonding epoxy resin adhesive/ saturant, coarse sand (F.M.-1.20) spreading over finished surfaces) and as per specified structural design supplied by the procuring entity and satisfying the following method, criteria, properties, conformities; in constrained conditions/ limited scope of work to utilise full capacity of manpower and as per approval and direction of the Engineer-in-charge (the rate to be excluding the cost of plaster removal)</p> <p>Surface preparation: Grinding/ molding concrete substrate, cleaning it with wire brush removing oil, laitance if present, rounding sharp edges to min 10 mm radius etc. complete. Profiling: Applying compatible primer on prepared substrate, filling the holes and uneven surface with thixotropic putty etc. complete. Wrapping: Wrapping the fiber sheet to structural element at desired orientation using tamping roller to avoid any air voids etc. Repeat the same procedure for multiple layers with the interval of 8 hours or as directed in manufacturer's catalogue. Sand pasting: Applying second coat of saturant after minimum 12 hours, rectify air voids if any, paste the specified sand (F.M.-1.20) on it to the make the surfaces rough to take any further finishes.</p> <p>The surfaces must be well prepared (free from plaster or other finishing layers, loose particles, dust, oil, grease, any old coating etc., holes/ pores filled up, levelled, dry and corners of the structural members must be rounded in minimum radius of 10 mm). The contractor shall supply the catalogue, certificate of origin of the carbon fiber sheet, primer, saturant and certification of properties & testing</p>					

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Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	<p>criteria by the international standard organisation (such as ASTM, BS, EN) from the approved manufacturer/ agent/ dealer in Bangladesh and copy of challan of purchasing.</p> <p>The epoxy primer shall satisfy the properties as per testing criteria ASTM-D 638, D 695 and D 790- (a) density 68.8 pcf (1102 kg/m³), (b) tensile properties {yield strength 2100 psi (14.5 Mpa) strain at yield 2.0%, elastic modulus 105 ksi (717 Mpa), ultimate strength 2500 psi (17.2 Mpa), rupture strain 40%}, (c) compressive properties {yield strength 3800 psi (26.2 Mpa), strain at yield 4.0%, elastic modulus 97 ksi (670 Mpa), ultimate strength 4100 psi (28.3 Mpa), rupture strain 10%}, (d) flexural properties {yield strength 3500 psi (24.1 Mpa), strain at yield 4.0%, elastic modulus 86.3 ksi (595 Mpa), ultimate strength 3500 psi (24.1 Mpa), rupture strain large deformation with no rupture} and also have the property of drying Time at 20°C equal to or less than 10 hours.</p> <p>The saturant (Epoxy encapsulation resin) shall satisfy the properties as per testing criteria ASTM-D 638, D 695, D 790: (a) Tensile properties {Yield Strength 7900 psi (54 MPa), Strain at Yield 2.5%, Elastic Modulus 440 ksi (3034 MPa), ultimate Strength 8000 psi (55.2 MPa), Rupture Strain 3.5%}, (b) Compressive properties {Yield Strength 12500 psi (86.2 MPa), Strain at Yield 5.0%, Elastic Modulus 380 ksi (2620 MPa), ultimate Strength 12500 psi (86.2 MPa), Rupture Strain 5%}, (c) Flexural properties {Yield Strength 20000 psi (138 MPa), Strain at Yield 3.8%, Elastic Modulus 540 ksi (3724 MPa), ultimate strength 20000 psi (138 MPa), Rupture Strain 5%} and also have the property of drying Time 10-24 hours</p> <p>The dry carbon fiber sheet (fabric) shall satisfy the typical properties as per testing method ASTM-D3039: minimum Elastic Modulus 230,000 N/mm², minimum tensile strength 3500 N/mm², maximum elongation at break 1.5%</p>					
05.11.1	with CF Sheet of weight: 200 to 230 gsm (one layer), subject to satisfying the aforesaid properties	sqm	11,919.00	11,914.00	11,906.00	11,906.00
05.11.2	with CF Sheet of weight: 300 gsm (one layer)	sqm	12,576.00	12,571.00	12,563.00	12,563.00
05.11.3	with CF Sheet of weight: 430 to 450 gsm (one layer)	sqm	14,082.00	14,077.00	14,069.00	14,069.00

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CHAPTER 06: M.S. FABRICATION IN RC WORKS

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
06.1	Supplying, fabrication and fixing to detail as per design in constrained conditions and limited scope of works: Ribbed or deformed bar reinforcement 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) etc. 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 diameter of bars exceeds its standard).					
06.1.1	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 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	120.00	119.00	118.00	118.00
06.1.2	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 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	131.00	131.00	129.00	129.00
06.2	Hire charge of electric/ gas welding machine set need to be used in constrained conditions and limited scope of works.	day	921.00	921.00	921.00	921.00
06.3	Execution of welding works in splicing of reinforcing bars including conducting necessary laboratory tests etc. to meet the need of structural design specification/ practical requirement and complying with the requirement and recommendation of AWS D1.1 (ACI mentioned D1.4) using the electrode conforming to E90XX and also satisfying the welded joint strength requirement that the welded splice shall develop at least 1.25 times greater yield strength (f_y) than that of the connecting rebars in tension and compression, in constrained conditions and limited scope of works to utilise full capacity of manpower and machineries/ equipment, including cost of materials , manpower and electricity/ gas cost as per direction and acceptance of Engineer-in-charge. (The rate is excluding the hire charge of welding machine)					
06.3.1	Line Welding at Field	meter	242.00	242.00	242.00	242.00






Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
06.3.2	Point welding in constrained conditions and limited scope of works as per direction and acceptance of the Engineer-in-charge.	point	3.69	3.69	3.69	3.69
06.4	Added rate for each additional floor above ground floor for M.S. Fabrication works in constrained condition/ limited scope of works in connection with retrofitting works only	kg	0.84	0.83	0.77	0.77

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CHAPTER 07: STRUCTURAL STEEL WORKS

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
07.1.1	Supply, fabrication and installation of built-up sections i.e. columns, beams, rafters, bracings etc. from steel plates/ angle in connection with retrofitting works only in constrained conditions and limited scope of works to utilise full capacity of Manpower and machineries/ equipment, conforming to ASTM A572 , with a minimum yield strength of 345 MPa , including the cost of testing of plates/ part of angle/ part of built-up Section, application of red/ grey-oxide primer etc. all complete as per drawing, specification and direction and acceptance of Engineer-in-charge.	kg	130.00	130.00	130.00	130.00
07.1.2	Supply, fabrication and installation of built-up sections i.e. columns, beams, rafters, bracings etc. from steel plates/ angle in connection with retrofitting works only in constrained conditions and limited scope of works to utilise full capacity of manpower and machineries/ equipment, conforming to ASTM A36 , with a minimum yield strength of 275 MPa , including the cost of testing of plates/ part of angle/ part of Section, application of red/grey-oxide primer etc. all complete as per drawing, specification and direction and acceptance of Engineer-in-charge.	kg	126.00	126.00	126.00	126.00
07.2.1	Supply, fabrication and installation of hot rolled sections (W, H, I-shape, Channel/ C-Sec, angle, tube etc.) for columns, beams, rafters, bracings etc. in connection with retrofitting works only in constrained conditions and limited scope of works to utilise full capacity of manpower and machineries/ equipment, conforming to ASTM A36 , with a minimum yield strength of 275 MPa , including the cost of testing of plates/ part of section, application of red/grey-oxide primer etc. all complete as per drawing, specification and direction and acceptance of Engineer-in-charge.	kg	124.00	124.00	124.00	124.00
07.2.2	Supply, fabrication and installation of hot rolled sections (W, H, I-shape, Channel/ C-Sec, angle, tube etc.) for columns, beams, rafters, bracings etc. in connection with retrofitting works only in constrained conditions and limited scope of works to utilise full capacity of manpower and machineries/ equipment, conforming to ASTM A572 , with a minimum yield strength of 345 MPa , including the cost of testing of plates/ part of Section, application of red/grey-oxide primer etc. all complete as per drawing, specification and direction and acceptance of Engineer-in-charge.	kg	131.00	131.00	131.00	131.00
07.3.1	Supply and fixing of connection bolts of variable diameter with nut and washer in connection with retrofitting works only in constrained conditions and limited scope of works to utilise full capacity of manpower and machineries/ equipment, 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 and acceptance of Engineer-in-charge.	kg	363.00	363.00	363.00	363.00
07.3.2	Supply and fixing of connection bolts of variable diameter with nut and washer in connection with retrofitting works only	kg	326.00	326.00	326.00	326.00

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Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	in constrained conditions and limited scope of works to utilise full capacity of manpower and machineries/ equipment, 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 and acceptance of Engineer-in-charge.					
07.4	Supplying and fixing of shear stud of variable diameter in connection with retrofitting works only in constrained conditions and limited scope of works to utilise full capacity of manpower and machineries/ equipment, conforming to ASTM A108 or equivalent with minimum yield strength of 275 MPa, including the cost of testing, welding etc. all complete as per drawing, specification and direction and acceptance of Engineer-in-charge.	kg	171.00	171.00	171.00	171.00
07.5	Erecting/ lifting at specified floor/ location of built-up/ hot rolled sections i.e. columns, beams, rafters, bracings etc. in connection with retrofitting works only in constrained conditions and limited scope of works to utilise full capacity of manpower and machineries/ equipment and as per directions and acceptance of the Engineer-in-charge. Up to 1 st (first) Floor	kg	13.55	13.55	13.55	13.55
07.6	Added rate for each additional floor above first floor for all type of structural steel works in limited scope of works.	kg	2.00 % (two percent)	2.00 % (two percent)	2.00 % (two percent)	2.00 % (two percent)

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CHAPTER 08: CONSTRUCTION CHEMICALS USE

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
08.1	Execution of rebar/ threaded bolt anchoring works in connection with retrofitting works only, in constrained conditions and limited scope of works to utilise full capacity of manpower and machineries/ equipment, by making drilled hole in reinforced concrete members (stone/ brick chips as coarse aggregates) with specified diameter and depth, cleaning the holes by soft nylon round brush and air blower or other suitable methods to remove residues/ dust completely, supplying and injecting/ applying epoxy/ resin based mortar/ grout (effective in dry/ moist/ submerged conditions) in the holes by using epoxy gun so that the mortar overflow after inserting rebar/ bolt in the hole and inserting rebar/ bolt in the hole as per drawing and directions and acceptance of the Engineer-in-charge and complying the following conditions, criteria. (The Cost is excluding the costs of rebars/ bolts and materials sampling & testing) The anchoring grout shall be in paste/ pouring form and shall comply the tensile and share strength criteria provided in structural design as per standard testing methods of the code ACI/ BNBC/ ASTM. The anchoring grout shall have the properties of resistance to corrosion (alkalis, fuels, acids, oils etc.), no-sagging, non-shrinkage, water penetration, initial setting (gelling) time less than 5 minutes, curing time less than 90 minutes at 5 to 35-degree celcius. The contractor shall supply the catalogue, certification of properties & testing criteria by the international standard organisation (such as ASTM, BS, EN), certificate of origin of the anchoring grout from the approved manufacturer/ agent/ dealer in Bangladesh and copy of challan of purchasing.					
08.1.1	Rebar/ Bolt anchoring in reinforced concrete with brick chips as coarse aggregates (dry condition)					
08.1.1.1	Holes: Horizontal, downward and at 90 degrees to slanting surface					
08.1.1.1.1	Rebar 8d, Hole 12d (All in mm)	meter	943.00	943.00	934.00	934.00
08.1.1.1.2	Rebar 10d, Hole 14d (All in mm)	meter	1050.00	1050.00	1040.00	1040.00
08.1.1.1.3	Rebar 12d, Hole 16d (All in mm)	meter	1124.00	1124.00	1116.00	1116.00
08.1.1.1.4	Rebar 16d, Hole 20 (All in mm)	meter	1835.00	1835.00	1826.00	1826.00
08.1.1.1.5	Rebar 20d, Hole 24d (All in mm)	meter	2164.00	2164.00	2155.00	2155.00
08.1.1.1.6	Rebar 25d, Hole 30d (All in mm)	meter	3791.00	3791.00	3781.00	3781.00
08.1.1.2	Upward Holes (90 degree to horizontal surface)					
08.1.1.2.1	Rebar 8d, Hole 12d (All in mm)	meter	1680.00	1680.00	1657.00	1657.00
08.1.1.2.2	Rebar 10d, Hole 14d (All in mm)	meter	1704.00	1704.00	1683.00	1683.00
08.1.1.2.3	Rebar 12d, Hole 16d (All in mm)	meter	1783.00	1783.00	1762.00	1762.00






Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
08.1.1.2.4	Rebar 16d, Hole 20d (All in mm)	meter	2655.00	2655.00	2632.00	2632.00
08.1.1.2.5	Rebar 20d, Hole 24d (All in mm)	meter	3163.00	3163.00	3138.00	3138.00
08.1.1.2.6	Rebar 25d, Hole 30d (All in mm)	meter	5324.00	5324.00	5293.00	5293.00
08.1.2	Rebar/ Bolt anchoring in reinforced concrete with brick chips as coarse aggregates { wet (SSD) & submerged condition }					
08.1.2.1	Holes: Horizontal, downward and at 90 degrees to slanting surface					
08.1.2.1.1	Rebar 8d, Hole 12d (All in mm)	meter	1240.00	1240.00	1231.00	1231.00
08.1.2.1.2	Rebar 10d, Hole 14d (All in mm)	meter	1406.00	1406.00	1396.00	1396.00
08.1.2.1.3	Rebar 12d, Hole 16d (All in mm)	meter	1539.00	1539.00	1531.00	1531.00
08.1.2.1.4	Rebar 16d, Hole 20d (All in mm)	meter	2681.00	2681.00	2672.00	2672.00
08.1.2.1.5	Rebar 20d, Hole 24d (All in mm)	meter	3188.00	3188.00	3179.00	3179.00
08.1.2.1.6	Rebar 25d, Hole 30d (All in mm)	meter	5760.00	5760.00	5750.00	5750.00
08.1.3	Rebar/ bolt anchoring in reinforced concrete with stone chips as coarse aggregates (dry conditions)					
08.1.3.1	Holes: Horizontal, downward and at 90 degrees to slanting surface					
08.1.3.1.1	Rebar 8d, Hole 12d (All in mm)	meter	1041.00	1041.00	1030.00	1030.00
08.1.3.1.2	Rebar 10d, Hole 14d (All in mm)	meter	1094.00	1094.00	1084.00	1084.00
08.1.3.1.3	Rebar 12d, Hole 15d (All in mm)	meter	1173.00	1173.00	1163.00	1163.00
08.1.3.1.4	Rebar 16d, Hole 20d (All in mm)	meter	1902.00	1902.00	1890.00	1890.00
08.1.3.1.5	Rebar 20d, Hole 24d (All in mm)	meter	2276.00	2276.00	2264.00	2264.00
08.1.3.1.6	Rebar 25d, Hole 30d (All in mm)	meter	3998.00	3998.00	3983.00	3983.00
08.1.3.2	Upward Holes (90 degree to horizontal surface)					
08.1.3.2.1	Rebar 8d, Hole 12d (All in mm)	meter	1850.00	1850.00	1824.00	1824.00
08.1.3.2.2	Rebar 10d, Hole 14d (All in mm)	meter	1891.00	1891.00	1866.00	1866.00
08.1.3.2.3	Rebar 12d, Hole 16d (All in mm)	meter	2003.00	2003.00	1978.00	1978.00
08.1.3.2.4	Rebar 16d, Hole 20d (All in mm)	meter	3077.00	3077.00	3046.00	3046.00
08.1.3.2.5	Rebar 20d, Hole 24d (All in mm)	meter	3533.00	3533.00	3502.00	3502.00
08.1.3.2.6	Rebar 25d, Hole 30d (All in mm)	meter	5846.00	5846.00	5807.00	5807.00
08.1.4	Rebar/ Bolt anchoring in reinforced concrete with stone					






Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	chips as coarse aggregates {Wet (SSD) & submerged conditions}					
08.1.4.1	Holes: Horizontal, downward and at 90 degrees to slanting surface					
08.1.4.1.1	Rebar 8d, Hole 12d (All in mm)	meter	1325.00	1325.00	1313.00	1313.00
08.1.4.1.2	Rebar 10d, Hole 14d (All in mm)	meter	1434.00	1434.00	1423.00	1423.00
08.1.4.1.3	Rebar 12d, Hole 16d (All in mm)	meter	1569.00	1569.00	1559.00	1559.00
08.1.4.1.4	Rebar 16d, Hole 20d (All in mm)	meter	2709.00	2709.00	2697.00	2697.00
08.1.4.1.5	Rebar 20d, Hole 24d (All in mm)	meter	3253.00	3253.00	3241.00	3241.00
08.1.4.1.6	Rebar 25d, Hole 30d (All in mm)	meter	5878.00	5878.00	5863.00	5863.00
08.2	New to Old Concrete Bonding:					
08.2.1	New to old concrete bonding works by epoxy based bonding agent : execution of old to new concrete bonding works in connection with retrofitting works only, in constrained conditions and limited scope of works to utilise full capacity of manpower and machineries/ equipment, by supplying, preparing and applying epoxy bonding agent coat as per manufacturer's guidelines in dry and damped conditions onto surfaces (horizontal/ slanting/ vertical) of any type of reinforced concrete members subject to satisfying the following properties/ criteria/ conditions/ conformities and as per direction and acceptance of the Engineer-in-charge. (Rate is excluding the costs for materials sampling & testing) The old concrete surfaces must be properly prepared (remove all loose concrete, particles, dust, grease, oil or curing compound from concrete and steel surfaces using wire brush, light sweep blasting, water jetting etc.) and concrete surfaces must be free from excess standing water. The bonding agent shall have the properties pot life 2 to 3 hours, non-toxic, pullout strength greater than 2.5 N/sq.mm at concrete failure (test method ASTM D4541), bond strength greater than 10 N/sq.mm (test method ASTM C882). The contractor shall supply the catalogue, certification of properties & testing criteria by the international standard organisation (such as ASTM, BS, EN), certificate of origin of the bonding agent from the approved manufacturer/ agent/ dealer in Bangladesh and copy of challan of purchasing.					
08.2.1.1	On top & sides of footings (single, combined, mat, pile Cap) and on top & sides all floor slabs.	sqm	1031.00	1031.00	1028.00	1028.00
08.2.1.2	On joining surfaces of vertical reinforced concrete members below and above ground level (column, pedestal, walls)	sqm	1315.00	1313.00	1295.00	1295.00
08.2.2	New to old concrete bonding works by SBR based bonding agent : execution of old to new concrete bonding works in connection with retrofitting works only, in constrained conditions and limited scope of works to utilise full capacity of manpower and machineries/ equipment, by supplying,					






Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	<p>preparing and applying SBR based bonding agent coat as per manufacturer's guidelines in dry and damped conditions onto surfaces (horizontal/ slanting/ vertical) of any type of reinforced concrete members subject to satisfying the following properties/ criteria/ conditions/ conformities and as per direction and acceptance of the Engineer-in-charge. (Rate is excluding the costs for materials sampling & testing) To be applied by mixing bonding agent and ordinary portland cement in proportion (bonding chemical 1 liter : cement 1.5 kg) or as per application instructions by the bonding chemical manufacturers after the old concrete surfaces properly prepared (remove all loose concrete, particles, dust, grease, oil or curing compound from concrete and steel surfaces using wire brush, scrubber etc.), roughen the concrete surface but must be free from loose particles and dust and saturate the surface with water and remove excess/ standing water. The bonding agent shall have the properties of non-toxicity, adhesion for bond coat (ASTM D4541) greater than 1.50 MPa or concrete failure. The contractor shall supply the catalogue, certificate of origin of the bonding agent and certification of properties & testing criteria by the international standard organisation (such as ASTM, BS, EN) from the approved manufacturer/ agent/ dealer in Bangladesh and copy of challan of purchasing.</p>					
08.2.2.1	On top & sides of footings (single, combined, mat, pile cap) and on top & sides all floor slabs.	sqm	251.00	250.00	248.00	248.00
08.2.2.2	On joining surfaces of vertical reinforced concrete members below and above ground level (column, pedestal, walls)	sqm	535.00	533.00	515.00	515.00
08.2.3	<p>New to old concrete bonding coat by acrylic polymer based bonding agent in dry and damped conditions: supplying, preparing and applying bonding coat in connection with retrofitting works only, in constrained conditions and limited scope of works to utilise full capacity of manpower and machineries/ equipment, by acrylic polymer based bonding agent onto surfaces (horizontal/ slanting/ vertical) of any type of reinforced concrete members by bonding chemical (1 liter bonding agent for 5.00 sqm surface in one coat) or as per application instructions by the bonding agent manufacturers subject to satisfying the following properties/ criteria/ conditions/ conformities and as per direction and acceptance of the Engineer-in-charge. (Rate is excluding the costs for materials sampling & testing) To be applied after the old concrete surfaces properly prepared (remove all loose concrete, particles, dust, grease, oil or curing compound from concrete and steel surfaces using wire brush, scrubber etc.), roughen the concrete surface but must be free from loose particles and dust and saturate the surface with water and remove excess/ standing water. The bonding agent shall have the properties of non-toxicity, materials standard (ASTM C1059 type-II, ASTM C932), tensile bond strength (ASTM C932) greater than 1.0N/sq.mm, pullout strength (ASTM D4541) greater than 1.0 N/sq.mm, slant shear bond strength (ASTM C1042) greater than 8.6 N/sq.mm. The contractor shall supply the catalogue, certificate of origin of the bonding agent and certification of</p>					






Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	properties & testing criteria by the international standard organisation (such as ASTM, BS, EN) from the approved manufacturer/ agent/ dealer in Bangladesh and copy of challan of purchasing.					
08.2.3.1	On top & sides of footings (single, combined, mat, pile cap) and on top & sides all floor slabs.	sqm	216.00	216.00	213.00	213.00
08.2.3.2	On joining surfaces of vertical reinforced concrete members below and above ground level (column, pedestal, walls)	sqm	500.00	498.00	480.00	480.00
08.3.1	<p>Rust removal from rebar/ steel surface by chemical compound: supplying and applying rust removing compound to surfaces of rebar/ steel surfaces in connection with retrofitting works only, in constrained conditions and limited scope of works to utilise full capacity of manpower and machineries/ equipment, as per application guidelines provided by the manufacturer, subject to satisfying the following methods of application/ properties/ criteria/ conditions/ conformities and as per direction and acceptance of the Engineer-in-charge.</p> <p>The rust removing compound to be applied in 1 coat or as per direction by the manufacturers after properly cleaning the heavily rusted steel surfaces by wire brush/ hammering/ grinding etc. to remove loose rust and scale. The rust removing compound shall have the properties to apply in liquid form by using brush, sponge, spray, roller etc. The rust removing compound shall have the properties of non-corrosiveness, specific gravity 1.30 ± 0.05 (ASTM D1475), Ph 2.5 ± 0.05 (ASTM C494). The contractor shall supply the catalogue, certification of properties & testing criteria by the international standard organisation (such as ASTM, BS, EN), certificate of origin of the rust removing compound from the approved manufacturer/ agent/ dealer in Bangladesh and copy of challan of purchasing.</p>	sqm	147.00	146.00	144.00	144.00
08.3.2	<p>Corrosion protective coats to reinforcing bars/ iron elements: supplying of water based primer made of vinyl acrylic copolymer with rust converting agent/ epoxy paint with rust-converting properties and apply to reinforcing bars in 2 (two) coats or as per instruction manual of the chemicals manufacturer or the agent in connection with retrofitting works only, in constrained conditions and limited scope of works to utilise full capacity of manpower and machineries/ equipment, subject to satisfying the following conditions, criteria, properties, conformities and as per direction and acceptance of the Engineer-in-charge.</p> <p>The surfaces of rebar/ steel must be cleaned properly (free from all traces of corrosion, rust, oil, grease, dust and moisture). The rust converter shall have the properties-sprayable, non-toxic, over coat time 2 to 3 hours, forms an iron complex that neutralises the rust layer and stops rust formation. The contractor shall supply the catalogue, certification of properties & testing criteria by the international standard organisation (such as ASTM, BS, EN), certificate of origin of the corrosion (rust) protecting compound from the approved manufacturer/ agent/ dealer in Bangladesh and copy of challan of purchasing.</p>	sqm	120.00	120.00	117.00	117.00






Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
08.4	Supply of polymer based curing compound as per ASTM C309 or BS7542-1992 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 as per direction and acceptance of Engineer-in-charge, to be executed in connection with retrofitting works only, in constrained conditions and limited scope of works to utilise full capacity of manpower and machineries/ equipment. The contractor shall supply the catalogue, certification of properties & testing criteria by the international standard organisation (such as ASTM, BS, EN), certificate of origin of the product from the approved manufacturer/ agent/ dealer in Bangladesh and copy of challan of purchasing.	sqm	272.00	270.00	267.00	267.00
08.5	Water proofing coating (layer): supplying and applying water proofing coating on the concrete/ brick walls surfaces with a slurry made of a liquid polymer and cementitious compound in 2 (two) coats forming a minimum dry layer thickness of 1(one) mm as per application guidelines of the manufacturer, satisfying the following method, criteria, properties, conformities and as per direction and acceptance of the Engineer-in-charge, to be executed in connection with retrofitting works only, in constrained conditions and limited scope of works to utilise full capacity of manpower and machineries/ equipment. The surfaces must be well prepared (free from loose particles, dust, oil, grease, any old coating etc., holes filled up and levelled). The compounds to be mixed by a slow speed (300 RPM) heavy duty electromechanical stirrer; the water proofing slurry shall have the properties of non-toxicity, flexible after drying, applicable on surfaces positive and negative sides of water intrusion, brushable, can be applied on horizontal, inclined and vertical surfaces, application temperature greater than 5 degree celcius, working time not less than 30 minutes. The applied water proofing layer (film) to be protected against rapid drying due to direct sun exposure, high temperature or wind and curing to be done with wet hessian cloth. Water proofing layer to be protected by plaster/ patent stone/ concrete/ finishing items (cost of which are not included here). The contractor shall supply the catalogue, certification of properties & testing criteria by the international standard organisation (such as ASTM, BS, EN), origin of the water proofing compounds from the approved manufacturer/ agent/ dealer in Bangladesh and copy of challan of purchasing.	sqm	705.00	704.00	701.00	701.00

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CHAPTER 09: SUBSIDIARY WORKS FOR RETROFIT CONSTRUCTION (CIVIL AND EM)

Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
09.1.1	Underground: Relocating/ relaying/ diversing, refitting and refixing of existing 100 mm/ 110 mm/ 4" outer diameter soil, waste & ventilation underground pipe (all types) and supplying new fitting & fixing accessories including cleaning and forming the materials to make reusable in limited scope of works to utilise full capacity of manpower etc. all complete as per direction and acceptance by the Engineer-in-charge.	meter	726.00	721.00	696.00	696.00
09.1.2	Underground: Relocating/ relaying/ diversing, refitting and refixing of existing 160 mm/ 150 mm/ 6" outer diameter soil, waste & ventilation underground pipe (all types) and supplying new fitting & fixing accessories including cleaning and forming the materials to make reusable in limited scope of works to utilise full capacity of manpower etc. all complete as per direction and acceptance by the Engineer-in-charge.	meter	916.00	909.00	879.00	879.00
09.1.3	Underground: Relocating/ relaying/ diversing, refitting and refixing of existing 200 mm/ 8" outer diameter soil, waste & ventilation underground pipe (all types) and supplying new fitting & fixing accessories including cleaning and forming the materials to make reusable in limited scope of works to utilise full capacity of manpower etc. all complete as per direction and acceptance by the Engineer-in-charge.	meter	1035.00	1028.00	994.00	994.00
09.1.4	Underground: Relocating/ relaying/ diversing, refitting and refixing of existing 250 mm/ 10" outer diameter soil, waste & ventilation underground pipe (all types) and supplying new fitting & fixing accessories including cleaning and forming the materials to make reusable in limited scope of works to utilise full capacity of manpower etc. all complete as per direction and acceptance by the Engineer-in-charge.	meter	1574.00	1566.00	1532.00	1532.00
09.2.1	Relocating/ relaying/ diversing, refitting and refixing of existing 50 mm/ 2" inside diameter uPVC soil, waste and ventilation pipe and supplying new fitting & fixing accessories including cleaning and forming the materials to make reusable in limited scope of works to utilise full capacity of manpower etc. all complete as per direction and acceptance by the Engineer-in-charge.	meter	465.00	458.00	435.00	435.00
09.2.2	Relocating/ relaying/ diversing, refitting and refixing of existing 100 mm/ 4" inside diameter uPVC waste and ventilation pipe and supplying new fitting & fixing accessories including cleaning and forming the materials to make reusable in limited scope of works to utilise full capacity of manpower etc. all complete as per direction and acceptance by the Engineer-in-charge.	meter	571.00	564.00	538.00	538.00
09.2.3	Relocating/ relaying/ diversing, refitting and refixing of existing 150 mm/ 6" inside diameter uPVC soil, waste and ventilation pipe and supplying new fitting & fixing accessories including cleaning and forming the materials to make reusable in limited scope of works to utilise full capacity of manpower etc. all complete as per direction and acceptance by the Engineer-in-charge.	meter	583.00	577.00	558.00	558.00

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Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
09.3	Relocating/ relaying/ diversing, refitting and refixing of existing 100 mm/ 4" inside diameter uPVC rain water down pipe and supplying new fitting & fixing accessories including cleaning and forming the materials to make reusable in limited scope of works to utilise full capacity of manpower etc. all complete as per direction and acceptance by the Engineer-in-charge.	meter	573.00	566.00	543.00	543.00
09.4	Relocating/ reinstalling/ refitting and refixing of existing 1500 to 2000 liter capacity overhead water tank and supplying new fitting, fixing accessories including cleaning and forming the materials to make reusable in limited scope of works to utilise full capacity of manpower/ tools/ equipment etc. all complete as per direction and acceptance by the Engineer-in-charge.	each	1978.00	1953.00	1855.00	1855.00
09.5.1	In house: Relocating/ relaying/ diversing, refitting and refixing of existing 110 mm/ 100 mm/ 4" outside diameter in house pipes and supplying new fitting & fixing accessories including cleaning and forming the materials to make reusable in limited scope of works to utilise full capacity of manpower/ tools etc. all complete as per direction and acceptance by the Engineer-in-charge.	meter	1123.00	1119.00	1105.00	1105.00
09.5.2	In house: Relocating/ relaying/ diversing, refitting and refixing of existing 160 mm/ 150 mm/ 6" outside diameter Waste & Ventilation in house pipes and supplying new fitting & fixing accessories including cleaning and forming the materials to make reusable in limited scope of works to utilise full capacity of manpower/ tools etc. all complete as per direction and acceptance by the Engineer-in-charge.	meter	1659.00	1653.00	1634.00	1634.00
09.5.3	In house: Relocating/ relaying/ diversing, refitting and refixing of existing 200 mm/ 8" outside diameter Soil, Waste & Ventilation in house pipes and supplying new fitting & fixing accessories including cleaning and forming the materials to make reusable in limited scope of works to utilise full capacity of manpower/ tools etc. all complete as per direction and acceptance by the Engineer-in-charge.	meter	2326.00	2320.00	2300.00	2300.00
09.6	Relocating/ relaying/ diversing, refitting and refixing of Water Supply lines using existing G.I. pipes and supplying all new special fittings, such as bends, elbows, sockets, reducing sockets, tee, unions, jam-nuts etc. including cleaning & shaping old materials, 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, in limited scope of works to utilise full capacity of manpower/ tools/ equipment etc. all complete as per direction and acceptance by the Engineer-in-charge.					
09.6.1	12.5 mm diameter G.I. Pipe	meter	169.00	167.00	161.00	161.00
09.6.2	20 mm diameter G.I. Pipe	meter	193.00	191.00	184.00	184.00
09.6.3	25 mm diameter G.I. Pipe	meter	216.00	214.00	207.00	207.00

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Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
09.6.4	32 mm diameter G.I. Pipe	meter	264.00	261.00	252.00	252.00
09.6.5	40 mm diameter G.I. Pipe	meter	352.00	348.00	336.00	336.00
09.6.6	50 mm/ 2" diameter G.I. Pipe	meter	502.00	496.00	477.00	477.00
09.6.7	75- 80 mm/ 3" diameter G.I. Pipe	meter	939.00	929.00	896.00	896.00
09.6.8	100 mm/ 4" diameter G.I. Pipe	meter	1304.00	1292.00	1254.00	1254.00
09.7	Relocating, refitting and refixing of existing 12 mm diameter metal bib cock with the newly supplied fitting, fixing accessories including cleaning and forming the materials to make reusable, in limited scope of works to utilise full capacity of manpower/ tools/ equipment etc. all complete as per direction and acceptance by the Engineer-in-charge.	each	129.00	127.00	119.00	119.00
09.8	Relocating, refitting and refixing of existing 12 mm diameter Metal Pillar Cock with the newly supplied fitting, fixing accessories including cleaning and forming the materials to make reusable, in limited scope of works to utilise full capacity of manpower/ tools/ equipment etc. all complete as per direction and acceptance by the Engineer-in-charge.	each	129.00	127.00	119.00	119.00
09.9	Relocating, refitting and refixing of existing 12 mm diameter metal stop cock/ angle stop cock with the newly supplied fitting, fixing accessories including cleaning and forming the materials to make reusable, in limited scope of works to utilise full capacity of manpower/ tools/ equipment etc. all complete as per direction and acceptance by the Engineer-in-charge.	each	73.00	72.00	68.00	68.00
09.10	Relocating, refitting and refixing of existing any type of hand wash Basin with the newly supplied fitting, fixing accessories including cleaning and forming the materials to make reusable, in limited scope of works to utilise full capacity of manpower/ tools/ equipment etc. all complete as per direction and acceptance by the Engineer-in-charge.	each	1,646.00	1,636.00	1,600.00	1,600.00
09.11	Relocating, refitting and refixing of existing any type of commode with "P" or "S" trap with the newly supplied fitting, fixing accessories including cleaning and forming the materials to make reusable, in limited scope of works to utilise full capacity of manpower/ tools/ equipment etc. all complete as per direction and acceptance by the Engineer-in-charge.	each	2,675.00	2,656.00	2,598.00	2,598.00
09.12	Relocating, refitting and refixing of existing any size of porcelain sink with the newly supplied fitting, fixing accessories including cleaning and forming the materials to make reusable, in limited scope of works to utilise full capacity of manpower/ tools/ equipment etc. all complete as per direction and acceptance by the Engineer-in-charge.	each	1,723.00	1,711.00	1,677.00	1,677.00
09.13	Relocating, refitting and refixing of existing single bowl stainless steel sink with sink tray with the newly supplied fitting, fixing accessories including cleaning and forming the materials to make reusable, in limited scope of works to	each	1,496.00	1,489.00	1,465.00	1,465.00






Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	utilise full capacity of manpower/ tools/ equipment etc. all complete as per direction and acceptance by the Engineer-in-charge.					
09.14	Relocating, refitting and refixing of existing double bowl stainless steel sink with sink tray with heavy type CI or steel brackets with the newly supplied fitting, fixing accessories including cleaning and forming the materials to make reusable, in limited scope of works to utilise full capacity of manpower/ tools/ equipment etc. all complete as per direction and acceptance by the Engineer-in-charge.	each	2,133.00	2,124.00	2,093.00	2,093.00
09.15	Relocating, refitting and refixing of existing towel rail with the newly supplied fitting, fixing accessories including cleaning and forming the materials to make reusable, in limited scope of works to utilise full capacity of manpower/ tools/ equipment etc.all complete as per direction and acceptance by the Engineer-in-charge.	each	235.00	230.00	220.00	220.00
09.16	Relocating, refitting and refixing of existing soap tray with the newly supplied fitting, fixing accessories including cleaning and forming the materials to make reusable, in limited scope of works to utilise full capacity of manpower/ tools/ equipment etc. all complete as per direction and acceptance by the Engineer-in-charge.	each	103.00	102.00	98.00	98.00
09.17	Relocating, refitting and refixing of existing any toilet paper holder with the newly supplied fitting, fixing accessories including cleaning and forming the materials to make reusable, in limited scope of works to utilise full capacity of manpower/ tools/ equipment etc. all complete as per direction and acceptance by the Engineer-in-charge.	each	140.00	137.00	132.00	132.00
09.18	Relocating/ reinstalling, refitting, refixing of existing wooden door and window frames (chowkat) in position in all floors including cleaning and minor repair by supplying requisite fitting, fixing accessories (screws, nails, clamp etc.), painting two coats of coal tar to the surface in contact with wall, in limited scope of works to utilise full capacity of manpower/ tools/ equipment etc. all complete as per direction and acceptance by the Engineer-in-charge. (the rate is excluding the cost of painting/ polishing/ varnishing)	each	1,272.00	1,266.00	1,209.00	1,209.00
09.19	Relocating/ reinstalling, refitting, refixing of existing wooden door and window shutter in position in all floors including cleaning and minor repair by supplying all requisite fittings, screws, nails, hinges, wood, in limited scope of works to utilise full capacity of manpower/ tools/ equipment etc. all complete as per direction and acceptance by the Engineer-in-charge. (the rate is excluding the cost of painting)	sqm	1,002.00	996.00	940.00	940.00
09.20	Relocating/ reinstalling, refitting, refixing of existing steel frame and shutter in position in all floors including cleaning and minor repair/ welding by supplying all requisite fittings (hinges, metal sheet, clamp etc.), in limited scope of works to utilise full capacity of manpower/ tools / equipment etc. all complete as per direction and acceptance by the Engineer-in-charge. (the rate is excluding the cost of painting)	sqm	706.00	700.00	660.00	660.00






Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
09.21	Relocating/ reinstalling, refitting, refixing of existing wooden hand rail of stair in position in all floors including cleaning and minor repair by supplying requisite fitting, fixing accessories (screws, nails, flat bar etc.), in limited scope of works to utilise full capacity of manpower/ tools/ equipment etc. all complete as per direction and acceptance by the Engineer-in-charge. (the rate is excluding the cost of painting/ polishing/ varnishing)	meter	341.00	339.00	321.00	321.00
09.22	Relocating/ reinstalling, refitting, refixing of existing metallic window/ verandah/ other safety grill (MS/ stainless steel/ alloy) in position in all floors including cleaning and minor repair/ welding by supplying all requisite materials & fittings (metal bar/ box/ pipe, clamp, concrete etc.) etc., in limited scope of works to utilise full capacity of manpower/ tools/ equipment etc. all complete as per direction and acceptance by the Engineer-in-charge. (the rate is excluding the cost of painting)	sqm	434.00	428.00	408.00	408.00
09.23	Sand filling in foundation trenches and plinth with sand having min. F.M.-1.2 in 150 mm in layers including levelling, 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, in limited scope of works to utilise full capacity of manpower/ tools/ machineries/ equipment and as per design supplied by the design office only etc. all complete as per direction and acceptance by the Engineer-in-charge.	cum	1,417.00	1,422.00	1,359.00	1,359.00
09.24	Relaying of one layer brick flat soling in foundation or in floor (where necessary) due to dismantling of existing mass concrete for the sake of column jacketing, carbon fiber wrapping and wing wall, with first class/ picked jhama bricks including preparation of bed and filling the interstices with local sand, leveling etc. all complete, in limited scope of works to utilise full capacity of manpower/ tools/ equipment and as per direction and acceptance by the Engineer-in-charge	sqm	679.00	675.00	647.00	647.00
09.25	Reconstruction of Lean/ Blinding concrete (1:3:6) in foundation or in floor (where necessary) due to dismantling of existing mass concrete for the sake of column jacketing, carbon fiber wrapping and wing wall, with cement (CEM-II/B-M), sand (F.M.-1.2) and 19 mm down graded 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 all materials, manpower, tools & plants and other charges etc. all complete, in limited scope of works to utilise full capacity of manpower/ machineries/ tools/ equipment, as per direction and acceptance by the Engineer-in-charge.					
09.25.1	Reconstruction of Lean/ Blinding concrete in foundation (1:3:6) with cement, brick chips and sand of F.M.-1.2	cum	9,539.00	9,527.00	9,274.00	9,274.00
09.25.2	Reconstruction Lean/ Blinding concrete in floor (1:3:6) with cement, brick chips and sand of F.M.-1.2 Up to Ground Floor	cum	9,338.00	9,326.00	9,065.00	9,065.00






Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
09.26	Reconstruction of brick works with first class bricks , cement (CEM-II/B-M) and sand (F.M.-1.2) mortar 1:6 in foundation and in plinth of maximum length 3'-0" at a place (where necessary) due to dismantling of existing brick works for the sake of column jacketing, carbon fiber wrapping and wing wall; including filling the joints/ interstices fully with mortar, racking out the joints, curing at least for 7 days; rate is including the cost of all materials, manpower, water, electricity, cleaning and soaking the bricks at least for 24 hours before use and other charges etc. all complete in limited scope of works to utilise the full capacity of manpower as per direction and acceptance by the Engineer-in-charge.	cum	9,458.00	9,426.00	9,038.00	9,038.00
09.27	Reconstruction of brick works of maximum length 3'-0" at a place due to dismantling of existing brick works for the sake of column jacketing, carbon fiber wrapping and wing wall; with that of width one brick or one and a half brick length of first class bricks with cement (CEM-II/B-M) and 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; rate is including the cost of all materials, manpower, scaffolding, water, electricity, cleaning and soaking the bricks and other charges etc. all complete in limited scope of works to utilise the full capacity of manpower and as per direction and acceptance by the Engineer-in-charge (measurement to given as 250 mm width for one brick length and 375 mm for one brick and a half brick length). In Ground Floor	cum	10,222.00	10,178.00	9,742.00	9,742.00
09.28	Reconstruction of 125 mm brick Works with first class bricks , cement (CEM-II/B-M) and sand (F.M.-1.2) mortar 1:4 in superstructure of maximum length 3'-0" at a place due to dismantling of existing brick works for the sake of column jacketing, carbon fiber wrapping and wing wall; including raking out joints, filling the interstices with mortar, cleaning and soaking the bricks at least for 24 hours before use, screening and washing of sand, necessary scaffolding, curing at least for 7 days; rate is including the cost of all materials, manpower, water, electricity, cleaning and soaking the bricks and other charges etc. all complete in limited scope of works to utilise the full capacity of manpower and as per direction and acceptance by the Engineer-in-charge. In Ground Floor	sqm	1,466.00	1,461.00	1,402.00	1,402.00
09.29	Reconstruction of minimum 12 mm thick plaster with cement (CEM-II/B-M) and sand (F.M.-1.2) 1:4 to both inner and outer surface of wall of maximum area 30 sq. ft at a place due to dismantling of existing plastered surfaces for the sake of column jacketing, carbon fiber wrapping and wing wall; including finishing the corner and edges, curing at least for 7 days; rate is including all cost of materials, manpower, water, electricity, scaffolding, screening & washing of sand, cleaning the surface and other charges etc. all complete in limited scope of works to utilise the full capacity of manpower and as per direction and acceptance by the Engineer-in-	sqm	379.00	378.00	360.00	360.00






Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	charge. In Ground Floor					
09.30	Reconstruction of minimum 12 mm thick plaster with neat cement finishing to plinth wall up to 150 mm below ground level with cement (CEM-II/B-M) and sand (F.M.-1.2) 1:4 of maximum area 10.00 sft at a place due to dismantling of existing plastered surfaces for the sake of column jacketing, carbon fiber wrapping and wing wall or existing walls surfaces repairing; including finishing the corner and edges, curing at least for 7 days; rate is including all cost of materials, manpower, water, electricity, scaffolding, screening & washing of sand, cleaning the surface and other charges; etc. all complete in limited scope of works to utilise the full capacity of manpower as per direction and acceptance by the Engineer-in-charge. In Ground Floor	sqm	444.00	442.00	421.00	421.00
09.31	Reconstruction of minimum 12 mm thick plaster with neat cement finishing to dado up to 150 mm with cement (CEM-II/B-M) and sand (F.M.-1.2) 1:4 of maximum area 2.00 sft at a place due to dismantling of existing plastered surfaces for the sake of column jacketing, carbon fiber wrapping and wing wall or existing walls surfaces repairing; including finishing the corner and edges, curing at least for 7 days; rate is including all cost of materials, manpower, water, electricity, scaffolding, screening & washing of sand, cleaning the surface and other charges; etc. all complete in limited scope of works to utilise the full capacity of manpower as per direction and acceptance by the Engineer-in-charge. In Ground Floor	sqm	463.00	461.00	440.00	440.00
09.32	Reconstruction of minimum 12 mm thick plaster to both inner and outer surface of wall with cement (CEM-II/B-M) and sand (F.M.-1.2) 1:6 of maximum area 30.00 sft at a place due to dismantling of existing plastered surfaces for the sake of column jacketing, carbon fiber wrapping and wing wall or existing walls surfaces repairing; including finishing the corner and edges, curing at least for 7 days; rate is including all cost of materials, manpower, water, electricity, scaffolding, screening & washing of sand, cleaning the surface and other charges; etc. all complete in limited scope of works to utilise the full capacity of manpower as per direction and acceptance by the Engineer-in-charge. In Ground Floor	sqm	360.00	358.00	341.00	341.00
09.33	Reconstruction of minimum 6 mm thick plaster to ceiling, RC columns, beams, surface of stair case, sunshades, cornices, railings, drop wall, louvers, fins with cement (CEM-II/B-M) and sand (F.M.-1.2) 1:4 at the places due to dismantling of existing plastered surfaces for the sake of columns /beams jacketing, carbon fiber wrapping and wing wall or existing walls surfaces repairing; including finishing the corner and edges, curing at least for 7 days; rate is including all cost of materials, manpower, water, electricity, scaffolding, screening & washing of sand, cleaning the surface and other charges; etc. all complete in limited scope of works to utilise the full capacity of manpower as per	sqm	374.00	372.00	351.00	351.00






Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	direction and acceptance by the Engineer-in-charge. In Ground Floor					
09.34	Reconstruction of minimum 6 mm thick plaster to ceiling, RC columns, beams, surface of stair case, sunshades, cornices, railings, drop wall, louvers, fins with cement (CEM-II/B-M) and sand (F.M.-1.2) 1:3 at the places due to dismantling of existing plastered surfaces for the sake of columns /beams jacketing, carbon fiber wrapping and wing wall or existing walls surfaces repairing; including finishing the corner and edges, curing at least for 7 days; rate is including all cost of materials, manpower, water, electricity, scaffolding, screening & washing of sand, cleaning the surface and other charges; etc. all complete in limited scope of works to utilise the full capacity of manpower as per direction and acceptance by the Engineer-in-charge. In Ground Floor	sqm	352.00	350.00	333.00	333.00
09.35	Supplying, fitting and fixing country made GP (Gress Porcellanto)-glazed or unglazed homogeneous floor/ skirting tiles in the place of partly dismantled tiled or patent stone with neat cement finishing (NCF) or mosaic floor/ skirting area in connection with retrofitting works of columns, RC walls, beams etc.; complying BDS ISO 13006: 2015, water absorption $\leq 0.5\%$, modulus of rupture (MOR) ≥ 27 N/mm ² , irrespective of color and/ or design (but color, design and size matching with the existing tiles to be preferred or in case of unavailability of matching tiles, any floor tiles may be used and to be placed in decorative look), with cement (CEM-II/B-M) and sand (F.M.-1.2) mortar (1:4) base and racking out the joints with white cement including cutting and laying the tiles in proper way and finishing with care etc. all complete in limited scope of works to utilise the full capacity of manpower as per drawing, direction and acceptance by the Engineer-in-charge. In Ground Floor	sqm	2,209.00	2,194.00	2,126.00	2,126.00
09.36	Reconstruction of 38 mm thick artificial patent stone (1:2:4) flooring with cement (CEM-II/B-M), 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 F.M.-1.2) and 12 mm down well graded brick chips, in the place of partly dismantled tiled or patent stone with NCF or mosaic floor/ skirting area in connection with retrofitting works of columns, RC walls, beams etc.; 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; rate is including cost of all materials, manpower, water, electricity and other charges etc.; in limited scope of works to utilise full capacity of manpower/ machineries/ tools/ equipment etc. all complete as per direction and acceptance by the Engineer-in-charge. In Ground Floor	sqm	661.00	656.00	634.00	634.00
09.37	Removal of all types of concealed conduit Electric/ Telephone/ PABX /Ethernet/ TV/ CCTV wiring etc. (wires/ cables only) with high care so that the taken-out items can be reinstalled to use, in connection with retrofitting works					






Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
	only etc. all complete and stacked in a safe place as per direction and acceptance of Engineer-in-charge.					
09.37.1	Main Board to SDB	meter	11.07	10.95	10.27	10.27
09.37.2	SDB to Switch Board	meter	13.84	13.69	12.83	12.83
09.37.3	SDB to Appliances points	meter	9.23	9.13	8.56	8.56
09.38	Removal of all types of Batten/ Unconcealed Conduit Electric/ Telephone/ PABX/ Ethernet/ TV/ CCTV etc. wiring (including batten/ conduit, wires/ cables) with high care so that the taken-out items can be reinstalled to use, in connection with retrofitting works only etc. all complete and stacked in a safe place as per direction and acceptance of Engineer-in-charge.					
09.38.1	Main Board to SDB	meter	13.84	13.69	12.83	12.83
09.38.2	SDB to Switch Board	meter	18.45	18.25	17.11	17.11
09.38.3	SDB to Appliances points	meter	11.07	10.95	10.27	10.27
09.39	Removal of all types of Electric Distribution Board, Circuit breaker (metallic/ wooden) with high care so that the taken-out items can be reinstalled to use, in connection with retrofitting works only etc. all complete and stacked in a safe place as per direction and acceptance of Engineer-in-charge.					
09.39.1	Main Distribution Board	each	304.00	302.00	292.00	292.00
09.39.2	Sub distribution, Switch Board, Circuit Breaker	each	152.00	151.00	146.00	146.00
09.40.1	Removal of underground High Tension (HT) cable with high care so that the taken-out items can be reinstalled to use, in connection with retrofitting works only etc. all complete and stacked in a safe place as per direction and acceptance of Engineer-in-charge.	meter	173.00	170.00	159.00	159.00
09.40.2	Removal of underground Low Tension (LT) cable with high care so that the taken-out items can be reinstalled to use, in connection with retrofitting works only etc. all complete and stacked in a safe place as per direction and acceptance of Engineer-in-charge.	meter	106.00	104.00	98.00	98.00
09.41.1	Removal of window type, floor mounted air conditioning/ cooling equipment and related accessories with high care so that the taken-out items can be reinstalled to use, in connection with retrofitting works only etc. all complete and stacked in a safe place as per direction and acceptance of Engineer-in-charge.	each	169.00	167.00	157.00	157.00
09.41.2	Removal of all types of split type air conditioning/ cooling equipment inner and outer units including all related accessories with high care so that the taken-out items can be reinstalled to use, in connection with retrofitting works only etc. all complete and stacked in a safe place as per direction and acceptance of Engineer-in-charge.	set	577.00	570.00	540.00	540.00






Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
09.42	Taking out of all types of electric motor, electric fan, water heater (geyser etc.) including all related accessories with high care so that the taken-out items can be reinstalled to use, in connection with retrofitting works only etc. all complete and stacked in a safe place as per direction and acceptance of Engineer-in-charge.	each	141.00	140.00	131.00	131.00
09.43	Removal of all types of light equipment/ machineries (e.g. multimedia system, solar system, fire detection, fire protection system, CCTV, PA/ PABX System, IPS/ UPS, dehumidifier energy meter, switching system etc.) including all related accessories with high care so that the taken-out items can be reinstalled to use, in connection with retrofitting works only etc. all complete and stacked in a safe place as per direction and acceptance of Engineer-in-charge.	each	169.00	167.00	157.00	157.00
09.44	Removal of all types of Lighting appliances including all related accessories (brackets, holders etc.) with high care so that the taken-out items can be reinstalled to use, in connection with retrofitting works only etc. all complete and stacked in a safe place as per direction and acceptance of Engineer-in-charge.	each	33.00	33.00	31.00	31.00
09.45.1	Removal of all types of unconcealed pipes (GI/ MS/ Alloy/ PVC) in connection with retrofitting works only and removal of reusable/ auctionable salvaged materials, debris and stacked in a safe place within the campus/ project site area etc. all complete as per direction and acceptance of the Engineer-in-charge.	meter	44.00	43.00	42.00	42.00
09.45.2	Removal of all types of concealed pipes (GI/ MS/ Alloy/ PVC) in connection with retrofitting works only and removal of reusable/ auctionable salvaged materials, debris and stacked in a safe place within the campus/ project site area etc. all complete as per direction and acceptance of the Engineer-in-charge.	meter	58.00	57.00	54.00	54.00
09.46	Relocating/ refitting/ resetting / refixing of taken out Electric Distribution Board, switch board, circuit breaker including related accessories in unconcealed position in connection with retrofitting works only etc. all complete as per direction and acceptance of the Engineer-in-charge.					
09.46.1	Main Distribution Board (MDB)	each	163.00	161.00	151.00	151.00
09.46.2	Sub-Distribution Board (SDB)	each	109.00	108.00	101.00	101.00
09.46.3	Switch Board, Circuit breaker	each	82.00	81.00	76.00	76.00
09.47	Relocating/ refitting/ resetting/ refixing/ diversing of taken-out Electric wire/ Cable lines including related accessories in unconcealed/ concealed position/ underground position through newly supplied PVC conduit and accessories in connection with retrofitting works only etc. all complete as per direction and acceptance of the Engineer-in-charge.					
09.47.1	Low Tension (LT) Line through concealed conduit/ underground	meter	189.00	186.00	179.00	179.00






Item No.	Description of Item	Unit	Unit Rate (Tk.)			
			Dhaka, Mymensingh	Chattogram, Sylhet	Khulna, Barisal, Gopalganj	Rajshahi, Rangpur
09.47.2	Service Line (MDB to SDB) through unconcealed conduit	meter	74.00	74.00	72.00	72.00
09.47.3	Service Line (SDB to Switch Board and Switch Board to Appliance Point) through unconcealed conduit	meter	50.00	50.00	49.00	49.00
09.48	Relocating, refitting/ resetting/ refixing of taken-out Electric Motor, Electric Fan including related accessories in connection with retrofitting works only etc. all complete as per direction and acceptance of the Engineer-in-charge.	each	169.00	167.00	157.00	157.00
09.49	Relocating, refitting/ resetting/ refixing of taken-out Lighting appliances including all related accessories (brackets, holders etc.) in connection with retrofitting works only etc. all complete as per direction and acceptance of the Engineer-in-charge.	each	64.00	64.00	61.00	61.00
09.50	Relocating, refitting/ resetting/ refixing of taken-out window type air cooler/ air conditioner including all related accessories in connection with retrofitting works only etc. all complete as per direction and acceptance of the Engineer-in-charge.	each	3,252.00	3,215.00	3,068.00	3,068.00
09.51	Relocating, refitting/ resetting/ refixing of taken-out split type air cooler/ air conditioner including all related accessories in connection with retrofitting works only etc. all complete as per direction and acceptance of the Engineer-in-charge.	each	4,356.00	4,320.00	4,172.00	4,172.00
09.52	Added cost for each additional floor above ground floor in limited scope of works for Item No.-09.25.2 (CC)	cum	96.00	94.00	87.00	87.00
09.53	Added cost for each additional floor above ground floor in limited scope of works for Item No- 09.27 (Brick work)	cum	179.00	176.00	163.00	163.00
09.54	Added cost for each additional floor above ground floor in limited scope of works for Item No- 09.28 (125 mm Brick work)	sqm	55.00	54.00	50.00	50.00
09.55	Added cost for each additional floor above ground floor in limited scope of works for Item No- 09.29 to 09.34 (Plaster works)	sqm	18.16	17.83	16.51	16.51
09.56	Added cost for each additional floor above ground floor in limited scope of works for Item No- 09.35 to 09.36 (Tiles and patent stone works)	sqm	55.00	54.00	50.00	50.00

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Annexure-A: Retrofitting Cost Chart for Preliminary Estimate

1.	Cost of column jacketing with footing jacketing (Sub-structure + ground Floor)	Tk. 75,386.00	Per Meter of Column
2.	Cost of column jacketing only (up to plinth + ground floor)	Tk. 48,778.00	Per Meter of Column
3.	Cost of shear wall with footing (Sub-structure + ground floor)	Tk. 60,613.00	Per Sqm of Shear Wall
4.	Cost of sub-structure for steel bracing	Tk. 39,185.00	Per Sqm of Frame
5. a	Cost of column jacketing work (1 st floor)	Tk. 45,595.00	Per Meter of Column
5. b	Add cost for each additional floor	1.5%	of Previous Floor
6. a	Cost of beam jacketing work (ground floor)	Tk. 51,950.00	Per Meter of Beam
6. b	Add cost for each additional floor	1.5%	of Previous Floor
7. a	Cost of shear wall (1 st floor)	Tk. 23,966.00	Per Sqm of Shear Wall
7. b	Add cost for each additional floor	1.5%	of Previous Floor
8. a	Cost of steel bracing work in-fill steel brace (ground floor)	Tk. 101,232.00	Per Sqm of Frame
8. b	Add cost for each additional floor	1.5%	of Previous Floor
9. a	Cost of steel bracing with beam-column extension (ground floor)	Tk. 129,130.00	Per Sqm of Frame
9. b	Add cost for each additional floor	1.5%	of Previous Floor
10. a	Cost of steel bracing with beam extension (ground floor)	Tk. 112,886.00	Per Sqm of Frame
10. b	Add cost for each additional floor	1.5%	of Previous Floor

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Annexure-B

GUIDELINES FOR PREPARATION OF PRELIMINARY ESTIMATES FOR RETROFIT CONSTRUCTION

TYPE OF ESTIMATES:

- Preliminary Estimate
- Detail Estimate

PRELIMINARY ESTIMATE:

Notes on Preliminary Estimate

1. In the preliminary estimate cost chart, the rates are to assess the cost of retrofitting works when detail architectural and structural design are not available.
2. Preliminary estimate cost chart is formulated by studying huge variables, data and assumptions only provide hints on the cost of retrofit construction over a couple of years.
3. A wide range variation of actual cost from preliminary estimate cost chart, directs to study (i) architectural & structural design (ii) site condition (iii) decision built up.
4. Exclusive works related to high density of cost in finishing works or any other unexpected deterioration of the existing building are beyond the scope of preliminary estimates.
5. Preliminary estimate never resembles an actual cost; instead, it's a probabilistic cost for fund conformity after time dependent tender and agreement procedure to run a smooth project.
6. Preliminary estimate cost chart includes 22.703% extra cost for providing contractor's profit, overhead charge and VAT.

Head of Accounts:

- Revenue
- Development

Requirements of Preliminary Estimate

The basic data required to conduct estimation of retrofitting works are as follows.

1. Request letter from requiring body.
2. Approved site plan by the Department of Architecture.
3. Approved building plan by the Department of Architecture.
4. As-built Architectural drawings including each floor plan, section, elevation, site plan etc.
5. As-built Structural drawings.
6. As-built Mechanical/ Electrical/ Plumbing drawings, as-built drawings of all utility connections.
7. Material test reports of existing building such as concrete core compressive strength test report, rebar tensile strength test report etc.
8. Soil investigation report.
9. Structural analysis, design drawings and materials specifications for retrofitting works.
10. Observations/ findings/ suggestions/ recommendations noted down from field survey.



Check list before preparation of preliminary estimate:

In retrofitting, construction procedure and practical considerations play vital role. So, a precise field survey is required before estimation in order to verify and confirm the following-

1. Confirmation of actual condition with As-built drawing
2. Assessing building condition and confirmation of deterioration situation
3. Structure type and structural system
4. Applicability/ limitations of the designed retrofitting methods (if any)
5. Apparent soil condition and approximate cost for sub-soil investigation
6. Special type of foundation: Raft or pile
7. Location and depth of drain and apron, septic tank/ underground reservoir etc.
8. Conditions affecting construction work like- material carrying accessibility, road width, working time restriction (if any), noise regulation, etc.
9. Temporary construction requirements
10. Source of power supply and water supply
11. Drainage system obstacles and alternatives
12. Surface water & sewerage disposal
13. Need for site improvement/ approach road etc.

Components of estimate

1. Project profile
2. Report
3. Abstract of cost
4. Estimate
5. Site plan
6. Building plan

Report Should Contain the Following Components:

1. Background and objectives
2. Description of the project
3. Rates of estimate.
4. Mode of financing
5. Charges

Cost For Retrofit Construction by Department and Private Owner:

- The cost will be reduced by **22.383%** (considering contractor's profit, overhead charge, VAT, price escalation and others) in case of retrofit construction by own management/ private owner.

DETAIL ESTIMATE

Detail Estimation shall be carried out according to the guideline provided in "Annexure-B" of PWD Schedule of Rate 2022 for Civil Works and "Chapter-6: Guidelines for Estimation and Costing" of Manual for Retrofit Construction and Supervision.



Annexure-C

Sample format of preliminary estimate

1	Assessment of existing building (TK. A =5% of (B+C))	TK.	A
2	Retrofitting construction of building: sub-structure cost up to ground floor (TK. B =B1+B2+B3+B4)	TK.	B
2.B1	Single footing and column jacketing up to ground floor (Cost for dismantling, safety protection, excavation, concrete, epoxy, filling & finishing work)	TK.	B1
2.B2	Column jacketing up to ground floor (Cost for dismantling, safety protection, excavation, concrete, epoxy, filling & finishing work)	TK.	B2
2.B3	Combined footing and shear wall up to ground floor (Cost for dismantling, safety protection, excavation, concrete, epoxy, filling & finishing work)	TK.	B3
2.B4	Sub-structure work for steel bracing up to plinth level (Cost for dismantling, safety protection, excavation, concrete & filling work)	TK.	B4
3.	Retrofitting construction of building: super structure cost (TK. C =C1+C2+C3+C4+C5+C6)	TK.	C
3.C1	Column jacketing work (Cost for dismantling, safety protection, concrete, epoxy & finishing work)	TK.	C1
3.C2	Beam jacketing work (Cost for dismantling, safety protection, concrete, epoxy & finishing work)	TK.	C2
3.C3	Shear wall construction work (Cost for dismantling, safety protection, concrete, epoxy & finishing work)	TK.	C3
3.C4	Steel bracing insertion work (Cost for dismantling, safety protection, concrete, epoxy, steel, non-shrink grout & finishing work)	TK.	C4
3.C5	Steel bracing insertion work with beam-column extension (Cost for dismantling, safety protection, concrete, epoxy, steel, non-shrink grout & finishing work)	TK.	C5
3.C6	Steel bracing insertion work with beam extension (Cost for dismantling, safety protection, concrete, epoxy, steel, non-shrink grout & finishing work)	TK.	C6
4.	Restoration and renovation civil works (TK. D =D1+D2+D3)	TK.	D
4.D1	Repairing & relocation of internal water supply and sanitation	TK.	D1
4.D2	Repairing & relocation of external water supply and sanitation	TK.	D2
4.D3	Repairing & relocation of external drain & apron	TK.	D3
5.	Restoration and renovation electrical works	TK.	E
6.	Fire fighting	TK.	F
Sub Total (Sl. 1 to 6 / Tk A to F):		TK.	G

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7.	Quality assurance, material sample collection & testing, etc. (1.00% on tk. G)	TK.	H
8.	Contingency (probable unforeseen expenditure related to work (Tk. I= J+K)	TK.	I
8.A	Price Contingency (maximum 8.00% on Tk. G)	TK.	J
8.B	Physical Contingency (maximum 2.00% on Tk. G)	TK.	K
Grand Total (Tk. L= G+H+I):		TK.	L

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Annexure-D

Worked Out Example on Preparation of Retrofit Construction Preliminary Estimate

Building Type	:	Non-Residential Building
Building Category	:	Super Structure (8840 sft/per floor)
Type of structure	:	R. C. C. frame structure with 1: 1.5: 3 concrete (stone chips)
Location	:	Dhaka
Foundation	:	Shallow foundation, 6 storied
Sub-structure up to Ground Floor Information		
Column Jacketing with Footing	:	15 Nos
Column Jacketing without Footing	:	15 Nos
Shear Wall with Footing	:	4 Nos
Sub-structure for Steel bracing	:	8 Nos
Super Structure Information		
Column jacketing	:	30 Nos
Beam Jacketing	:	12 Nos
Shear Wall Insertion	:	4 Nos
Steel Bracing Infill	:	4 Nos
Steel Bracing out fill Beam Column Ext.	:	2 Nos
Steel Bracing out fill Beam Ext.	:	2 Nos

1. Assessment of existing building (A)

	Description	Unit	Unit Rate (Tk.)	Qty/mem	Unit No	Total Qty	Total Amount (Tk.)
A	Assessment of building and investigation cost = 5% on "B+C"	LS	76,868,520.52	1	1	5%	3,843,426.03

Sub Total A = 3,843,426.03

2. Retrofitting construction of building: sub-structure cost up to ground floor (B)

	Description	Unit	Unit Rate (Taka)	Qty/mem	Unit No	Total Qty	Total Amount (Tk.)
B1	Single footing with column up to ground floor cost from retrofitting cost chart (Item-1)	m	75,386.00	5.21	15.00	78.15	5,891,415.90
B2	Column jacketing up to ground floor cost from retrofitting cost chart (Item-2)	m	48,778.00	5.21	15.00	78.15	3,812,000.70
B3	Footing with shear wall construction cost from retrofitting cost chart (Item-3)	sqm	60,613.00	17.6	4.00	70.40	4,267,155.20
B4	Sub structure of steel bracing insertion cost from retrofitting cost chart (Item-4)	sqm	39,185.00	7.25	8.00	58.00	2,272,730.00

Sub-Total: B =B1+B2+B3+B4 16,243,301.80

3. Retrofitting construction of building: super structure cost (C)

C1 Column jacketing work

	Description	Unit	Unit Rate (Taka)	Qty/mem	Unit No	Total Qty	Total Amount (Tk.)
a-1	1st. floor column jacketing cost from retrofitting cost chart (Item-5.a) column h=3m	m	45,595.00	3.00	30	90.00	4,103,550.00
a-2	2nd. floor column jacketing cost Rate of a-1 x 1.015 (Item-5.b) column h=3m	m	46,278.93	3.00	30	90.00	4,165,103.25
a-3	3rd. floor column jacketing cost Rate of a-2 x 1.015 (Item-5.b) column h=3m	m	46,973.11	3.00	30	90.00	4,227,579.80
a-4	4th. floor column jacketing cost Rate of a-3 x 1.015 (Item-5.b) column h=3m	m	47,677.71	3.00	30	90.00	4,290,993.50

NB: Unit rate of Column jacketing of a floor = 1.015 x that of previous floor

Sub-Total:C1= 16,787,226.54

C2 Beam jacketing work

	Description	Unit	Unit Rate (Taka)	Qty/mem	Unit No	Total Qty	Total Amount (Tk.)
b-1	Ground floor beam jacketing cost from retrofitting cost chart (Item-6.a), L= 4 m	m	51,950.00	4.00	12.00	48.00	2,493,600.00
b-2	1st. floor beam jacketing cost Rate of b-1 x 1.015 (Item-6.b), L= 4 m	m	52,729.25	4.00	12.00	48.00	2,531,004.00
b-3	2nd. floor beam jacketing cost Rate of b-2 x 1.015 (Item-6.b), L= 4 m	m	53,520.19	4.00	12.00	48.00	2,568,969.06
b-4	3rd. Floor Beam Jacketing cost Rate of b-3 x 1.015 (Item-6.b), L= 4 m	m	54,322.99	4.00	12.00	48.00	2,607,503.60
b-5	4th Floor Beam Jacketing cost Rate of b-4 x 1.015 (Item-6.b), L= 4 m	m	55,137.84	4.00	12.00	48.00	2,646,616.15

NB: Unit rate of Beam jacketing of a floor = 1.015 x that of previous floor

Sub-Total:C2= 12,847,692.81

C3 Shear wall insertion

	Description	Unit	Unit Rate (Taka)	Qty/mem	Unit No	Total Qty	Total Amount (Tk.)
c-1	1st. floor shear wall cost from retrofitting cost chart (Item-7.a), area= 10.35 sqm	sqm	23,966.00	10.35	4.00	41.40	992,192.40
c-2	2nd. floor shear wall cost Rate of c-1 x 1.015 (Item-7.b), 10.35 sqm	sqm	24,325.49	10.35	4.00	41.40	1,007,075.29
c-3	3rd. floor shear wall cost Rate of c-2 x 1.015 (Item-7.b), 10.35 sqm	sqm	24,690.37	10.35	4.00	41.40	1,022,181.42
c-4	4th. floor shear wall cost Rate of c-3 x 1.015 (Item-7.b), 10.35 sqm	sqm	25,060.73	10.35	4.00	41.40	1,037,514.14

NB: Unit rate of shear wall insertion of a floor = 1.015 x that of previous floor

Sub-Total:C3= 4,058,963.24

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C4 Steel bracing work

	Description	Unit	Unit Rate (Taka)	Qty/mem	Unit No	Total Qty	Total Amount (Tk.)
d-1	Ground floor steel bracing insertion cost from retrofitting cost chart (Item-8.a) Frame area = 5.88 sqm	sqm	101,232.00	5.88	4.00	23.52	2,380,976.64
d-2	1st. floor steel bracing insertion cost Rate of d-1 x 1.015 (Item-8.b), 5.88 sqm	sqm	102,750.48	5.88	4.00	23.52	2,416,691.29
d-3	2nd. floor steel bracing insertion cost Rate of d-2 x 1.015 (Item-8.b), 5.88 sqm	sqm	104,291.74	5.88	4.00	23.52	2,452,941.66
d-4	3rd. floor steel bracing insertion cost Rate of d-3 x 1.015 (Item-8.b), 5.88 sqm	sqm	105,856.11	5.88	4.00	23.52	2,489,735.78
d-5	4th. floor steel bracing insertion cost Rate of d-4 x 1.015 (Item-8.b), 5.88 sqm	sqm	107,443.95	5.88	4.00	23.52	2,527,081.82

NB: Unit rate of steel bracing insertion of a floor = 1.015 x that of previous floor

Sub-Total:C4= 12,267,427.19

C5 Steel bracing work with beam-column extension

	Description	Unit	Unit Rate (Taka)	Qty/mem	Unit No	Total Qty	Total Amount (Tk.)
e-1	Ground floor steel bracing insertion with beam-column extension cost from retrofitting cost chart (Item-9.a), 5.88 sqm	sqm	129,130.00	5.88	2.00	11.76	1,518,568.80
e-2	1st. Floor steel bracing insertion with beam-column extension cost Rate of e-1 x 1.015 (Item-9.b), 5.88 sqm	sqm	131,066.95	5.88	2.00	11.76	1,541,347.33
e-3	2nd. Floor steel bracing insertion with beam-column extension cost Rate of e-2 x 1.015 (Item-9.b), 5.88 sqm	sqm	133,032.95	5.88	2.00	11.76	1,564,467.54
e-4	3rd. Floor steel bracing insertion with beam-column extension cost Rate of e-3 x 1.015 (Item-9.b), 5.88 sqm	sqm	135,028.45	5.88	2.00	11.76	1,587,934.56
e-5	4th. Floor steel bracing insertion with beam-column extension cost Rate of e-4 x 1.015 (Item-9.b), 5.88 sqm	sqm	137,053.88	5.88	2.00	11.76	1,611,753.57

NB: Unit rate of Steel Bracing insertion of a floor = 1.015 x that of previous floor

Sub-Total:C5= 7,824,071.80

C6 Steel bracing work with beam extension

	Description	Unit	Unit Rate (Taka)	Qty/mem	Unit No	Total Qty	Total Amount (Tk.)
f-1	Ground Floor steel bracing insertion with beam extension cost from retrofitting cost chart (Item-10.a), Frame area=5.88 sqm	sqm	112,886.00	5.88	2.00	11.76	1,327,539.36
f-2	1st. floor steel bracing insertion with beam extension cost Rate of f-1 x 1.015 (Item-10.b), 5.88 sqm	sqm	114,579.29	5.88	2.00	11.76	1,347,452.45
f-3	2nd. floor steel bracing insertion with beam extension cost Rate of f-2 x 1.015 (Item-10.b), 5.88 sqm	sqm	116,297.98	5.88	2.00	11.76	1,367,664.24

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f-4	3rd. floor steel bracing insertion with beam extension cost Rate of f-3 x 1.015 (Item-10.b), 5.88 sqm	sqm	118,042.45	5.88	2.00	11.76	1,388,179.20
f-5	4th. floor steel bracing insertion with beam extension cost Rate of f-4 x 1.015 (Item-10.b), 5.88 sqm	sqm	119,813.09	5.88	2.00	11.76	1,409,001.89

NB: Unit rate of steel bracing insertion of a floor = 1.015 x that of previous floor

Sub-Total:C6= 6,839,837.14

Total C= (C1+C2+C3+C4+C5+C6) 60,625,218.72

Sub-Total: B+C= 76,868,520.52

Sub-Total: A+B+C= 80,711,946.55

4. Restoration and renovation civil works (D)

	Description	Unit	Unit Rate (Taka)	Qty/mem	Unit No	Total Qty	Total Amount (Tk.)
4.D1	Repair and relocation of internal water supply and sanitation	LS	D1	1	1	1	D1
4.D2	Repair and relocation of external water supply and sanitation	LS	D2	1	1	1	D2
4.D3	Repair and relocation of external drain & apron	LS	D3	1	1	1	D3

Sub-Total D=(D1+D2+D3) D

	Description	Unit	Unit Rate (Taka)	Qty/mem	Unit No	Total Qty	Total Amount (Tk.)
5.	Restoration and relocation of electrical works (E)	LS	E	1	1	1	E
6.	Fire-fighting (F)	LS	F	1		1	F

Sub Total G= A+B+C+D+E+F G

7. Quality assurance, material sample collection & testing (1% of G)

"H"= 1% of G

8. Contingency (probable unforeseen expenditure related to work (I)

8.A Price contingency (maximum 8.00% on Tk. G)

"J"= 8% of "G" or Actual need

8.B Physical contingency (maximum 2.00% on Tk. G)

"K"= 2% of "G" or Actual need

Sub-Total I = (J + K)

Grand Total L = (G+H+I)

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