No. 6

バングラデシュ人民共和国

食糧倉庫建設計画

基本設計調査報告書

(Appendix V建設一般状況)

昭和57年7月

国際協力事業団

無償設

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(Appendix V 建設一般状況)

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1. 自 然 条 件

1－1 気 象 条 件

0： 気候圏，気候区

バングラデシュ国は，一般に典型的な熱帯モンスーン気候であると云われている。気候的特徴によって1年が，(1)ノーストウエスタン期（夏季3～5月），(2)モンスーン期（雨季6～8月），(3)乾季（11～2月）の3期に区分される。気温は夏季の4月が最も高い，ダッカ地区における最高は，35℃である。また最低は乾季の1月で，11.7℃である（Table-1参照）。降雨量は雨季に集中していて，年間降雨量の約80％がこの時期に降っている。降雨量は，一般的に東部地区に多く西部地区の方が少ない。

1： 温 度 （Table-1，Table-3）

2： 湿 度 （Table-4）

3： 雨 量 （Table-2）

4： 風向，風速（Table-7）

5： 日照，日射（Table-5，Table-6）

1－2 地勢，地質

0： 一般的な地勢，地質

バングラデシュ国は，インド亜大陸の東端に位置している。国土の大部分はガンジス，ジャムナ，メグナの三大河川の下流河川部を占め，支流・分流が入り込む曲型的なデルタ地帯の特徴を持っており，広大で低く殆んど平坦な沖積平野である。地質はシルト質の軟弱層である。

1： 面 積

国土総面積	143,998 km^2
陸地部分	134,615 〃
水域部分	9,383 〃

水域部分の総面積に対する比率は，約6.6％である。農地面積は87,902 km^2 で，耕地面積は77,433 km^2 を占めている。

2： 緯度，経度

バングラデシュ国は，北緯20° 75′～25° 75′，東経88° 30′～92° 75′の範囲にある。西はインドのウエストベンガル，北は同アッサム及びメハラヤ，東は同トリプラミゾラムの諸州に続き南東部チッタゴン地区山地においてビルマに接している。

3： 河川，山岳等の状況

バングラデシュ国は三つの大きな河川ガンジス，ジャムナ，メグナ河を中心とした大河川の堆積作用によって形成された国土である。河川は国土総面積の約6.6％を占めている。乾季と雨季における水位の差が非常に大きく，河川によっては5 m～8 mもの差が計測されている。雨季においては年間の総雨量の80％近くもの雨が集中する。同時にこれらの河川の上流地域（アッサム，メハラヤ地方……インド）からの雨水も加わって水位は著しく上昇する。そのため護岸されてないこれらの河川は氾濫し，国土の大半が冠水することがたびたびある。同国は先述のように典型的なデルタ地帯であるため，高い山岳等は全く存在しない。一部北部及び東部で高地がある程度で南北600 Kmの標高差は40 mに過ぎない。

1－3 災　害

0： 災害の歴史

バングラデシュ国は雨季における河川の氾濫による農作物，道路，橋などへの被害や，サイクロンによる住宅，農作物などへの被害が最も多く，毎年のように繰返されている。又，逆に旱ばつによる凶作にもたびたびみまわっている。その他の自然現象による被害はあまりない。

1： 地　震

過去における地震についてのデーターはない。地震による被害は全くなかったものと思われる。

2： 風水害

水による被害について先述したが毎年雨季には，河川の氾濫で国土の大半が冠水することもあり，農作物，道路，橋などに多大の被害が出ている。又，イ

ンド洋に発生するサイクロンは年間数回におよび，特に南部を中心に高潮，塩害，潮害を及ぼしている。

3： 雷，たつまき

雷の発生は全国的に特に夏季に多い。雷は強い雨を伴った激しいものである。たつまきは年間数回発生し，かなりの被害をもたらしている。特にチッタゴン地区に多い。

4： その他

乾季から夏季への季節の変り目には時々ヒョウにみまわれ，車の硝子や作物などに被害をもたらしている。

2. 建築活動に関する条件

2－1 建築活動に関する統計等

1： 建築着工量，除却量

バングラデシュ国においては建築着工，除却に伴う届出の義務はないので，建築の着工，除却量についてのデーターはない。従って，数字については不明であるが，近年（1978～79年頃から）都市部においては建築建設工事が急増している。

2： 建築費の推移

バングラデシュ国の公共事業の建設予算は，公共事業局が刊行している工事費単価表（Table-12）をもとに積算される。この公共事業局の工事費単価表が実情に促していないことや，工事の遅れ又は，資材の値上りなどの理由で当初の建設予算を修正することがこの国では普通に行われているため，最終的な工事費がはっきりつかめないのが実情である。

3： 建設労務

建設に関連する技術労働人口は同国の資料によれば，1974年時点では3万2千人である（これには一般の労務者は含まれない）。現時点ではデーターが発表されておらず数字はつかめないが，近年の建設工事の増加からして労働

人口も相当増加していると思われる。しかし，バングラデシュ国では建設技術者の労務輸出の政策が盛んに推進されている。特に，中近東方面へ数多くの仮枠大工，鉄筋工，左官工，塗装工などの熟練工が送られている。これは職工にとって外国で働く方が労働賃金も良く有利であること，又，国にとっては外貨獲得の利点があるためである。

4： 主要な資材の需給状況

バングラデシュ国で生産されている資材の種類及び量は非常に少ない。セメントなどは国内の需給を賄うだけの生産量には達していないため，多くは輸入されている。鉄筋は国内需給が行われている。コンクリート用骨材は，北部シレット地方で採取するものが良質であるが，運輸費が嵩むため単価が高くなる。輸入資材及び国内生産される資材はTable－8，Table－9のとおりである。単価については公共事業局工事費単価表Table－12 のとおりである。

2－2 建築に関する教育訓練

1： 技術教育の状況

バングラデシュ国の学校における技術教育は全て工学部門をもつ大学又は，単科大学で行われている。学校数及び卒業生数は他国に比べると非常に少ない。学校数及び生徒数はTable－10，11のとおりである。

2： 学会などの状況

学会，協会などの組織はない。

2－3 建築に関する行政

不明である。

2－4 公共営繕

1： 公共営繕の組織

公共事業の立案計画は計画省（Ministry of Planning）で行われる。設計，入札書作成及び監理などは担当の省又は公団からコンサルタントへ発注されるが，公共事業局で行う場合もある。

2 ： 会計制度

不明である

2－5 建築活動の体制

1 ： 建築設計機構バングラデシュ国における設計事務所の数，人員数など詳細は不明である。一般的な事務所ビル住宅などの比較的簡単なものについては同国の設計事務所で設計されるが，特殊なものは何らかの外国の援助にたよっている。

2 ： 施工体制

バングラデシュにおける施工業者のうち主な業者を次表に示した。これは比較的大手業者である。他に，中小の業者も多いが正確な数，人員などは不明である。技術レベルは同国における一般的な建設の実施は可能であるが，施工技術及び建設機械は他国と比べて劣っている。

3 ： 建設労務

一般的な建設工事は工期や仕上りの程度をあまり問題にしないのであれば，同国のもつ労務技術力で実施は充分可能である。しかし，複雑な工法，高度な技術を必要とするものについては，外国の援助を得なければならない。同国の建設技術や建設機械力は，他国と比べるとかなり劣っている。工事は豊富な人力が主力となっている。例えばコンクリート打では，コンクリートを鍋のような容器に入れて頭に乗せ運んでおり，コンクリート練もミキサー以外は全て人力で行っている。1日の打設量も30m^3～40m^3程度しかない（ちなみに日本での場合は生コンクリートやコンクリートポンプなど機械力の発達で約10倍位のコンクリートが打設出来る）。これは，コンクリートミキサーの容量にもよるが全て人力にたよっているためである。他の工種においても同様で，人力にたよるものが殆んどである。建設にたずさわる職工の就業時間は朝は早く，夕方は日の暮るまでと日本政府援助の建設現場で見る限りでは良く働くように見うける。ただ，能率は非常に悪い。特に回教徒には，ラマザン（断食）といわれる宗教上の習慣があり，この期間（年2回，1期間は30日）には極端に労働力が低下する。

近年日本政府や他の機関などの，援助による建設工事が増えるに従って，サ

ブコンとして参加する企業も多くなり日本や他国の建設技術をかなり習得して来ているので，同国における建設技術も近い将来に大きく向上することが考えられる。

現地建設業者

バングラデシュの企業

建　設	. Bengal Development Corporation
	. Bastu Shilpi Limited
	. Omar Sons Limited
	. Rahman & Associates
	. Rana Construction Co.
	. Concord Construction & Engineer's
	. M.S. Hafar Consulting Architects & Engineer's Limited
	. Nain Syndicate
	. The Engineering
空　調	. Ali Automobiles Ltd.
	. Shahnawaz (bangladesh) Ltd.
	. Spencer & Co., Ltd.
	. Shitatop Niyantran Sangstha
	. M/S Jalil Brothers' Engineering Limited.
衛　生	. Bright Sanitary.
	. M.A. Hashem & Cons (Works) Ltd.
電　気	. Hasem Electric Company.
	. Upodesta Prokoushali.
	. General Electric Company (Bangladesh) Ltd.
地質調査	. SOILTECH

2－6　建築活動に関する契約書

1：　発注方式

バングラデシュ国の公共事業は全て入札によって業者が決定される。工事発注は，工事項目別や，資材別，労務別に発注される。入札は殆んど公開入札方式が多く，新聞紙上に工事内容など詳細が記載され，どの業者でも参加できるようになっている。日本のようにターンキー方式は殆んど行われていないので，大手業者は公共事業の場合大規模なもの以外はあまり参加していない。

2：　契約方式

先述したように発注方式が工事項目別に行われるので，ターンキー契約方式はとられず工種別契約である。

3：　積　算

公共事業における工事費積算は公共事業局発行の工事費単価表（Schedule of Rate ）を基に行われている。工事単価は復合単価方式がとられている（Table－12 参照）。

4：　標準工期

工事工期の決定規準について詳細は不明であるが，日本政府援助における先方負担分の工事を見る限りでは期間内に終ることは殆んどなく，工期設定に問題があるのか請負業者の能力に原因があるのかは分らないが，契約期日までに完了することはなかった。市内での建設工事を見る限り着工より完成までに数年かかっているものは普通である。工期は定めてみても守られないのが実情で，遅れに対する罰則などはないようである。

2－7　建 設 資 材

バングラデシュ国で生産及び調達出来る建設資材は，セメント，レンガ，砂，砂利，鉄筋，木材，硝子，ペンキなどがある。量及び調達状況は以下のとおりである。

セメント：　工場がシレット，チッタゴンにある。生産量は国内需要を賄いきれる程にはなく，輸入品がかなり出廻っているが，安定的な供給には不安がある。1978－79 年の年間生産量は３２万２千トンである。

鉄　　筋：　工場はダッカ，チッタゴンにある。1978－79 年には年間６万２千ト

ン製造されている。量も種類も少ない。強度，品質等にばらつきが多く，コストも高価である。

木　　材：針葉樹は全くない，木材は全て落葉樹である。チーク材が家具，内装材として使用されているが他は材質が悪く，高級な家具や精密さを要するものには使用出来ない。

チッタゴンチーク　Tal Suck，Sil Koral，Chamkliなどの材種がある。

レ ン ガ：バングラデシュの建築はレンガが主材料である。国内全域で生産されている。生産は，乾期に集中されている。比較的精度のよいマシンメイドレンガの工場はダッカに2工場あるだけで殆んどはハンドメイドレンガで寸法，型状が不揃いである。

砂　　利：砂利の採取は，北部シレット及びドマール地方に限られ粒径がそろわず入手には非常に時間がかかる。コストも高価である。従って，コンクリートの骨材として自然の砂利を使用するより花崗岩系又は，石灰岩系の玉石を人力で割った砕石又は，レンガ生産の過程で，焼きすぎのものを砕いて使用する場合が多い。

砂　　：コンクリート用細骨材に使用するものはシレット及びドマール地方産のものが好ましい。他の地方産のものは粒度が細か過ぎ骨材としては適当でない。

テラゾー：大理石の種石を白セメントと練合せ砥石で研く床仕上げ材である。平板にしたものをテラゾーブロックと呼び，バングラデシュの建物では殆んどこれを用いている。施工技術も秀れている。

バルテックス：ジュートをチップ状にし圧縮してボードにしたもので，当国にて生産される唯一のボードである。調達は割に容易であるが，製品の均一製に欠けている。

資材単価については公共事業局の工事費単価表（Table-12）を参照されたい。

2－8　建物の維持管理

1：　維持管理の方法

建物の維持管理は全般的に良くない。特殊な建物を除いては建物の外観も使用勝手も極めて不快な感じのするものが多い。食糧省の食糧倉庫の維持管理の例をみると，政府は毎年予算を計上して補修工事を行ってはいるが金額が小さいため，十分な維持管理は行えないのが現状である。他についても同様なことがいえると思われる。

2－9　建築物あるいは建築活動に関する社会的慣習

1：　宗教上避けるべき事項

建物を設計する場合に特に便器の向に注意を要する。イスラム教の聖地が西方向であるため便器の向を東西に配置することは避けなければならない。その他，ラマザンの期間には緊急を要する作業や交渉などは避けた方が良い。

2：　建築儀式

建築工事において一般的に行われている儀式としては次のものがある。

1）Earth Cutting Ceremony　（根伐式）

工事着手時日本の地鎮祭にあたる

2）Concrete Casting Ceremony　（コンクリート打式）

基礎コンクリート打の時

3）Completion Ceremony　（竣工式）

儀式の規模は建設工事，施主，建設業者によっていろいろである。

TABLE 1 — Normal temperature, humidity and rainfall by station and by month. (1980)

Station	January						February					
	Max. Temp. °F	Mini. Temp. °F	Relative Humidity % 00·00 GMT	03·00 GMT	12·00 GMT	Rainfall in inches	Max. Temp. °F	Mini. Temp. °F	Relative Humidity % 00·00 GMT	03·00 GMT	12·00 GMT	Rainfall in inches
Chittagong	78·7	56·8	93	78	68	0·41	81·5	60·5	92	75	69	0·30
Cox's Bazar	79·8	56·1	—	71	68	0·42	82·1	50·7	—	70	68	0·48
Sylhet	77·1	55·0	93	78	67	0·94	80·3	57·1	88	75	57	1·65
Srimangal	78·5	47·4	96	86	75	0·43	82·2	52·3	95	80	62	1·29
Rangamati	79·7	50·3	99	84	59	0·57	84·1	55·2	95	75	50	2·43
Majidee Court	78·2	55·3	92	76	67	0·83	82·3	60·4	91	75	52	0·59
Comilla	79·5	53·8	95	80	64	0·41	83·0	58·5	94	75	54	1·73
Brahmanbaria	78·4	54·1	93	77	66	0·40	82·5	47·7	91	72	56	0·97
Dacca	77·9	53·1	93	74	61	0·70	82·5	56·1	90	65	48	1·23
Narayanganj	79·5	55·9	91	75	60	0·56	83·1	60·3	88	71	52	1·12
Mymensingh	77·5	52·7	89	82	62	0·45	81·7	56·7	87	77	54	0·72
Faridpur	75·7	52·8	94	80	65	0·50	80·9	56·7	92	74	60	1·04
Khulna	79·3	56·4	90	73	62	0·47	84·1	60·5	91	71	55	0·66
Barisal	78·7	56·5	89	76	60	0·60	82·9	61·3	90	74	56	0·73
Jessore	77·9	50·6	92	81	67	0·54	83·2	55·5	92	77	59	0·85
Satkhira	79·8	53·5	91	77	62	0·61	84·2	58·6	90	74	58	0·77
Rangpur	75·9	51·9	92	83	67	0·49	80·6	55·1	89	75	54	0·58
Dinajpur	76·9	58·4	92	80	59	0·40	81·0	54·0	86	70	48	0·52
Pabna	78·3	52·7	91	77	68	0·43	82·9	56·7	89	71	55	0·81
Serajganj	76·8	53·5	94	77	76	0·55	82·4	56·2	90	69	60	0·65
Bogra	77·0	52·8	—	78	59	0·54	81·7	55·7	—	72	48	0·65

Station	March						April					
	Max. Temp. °F	Mini. Temp. °F	Relative Hum. % 00.00 GMT	03.00 GMT	12.00 GMT	Rainfall in inches	Max. Temp. °F	Mini. Temp. °F	Relative Hum. % 00.00 GMT	03.00 GMT	12.00 GMT	Rainfall in inches
	86·8	68·3	91	78	73	3·50	89·6	74·3	91	75	76	2·67
	86·8	67·2	—	73	73	1·27	89·5	74·0	—	73	75	3·15
	87·1	63·4	83	63	51	2·60	91·1	71·2	87	70	63	7·57
	89·7	61·9	93	75	57	3·29	92·3	69·8	92	76	65	9·00
	88·7	62·3	95	69	51	3·09	95·2	72·9	91	68	53	0·22
	88·1	67·4	89	72	61	2·11	90·7	75·6	90	73	69	3·51
	90·6	67·5	93	74	55	2·07	92·4	73·8	93	75	65	6·24
	89·9	65·3	89	72	53	2·75	93·3	72·6	91	73	62	5·55
	90·5	65·9	88	64	44	2·29	95·1	74·2	91	70	54	4·04
	91·1	68·8	85	69	45	1·81	93·0	74·2	85	73	62	6·46
	89·8	64·6	86	73	49	1·66	93·0	71·5	88	76	56	5·30
	90·4	64·6	89	68	49	1·43	94·0	73·1	90	73	58	5·04
	91·9	69·1	91	73	53	1·35	94·2	75·5	93	76	65	3·56
	90·5	69·8	90	74	56	1·49	93·0	75·7	91	74	66	3·94
	92·3	65·2	90	72	52	1·36	96·6	73·6	91	75	57	3·47
	93·0	68·4	92	74	53	1·40	96·3	75·3	91	75	61	2·60
	88·1	61·4	82	60	42	0·89	94·6	71·3	83	67	47	3·31
	92·2	61·7	78	57	36	0·63	96·0	69·9	75	60	39	1·86
	92·2	64·7	86	67	44	1·39	97·4	72·7	87	71	41	2·17
	90·1	64·5	89	64	50	1·45	96·4	72·4	89	68	50	3·44
	91·4	63·3	—	63	37	1·07	96·4	71·7	—	67	42	2·49

3.3—*contd.*

Station	May						June					
	Max. Temp °F	Mini. Temp °F	Relative Humidity % 00·00 GMT	03·00 GMT	12·00 GMT	Rainfall in inches	Max. Temp. °F	Mini. Temp. °F	Relative Humidity % 00 00 GMT	03·00 GMT	12·00 GMT	Rainfall in inches
Chittagong	89·7	76·9	93	77	79	11·17	87·9	77·4	93	83	85	22·41
Cox's Bazar	90·0	76·6	—	76	79	11·52	86·8	76·8	—	85	86	30·34
Sylhet	87·9	72·3	93	84	79	27·41	87·5	76·3	96	85	82	52·93
Srimangal	90·0	73·8	93	81	77	17·26	89·3	76·0	94	87	85	2·36
Rangamati	94·5	76·1	89	71	67	8·55	89·7	76·3	93	81	82	16·51
Majidee Court	89·7	77·9	89	77	76	12·96	87·2	77·8	92	85	83	28·27
Comilla	91·1	76·4	92	79	75	12·45	88·3	77·8	94	84	83	18·84
Brahmanbaria	91·3	75·0	91	78	75	11·16	89·2	76·7	93	84	84	14·60
Dacca	92·7	77·7	93	78	75	7·65	89·1	78·6	95	84	81	12·67
Narayanganj	91·7	76·9	89	76	74	9·47	89·9	78·5	91	82	80	13·71
Mymeasingh	90·3	74·1	90	82	74	12·32	88·3	76·9	93	87	82	17·84
Faridpur	91·5	75·6	93	77	75	10·66	88·9	77·5	95	85	84	13·58
Khulna	93·4	77·8	93	78	74	7·25	90·8	78·9	94	83	82	12·20
Barisal	92·1	78·2	91	74	74	9·16	89·4	78·8	92	83	82	16·58
Jessore	95·0	76·6	91	79	71	7·44	91·3	78·0	95	85	82	10·81
Satkhira	95·3	77·9	90	76	70	7·40	91·8	78·7	93	84	79	11·59
Rangpur	92·5	74·4	90	78	65	11·93	89·5	76·3	95	86	81	20·44
Dinajpur	92·8	74·6	85	76	63	7·37	90·0	77·4	92	84	77	13·61
Pabna	95·2	76·3	91	79	61	7·12	91·8	78·0	95	85	81	11·52
Serajganj	92·5	76·2	93	80	71	9·27	88·9	77·9	96	87	86	12·98
Bogra	92·9	75·2	—	78	67	7·68	90·3	77·8	—	86	82	13·00

Station	July						August					
	Max. Temp. °F	Mini. Temp. °F	Relative Hum. % 00·00 GMT	03 00 GMT	12·00 GMT	Rainfall in inches	Max. Temp. °F	Mini. Temp. °F	Relative Hum. % 00·00 GMT	03·00 GMT	12·00 GMT	Rainfall in inches
	86.9	76.7	94	84	86	24.57	86.4	76.6	95	85	86	22.23
	85.5	76.5	—	88	88	36.75	85.5	76.4	—	89	88	30.71
	88.1	77.6	97	86	83	23.37	88.9	77.6	95	85	84	20.91
	89.7	76.8	94	87	85	13.26	89.3	76.6	95	88	86	13.52
	87.7	76.5	95	86	89	26.75	88.8	76.9	95	81	85	15.65
	85.9	77.8	93	87	83	25.32	86.4	78.1	93	87	84	22.15
	87.6	77.6	94	86	84	15.91	87.9	77.6	95	86	83	16.43
	88.5	77.6	92	83	83	12.01	88.6	77.9	92	84	82	11.58
	87.3	78.8	95	87	82	17.20	87.9	79.1	94	86	83	12.00
	88.5	79.0	91	84	80	13.66	88.6	79.1	90	83	79	14.36
	88.4	78.2	94	87	81	14.82	88.5	78.1	94	88	81	15.97
	87.2	78.2	96	87	85	13.31	87.2	78.9	93	86	84	12.30
	88.1	79.1	95	86	84	14.95	88.4	79.0	95	85	84	11.76
	87.1	78.5	94	87	83	18.54	87.5	78.5	94	85	83	17.03
	88.5	78.1	96	86	86	12.38	88.9	78.2	96	88	87	12.09
	88.6	78.6	96	87	84	14.05	88.6	78.4	95	88	84	12.33
	89.2	79.0	95	85	81	16.96	89.1	79.3	95	86	82	13.67
	88.9	78.8	93	86	79	15.35	89.3	78.7	93	85	80	13.93
	89.3	78.7	96	86	85	10.52	89.2	79.1	95	85	84	11.37
	87.3	78.9	95	87	85	12.29	87.4	79.5	94	86	86	12.64
	88.6	79.0	—	86	81	12.50	88·8	78.9	—	87	82	13.80

3·3 Normal temperature, humidity and rainfall by station and by month.

Station	September						October					
	Max. Temp. °F	Mini. Temp. °F	Relative Humidity % 00·00 GMT	03·00 GMT	12·00 GMT	Rainfall in inches	Max. Temp. °F	Mini. Temp. °F	Relative Hum. % 00·00 GMT	03·00 GMT	12·00 GMT	Rainfall in inches
Chittagong	87.7	77.0	95	83	85	12.04	87.4	74.6	96	82	82	11.45
Cox's Bazar	86.6	76.3	—	85	85	17.45	87.6	74.4	—	78	80	10.83
Sylhet	87.5	76.3	95	86	85	25.80	86.4	72.4	96	85	84	10.80
Srimangal	89.6	76.0	96	87	87	11.01	87.9	71.0	95	85	88	7.57
Rangamati	88.7	76.3	97	83	87	11.09	88.3	74.7	97	85	83	10.45
Maijdee Court	87.3	77.9	93	85	82	17.52	87.1	75.6	95	82	81	10.04
Comilla	88.9	75.5	95	84	82	13.27	88.1	74.6	86	80	80	8.89
Brahmanbaria	89.3	87.1	92	83	82	9.05	88.0	75.3	93	79	81	6.89
Dacca	88.2	87.5	95	84	83	9.28	87.7	74.7	95	78	79	6.64
Narayanganj	89.7	79.2	90	81	79	9.57	89.4	75.9	92	76	75	5.78
Mymensingh	88.8	77.8	94	85	82	13.42	87.5	74.1	93	83	79	7.81
Faridpur	88.1	78.7	94	83	83	9.64	87.3	74.7	95	79	81	7.09
Khulna	89.2	78.7	95	83	83	8.78	88.2	75.6	94	78	78	6.01
Barisal	88.6	78.6	94	83	82	12.27	88.2	75.8	94	79	77	7.72
Jessore	89.8	77.6	96	87	86	7.40	88.9	73.1	95	84	83	5.35
Satkhira	89.4	78.1	95	84	84	9.14	89.3	74.5	96	80	80	5.84
Rangpur	89.0	78.2	95	84	82	12.03	87.4	72.8	93	83	77	6.53
Dinajpur	89.6	77.8	92	84	81	11.81	88.4	72.2	93	80	75	5.41
Pabna	90.2	78.6	95	84	85	9.24	89.4	74.0	95	79	81	6.64
Sirajganj	88.2	78.8	94	85	85	9.36	87.4	74.7	95	80	84	5.86
Bogra	89.4	78.5	—	85	82	10.83	87.8	73.8	—	81	76	7.07

3.3—*concld.*

Station	November						December					
	Max. Temp. °F	Mini. Temp. °F	Relative Hum. % 00·00 GMT	03·00 GMT	12·00 GMT	Rainfall in inches	Max. Temp. °F	Mini. Temp. °F	Relative Hum. % 00·00 GMT	03·00 GMT	12·00 GMT	Rainfall in inches
Chittagong	84·5	65·9	95	79	76	1·97	79·4	59·7	95	83	73	0·41
Cox's Bazar	85·0	66·9	—	75	71	2·49	86·0	59·9	—	74	70	1·29
Sylhet	83·7	62·8	93	74	75	0·28	79·5	57·4	95	79	73	0·22
Srimangal	84·0	59·8	96	84	86	1·69	79·6	50·8	97	87	83	0·12
Rangamati	84·1	61·9	99	90	69	0·84	80·7	55·1	99	91	67	0·93
Maijdee Court	82·8	66 0	93	76	79	1·80	79·2	57·9	93	77	73	0·01
Comilla	84·6	65·0	95	77	75	1·77	80·3	56·8	95	80	70	0·10
Brahmanbaria	84·2	66·3	93	76	75	1·33	79·8	57·8	94	79	72	0·11
Dacca	83·6	63·6	94	73	71	1·C0	79·3	54·9	95	78	70	0·09
Narayanganj	85·6	66·6	91	73	69	1·21	80·9	58·6	91	76	66	0·08
Mymensingh	83·9	64·6	90	81	73	0 65	79·7	56·3	91	84	67	0·10
Faridpur	82·4	64·4	94	77	76	1·15	77·3	55·7	94	80	75	0·07
Khulna	84·2	66·2	91	72	69	1·28	80·0	58·4	91	72	67	0·09
Barisal	84·0	66·7	91	75	69	1·63	79·6	58·7	89	78	64	0·13
Jessore	84·4	61·5	95	80	74	0·88	79·7	52·3	93	82	74	0·06
Satkhira	84·5	63·6	93	75	70	1·23	80·2	55·6	92	77	66	0·09
Rangpur	83·5	61·7	93	80	74	0·44	77·9	55·5	94	86	77	0·08
Dinajpur	84·0	60·8	91	74	68	0·45	78·9	52·9	82	77	64	0·04
Pabna	84·8	63·3	94	75	76	0·74	79·8	55·1	95	76	75	0·06
Sirajganj	83·3	63·9	95	76	82	0·82	79·5	56·9	95	77	80	0·02
Bogra	83·5	63·5	—	78	69	0·53	78·5	55·6	—	79	65	0·08

Notes : Based on data for 1931-1960

Source : Bangladesh Meteorological Department.

3.4 **TABLE 2** Rainfall at selected centres.

(Inches)

Centre	1971	1972	1973	1974	1975	1976	1977	1978	1979
Dacca ...	92·49	71·01	93·52	87·13	80·48	104·14	83·14	66·85	76·64
Mymensingh ...	90·52	43·01	61.30	26·61	96·75	86·57	75·02	97·97	119·90
Faridpur ...	88·33	57·09	65·64	111·95	87·31	84·85	73·17	76·90	71·55
Chittagong ...	136·43	76·50	103·77	162·25	103·66	104·99	101·51	111·06	112.49
Rangamati ...	86·89	55·07	97·45	80·63	89·71	143·04	102·76	107·67	103·11
Maijdee Court ...	142·97	157·63	98·05	128·58	167.95	115·43	n.a.	114·52	91·09
Comilla ...	69·02	55·79	64·43	83·37	108·36	74·22	80·59	86·60	53·06
Sylhet ...	101·06	172·60	195·88	206·36	155·45	195·05	161·42	138·20	147·65
Rajshahi ...	55·05	53·54	41·28	83·54	70·93	57·22	45·91	76·44	68·96
Dinajpur ...	18·54	30·73	42·11	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Rangpur ...	94·42	51·75	96·22	118·84	72·16	77·48	73·73	87·26	78·13
Bogra ...	68·43	57·39	49·54	106·22	76·01	54·66	81·18	79·36	58·86
Ishurdi ...	n.a.	37·67	92·92	65.57	69·62	94·12	114·10	n.a.	49·72
Khulna ...	42·64	n.a.	n.a.	118·39	72·77	83·47	79·13	80·76	77·20
Barisal ...	97·35	84·10	56·46	105·82	86·82	71·48	70·47	80·42	85·08
Jessore ...	99·33	52·64	36·90	69·07	69·79	51·60	66·82	65·64	62·08
Patuakhali ...	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	79·80

Source : Bangladesh Meteorological Department.

3·5 **TABLE 3** Maximum and minimum temperature at selected centres.

(°F)

Centre	1973		1974 (a)		1975		1976		1977		1978	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Dacca ...	103	48	99	46	100	40	104	47	96	47	99	44
Mymensingh ...	101	49	99	45	101	45	104	49	95	45	97	48
Faridpur ...	105	46	99	43	102	44	103	50	97	46	97	54
Chittagong ...	98	53	95	51	95	52	95	52	93	52	95	55
Rangamati ...	98	55	97	53	100	52	98	56	96	59	95	51
Maijdee Court ...	100	50	95	50	96	50	95	53	100	53	99	52
Comilla ...	95	50	93	49	99	50	97	48	96	50	98	43
Sylhet ...	99	49	99	47	97	46	95	49	97	53	99	46
Rajshahi ...	108	47	103	43	107	43	108	49	101	47	104	47
Dinajpur ...	112	43	99	41	101	45	...	...	...	...	...	...
Rangpur ...	106	44	100	38	101	41	105	46	99	46	100	50
Bogra ...	107	49	99	43	104	46	104	46	98	50	99	45
Pabna ...	106	67	n.a.	n.a.	108	47	...	...	...	...	...	...
Khulna ...	111	50	102	48	107	50	103	52	100	53	99	59
Barisal ...	100	48	97	45	98	46	99	47	95	51	95	50
Jessore ...	107	43	100	42	109	45	105	45	102	47	102	48
Patuakhali ...	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	97(b)	53(b)	96	50	97	49

Notes : (a) Figures for March to May and Dec. are not available.
(b) Data for eight months.

Source : Bangladesh Meteorological Department.

3·6 **TABLE 4** Humidity at selected centres.

(Percentage)

Centre	1972	1973	1974	1975	1976	1977	1978	1979
Dacca	77	79	80	78	80	83	80	80
Mymensingh	77	79	84	80	82	86	82	78
Faridpur	73	77	76	78	81	84	79	79
Chittagong	79	80	82	80	84	83	82	79
Rangamati	78	72	83	80	79	82	78	79
Maijdee Court	76	81	81	78	75	82	82	79
Comilla	82	89	86	80	81	83	81	78
Sylhet	78	80	82	79	83	83	80	77
Rajshahi	76	77	78	77	75	81	80	79
Dinajpur	74	76	78	77	...	...	...	...
Rangpur	85	84	86	87	90	90	85	77
Bogra	76	78	80	77	78	82	80	79
Pabna	70	73	80	76	...	...	...	...
Khulna	76	75	38	79	79	83	82	81
Barisal	81	83	78	80	85	85	84	79
Jessore	75	78	n.a.	77	79	78	79	80
Patuakhali	n.a.	n.a.	n.a.	n.a.	85(a)	84	83	74

Notes: (a) Data for 8 months. Relative Humidity worked out by (00·00 G.M.T+12·00 G.M.T.) ÷2 of 17 stations from 1976-79

Source : Bangladesh Meteorological Department.

TABLE 5 Average monthly cloudfree days at selected centres of Bangladesh. (1980)

Centre	Jan	Feb	March	April	May	June	July	August	Sep.	Oct.	Nov	Dec
1. Barisal	20.3	15.5	13.1	5.6	3.0	0.2	0.2	0.0	0.5	5.7	19.5	19.9
2. Bogra	21.7	19.3	14.1	8.9	4.7	0.2	0.1	0.2	0.7	10.6	18.2	20.2
3. Bhola	16.8	18.6	13.4	6.9	6.9	0.4	0.0	0.0	1.5	11.5	17.9	21.3
4. Brahmanbaria	20.8	17.7	13.3	5.7	3.6	0.1	0.0	0.0	0.2	6.6	17.1	19.5
5. Chittagong	17.9	15.4	9.5	2.0	0.6	0.1	0.0	0.0	0.0	1.4	8.4	14.7
6. Chandpur	23.2	21.5	17.5	16.3	13.2	2.8	1.6	1.4	3.7	15.9	24.5	28.5
7. Comilla	22.0	19.3	13.8	8.6	6.3	2.1	1.3	1.4	3.7	14.1	21.4	20.7
8. Cox's Bazar	16.5	16.8	11.3	3.5	1.2	0.0	0.0	0.0	0.0	1.7	9.0	13.5
9. Dacca	18.4	15.3	10.9	3.6	1.8	0.2	0.0	0.0	0.1	4.2	11.5	15.8
10. Dinajpur	24.7	22.0	22.1	17.0	11.3	2.3	1.0	0.8	6.0	18.0	2.30	25.2
11. Faridpur	21.0	18.9	15.2	7.8	4.3	0.5	0.1	0.1	0.7	8.3	18.6	21.2
12. Hatiya	17.6	17.3	10.2	6.2	4.7	0.3	0.0	0.1	0.7	10.2	18.1	19.1
13. Ishurdi	19.2	18.2	14.8	7.7	4.1	0.1	0.1	0.0	4.0	8.0	12.5	15.2
14. Jamalpur	26.0	24.2	21.5	14.0	13.2	8.2	6.9	3.1	7.4	17.7	24.7	24.4
15. Jessore	16.8	16.8	13.1	6.6	5.3	0.3	0.0	0.0	0.5	6.9	13.5	16.4
16. Kaptai	5.4	6.2	2.1	0.1	0.0	0.0	0.0	0.0	1.8	5.1	8.5	4.1
17. Khulna	23.2	19.1	15.9	10.0	10.5	2.4	2.0	2.3	1.5	7.7	17.9	21.0
18. Lalmanirhat	20.5	19.3	15.0	8.7	5.8	1.2	0.8	1.2	2.8	12.5	18.3	22.7
19. Maijdee Court	24.6	20.0	17.0	8.6	6.2	0.7	0.4	0.1	1.0	8.7	22.1	26.6
20. Mymensingh	23.8	18.9	17.5	8.4	5.5	0.4	0.1	0.0	1.5	11.6	22.1	24.6
21. Narayanganj	21.6	19.0	13.7	5.0	3.1	0.2	0.0	0.1	0.4	7.0	17.0	21.5
22. Rangamati	9.6	13.3	9.6	5.0	1.8	0.1	0.0	0.0	0.0	0.6	2.2	4.7
23. Rangpur	21.9	18.3	17.5	11.6	4.3	0.5	0.1	0.1	0.5	7.8	15.1	20.8
24. Rajshahi	21.2	21.0	18.4	12.7	10.3	2.2	0.2	0.4	1.1	10.7	18.1	20.6
25. Rooppur	20.7	22.7	17.0	12.7	4.7	0.3	0.1	0.8	1.8	9.4	16.0	15.0
26. Satkhira	21.3	18.9	15.5	10.7	3.9	0.3	0.0	0.0	0.0	4.4	18.3	22.3
27. Sandwip	24.5	19.5	8.2	9.0	0.7	2.2	2.3	1.5	3.3	12.0	21.0	39.3
28. Serajganj	25.0	23.0	22.5	14.2	10.0	2.6	0.5	0.6	4.0	15.3	24.1	25.2
29. Srimangal	23.2	15.7	14.7	8.1	4.6	1.7	1.8	1.4	4.3	10.4	18.2	20.9
30. Sylhet	15.6	14.1	9.9	3.4	1.0	0.0	0.0	0.0	0.0	2.8	0.8	14.2

Notes: Data show average number of cloud-free days observed at 00.00 G.M.T., 03.00 G.M.T. and 12.00 G.M.T. and these are based on 1961-1970 data

Source: Bangladesh Meteorological Department.

3·13 **TABLE 6** Average number of cloudy days at Dacca.

Year	Cloudy hours			
	6 a.m.	9. a.m.	6 p.m.	Average
1962-63	259	253	268	260
1963-64	286	281	289	285
1964-65	281	276	286	281
1965-66	287	280	298	288
1966-67	276	276	269	274
1967-68	170	271	274	272
1968-69	293	289	292	291
1969-70	293	293	315	300
1970-71	237	236	206	226
1971-72	250	249	247	249
1972-73	273	268	248	263
1973-74	267	255	265	262
1974-75	273	271	300	281
1975-76	n.a.	n.a.	n.a.	n.a.
1976-77	272	267	280	273

Notes: Observations were taken at three different hours i.e. 6 a.m., 9 a.m. and 6 p.m. (local time) in a day.
Source: Bangladesh Meteorological Department.

3.14 **TABLE 7** Maximum wind speed in knots with direction.

Year Station/Month	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1975												
Barisal	nw07	sw07	s07	sw/w07	s10	se07	se09	e10	se09	e05	ne07	n05
Bogra	ne25	w07	w07	n12	e10	se06	sw07	e12	e07	nw07	n04	w12
Chittagong	ssw17	nw20	s/nnw20	se26	nnw40	se28	sse25	s20	se20	sse16	s25	n10
Comilla	ne/w15	se15	ssw15	s30	s25	s20	xxx	s15	s/se12	se09	nw03	nw09
Cox' Bazar	n14	nw12	nw11	s14	s12	s16	s15	s13	sse10	se09	s10	n05
Dinajpur	...	...	w06	e02	...	...	...	...	...	...	...	...
Faridpur	nnw07	nw05	nnw07	sse09	...	...	...	...	...	...	...	...
Ishurdi	n03	nw18	nnw17	ssw40	...	se05	s12	e25	ese18	v10	v10	nnw09
Jessore	nnw10	nnw12	n/sw15	s/sw35	s/se19	e17	sw13	ese19	se16	v07	ne09	n06
Maijdee Court	n02	s05	s05	s09	...	...	...	...	...	...	..	...
Mymensingh	v02	nw04	nw04	se02	...	...	...	...	...	...	...	...
Rajshahi	nw05	nw05	v05	se09	e15	se07	e09	e10	e13	e07	nw04	nw02
Rangamati	n09	s09	se09	s19	s19	s13	s13	s19	s09	s09	s13	s05
Rangpur	v02	v02	e05	s05	se05	se03	se03	se05	se02	se02	e02	se02
Sylhet	se09	e10	e09	ne09	ne15	e07	se06	s12	ne05	ne08	e08	ne05
Khulna	ne05	nw05	w10	s31	n35	se13	sw09	se15	e/se13	se06	ne05	n02

3·14—*contd.* Maximum wind speed in knots with direction.

Year/ Station/Month	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1976												
Barisal ...	n03	n/nw03	s/sw09	sw09	sw09	s09	se09	s10	se18	e09	w09	nw05
Bogra ...	ne07	w15	sw07	w/sw15	se05	se07	e07	e07	se10	v04	w03	nw04
Chittagong ...	nne07	se10	ssw21	se21	ssw19	s26	...	s25	sse19	ese19	se19	v05
Comilla ...	nw03	s12	s15	s25	w18	sc/ne15	s15	s18	s15	e15	s10	nw10
Cox's Bazar ...	nw07	n10	v07	s12	s11	s21	...	se12	s11	sw15	e11	n/nw05
Dinajpur ...	...	...	...	...	...	...	...	...	...	...	...	...
Faridpur ...	nx04	ne05	s07	ssw18	n18	e12	s08	s08	e10	ne13	ne04	n03
Ishurdi ...	n10	sw15	s12	v15	se24	e18	ese18	v05	e13	ne15	sw07	n10
Jessore ...	n09	ne10	sw19	s/sw19	se18	s15	e18	se16	e16	n18	ne07	n07
Maijdee Court ...	nw05	nw29	nw31	s05	s05	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	...	...	...	...	...	...	...	...	...
Rajshahi ...	nw04	nw07	s07	n09	se13	s09	e10	e13	se09	sw05	s/se02	nw03
Rangamati ...	n09	s13	s13	s19	s13	s19	s13	s13	s09	v05	n09	v05
Rangpur ...	e02	v02	w05	w05	se05	se05	se05	se05	se05	v02	ne02	v02
Sylhet ...	e08	s09	se09	se13	ne13	e09	e10	s07	e07	ne12	e08	e09
Khulna ...	n05	s07	s09	s11	e/nw15	s13	se14	se12	e16	se05	ne03	n05
1977												
Barisal ...	n/nw05	w/sw07	s10	sw15	e15	s12	se10	e15	e09	se05	e05	n05
Bogra ...	w05	nw07	se07	e15	n15	ne12	e10	e/se07	e07	v03	w06	v04
Chittagong ...	nw22	v13	s25	v25	se25	s/se19	se25	se/s19	se19	se13	se13	nw09
Comilla ...	n/nw14	s15	s25	s35	s/sw25	se25	s/se19	s16	s17	ne10	n08	nw10
Cox's Bazar ...	n12	nw09	n10	s12	se16	s13	s16	s12	s11	s07	v03	ne07
Dinajpur ...	...	...	...	...	...	...	...	...	...	...	...	...
Faridpur ...	n05	s05	s05	e10	e25	s15	s05	e04	se07	s02	s02	n/ne02
Ishurdi ...	w13	nw12	ssw13	e40	nne18	se15	e15	e20	e20	s12	nne06	v05
Jessore ...	v12	n/se/sw13	s15	s23	s15	sse18	e18	e/se15	se15	e11	sw10	n13
Maijdee Court ...	sw12	s25	ssw10	s17	nw19	sw19	se19	s13	s09	n09	s05	sw01
Mymensingh ...	...	nw02	v02	nw04	ne04	se02	se02	se02	se02	xxx	sw02	...
Rajshahi ...	n02	w03	wsw05	...	...	...	se12	e13	e12	s05	n05	nw03
Rangamati ...	n13	s09	s13	s19	s19	s19	s99	s13	s13	nw15	s09	w09
Rangpur ...	sw03	w03	w05	e05	ne07	se03	se05	se05	e02	e03	e05	ne02
Sylhet ...	se09	e10	e09	ne09	ne15	e07	se06	s12	ne05	ne08	e08	ne05
Khulna ...	nw09	sw10	s10	s17	sw14	se12	e09	e10	se08	s06	se06	ne/e05
1978												
Barisal ...	n05	ne05	n/se05	nw15	ne12	v05	se09	se10	sw06	se09	sw05	n/nw03
Bogra ...	n05	n05	w07	xxx	e16	e06	s/e07	e06	ene09	ne09	w03	nw04
Chittagong ...	n09	ne07	ne12	sw09	s15	s16	s09	se10	se09	se12	n07	n05
Comilla ...	se07	n12	se06	s09	se19	s/se5	—s17	s18	s/sw12	se13	s/se5	n07
Cox's Bazar ...	n14	nw12	n09	w09	s14	s10	s12	s10	s07	se10	nw07	n07
Dinajpur ...	...	...	...	...	...	...	...	...	...	...	...	...
Faridpur ...	n02	ne03	n05	w05	v05	s05	v05	se05	e/se04	e/s04	ne02	v02
Ishurdi ...	n10	nw10	nw12	ese18	e15	ssw15	e15	e15	ese20	e18	v05	nw12
Jessore ...	nw07	n07	sw16	nne40	s21	ssw15	ese15	se16	se13	s15	sw07	v05
Maijdee Court ...	n05	n05	sw13	s15	s19	se27	s27	s22	s07	se13	n05	nw05
Mymensingh ...	nw07	nw09	e12	ne10	e11	ese12	s16	e11	se18	se09	e07	ne/e06
Rajshahi ...	nw09	ne08	n09	s19	s19	xxx	e15	e19	se17	e12	nw09	n09
Rangamati ...	nw09	n09	n13	s/nw09	e13	s13	n/sw09	s13	s13	s09	n/s09	n/nw05
Rangpur ...	v02	v02	e05	e/w13	se09	e13	se09	se05	ne/se09	ne09	v05	e09
Sylhet ...	e/ne07	ne08	ne09	w09	s06	s06	s06	s08	ne07	ne09	e07	ne99
Khulna ...	n05	n05	se07	v05	se12	s05	sw07	e08	se10	s06	n04	n04

Source : Bangladesh Meteorological Department.
(...) data not available.

TABLE 8 Quantity and value of selected commodities imported into Bangladesh.

Code	Commodities	Unit	1976-77		1977-78		1978-79	
			Quantity (Thousand)	Value (Million Tk.)	Quantity (Thousand)	Value (Million Tk.)	Quantity (Thousand)	Value (Million Tk.)
651	Textile yarn	Kg.	—	607.8	—	737.0	—	469.2
	6513202 Cotton yarn white double	"	34.2	1.4	257.6	8.6	113.4	4.0
	6513301 Cotton yarn grey unbleached	"	128.1	6.3	3103.5	126.2	1910.2	84.9
	6513303 Cotton yarn white bleached 35-47 count	"	109.0	4.6	792.7	35.7	956.3	42.4
	6514903 Nylon yarn	"	1521.9	59.9	2655.3	114.1	24476.9	107.1
	6517101 Rayon viscose yarn N/retail	"	941.8	19.8	161.2	5.1	306.7	12.3
	6517102 Artificial silk yarn including rayon	"	19.4	0.6	700.8	21.3	1414.0	55.1
652	Cotton fabrics woven	Metre	—	85.7	—	11.8	—	236.3
653	Fabrics woven man-made fibre	"	—	148.0	—	212.1	—	197.7
654	Textile fabrics woven other	Metre	—	1.9	—	4.0	—	0.5
656	Tulle lace embroidery	Kg.	—	0.3	—	0.5	—	0.4
657	Special textile fabrics	"	—	40.5	—	29.6	—	75.6
658	Made up articles of textiles	"	—	10.0	—	1.9	—	3.9
659	Floor coverings ect.	S.M.	—	0.1	—	0.7	—	0.1
661	Lime, cement construction materials	M.T.	—	241.6	—	368·7	—	491.0
	6612001 Portland cement	"	247·2	171.2	240.4	249.4	333.4	325.7
	6612002 White cement	"	0.6	1.1	0.4	0.7	1.3	2.9
662	Clay construction meterials	Kg.	—	55.3	—	118.9	—	27.8
	6623201 Fire bricks refractory	"	27542.4	30.9	5366.0	10.9	600.9	14.2
663	Mineral manufactures	"	—	6.1	—	17.5	—	17.9
664	Glass	"	—	10.5	—	19.7	—	17.1
665	Glassware	Gross	—	28.5	—	27.9	—	34.9
666	Pottery	Value	—	0.7	—	0.1	—	0.1
667	Pearls precious N/worked	Value	—	—	—	...	0.2	...
671	Pig iron powder and shot etc.	M.T.	—	75.4	—	159.1	—	226.2
	6712002 Pig iron including cast iron	"	38.1	74.8	86.5	155.0	91.1	220.1
672	Iron primary form ingots	"	—	68.8	—	115.7	—	308.2
	672 5101 Billets of alloy steel	"	24.3	61.5	38.0	100.1	70.5	295.6
	6725401 Billets of iron and steel	"	1.3	3.4	1.5	4.3	0.8	2.3
673	Iron bars, rods, angles, etc.	"	—	15.1	—	17.3	—	43.9
	6732601 Bars of Iron and Steel	"	12.0	6.8	2.1	6.1	3.1	21.0
674	Iron universals plates and sheets	"	—	195.7	—	337.7	—	692.6
	6746401 Sheets and plates of alloy steel	"	13.9	18.1	36.7	33.7	22.0	44.8
675	Hoop and strip of iron or steel	"	—	16.8	—	19.7	—	30.0
	6750101 Hoop and strip N/High carbon steel	"	2.1	10.1	2.8	13.1	3.6	17.9
676	Rails and rail road track	"	—	18.8	—	8.9	—	23.3
	6760101 Rails for railways	"	1.7	12.8	0.1	1.3	...	1.4
677	Ironwire	"	—	16.1	—	28.0	—	27.7
678	Iron tubes pipes and fittings	"	—	52.7	—	85.7	—	145.0
	6783001 Iron tubes and pipes others		4·6	30·8	8·0	59.3	15.4	90.7
	6785001 Tubes and pipes fittings of iron	"	6.2	18.0	11.4	13.1	8.0	43.2
679	Iron casting and stampings	"	—	3·4	—	0.6	—	1.7
682	Copper in primary forms	Kg.	—	38.3	—	53.3	—	66.3
	6822103 Copper rods	"	1137.5	29·1	1512.1	42.5	156.0	40.5
	6822106 Copper wire	"	65.0	1.9	98.2	2.8	86.6	3.7
683	Nickel in primary forms	"	—	1.8	—	1.7	—	3.2

6.5—*contd.* Quantity and value of selected commoditics imported into Bangladesh.

Code	Commodities	Unit	1976-77		1977-78		1978-79	
			Quantity (Thousand)	Value (Million Tk.)	Quantity (Thousand)	Value (Million Tk.)	Quantity (Thousand)	Value (Million Tk.)
684	Aluminium in primary forms	Kg.	—	54.9	—	74.6	—	116.9
	6841001 Aluminium ingots	"	1467.0	24.5	1679.3	43.3	3594.9	69.7
	6842201 Aluminium plates sheets and strips	"	216.4	5.8	229.7	6.4	260.9	8.2
	6842301 Aluminium foils	"	282.8	9.7	292.3	11.6	392.9	16.9
685	Lead in primary forms	"	—	7.1	—	0.9	—	1.3
686	Zinc in primary forms	"	—	17.8	—	15.2	—	26.8
687	Tin in primary forms	"	—	3.0	—	5.9	—	13.9
689	Non-ferrous metal in primary forms	"	—	0.8	—	0.5	—	1.7
691	Iron and aluminium manufacture		—	114.0	—	140.2	—	188.7
692	Metal storage containers	Kg.	—	3.6	—	18.1	—	20.6
	6921301 Aluminium tanks and vats	"	—	—	—	—	3.7	...
	6924101 Iron casks, drums for packing	"	34.2	0.7	54.9	1.1	48.9	0.9
	6924301 Iron gas cylinders	"	35.0	1.2	399.1	10.1	240.2	8.3
693	Wire products	Kg.	—	82.4	—	75.1	—	15.5
	6931101 Iron and steel ropes	"	248.2	3.0	400.0	5.7	367.3	4.4
	6931301 Aluminium ropes, wire, cables etc.	"	3583.7	76.1	3077.7	61.3	349.5	9.8
694	Nails screws nuts and bolts etc	"	—	987.9	—	62.0	—	19.7
695	Tools for use in hand or machines	"	—	38.0	—	48.6	—	98.1
	6953202 Wrenches etc	"	24.8	0.3	14.1	0.3	205.8	16.5
	6953919 Hand tools other nec	Value	—	23.9	—	28.8	—	40.6
696	Cutlery	Gross	—	7.4	—	6.8	—	16.1
	6960301 Razor blades	"	159.3	6.3	175.8	5.1	534.4	14.4
697	Household equipment	Value	—	13.9	—	3.0	—	2.4
699	Manufactures of base metal nec	Kg.	—	201.0	—	104.0	—	99.9
	6991101 Locks pad lock and keys	"	179.9	4.3	155.0	4.9	198.9	7.9
	6991203 Cabinets of base metal	"	0.6	...	9.3	0.6	190.9	11.3
711	Steam vapour generating boilers	No.	—	7.9	—	59.9	—	77.9
713	Internal combustion piston engine	"	—	228.2	—	223.2	—	203.9
714	Engines of motors N/electric	"	—	4.5	—	3.1	—	1.9
716	Rotating electric plants and parts	"	—	17.2	—	42.8	—	49.1
	7162101 Electric motors A.C.	"	16.0	10.4	14.3	27.0	15.5	29.3
	7162301 Generating sets for alternating current	"	2.5	2.5	36.3	9.0	4.2	9.4
718	Power generating equipment others	"	—	3.2	—	1.9	—	2.8
721	Agricultural machinery cultivation	"	—	17.5	—	30.1	—	15.1
722	Tractors	"	—	13.0	—	36.5	—	54.7
	7223002 Tractors catterpillar type	"	—	—	...	1.9	...	3.9
	7224903 Agricultural tractors W/wheels	"	0.6	1.0	...	2.7	—	8.8
723	Civil Engineering plant and equipment	"	—	24.4	—	33.1	—	92.9
724	Textile and leather machinery	"	—	344.6	—	347.0	—	724.0
	7243102 Sewing machines industrial	"	0.1	0.4	4.4	2.4	0.9	—
	7245109 Cotton textile machinery nec	Value	—	12.7	—	7.7	—	3.3
725	Paper mill machinery	No.	—	10.6	—	9.1	—	7.4
726	Printing and book binding machinery	"	—	22·2	—	39·5	—	73.7
727	Food processing machinery	"	—	35.5	—	42.8	—	33.9
	7272207 Tea making machines	"	0.4	1.5	0.2	2.5	0.7	38.0
								4.5

5.27—*contd.*

TABLE 9 — Production of selected industrial items.

(Value in Thousand Taka)

Item	Unit of Quantity	1969-70 Quantity	1970-71 Quantity	1971-72 Quantity	1972-73 Quantity	1973-74 Quantity	1973-74 Value	1974-75 Quantity	1974-75 Value	1975-76 Quantity	1975-76 Value	1976-77 Quantity	1976-77 Value	1977-78 Quantity	1977-78 Value	1978-79 Quantity	1978-79 Value
4. Textile manufacturing—*contd.*																	
Hessian ...	Ton	227674	199439	120982	155098	172294	...	141640	1010704	161254	1211018	166473	1342938	176643	1648256	175263	2121597
Sacking ...	,,	279280	172754	145585	210404	227233	...	227893	1353763	221013	1085616	226982	1103883	265450	1645790	231595	1784454
Carpet backing ...	,,	33000	41000	35000	54000	65729	...	40448	311840	71326	437870	70433	368787	76158	...	74795	564242
Others ...	,,	20567	26380	13761	26806	34943	...	29825	176683	24328	109305	26169	142778	28109	170908	18298	139634
Synthetic yarn ...	'000' lbs.	6153	...	...	4352	4670	...	3583	...	2675	34085	3122	53228	2869	57289	4760	115578
5. Paper products :																	
Writing ...	Ton	10319	13071	8626	6544	9022	31063	9534	63096	7341	54947	10351	96668	12007	113166	12896	116593
Printing ...	,,	21377	11088	6562	12491	9814	35056	13960	92164	6873	52963	9003	80090	11841	111601	13561	131873
Packing and others ...	,,	10518	7851	4966	4078	4192	1404	5996	38140	5612	42208	7105	62154	7702	72591	4948	48197
Newsprint ...	,,	35740	29625	16056	27495	26464	54780	28782	77452	20045	81703	14588	81737	27632	153192	33606	198770
Particle board ...	,,	5462	...	...	1498	2041	7104	2101	14809	1399	10002	2102	8728	2743	11453	1937	13346
Hard board ...	'000' sft.	15094	...	...	6065	15710	5341	15420	7556	12910	6971	18809	10721	19279	11182	18567	11879
6. Rubber products :																	
Cycle tyres and tubes ...	Doz.	3840	...	...	3175	26000	...	31740	8855	37344	15572	29615	7937	31889	8865	17158	4410
7. Chemicals and fertilizers :																	
Urea ...	Ton	94500	51200	47000	207200	274590	209238	68011	151824	275541	264795	287343	487849	208715	361922	290067	512093
Amn. sulphate ...	,,	—	—	—	5006	10129	6867	4850	5194	5710	6115	9114	9761	9304	9965	5244	8685
T.S.P. ...	,,	—	—	—	—	...	...	32337	119647	48190	185724	47222	205416	37667	163851	57120	252377
Sulphuric acid ...	,,	6466	4328	352	5712	6410	...	5407	...	4028	4568	3205	2948	4507	4146	12318	...
Hydro. acid ...	,,	...	...	270	1193	1872	562	1586	1576	1660	1992	1466	1627	1688	3238	1843	...
Coustic soda ...	,,	3352	2711	2006	3877	3794	14387	4265	40675	4122	28079	5019	42318	5606	52685	5415	52509
Chlorine ...	,,	2943	2338	1767	2699	2267	8735	8087	22516	3513	33753	2906	24887	3747	35784	3841	...
D.D.T. ...	,,	1254	...	...	154	259	...	251	7352	139	7738	381	11594	438	17622	455	17720
Medicine (value of prod.) ...	'000' Tk.	...	...	...	...	—	250700	—	331645	—	440770	—	486947	—	524975	—	708750
Medicated wine ...	L.P.G.	29543	23798	18131	35786	44798	...	27298	...	35943	...	42246	...	56962	...	142161	...
Paints and varnishes ...	Gallon	...	...	...	...	232629	25538	22343	33524	202361	52982	259703	56115	224393	74790	462751	93494(e)
Matches ...	'000' G.B.	12964	10288	6338	5914	6207	...	6227	118313	6845	130055	7564	121024	8045	152855	9120	220054
8. Petroleum prod. ...	M.T.	767490	...	...	697975	341312	—	772701	—	847023	—	1075158	—	1017232	—	1031975	—
9. Non-metalic mineral prod. :																	
Glass sheet ...	'000' sft.	6231	...	...	7247	5712	...	5739	11478	5591	16778	5810	17430	7550	22650	8373	33492
Cement ...	M.T.	53000	66000	23000	31100	52175	30166	126706	78158	157007	136763	307666	305441	338614	372472	322473	372588
10. Basic metal prod.:																	
Steel ingot ...	Ton	67000(e)	...	...	66881	73652	...	76390	...	90409	...	107715	365006	116916	408038	126371	961489
M.S. rod ...	,,	...	...	...	...	26457	122331	35113	233515	49106	339525	49223	338831	57207	377406	61893	466355
M.S. plate ...	,,	...	...	...	...	11094	66276	1148	9287	3152	24800	20590	155573	10148	75592	23358	185997
B.P. sheet ...	,,	...	...	...	...	5957	38750	4260	43465	6001	62572	1570	13825	3068	26919	1977	19868
G.P. sheet ...	,,	...	...	...	...	9194	64358	4139	42346	7570	72104	10700	96642	6900	67544	13691	177681
Billet (2"sq.) ...	,,	...	...	...	...	28344	77152	37163	126227	53676	284053	56057	281686	60954	308427	99496	601402
11. Machinery except electric:																	
Lathe machine ...	No.	...	...	...	...	8	214	3	79	18	2202	29	3397	16	1702	13	—
Diesel engine ...	,,	...	...	...	...	1212	15300	5006	75700	1	...	1118	5499	24	274	92	1499
½ to 1 cusec pump ...	,,	...	...	...	...	758	1558	416	1587	1742	4734	5327	10801	2810	12890	2812	7378
1½ to 2 cusec pump ...	,,	...	...	...	...	902	2113	3664	8073	435	1185	957	2915	842	3308	1656	4457
Turbine pump ...	,,	...	...	...	...	628	11112	26	1430	17	1028	321	6812	28	1696	176	6528
Hand pump ...	,,	...	...	...	...	15	3	15	3	175	35	60	12	84	17	200	82
12. Electric goods:																	
Ceiling fan ...	No.	...	...	...	16077	31777	14045	38500	31027	35393	29218	44159	38229	60518	54901	75205	65760
Table fan ...	,,	...	...	...	142	210	75	851	617	710	523	871	659	301	297	418	428
Other fans ...	,,	...	...	...	294	289	160	850	326	551	534	683	684	1556	1468	855	1126
Bulb ...	'000'	...	...	...	2214	2318	5702	2401	9086	3835	18883	4399	24917	4691	29297	4504	27898
Tube lights ...	,,	...	...	...	42	128	3523	176	5810	114	3717	230	7660	275	12311	437	13121

TABLE 10 Number of teachers and students in the University of Engineering and Technology.

Name of department	Number of teachers			Number of students					
				1973-74		1974-75		1975-76	
	1973-74	1974-75	1975-76	Under-graduate	Post-graduate	Under-graduate	Post-graduate	Under-graduate	Post-graduate
1. Civil Engineering	37	39	39	447	5	392	8	450	10
2. Mechanical "	29	30	31	250	14	224	16	231	14
3. Electrical "	40	44	45	164	30	143	36	178	19
4. Chemical "	16	19	21	101	5	88	6	65	3
5. Metallurgical "	9	10	10	20	1	15	1	12	—
6. Naval Arch. and Marine Engg.	4	5	5	19	—	19	—	19	—
7. Water Resources Engg.	8	9	11	77	8	117	6	105	7
8. Architecture	16	17	20	113	—	121	—	118	—
9. Urban and Regional Planning	4	5	7	—	5	—	14	—	18
10. Chemistry	10	10	11	—	—	—	—	—	—
11. Physics	7	8	9	—	—	—	—	—	—
12. Mathematics	9	10	11	—	—	—	—	—	—
13. Humanities	4	4	4	—	—	—	—	—	—
Total	193	210	225	1191	68	1119	87	1178	71

Source: University of Engineering and Technology.

Notes : Sl. 10–13 are auxiliary subjects for the students; hence no student has been shown against them.

TABLE 11 Facultywise number of teachers and students in the University of Engineering and Technology.

Faculty	Teachers				Students											
					1976-77			1977-78			1978-79			1979-80		
	1976-77	1977-78	1978-79	1979-80	Under-graduate	Post-graduate	Total	Under-graduate	Post-graduate	Total	Under-graduate	Post-graduate	Total	Under-graduate	Post-graduate	Total
1. Faculty of Engineering	175	168	166	185	1486	53	1539	1690	54	1744	1922	108(a)	2030	2091	76(b)	2167
(i) Chemical Engineering.	21	16	16	18	—	—	—	—	—	—	—	—	—	—	—	—
(ii) Civil Engineering.	42	43	51	58	—	—	—	—	—	—	—	—	—	—	—	—
(iii) Electrical Engineering.	47	45	41	46	—	—	—	—	—	—	—	—	—	—	—	—
(iv) Mechanical Engineering.	36	34	30	33	—	—	—	—	—	—	—	—	—	—	—	—
(v) Metallurgical Engineering.	10	9	9	9	—	—	—	—	—	—	—	—	—	—	—	—
(vi) Naval Arch. and Marine Engineering	5	5	5	5	—	—	—	—	—	—	—	—	—	—	—	—
(vii) Water Resources Engineering	14	16	14	16	—	—	—	—	—	—	—	—	—	—	—	—
2. Faculty of Architecture and Planning (c)	27	26	22	24	118	28	146	131	15	146	153	54	207	167	49	216
(i) Architecture	20	17	12	15	—	—	—	—	—	—	—	—	—	—	—	—
(ii) Urban and Regional Planning.	7	9	10	9	—	—	—	—	—	—	—	—	—	—	—	—
3. Auxiliary subjects (d)	33	35	38	41	—	—	—	—	—	—	—	—	—	—	—	—
Chemistry	11	10	12	14	—	—	—	—	—	—	—	—	—	—	—	—
Mathematics	10	9	11	12	—	—	—	—	—	—	—	—	—	—	—	—
Physics	8	11	10	10	—	—	—	—	—	—	—	—	—	—	—	—
Humanities	4	5	5	5	—	—	—	—	—	—	—	—	—	—	—	—
Total	235	299	226	250	1604	81	1685	1821	69	1890	2075	162	2237	2258	125	2383

Notes: Number of students and teachers in 3 engineering colleges of the country located at Chittagong, Khulna and Rajshahi stand at 2080 (2110 in 1980) and 129 respectively on June 30, 1978 (Sources: Bureau of Educational Information and Statistics and Planning Commission)
(a) Including 6 Ph. D.s (b) Including 9 Ph. D's. (c) Departmentwise breakdowns of students are not available.
(d) Students are obviously included under different faculties.

Source: University of Engineering and Technology.

TABLE 12 SCHEDULE OF RATES

PUBLIC WORKS DEPARTMENT

GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH

SCHEDULE OF RATES

[FOURTH EDITION]

EFFECTIVE FROM
DECEMBER 15TH 1980

PRICE : Tk. 40/- only

A-V-24

PREFACE

The pattern of price escalation of materials and labour had been so frequent that the necessity of revising the current Schedule of Rates can not be over emphasized. The price of materials did not rise alone, the cost of transportation has also added a serious component in determining the present rates of items. The factors of taxes and other charges have been taken into consideration in determining the rates. The attempt has been made to cover common items of construction with more details as far as possible. Some items of Timber have been ommitted because of the non-availability in the market. However, if such items are available or they are in use, those may be referred to this office for determining the rates.

It is necessary to note here that all the steps have been taken to make a dependable & functional Schedule of Rates based on detailed Analysis. Questionnaries were made regarding the performance, accuracy and suggestion in respect of the last Schedule of Rates effective from 1st August, 1979 from all the engineers of the P. W. D. The labour rate and the cost of materials were also invited from them. Market rates were verified and some common factors of prices and common labour items were thus evolved and on the basis of which the present Schedule of Rates effective from 15th December, 1980 and Analysis of Rates were formulated. First Manuscripts were made and the copies were distributed amongst the selected engineers for their scrutiny and comments. Conferences and discussion meetings were held and rates were modified and presented in this volume.

We would like to thank Mr. M. A. Rouf, S. E. P W D Circle—II, Dacca, Sk. Hashmat Ali, S. E. PWD Circle—I, Dacca, Mr. A. H. Milky, S. E. PWD Circle, Barisal and Mr. Shawkat Ali, E. E. PWD City Division, Dacca for their active co-operation and useful suggestions.

We would also like to thank Mr. Z. I. Khan, E.E. Mr. Amirul Islam, A. E. Mr. Matiar Rahman, Estimator, PWD Circle, Barisal for their genuine interest and performance in preparation and correction of the manuscript.

The name of Mr. Ali Akbar Tarafder, Assistant Engineer who endeavoured this work needs special mention. Mr. A. Hamid, B. Sc. Engineer, FIE, Executive Engineer, PWD. Division-VII, Dacca made a commendable job in compiling and printing the present books for which his endeavour is acknowledged. We would also like to thank Mr. A. K. M. Nazrul Islam Bhuyan, B. Sc. Engineer, MIE, Sub-Divisional Engineer, of PWD. Division-VII, Dacca and Mr. Rafiqul Islam, Estimator of PWD. Division-VII, Dacca for their interest and performance in preparation & correction of the manuscript.

Again, we are confident that the present book will meet more objective criteria for its successful use.

Abdul Faraz Khan,
Superintending Engineer (Dev),
Public Works Department.

K. A. M. Md. Baqui Billah,
Addl. Chief Engineer,
Public Works Department.

FOREWORD

The revision of the Schedule was necessary due to rise in cost of materials and labour and it has been done taking these into consideration. The basis of revision and modification was incorporated on the basis of existing market rates and suggestions obtained from the P. W. D. engineers and other agencies. Due scrutiny was made in preparing the present volume. It covers both the rates of Dacca, other districts and Barisal and Patuakhali.

The market rates are so fluctuating and the availability of the some building materials are so scarce, that any venture to make a stable Schedule of Rates is extremely difficult. We hope that the P. W. D. tradition of making this Schedule as a base line in preparing the estimates for preparation of the scheme is maintained. An attempt has only been made to analyse and cover the general items of works. This Schedule of Rates will come into force with effect from the 15th of December, 1980.

(MOHIUDDIN AHMED KHAN)
Chief Engineer,
Public Works Department.

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LABOUR RATES

1.	Ordinary Labour	... ...	Tk. 20/- per day.
2.	Skilled Labour	....	Tk. 22/- per day.
3.	Head Mason	... ...	Tk. 45/- per day.
4.	Mason	... ...	Tk. 40/- per day.
5.	Carpenter/painter	... .	Tk. 40/- per day.
6.	Plumber	....	Tk. 35/- per day.
7.	Rod Mistry	... ...	Tk. 35/- per day.
8.	Helper	... .	Tk. 22/- per day.

Abul Faraz Khan,
Superinteding Engineer (Dev),
Public Works Department.

ISSUE RATES OF MATERIALS

Sl. No.	Description of items	Unit of rate	Rate in Taka: All districts except Barisal & Patuakhali	Barisal	Patuakhali
1.	1st Class or picked jhama bricks.	per %o Nos.	1,000·00	1,000·00	1,000·00
2.	1st Class or picked jhama bats.	per % cft.	850·00	850·00	850·00
3.	Machine made bricks 10 holes.	per %o Nos.	1,150·00	1,150·00	1,150·00
4.	Machine made bricks 17 holes.	per %o Nos.	1,100·00	1,100·00	1,100·00
5.	Ceramic facing bricks—8" × 4" × 2"	per %o Nos.	1,250·00	1,250·00	1,250·00
6.	Cement.	per bag.	90·00	90·00	90·00
7.	M. S. Rod and Structural steel (Angle Iron/F. I. bar).	per ton.	12,400·00	12,400·00	12,400·00
8.	M. S. Window section (T/Z section)	per ton.	13,400·00	13,400·00	13,400·00
9.	C. I. Sheet. (24 B. W. G.)	per ton.	17,000·00	17,000·00	17,000·00
10.	Lime (slaked).	per maund.	80·00	80·00	80·00
11.	Stone lime.	per maund.	100·00	100·00	100·00
	SAND.				
1.	Best local sand (F. M.—1·8)	per % cft.	350·00	505·00	620·00
2.	Best local sand (F. M.—2·00)	per % cft.	450·00	700·00	725·00
3.	Sunamganj sand (Sylhet) (F. M.— 2·5)	per % cft.	750·00	900·00	925·00
	TIMBER.				
1.	Jam	per cft.	130·00	130·00	130·00
2.	Sundari.	per cft.	130·00	130·00	130·00
3.	Garjan.	per cft.	130·00	130·00	130·00
4.	Kathal.	per cft.	170·00	170·00	170·00
5.	Silkarai.	per cft.	175·00	175·00	175·00
6.	Jarul	per cft.	150·00	150·00	150·00
7.	Local Sal wood (Modhupur)	per cft.	275·00	275·00	275·00

Sl. No.	Description of items	Unit of rate	Rate in Taka: All districts except Barisal & Patuakhali	Barisal	Patuakhali
	TIMBER				
8.	Chapalish.	per cft.	160·00	160·00	160·00
9.	Gammar (Chittagong).	do	185·00	185·00	185·00
10.	Teak Chambal.	do	200·00	200·00	200·00
11.	Telsu.	do	220·00	220·00	220·00
12.	C. T. wood.	do	600·00	600·00	600·00
13.	B. T. wood.	do	800 00	800·00	800·00
	PAINT & COLOURING MATERIALS.				
1.	Synthetic enamel paint.	per gallon	380·00	380·00	380·00
2.	Oil bound distemper.	do	225·00	225·00	225·00
3.	Plastic emulsion paint.	do	370·00	370·00	370·00
	MISCELLANEOUS ITEMS				
1.	Marble chips.	per cwt.	165·00	165·00	165·00
2.	Marble dust.	per cwt.	125·00	125·00	125·00
3.	White cement.	per bag of 40 kg.	420·00	420·00	420·00
4.	Snow ceam. (Foreign made)	per cwt.	1,200·00	1,200 00	1,200·00
5.	Distemper.	per gallon	225·00	225·00	225·00
6.	Stone Shingles (Jaflong/Bholaganj).	per % cft.	1,300·00	1,300·00	1,300·00
7.	Stone Boulders.	per % cft.	1,400·00	1,400·00	1,400·00
8.	Pea gravels.	per % cft.	900·00	925·00	950·00
9.	Bitumen 80/100	per ton.	12,500 00	12 500·00	12,500·00
10.	Coal.	per ton.	1,100·00	1,100·00	1,100·00

CARRIAGE OF MATERIALS

Rate in Taka

Sl. No.	Description of items	Unit of item	Dacca & Mymn.	Cig.	Comilla & Noakhali	Rajshahi & Pabna	Rangpur Bogra & Dinajpur	Khulna Jessore Kushtia	Faridpur	Sylhet	C.H.T.	Barisal & Patuakhali
1.	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-in-charge.											The rates should be based on analysis duly proposed by the Executive Engineer and approved by the Superintending Engineer.
	(a) upto I mile	per ton	31·50	36·00	36·00	45·00	45·00	45·00	45·00	54·00	54·00	
	(b) upto 2 miles	do	36·00	45·00	45·00	54·00	54·00	54·00	54·00	67·50	67·50	
	(c) upto 3 miles	do	40·50	54·00	54·00	63·00	63·00	63·00	63·00	72·00	72·00	
	(d) for each additional mile beyond 3 miles & upto 20 miles.	do	4·50	4·50	4·50	4·50	4·50	6·75	6·75	6·75	7·88	
	(e) for each additional mile beyond 20 miles.	do	3·38	3·38	3·38	3·38	3·38	4·50	4·50	4·50	6·00	

Rate in Taka

Sl. No.	Description of items	Unit of item	Dacca & Mymn.	Ctg.	Comilla & Noakhali	Rajshahi & Pabna	Rangpur Bogra & Dinajpur	Khulna Jessore Kushtia	Faridpur	Sylhet	C.H.T.	Barisal & Patuakhali
2.	Carriage of bricks & brick bats by motor truck, bullock carts or any means including loading & unloading at both ends, stacking properly at site as per direction of the Engineer-in-charge.	per %o Nos. of bricks/ per % cft. of bats.										
	(a) upto 1 mile		88·62	90·57	90·57	118·12	118·12	118·12	118·12	145·70	145·70	The rates should be based on analysis duly proposed by the Executive Engineer and approved by the Superintending Engineer.
	(b) upto 2 miles.	do	98·45	118·12	118·12	145·70	145·70	145·70	145·70	201·95	201·95	
	(c) upto 3 miles.	do	106·32	145·70	145·70	173·25	173·25	173·25	173·25	228·38	228·38	
	(d) For each additional mile beyond 3 miles and upto 20 miles.	do	11·82	11·82	11·82	11·82	11·82	13·77	13·77	13·77	16·07	
	(e) For each additional mile beyond 20 miles.	do	7·88	7·88	7·88	7·88	7·88	11·82	11·82	11·82	13·77	
3.	Carriage of materials by river including loading & unloading at both ends, stacking properly at site as per direction of the Engineer-in-charge.	The rates should be based on analysis duly proposed by the Executive Engineer & approved by the Superintending Engineer.										

BUILDING ITEMS

Sl. No.	Description of items	Unit of rate	Rate in Taka: All districts except Barisal & Patuakhali	Barisal	Patuakhali
1.	Earth work in excavation of all kinds of soils of foundation trenches including levelling, ramming and preparing the base, bailing out water, if necessary, providing centre line and bench mark pillars, removing the spoils etc. to a lead not exceeding 200'—0".				
	(a) Upto 5'—0" depth.	%o cft. per thousand cubic feet.	297·00	297·00	297·00
	(b) Extra for each additional foot of depth beyond 5'—0".	%o cft. per thousand cubic feet.	20·00	20·00	20·00
	(c) Extra for each additional 100'—0" lead beyond 200'—0".	%o cft. per thousand cubic feet.	20·00	20·00	20·00
2.	(a) One layer of brick flat soling in foundation or floor with first class or picked jhama bricks, preparation of bed, and filling the interstices with local sand.	% sft. per hundred square feet.	351·00	351·00	351·00
	(b) One layer of Herring bone bond soling (Brick on edge) do	% sft. per hundred square feet.	568·00	568·00	568·00
	(c) One layer of brick on end edging. do	% rft per hundred runing feet.	290·00	290·00	290·00
3.	(a) (6 : 3 : 1) Mass concrete in foundation with cement, sand and picked jhama chips in/c. breaking chips, screening, mixing, laying compacting to levels & curing.	% cft. per hundred cubic feet.	2,528·00	2,663·00	2,677·00
	(b) (5 : 2 : 1) Lime concrete in foundation with brick chip, surki and lime in/c. breaking, chips, screening, mixing, laying, compacting to levels & curing.	% cft. per hundred cubic feet.	2,270·00	2,270·00	2,270·00
4.	1½" Thick damp proof course (4 : 2 : 1) in cement concrete with cement, sand, picked jhama chips, including breaking chips, screening, centering shuttering, casting and curing finished with a coat of bitumen.	% sft. per hundred square feet.	470·00	484·00	485·00

Sl. No.	Description of items	Unit of rate	Rate in Taka: All districts except Barisal & Patuakhali	Barisal	Patuakhali
5.	Sand filling in foundation trenches & plinth with fine sand in 6" layers watering & consolidating each layer upto finished level.	% cft. per hundred cubic feet.	200·00	200·00	200·00
6.	Earth filling in foundation trenches and plinth in 6" layers, with earth available within 300'—0" of the building site, watering and consolidating each layer upto finished level.	%o cft. per thousand cubic feet.	280·00	280·00	280·00
7.	(a) Earth filling in foundation trenches and plinth in 6" layers, with carted earth to be supplied by the contractor, watering & consolidating each layer upto finished level.	%o cft. per thousand cubic feet.	For Dacca & Ctg. City. 1,100·00	For all other places. 900·00	
	(b) Site improvement with carted earth carried by truck or any other means & throwing in 6" layers including watering and consolidating each layer upto finished level.	%o cft. per thousand cubic feet.	For Dacca & Ctg. City. 1,000·00	For all other places. 850·00	
8.	(a) Brick work with first class bricks in cement mortar (6 : 1) in foundation and plinth, raking out the joints and curing.	% cft. per hundred cubic feet.	1,780·00	1,877·00	1,887·00
	(b) Brick work with first class brick in lime mortar (3 : 1) in foundation and plinth, raking out the joints and curing,	% cft. per hundred cubic feet,	1,866·00	1,866·00	1,866·00

Sl. No.	Description of items	Unit of rate	Rate in Taka: All Districts except Barisal & Patuakhali	Barisal	Patuakhali
9.	Brick walls of width one brick or one and a half brick-length with first class bricks in cement mortar (6 : 1) in super-structure, raking out joints, scaffolding and curing : (measurement to be given as 10″ width for one brick length & 15″ for one and a half brick length).				
	(a) Ground floor.	% cft. per hundred cubic feet.	1,835·00	1,932·00	1,942·00
	(b) do do First floor.	% cft. per hundred cubic feet.	1,855·00	1,952·00	1,962·00
	(c) do do 2nd floor.	% cft. per hundred cubic feet.	1,875·00	1,972·00	1,982·00
	(d) do do Third floor.	% cft. per hundred cubic feet.	1,895·00	1,992·00	2,002·00
10.	(a) Brick work with 10 holes machine made bricks of approved size, having uniform colour, carefully laid in cement mortar (4 : 1) in super-structure of ground floor with uniform width and depth of joints, true to vertical and horizontal lines including raking out joints, scaffolding, curing and pointing with cement mortar (2 : 1) for all floors upto 3rd floor.	% cft. per hundred cubic feet.	2,333·00	2,441·00	2,452·00
	(b) do do with 17 holes machine made bricks do do	% cft. per hundred cubic feet.	2,263·00	2,360·00	2,370·00
11.	Providing brick work in facing in super-structure with 8″ × 4″ × 2″ machine made ceramic pressed bricks of approved quality in cement mortar (4 : 1) including raking out joints, cutting the bricks to required size wherever necessary including high class recessed pointing, cleaning scaffolding curing etc, complete for all floors upto 3rd floor,	% sft. per hundred square feet.	1,444·00	1,471·00	1,474·00

Sl. No.	Description of items	Unit of rate	Rate in Taka: All Districts except Barisal & Patuakhali	Barisal	Patuakhali
12.	(a) 5″ brick work with 1st class bricks in cement mortar (6 : 1) making bond with connected walls, scaffolding, raking out joints and curing in all floors.	% sft. per hundred square feet.	839·00	887·00	892·00
	(b) 5″ Thick brick work with 1st class brick in cement mortar (4 : 1) do do	% sft. per hundred square feet.	911·00	957·00	962·00
13.	(a) 3″ Thick cement concrete (6 : 3 : 1) in flooring with cement, best quality coarse sand and picked jhama chips, including breaking chips, screening, mixing, laying, compacting and curing.	% sft. per hundred square feet.	654·00	688·00	691·00
	(b) do do lime concrete (5 : 2 : 1)	% sft. per hundred square feet.	595·00	595·00	595·00
14.	(a) 1″ Thick artificial patent stone (4 : 2 : 1) flooring with cement, best quality coarse sand [$\frac{2}{3}$rd quantity of best local sand (F. M.-1·8) & $\frac{1}{3}$rd quantity of Sylhet sand or coarse sand of equivalent (F. M.-2·5)] and picked jhama chips, including breaking chips, screening laying the concrete in alternate panels, compacting and finishing the top with neat cement and curing.	% sft. per hundred square feet.	381·00	390·00	391·00
	(b) do for 1$\frac{1}{2}$″ thick do do	% sft. per hundred square feet.	504·00	518·00	519·00
15.	$\frac{1}{8}$″ Thick red oxide or any colour flooring on 1″ thick artificial patent stone flooring (4 : 2 : 1) with cement best quality coarse sand [$\frac{2}{3}$rd quantity of best local sand (F. M.-1·8) and $\frac{1}{3}$rd quantity of Sylhet sand or coarse sand of equivalent (F. M.-2·5) & picked jhama chips, including breaking chips, screening laying the concrete in alternate panels, compacting, finishing and polishing the top and curing.	per sft. per square foot.	10·50	10·54	10·55

Sl. No.	Description of items	Unit of rate	Rate in Taka: All Districts except Barisal & Patuakhali	Barisal	Patuakhali
16.	(a) ¾" Thick (finished) silver grey situ mosaic with one part of marble chips & one part of mixture of white cement, marble dust and grey cement in proportion (1 : 1½ : 3) on 1" thick artificial patent stone flooring (4 : 2 : 1) with cement, best quality coarse sand [⅔rd quantity of best local sand (F. M.-1·8) and ⅓rd quantity of Sylhet sand or coarse sand of equivalent (F. M.-2·5)] and picked jhama chips, including breaking chips, screening, laying the concrete in alternate panels, compacting, curing, polishing the top with pumice stone and finishing with oxalic acid & wax-polish in all floors (including supply of all materials).	per sft. per square foot.	16·50	16·53	16·54
	(b) do do excluding the cost of marble chips, marble dust and white cement.	per sft. per square foot.	9·50	9·62	9·63
17.	(a) ¾" Thick (finished) silver grey situ mosaic with one part of marble chips, and one part of mixture of white cement marble dust and grey cement in proportion (1 : 1½ : 3) on minimum ½" thick cement plaster (4 : 1) to walls including finishing corners and edges, curing, polishing the top with pumice stone and finishing with oxalic acid and wax-polish in all floors (including supply of all materials.)	per sft. per square foot.	15·15	15·30	15·31
	(b) do do excluding the cost of marble chips, marble dust and white cement.	per sft. per square foot.	8·20	8·39	8·41

Sl. No.	Description of items	Unit of rate	Rate in Taka: All Districts except Barisal & Patuakhali	Barisal	Patuakhali
18.	(a) $\frac{1}{4}$" Thick (finished) coloured mosaic in situ with one part of marble chips and one part of mixture of white cement, marble dust (1 : 1) and necessary quantity of colouring materials on 1" thick artificial patent stone flooring (4 : 2 : 1) with cement, best quality coarse sand [$\frac{2}{3}$rd quantity of best local sand (F. M.-1·8) and $\frac{1}{3}$rd quantity of Sylhet sand or coarse sand of equivalent (F. M.-2·5)] and picked jhama chips, including breaking chips, laying the concrete in alternate panels, compacting, curing, screening polishing the top with pumice stone and finishing with oxalic acid and wax-polish in all floors (including supply of all materials).	per sft. per square foot.	21·15	21·69	21·70
	(b) do do excluding cost of marble chips, marble dust and white cement.	per sft. per square foot.	11·50	11·59	11·60
19.	(a) $\frac{1}{4}$" Thick (finished) coloured mosaic in situ with one part of marble chips, one part of mixure of white cement and marble dust (1 : 1) and necessary quantity of colouring materials on minimum $\frac{1}{2}$" thick cement plaster (4 : 1) to walls including finishing corners and edges, polishing the top with pumice stone and finishing with oxalic acid and wax-polish in all floors. (including supply of all materials).	per sft. per square foot.	19·85	20·00	20·00
	(b) do do excluding cost of marble chips, marble dust and white cement.	per sft. per square foot.	10·20	10·34	10·37

Sl. No.	Description of items	Unit of rate	Rate in Taka: All districts except Barisal & Patuakhali	Barisal	Patuakhali
20.	(a) Silver grey mosaic terrazo tiles (8″ × 8″ × ¾″) flooring with ¼″ thick (finished) mosaic top with one part of marble chips and one part of mixture of white cement, marble dust and grey cement in proportion (1 : 1½ : 3) machine pressed on cement mortar base (2 : 1) including preparing the base, setting the tiles in cement slurry and lime mortar with best quality lime and surki (1 : 3) polishing the top with pumice stone and finishing with oxalic acid and wax-polish in all floors (including supply of all materials).	per sft. per square foot.	18·50	18·60	18·62
	(b) do do do excluding cost of marble chips, marble dust and white cement.	per sft. per square foot.	11·50	11·70	11·71
21.	(a) Coloured mosaic terrazo tile (8″ × 8″ × ¾″) flooring having ¼″ thick (finished) mosaic top with one part of marble chips and one part of mixture of white cement & marble dust in proportion (1 : 1) and necessary quantity of colouring materials machine pressed on cement mortar (2 : 1) base in/c preparing the base, setting the tiles in cement slurry and lime mortar with best quality lime and surki (1 : 3) polishing the top with pumice stone and finishing with oxalic acid and wax-polish in all floors (including supply of all materials).	per sft. per square foot.	23·20	23·32	23·33
	(b) do do excluding cost of marble chips, marble dust and white cement.	per sft. per square foot.	13·55	13·66	13·68

Sl. No.	Description of items	Unit of rate	Rate in Taka: All districts except Barisal & Patuakhali	Barisal	Patuakhali
22.	(a) Design mosaic terrazo tile (8″ × 8″ × ¾″) flooring having ¼″ thick (finished) mosaic top with one part of marble chips and one part of mixture of white cement & marble dust in proportion (1 : 1) and necessary quantity of colouring materials, machine pressed on cement mortar base (2 : 1) including preparing the base, setting the tiles in cement slurry & lime mortar with best quality lime and surki (3 : 1) polishing the top with pumice stone and finishing with oxalic acid and wax-polish in all floors, (including supply of all materials).	per sft. per square foot.	24·00	24·07	24·08
	(b) do do do excluding cost of marble chips, marble dust and white cement.	per sft. per square foot.	14·30	14·41	14·43
23.	3″ Thick reinforced brick work in cement mortar (4 : 1) with 2 Nos. ¼″ dia M. S rods at every 3rd layer, providing bonds with connected walls in all floors in/c, curing etc. complete.	per % sft. per hundred square feet.	768·00	787·00	788·00
24.	Minimum ½″ thick cement plaster (4 : 1) to dado & plinth wall upto 6″ below ground level, neat cement finishing and finishing edges & corners & curing in all floors upto third floors.	per % sft. per hundred square feet.	257·00	270·00	272·00
25.	Minimum ½″ Thick cement plaster (6 : 1) to walls, both inner & outer surfaces, finishing corners & edges & curing in all floors upto third floor.	per % sft. per hundred square feet.	216·00	235·00	237·00
26.	Minimum ½″ thick cement plaster (4 : 1) to ceiling R. C. C. columns, beams, surfaces of stair case, sunshades, cornices, railing, drop wall, louvers & fins in/c. cleaning the surfaces, finishing corners & edges & curing in all floors upto third floor.	per % sft. per hundred square feet.	159·00	167·0 0	168·00

Sl. No.	Description of items	Unit of rate	Rate in Taka: All districts except Barisal & Patuakhali	Barisal	Patuakhali
27.	Ruled pointing to brick walls with cement mortar (2 : 1), raking out the joints and curing in all floors upto third floor.	per % sft. per hundred square feet.	146·00	150·00	150·00
28.	White washing three coats with slaked lime, supply of gum, blue pigment and necessary cleaning before and after the wash for all floors upto 3rd floor.	per %o sft. per thousand square feet.	157·00	157·00	157·00
29.	Colour wash with yellow orchre two coats over a prime coat of white wash with slaked stone lime, supply of gums, necessary cleaning before and after the wash for all floors upto 3rd floor.	per %o sft. per thousand square feet.	267·00	267·00	267·00
30.	Reinforced concrete works (4 : 2 : 1) with cement, best quality coarse sand [⅔rd quantity of best local sand (F. M.-1·8) and ⅓rd quantity of Sylhet sand or coarse sand of equivalent (F. M. of 2·5)] picked jhama chips including breaking chips and screening, centering, shuttering, placing of rod in position, mixing the aggregates, casting in forms, compacting and curing (excluding the cost of reinforcement & its fabrication) in : Individual and continuous footing of columns, rafts, and floor slab at plinth level.	per cft. per cubic foot.	34·15	35·21	35·33
31.	Reinforced concrete works (4 : 2 : 1) with cement best quality coarse sand [⅔rd quantity of best local sand (F. M. of 1·8) & ⅓rd quantity of Sylhet sand or coarse sand of equivalent (F. M. of 2·5)], picked jhama chips, in/c. breaking chips, screening & centering shuttering, placing, of rod inposition mixing the aggregates, casting in forms compacting and curing (excluding the cost of reinforcements and its fabrication) in : Foundation beams.	per cft. per cubic foot.	38·00	39·05	39·18

Sl. No.	Description of items	Unit of rate	Rate in Taka: All districts except Barisal & Patuakhali	Barisal	Patuakhali
32.	Reinforced concrete works (4 : 2 : 1) with cement, best quality coarse sand [$\frac{2}{3}$rd quantity of best local sand (F. M. 1·8) and $\frac{1}{3}$rd quantity of Sylhet sand or coarse sand of equivalent (F. M. of 2·5)] picked jhama chips in/c. breaking chips and screening, centering, shuttering, placing of rod in position, mixing the aggregates, casting in forms, compacting and curing (excluding the cost of reinforcement and its fabrication) in :				
	Pedestails, columns, capitals, lift walls and walls.	per cft.			
	(a) Below plinth level & in ground floor.	per cubic foot.	50·85	51·90	52·02
	(b) First floor.	per cubic foot.	51·85	52·90	53·02
	(c) Second floor.	per cubic foot.	52·85	53·90	54·02
	(d) Third floor.	per cubic foot.	53·85	54·90	55·02
33.	Reinforced concrete works (4 : 2 : 1) with cement, best quality coarse sand [$\frac{2}{3}$rd quantity of best local sand (F. M. 1·8) $\frac{1}{3}$rd quantity of Sylhet sand or coarse sand of equivalent (F. M. of 2·5)] picked jhama chips including breaking chips and screening, centering, shuttering placing of rod in position, mixing the aggregates, casting in forms, compacting and curing (excluding the cost of reinforcement and its fabrication) in :				
	Tie Beams and lintels.	per cft.			
	(a) Ground floor.	per cubic foot.	42·10	43·17	43·29
	(b) First floor.	per cubic foot.	43·10	44·17	44·29
	(c) Second floor.	per cubic foot.	44·10	45·17	45·29
	(d) Third floor.	per cubic foot.	45·10	46·17	46·29

Sl. No.	Description of items	Unit of rate	Rate in Taka: All districts except Barisal & Patuakhali	Barisal	Patuakhali
34.	Reinforced concrete works (4 : 2 : 1) with cement best quality coarse sand [$\frac{2}{3}$rd quantity of best local sand (F. M. 1·8) and $\frac{1}{3}$rd quantity of Sylhet sand or coarse sand of equivalent (F. M. of 2·5)] picked jhama chips in/c. breaking chips and screening, centring, shuttering, placing of rod in position, mixing the aggregates, casting in forms, compacting and curing (excluding the cost of reinforcement and its fabrication) in :				
	Tee Beams, Ell Beams, Rectangular Beams (Exposed breadth and width of ribs to be measured only).	per cft.			
	(a) Ground floor.	per cubic foot.	51·55	52·60	52·72
	(b) First floor.	per cubic foot.	52·55	53·60	53·72
	(c) Second floor.	per cubic foot.	53·55	54·60	54·72
	(d) Third floor.	per cubic foot.	54·55	55·60	55·72
35.	Reinforced concrete works (4 : 2 : 1) with cement best quality coarse sand [$\frac{2}{3}$rd quantity of best local sand (F. M. 1·8) and $\frac{1}{3}$rd quantity of Sylhet sand or coarse sand of equivalent (F.M. of 2·5)] picked jhama chips including breaking chips & centering, shuttering, placing of rod in position, mixing the aggregates, casting in form, compacting & curing (excluding the cost of reinforcement & its fabrication) in :				
	Roof slab of all types, cantilever slabs and drop panels, excluding floor slab of ground floor at plinth level :	per cft.			
	(a) Ground floor.	per cubic foot.	44·66	45·72	45·85
	(b) First floor.	per cubic foot.	45·66	46·72	46·85
	(c) Second floor.	per cubic foot.	46·66	47·72	47·85
	(d) Third floor.	per cubic foot.	47·66	48·72	48·85

Sl. No.	Description of items	Unit of rate	Rate in Taka		
			All districts except Barisal & Patuakhali	Barisal	Patuakhali
36.	Reinforced concrete works (4 : 2 : 1) with cement, best quality coarse sand [$\frac{2}{3}$rd quantity of best local sand (F. M.-1·8) & $\frac{1}{3}$rd quantity of Sylhet sand or coarse sand of equivalent (F. M.-2·5)] picked jhama chips, including breaking chips and screening, centering, shuttering, placing of rod in position, mixing the aggregates, casting in forms, compacting and curing (excluding the cost of reinforcement and its fabrication) in : Sunshades, cornices, railings, drop walls, louvers and fins for all floors upto third floors (average $2\frac{1}{2}$" to $3\frac{1}{2}$" thick).	per sft. per square foot.	14·36	14·56	14·59
37.	Reinforced concrete works (4 : 2 : 1) with cement, best quality coarse sand [$\frac{2}{3}$rd quantity of best local sand (F. M.-1·8) and $\frac{1}{3}$rd quantity of Sylhet sand or coarse sand of equivalent (F. M. of 2·5)] picked jhama chips in/c. breaking chips & screening. centering shuttering, placing of rod in position, mixing the aggregates, casting in forms, compacting and curing (excluding the cost of reinforcement and its fabrication) Stair case slabs and steps for all floors upto third floors.	per cft. per cubic foot.	48·00	49·10	49·20
38.	$2\frac{1}{2}$" thick precast or cast in situ R. C. C. Jally work (4 : 2 : 1) with cement, best quality coarse sand [$\frac{2}{3}$rd quantity of best local sand (F. M.-1·8) & $\frac{1}{3}$rd quantity of Sylhet sand or coarse sand of equivalent (F. M. of 2·5)] picked jhama chips including breaking chips, screening making forms, mixing the aggregates, casting it with reinforcement in position, setting the Jally with cement mortar (4 : 1) for precast works & minimum $\frac{1}{4}$" thick cement plaster (4 : 1) finishing the edge and corners (without the cost of M. S. rod & fabrication] for all floors upto third floors.	per sft. per square foot.	17·60	17·85	17·89

Sl. No.	Description of items	Unit of rate	Rate in Taka: All districts except Barisal & Patuakhali	Barisal	Patuakhali
39.	Reinforced concrete works with a mix of proportion (3 : $1\frac{1}{2}$: 1) to give a minimum of 3,000 psi, concrete strength on 6" dia & 12" long cylinder from a machine mixed typical batch with fresh cement, best quality coarse screened Sylhet sand of minimum (2·5 F. M.) and $\frac{3}{4}$" down graded crushed stone chips (including cost of breaking chips) in/c. screening, through proper sieves, cleaning & washing throughly, centering, shuttering with M. S. sheet and steel forms, placing of reinforcement—cage in position, mixing the aggregates in mixture machine, casting in steel forms using noxcrete or similar suitable chemical, compacting by Mechanical viabretors and tappered rods and curing as per direction of the Engineer-in-charge, complete in all respect. (Excluding the cost of reinforcement & its fabrications), all R. C. C. surface to be fair face finished and smooth and no plastering will be permitted thereon :				
(a)	In : Individual & continuous footing of columns rafts & floor slab at plinth level.	per cft. per cubic foot.	42·54	43·22	43·33
(b)	do do do In foundation beams.	per cft. per cubic foot.	46·40	47·07	47·18
(c)	do do do In pedestals, columns, capitals, lift walls & walls.				
	(i) Below plinth level & in ground floors.	per cft. per cubic foot.	58·80	59·48	59·60
	(ii) First floor.	do	59·80	60·48	60·60
	(iii) Second floor.	do	60·80	61·48	61·60
	(iv) Third floor.	do	61·80	62·48	62·60

Sl. No.	Description of items	Unit of rate	Rate in Taka: All districts except Barisal & Patuakhali	Barisal	Patuakhali
39. (d)	do do do In Tie Beams and lintels.	per cft.			
	(i) Ground floor.	per cubic foot.	50·50	51·18	51·30
	(ii) First floor.	do	51·50	52·18	52·30
	(iii) Second floor.	do	52·50	53·18	53·30
	(iv) Third floor.	do	53·50	54·18	54·30
(e)	do do do In Tee Beams, Ell Beams, Rectangular Beams (Exposed breadth and width of ribs to be measured only).	per cft.			
	(i) Ground floor.	per cubic foot.	55·88	56·55	56·67
	(ii) First floor.	do	56·88	57·55	57·67
	(iii) Second floor.	do	57·88	58·55	58·67
	(iv) Third floor.	do	58·88	59·55	59·67
(f)	do do do In Roof slab of all types, cantilever slabs & drop panels, excluding floor slab of ground floor at plinth level.	per cft.			
	(i) Ground floor.	per cubic foot.	54·10	54·77	54·88
	(ii) First floor.	do	55·10	55·77	55·88
	(iii) Second floor.	do	56·10	56·77	56·88
	(iv) Third floor.	do	57·10	57·77	57·88
(g)	do do do In sunshades, cornices, railings, drop walls louvers, and fins for all floors upto third floors (average 2½" to 3½" thick).	per sft. per square foot.	17·85	18·00	18·03
(h)	do do do In stair case slabs, and steps for all floors upto third floors.	per cft. per cubic foot.	55·50	56·18	56·29

Sl. No.	Description of items	Unit of rate	Rate in Taka: All Districts except Barisal & Patuakhali	Barisal	Patuakhali
40.	Reinforced concrete works (4 : 2 : 1) with cement, best quality coarse sand of equivalent (F. M. 2·00), picked jhama chips including breaking chips & screening, centering, shuttering, placing of rod in position mixing the aggregates, casting in forms, compacting and curing (Excluding the cost of reinforcement & its fabrication). (When used with approval of the Superintending Engineer concerned in inaccessible place for unimportant work valued less than Tk. 50,000·00).				
	(a) In Individual and continuous footing of Columns, rafts and floor slab at plinth level :	per cft. per cubic foot.	33·98	35·23	35·35
	(b) do do do In foundation beams.	per cft. per cubic foot.	37·85	39·07	39·20
	(c) do do do In Pedestals, Columns, capitals, lift walls & walls.	per cft.			
	(i) Below plinth level and in ground floors.	per cubic foot.	50·70	51·92	52·04
	(ii) First floor.	do	51·70	52·92	53·04
	(iii) Second floor.	do	52·70	53·92	54·04
	(iv) Third floor.	do	53·70	54·92	55·04
	(d) do do do In Tie beams and Lintels.				
	(i) Ground floor.	per cft. per cubic foot.	41·95	43·19	43·31
	(ii) First floor.	do	42·95	44·19	44·31
	(iii) Second floor.	do	43·95	45·19	45·31
	(iv) Third floor.	do	44·95	46·19	46·31

Sl. No.	Description of items	Unit of rate	Rate in Taka: All Districts except Barisal & Patuakhali	Barisal	Patuakhali
40. (e)	do do do				
	InTee Beams, Ell Beams, Rectangular Beam (Exposed breadth and width of ribs to be measured only).	per cft.			
	(i) Ground floor.	per cubic foot.	51·10	52·62	52·74
	(ii) First floor.	do	52·40	53·62	53·74
	(iii) Second floor.	do	53·40	54·62	54·74
	(iv) Third floor.	do	54·40	55·62	55·74
(f)	do do do				
	In Roof slab of all types, cantilever slabs drop panels excluding floor slab of ground floor at plinth level.	per cft.			
	(i) Ground floor.	per cubic foot.	44·50	45·74	45·86
	(ii) First floor.	do	45·50	46·74	46·86
	(iii) Second floor.	do	46·50	47·74	47·86
	(iv) Third floor.	do	47·50	48·74	48·86
(g)	do do do				
	In sunshades, cornices, railings, drop walls, louvers and fins for all floors upto 3rd floors (average $2\frac{1}{2}$" to $3\frac{1}{2}$" thick).	per sft. per square foot.	14·25	14·56	14·59
(h)	do do do				
	In stair case slabs, and steps for all floors, upto 3rd floors.	per cft. per cubic foot.	47·85	49·10	49·23
(i)	$2\frac{1}{2}$" thick precast or cast in sito R. C. C. jally work (4 : 2 : 1) with cement, best quality coarse sand of equivalent (F. M.-2·00) picked jhama chips including breaking chips, screening, making forms, mixing the aggregates, casting it with reinforcement in position, setting the jally with cement mortar (4 : 1) for precast work & minimum $\frac{1}{4}$" thick cement plaster (4 : 1), finishing the edge & corners (without the cost of M. S. rod & its fabrication) all floors upto 3rd floors.	per sft. per square foot.	17·55	17·88	17·89

Sl. No.	Description of items	Unit of rate	Rate in Taka: All Districts except Barisal & Patuakhali	Barisal	Patuakhali
41.	Supplying, fabrication & fixing to details as per design mild steel rod reinforcement in concrete or brick work or wherever prescribed with straightening & cleaning the rust if any, binding in position with supply of wires, for all floors upto third floors.	per cwt. per hundred weight.	670·00	670·00	670·00
42.	Supplying and laying of single layer polythene sheet weighing one pound per thirty square feet in floor below cement concrete reinforced concrete slab etc. complete in all respects as per direction of the Engineer-in-charge.	per % sft. per hundred square feet.	154·00	154·00	154·00
43.	Constructing expansion joints 1½" gaps in R. C. slabs or beams with 10" high shoulders on both side of the gaps, cast monolithic providing copper sheet with loop notch and inserted 6" in the concrete shoulder, the gap being filled up with mixture of hot bitumen and sand (2 : 1) with surface finished with minimum ½" cement plaster (4 : 1) and curing in all floors upto third floor.	per rft. per runnig foot.	118·00	119·00	119·20
44.	Precast ventilators (1" thick) of any design with cement mortar (2 : 1) fitted and fixed in position, finished with cement plaster (6 : 1) and curing in all floors.	per sft. per square foot.	18·00	19·00	19·12
45.	Constructing 1'—0" clear width & depth upto 12" brick masonry surface drain with 5" thick cheeck in cement mortar (6 : 1) on 3" thick cement concrete base (6 : 3 : 1) over one layer of brick flat soling, the surfaces having minimum ½" thick cement plaster (3 : 1) and neat cement finishing curing, with excavation of all kinds of soils back filling with fine sand consolidating and dressing.	per rft. per running foot.	43·00	45·50	45·70

Sl No.	Description of items	Unit of rate	Rate in Taka: All Districts except Barisal & Patuakhali	Barisal	Patuakhali
46.	Constructing surface drain of 2'—0" (av.) depth & 9" clear width at the bottom and 1'—9" at the top having 5" thick cement concrete (4 : 2 : 1) curb upto 1'—0" from the bottom and the side slopes of the remaining 1'—0" height provided with 5" thick 1st. class brick work in cement mortar (6 : 1) including minimum ½" thick cement plaster (3 : 1) and neat cement finishing the surfaces and the back of the drain upto 6" below ground level and curing including excavation of all kinds of soil, back filling with sand, consolidating & dressing.	per rft. per running foot.	80·30	85·31	85·77
47.	Av. 4" thick beaten lime terracing (7 : 2 : 2) on roof slab, mixing, laying to slopes and consolidating making ghoondy, neat finishing with ½" thick lime mortar (2 : 1) and curing.	% cft. per hundred cubic feet.	3,122·00	3,122·00	3,122·00
48.	3" cornice of brick Masonry 3" thick in cement mortar (6 : 1) having minimum ½" thick cement plaster (6 : 1) and curing for all floors upto third floor.	per rft. per running foot.	5·35	5·53	5·55
49.	Supplying fan hook of ⅝" dia Mild steel rod, fabrication and fixing in position in all floors.	Each.	21·00	21·00	21·00
50.	Supplying 4" dia cast iron rain water down pipes fitted and fixed in position with sockets, head & shoe bends, clamps and nails for all floors upto third floors.	per rft. per running foot.	65·35	65·35	65·35
51.	Supplying 4" dia best quality R. C. rain water down pipes fitted and fixed in position with sockets, head and shoe bends, clamps & nails for all floors upto third floors.	per rft. per running foot.	20·00	20·00	20·00
52.	Supplying 4" dia asbestos rain water down pipes fitted & fixed in position with sockets, head and shoe bends, clamps and nails for all floors upto third floors.	per rft. per running foot.	38·60	38·60	38·60

Sl. No.	Description of items	Unit of rate	Rate in Taka. All districts except Barisal & Patuakhali	Barisal	Patuakhali
53.	Providing bearing Joints fixed or free with 10″ × 15″ × $\frac{3}{8}$″ M. S. shoe plate fitted in the truss angles with $\frac{5}{8}$″ dia M. S. rod counter sunk rivets and anchored to 10″ × 15″ × $\frac{3}{8}$″ M. S. sole plate by two Nos. $\frac{3}{4}$″ dis M. S. U. Rod embeded in the bed of the lintel around the reinforcement cleaning and greasing the joints for all floors upto third floor.	Each	470·00	470·00	470·00
54.	24 B. W. G. galvanized iron corrugated sheet roofing, fitted and fixed on M. S. sections or wooden purlins with screws, limpet washers and putty etc. complete.	per % sft. per hundred square feet.	1,274·00	1,274·00	1,274·00
55.	Galvanized iron plain sheet ridging with 12″ lap on eitherside, fitted and fixed with galvanized bolts and nuts etc. complete.	per rft. per running foot.	20·00	20·00	20·00
56.	Mild steel work in roof truss, Supplying and fabrication of mild steel sections as per design, hoisting fitting, fixing in position with bolts and nuts or rivets or welded and providing two coats of anticorrosive paint over a prime coat of red oxide paint (measurement to be given for solid steel section).	per cwt. per hundred weight.	895·00	895·00	895·00
57.	Wood work in door and window frames, painting two coats of coalter to the surface in contact with walls, fitted and fixed in position, mending good the damages if any.	per cft.			
(a)	do do of Jam, Garjan, Sundari wood.	per cubic foot	178·00	178·00	178·00
(b)	do do of Kathal wood.	do	218·00	218·00	218·00
(c)	do do of Jarul.	do	198·00	198·00	198·00
(d)	do do of Local Sal wood. (Madhupur).	do	323·00	323·00	323·00
(e)	do do Telshu wood.	do	268·00	268·00	268·00
(f)	do do of Silkarai wood.	do	223·00	223·00	223·00

Sl. No.	Description of items	Unit of rate	Rate in Taka: All districts except Barisal & Patuakhali	Barisal	Patuakhali
58.	Supplying, fitting & fixing M. S. flat bar clamp 1′—3″ × 1½″ × ¼″ with bifurcated ends to door and window frames with screws encasing inside the wall with cement concrete (4 : 2 : 1).	Per Piece.	17·00	17·00	17·00
59.	Labour for driving wooden bullah piles in foundation to depth as per design by any system with the arrangement of staging & hoisting (the dia of the piles being between 5″ & 6″ measured at 5″ from the thin end).	per rft. per running foot.	7·50	7·50	7·50
60.	Labour for wood work in door and window frames, painting two coats of coaltar to the surface in contact with the walls, fitted and fixed in position, mending good the damages if any.	per cft. per cubic foot.	48·00	48·00	48·00
61.	Supplying, fitting and fixing 1½″ thick solid wood door shutter having closed joints and provided with best quality 4″ iron hinges, 2 (two) Nos. best quality ½″ dia 1′—0″ and 9″ long iron tower and socket bolts, heavy type brass handle, hinged cleats, buffer blocks and finished with sand papering for all floors.				
	(a) Kathal wood.	per sft. per square foot.	39·60	39·60	39·60
	(b) Silkarai wood.	do	40·25	40·25	40·25
	(c) Gammar.	do	41·55	41·55	41·55
	(d) C. T. wood.	do	98·00	98·00	98·00
	(e) B. T. wood.	do	122·20	122·20	122·20
	(f) Chapalish wood.	do	38·25	38·25	38·25
	(g) Teak Chambal wood.	do	43·50	43·50	43·50

Sl. No.	Description of items	Unit of rate	Rate in Taka: All districts except Barisal & Patuakhali	Barisal	Patuakhali
62.	Supplying, fitting & fixing 1½" thick wood flush door shutter having a frame of top, lock and bottom rails of section 4" × ½", styles 4" × 1½", covered with 4" × ⅜" plank screwed to each face and provided with best quality 4" iron hinges, 2 (two) Nos. best quality 1'—0" and 9" long iron tower and socket bolts, heavy type brass handle, hinged cleats, buffer blocks and finished with sand papering for all floors.	per sft.			
	(a) Kathal wood.	per square foot.	36·75	36·75	36·75
	(b) Silkarai wood.	do	37·30	37·30	37·30
	(c) Gammar wood.	do	38·35	38·35	38·35
	(d) C. T. wood.	do	83·20	83·20	83·20
	(e) B. T. wood.	do	104·75	104·75	104·75
	(f) Chapalish wood.	do	35·65	35·65	35·65
	(g) Teak chambal wood.	do	40·00	40·00	40·00
63.	Supplying, fitting and fixing 1½" thick wood panel door shutters, top rail and styles of section 4" × 1½", lock rail 5" × 1½" and bottom rail 9" × 1½" panelling 1⅛" thick both sides raised, provided with best quality 4" iron hinges, 2 (two) Nos. best quality ½" dia 1'—0" and 9" long iron tower and socket bolts, heavy typs brass handle hinged cleats, buffer blocks and finished with sand papering for all floors.	per sft.			
	(a) do do Kathal wood.	per square foot.	45·66	45·66	45·66
	(b) do do Silkarai wood.	do	46·40	46·40	46·40
	(c) do do Gammar wood.	do	48.00	48·00	48·00
	(d) do do C. T. wood.	do	111·20	111·20	111·20
	(e) do do B. T. wood.	do	141·70	141·70	141·70
	(f) do do Chapalish wood.	do	44·15	44·15	44·15
	(g) do do Teak chambal wood.	do	50·25	50·25	50·25

Sl. No.	Description of items	Unit of rate	Rate in Taka: All districts except Barisal & Patuakhali	Barisal	Patuakhali
64.	Supplying, fitting & fixing $1\frac{1}{2}$" thick wood panel door shutter, top rail and styles of section 4" × $1\frac{1}{2}$", lock rail 5" × $1\frac{1}{2}$" & bottom rail 9" × $1\frac{1}{2}$", panelling 1" thick one side raised, provided with best quality 4" iron hinges, 2 (tow) Nos. best quality $\frac{1}{2}$" dia 1'—0" & 9" long iron tower and socket bolts, heavy type brass handle, hinged cleats buffer blocks and finished with sand papering for all floors.	per sft.			
	(a) do do Kathal wood.	per square foot.	39·25	39·25	39·25
	(b) do do Silkarai wood.	do	39·90	39·90	39·90
	(c) do do Gammar wood.	do	41·15	41·15	41·15
	(d) do do C. T. wood.	do	94·15	94·15	94·15
	(e) do do B. T. wood.	do	119·70	119·70	119·70
	(f) do do Chapalish wood.	do	38·00	38·00	38·00
	(g do do Tenk chambal wood.	do	43·10	43·10	43·10
65.	Supplying, fitting and fixing 1" thick kathal wood door and window shutters having 3" × 1" 'Z' battens, provided with best quality 4" iron hinges, 2 (two) Nos. $2\frac{1}{2}$" dia rion ring fitted with nuts, 2 Nos. 1'—0" and 9" iron tower bolts and socket bolts ($\frac{1}{2}$" dia), hinged cleats, buffer blocks and finished with sand papering for all floors.	per sft.			
		per square foot.	30·75	30·75	30·75
66.	Supplying, fitting & fixing $1\frac{1}{2}$" thick wood glazed window shutters having horizontal and vertical sections of $3\frac{1}{2}$" × $1\frac{1}{2}$" and sash bar $1\frac{1}{2}$" × $1\frac{1}{2}$" fitted with 3 m. m. glass panes with putty and nails and provided with best quality $\frac{1}{2}$" dia 9" and 6" long iron tower and socket bolts, brass handle, 9" long catch hooks or hinged cleats, buffer blocks and finished with sand papering for all floors.	per sft.			
	(a) do do Kathal wood.	per square foot.	36·00	36·00	36·00
	(b) do do Silkarai wood.	do	36·40	36·40	36·40
	(c) do do Gammar wood.	do	37·20	37·20	37·20
	(d) do do C. T. wood.	do	70·65	70·65	70·65
	(e) do do B. T. wood.	do	86·75	86·75	86·75
	(f) do do Chapalish wood.	do	35·20	35·20	35·20
	(g) do do Teakachmbal wood	do	38·40	38·40	38·40

Sl. No.	Description of items	Unit of rate	Rate in Taka: All Districts except Barisal & Patuakhali	Barisal	Patuakhali
67.	Supplying, fitting and fixing of $1\frac{1}{2}$" thick wood window shutters, one third glazed & $1\frac{1}{2}$" thick two third both sides raised panelling having horizontal & vertical sections of $3\frac{1}{2}" \times 1\frac{1}{2}"$ and sash bars $1\frac{1}{2}" \times 1\frac{1}{2}"$ fitted with 3 m. m. glass panes with putty and rails and provided with best quality 4" iron hinges, 2 (two) Nos. best quality $\frac{1}{2}$" dia 9" long iron tower and socket bolts, brass handle, 9" long catch hooks or hinged cleats, buffer blocks and finished with sand papering for all floors.				
	(a) do do Kathal wood.	per sft. per square foot.	41·10	41·10	41·10
	(b) do do Silkarai wood.	do	41·75	41·75	41·75
	(c) do do Gammar wood.	do	43·05	43·05	43·05
	(d) do do C. T. wood.	do	97·35	97·35	97·35
	(e) do do B. T. wood.	do	123·50	123·50	123·50
	(f) do do Chapalish wood.	do	39·80	39·80	39·80
	(g) do do Teak chambal wood.	do	45·00	45·00	45·00
68.	Extra for using brass fittings in place of iron fittings in doors and windows for all floors.				
	(a) For doors.	per sft. per square foot.	5·50	5·50	5·50
	(b) For windows.	do	5·00	5·00	5·00
69.	Supplying, fitting and fixing window grills made of $\frac{5}{8}$" dia M. S. rods 4" C/C, fitted with M. S. plate ($1\frac{1}{2}" \times \frac{1}{4}"$) three Nos. horizontal including fabrication, welding or revetting and painting two coats of paint over a coat of priming for all floors.	per sft. per square foot.	33·85	33·85	33·85
70.	Supplying, fitting & fixing window grills of any design made of mild steel section ($\frac{3}{4}" \times \frac{1}{8}"$) with outer frame of F. I. bar ($1" \times \frac{1}{4}"$), fabricating, welding, painting with two coats of paint over a coat of priming for all floors.	per sft. per square foot.	34·55	34·55	34·55

Sl. No.	Description of items	Unit of rate	Rate in Taka: All districts except Barisal & Patuakhali	Barisal	Patuakhali
71.	Supplying, fitting and fixing steel glazed window shutter with frames as per design having $\frac{3}{4}'' \times \frac{3}{4}'' \times \frac{1}{8}''$ 'Z' section in frame and 'T' section for horizontal dividers of shutters and $1'' \times \frac{1}{8}''$ F. I. bar for middle vertical members of frames including all cost of charges for fabrication and manufacture by welding, revetting etc. Supplying all essential fittings like stopper, handle 12" long adjustable cleats iron pins, hinges, clamps for fitting frame including supplying and fitting, fixing 3 m. m. glass panes by pucca putty and pins and painting the window two coats of synthetic enamel paint over a coat of anticorrosive priming, making necessary holes in walls and R. C. C. works as filling with C. C. (4 : 2 : 1) and mending good the damages including all cost of carriage and labour in fitting, fixing etc. complete as per direction of the Engineer-in-charge and as per drawing and design.	per sft. per square foot.	88·30	88·30	88·30
72.	wood work in frames of roof truss with wall plates as per design supplying, fabricating, hoisting, fitting & fixing in position with bolts and nuts.	per cft. per cubic foot.	190·00	190·00	190·00
(a)	do do Garjan, Sundari, Jam wood.	do	235·00	235·00	235·00
(b)	do do Silkarai wood.	do	280·00	280·00	280·00
(c)	do do Telshu wood.	do	210·00	210·00	210·00
(d)	do do Jarul wood.	do	335·00	335·00	335·00
(e)	do do Local Salwood (Modhupur)				
73.	Painting to door and window frames & shutters, two coats with synthetic enamel ready mixed paint of best quality and approved colour over a coat of priming including finishing and polishing with sand paper.	per % sft. per hundred square feet.	210·00	210·00	210·00

Sl. No.	Description of items	Unit of rate	Rate in Taka: All districts except Barisal & Patuakhali	Barisal	Patuakhali
74.	Oil bound distempering two coats over a coat of priming of chalk wash with glue including cleaning and sand papering the surface.	per % sft. per hundred square feet.	162·00	162·00	162·00
75.	Plastic painting of best quality and approved colour to walls and ceiling three coats with putty work cleaning and sand papering the surface.	per % sft. per hundred square feet.	195·00	195·00	195·00
76.	French polishing to door and window frame and shutter three coats over a coat of priming including finishing and polishing with sand paper.	per % sft. per hundred square feet.	235·00	235·00	235·00
77.	Snow cem washing of approved quality and colour 2 coats over a coat of priming including sand papering the surface and cleaning complete in all respect.	per % sft. per hundred square feet.	138·00	138·00	138·00
78.	Providing barbed wire fencing with R. C. C. (4 : 2 : 1) pillars 8′—0″ C/C. and of section 0′—4″ × 0′—4″ at top and 6″ × 6″ at bottom of 7′—0″ total height 4′—6″ above G. L. and 2′—6″ below G. L. in/c. 0′—6″ thick 1′—6″ square spread footings (Pillars reinforced with 4 Nos. $\frac{3}{8}$″ dia main rods and $\frac{1}{4}$″ dia stirrups 6″ C/C, footing reinforced with 5 Nos. $\frac{3}{8}$″ dia rods both ways) supplying, fitting & fixing 8 lines of barbed wire horizontally (fixed with the post through $\frac{1}{4}$″ dia rods embeded into the post) and two lines diagonally from post to post with 12 B.W.G. 2 ply barbed wire, with 4 point barbs @ at least 4$\frac{1}{2}$″ centre to centre in/c. $\frac{1}{4}$″ thick (4 : 1) cement plaster upto 5′—0″ length of the pillars etc. complete as per direction of the Engineer-in-charge.	per foot of fence.	40·70	41·08	41·10

Sl No.	Description of items	Unit of rate	Rate in Taka		
			All Districts except Barisal & Patuakhali	Barisal	Patuakhali
79.	Providing barbed wire fencing with average 4" dia salbullah post of 6'—6" total height (4'—6" above G. L. & 2'—0" embeded in the ground) placed at 6'—0" C/C with 9 Nos. horizontal lines and 2 Nos. diagonal lines of 12 B. W. G. 2 ply barbed wire with 4 point barbs @ at lenst $4\frac{1}{2}$" centre to centre in each bay of 6'—0" including digging holes and embeded the post tightly in ground, streching the wires and fixing with the post with the help of minimum $2\frac{1}{2}$" long G. I. nails and supply of all materials etc. complete as per direction of the Engineer-in-charge	per foot of fence.	24·60	24·60	24·60
80.	Providing apron with 2" thick cement concrete (4 : 2 : 1) with cement, coarse sand and picked jhama chips including breaking chips and one layer of brick flat soling at bottom with 1st class or picked jhama bricks including cutting earth for preparation of bed and filling the interstices with local sand including finishing the top surface with neat cement finishing, curing etc. complete.	per % sft. per hundred square feet.	975·00	995·00	997·00
81.	Providing drip course/Nosing/throating at the edge of sunshade or cornice with cement mortar (2 : 1) in/c, scaffolding, curing etc. complete for all floors.	per rft. per running foot.	2·50	2·50	2·50

ROAD & PAVEMENT WORKS
MISCELLANEOUS ITEMS

Sl. No.	Description of items	Unit of rate	Rate in Taka: All Districts except Barisal & Patuakhali	Barisal	Patuakhali
1.	Earth work in road embankment upto a lift of 5′—0′ in all kinds of soil including cutting & throwing earth in layers not exceeding 6″ in thickness, breaking clods upto 1½″ size in each layer, ramming, levelling & dressing as per required side slope with earth borrowed from the road side Govt. acquired land for all leads and maintaining the embankment true to level and side slopes as per profile for one year from the date of completion as per direction of the Engineer-in-charge, including making dug bailing, profiling etc. complete.	per %o cft. per thousand cubic feet.			
	(a) for initial lift of 5′—0″	do	275·00	275·00	275·00
	(b) for additional lift of 3′—0″ from 5′—0″ upto 8′—0″	do	308·00	308·00	308·00
	(c) for additional lift of 3′—0″ from 8′—0″ upto 11′—0″	do	341·00	341·00	341·00
	(d) for additional lift of 3′—0″ from 11′—0″ upto 14′—0″	do	374·00	374·00	374·00
	(e) for additional lift of 3′—0″ from 14′—0″ upto 17′—0″	do	407·00	407·00	407·00
	(f) for additional lift of 3′—0″ from 17′—0″ upto 20′—0″		440·00	440·00	440·00
2.	(a) Earth work in box cutting upto 1′—0″ depth in all types of soil, removing soils to a safe distance, maintaining proper camber and grade as per drawing and as per direction of the Engineer-in-charge.	per % sft. per hundred square feet.			
	(b) do do upto 1′—6″ depth.	do	33·00	33·00	33·00
			41·00	44·00	44·00
3.	Turfing the side slopes and top of embankment with good quality turf not less than 9″ square, watering till the grass grows including all leads and lifts etc. complete.	per %o sft. per thousand square feet.	116·00	116·00	116·00
4.	Single brick flat soling with 1st class or picked jhama bricks as per camber and grade including filling joints with sand (F. M.—0·50) complete as per direction of the E/C. including cost of all materials,	per % sft. per hundred square feet.	351·00	351·00	351·00

Sl. No.	Description of items	Unit of rate	Rate in Taka: All districts except Barisal & Patuakhali	Barisal	Patuakhali
5.	Brick on edge pavement in Herring bone bond with 1st class or picked jhama bricks as per camber and grade over ½" sand cushion (F. M.-0·50) including filling the joints with the same sand and cost of all materials.	per % sft. per hundred square feet.	572·00	572·00	572·00
6.	Double brick flat soling with 1st class or picked jhama bricks as per camber & grade and filling the joints with fine sand (F. M.-0·50) & also providing ½" thick sand cushion in between the two flat layers of bricks with the same quality of sand including cost of all materials.	per % sft. per hundred square feet.	720·00	720·00	720·00
7.	Brick on end edging (3" across the road) with 1st class or picked jhama bricks & filling the gaps with fine sand (F. M.-0·50), cutting trenches, removing earth, filling and ramming the sides properly as per direction of the E/C. & including cost of all materials.	per % rft. per hundred running feet.	288·00	288·00	288·00
8.	Breaking picked jhama, 1st class bricks or bats including cost of bricks and bats and stacking in measurable sizes at site as per direction of the E/C.				
	(a) For 2½"—1½" size.	per % cft. per hundred cubic feet,	916·00	916·00	916·00
	(b) For 1½"—1" size	do	927·00	927·00	927·00
9.	Labour for compacted water bound Macadam base course with graded metal of crushed well burnt, picked jhama, 1st class bricks & bats having compacted thickness made as par specifications including local handling and spreading uniformly to proper grade, camber and superelevation, hand packing, rolling properly with 8 to 10 ton power driven road roller and wateding profusely for proper consolidation, blinding with blinding materials etc. complete as per direction of the Engineer in-charge.	per % cft. per hundred cubic feet,	103·00	103·00	103·00

Sl. No.	Description of items	Unit of rate	Rate in Taka: All Districts except Barisal & Patuakhali	Barisal	Patuakhali
10.	(a) 2" compacted premixed bitumenous carpeting with specified graded stone chips @ 21 cft of stone chips mixed with 4 lbs of heated bitumen per cft. of stone chips spread uniformly over the 100 sft of surface, rolled with 8 to 10 ton roller compacted fully in proper grade & camber spreading 4 cft. sand (F. M.-0·80) % sft complete as per direction of the E/C.	per % sft. per hundred square feet.	988·00	1000·00	1000·00
	(b) 1½" Thick compacted premixed bitumenous carpeting with specified graded stone chips @ 15·70 cft. of stone chips mixed with 4 lbs. of heated bitumen per cft. of stone chips, spread uniformly over 100 sft. of surface rolled with 8 to 10 ton roller compacted fully in proper grade and camber and spreading 4 cft. sand (F. M.-0·80) % sft. complete as per direction of the Engineer-in-charge.	per % sft. per hundred square feet.	785·00	796·00	797·00
11.	Providing tack coat @ 15 lbs. of bitumen % sft. including heating bitumen upto 350°F to 375°F spreading etc. complete (cost of bitumen included).	per % sft. per hundred square feet.	114·00	114·00	114·00
12.	Providing seal coat @ 15 lbs. of bitumen % sft. road surface including supplying and spreading of 3 cft. of sand (F. M-0·80) heating bitumen upto 350°F to 375°F and spreading etc. complete including cost of bitumen as per direction of the E/C.	per % sft. per hundred square feet.	132·00	140·00	141·00
13.	Premixed bitumenous seal coat with 4 cft. of pea gravels mixed with 5 lbs. of bitumen per cft. of pea gravel and laid over % sft. of road surface including spreading with proper camber and grade and blinding with dry sand @ 3 cft. % sft. including cost of all materials rolling with 8 to 10 tons power driven roller etc. complete as per direction of the Engineer-in-charge.	per % sft. per hundred square feet.	255·00	265·00	266·00

Sl. No.	Description of items	Unit of rate	Rate in Taka: All districts except Barisal & Patuakhali	Barisal	Patuakhali
1.	Earth work in excavation of tank of any dimension in all kinds of soil including cutting upto required depth including bailing out water and throwing on the embankment in 9" layer, breaking clods ramming and levelling, dressing with maintaining the side slope and level of both tank and the embankment as per design and direction of the Engineer-in-charge.				
	(a) Initial lead of 100' and lift of 5'—0"	per %o cft. per thousand cubic feet.	275·00	275·00	275·00
	(b) For each additional lift of one foot beyond 5'—0" and upto 10'—0"	do	13·00	13·00	13·00
	(c) For each additional lift of one foot beyond 10'—0" and within 15'—0"	do	20·00	20·00	20·00
	(d) For each additional lift of one foot beyond 15'—0" and upto 20'—0"	do	26·00	26·00	26·00
	(e) Extra for each additional lead of 100' or part there of beyond initial lead 100'—0"	do	44·00	44·00	44·00

SANITARY AND WATER SUPPLY ITEMS

Sl. No.	Description of items	Unit of rate	Rate in Taka: All districts except Barisal & Patuakhali	Barisal	Patuakhali
1.	(a) Supplying, fitting & fixing Bangladeshi pattern 18" W.C. pan (Shanks or Twyford) with white vitreous China, C. I. Trap, preparing the base of pan in cement concrete wire net or rods if necessary in all floors in/c. making holes in walls and floors where necessary & mending good the damages, supplying 3 gallons capacity C. I. Cistern and fitting, fixing the same in position with C. I. Brackets, including supplying of 1¼" dia P. V. C. flush pipe, C. I. coupling, ½" dia plastic connection pipe, brass stop cock ½" dia ball valve and pulling chain etc. complete as per direction of the Engineer-in-charge.	Each.	2,290·00	2,290·00	2,290·00
	(b) do do (China, India, Thailand or any other approved brand). do do	Each.	1,795·00	1,795·00	1,795·00
	(c) do do (made in Bangladesh) do do	Each.	1,354·00	1,354·00	1,354·00
	(d) Supplying best quality white glazed porcelain foot rest including fitting, fixing in position.	per pair.	101·00	101·00	101·00
2.	(a) Supplying, fitting and fixing European type white glazed porcelain commode (Shanks or Twyford) with lowdown white vitreous China Cistern with plastic seat and cover, ½" dia C. P. stop cock, ½" dia plastic pipe, preparing the base with cement concrete and wire net or rod if necessary in all floors including making holes wherever required and mending good the damages, fitting fixing complete with all necessary fittings and connection as per direction of the Engineer-in-charge.	Each.	4,778·00	4,778·00	4,778·00
	(b) do do (China, India, Thailand or any other approved brand.) do	Each.	2,800·00	2,800·00	2,800·00

Sl. No.	Description of items	Unit of rate	Rate in Taka: All districts except Barisal & Patuakhali	Barisal	Patuakhali
3.	(a) Supplying, fitting and fixing white glazed vitreous China squatting Urinals (Shanks or Twyford) with flushing inlet fitted in cement concrete with Cast Iron painted body; 1 gallon automatic flushing Cistern in each group etc ½" brass controlling valve, 1¼" dia P. V. C. flush pipe, ½" dia plastic connection pipe, including mending good the damages etc. complete as per direction of the Engineer in-charge.	Each.	2,203·00	2,203·00	2,203·00
	(b) do do (China, India or any other approved brand).	Each.	1,323·00	1,323·00	1,323·00
4.	(a) Supplying, fitting & fixing white glazed vitreous W/H. basin (Shanks or Twyford) of 22" × 16" size & fitting the same in position with heavy type C. I. Brackets, 1½" P. V. C. waste water pipe, not exceeding 2'– 6" in length, ½" dia plastic connection pipe, ½" dia brass stop cocks, ½" dia chromium plated pillar cock 1½" dia c. p. Basin Waste with Chain plug, in/c. making holes in walls, fitting wooden blocks & screws and mending good the damages etc. complete as per direction of the Engineer-in-charge.	Each.	1,600·00	1,600·00	1,600·00
	(b) Supplying, fitting and fixing white glazed vitreous W/H. basin (China, India or any other approved brand) of 22" × 16" size and fitting the same in position with heavy type C. I. brackets, 1½" P. V. C. waste water pipe, not exceeding 2'—6" in length, ½" dia plastic connection pipe, ½" dia brass stop cocks, ½" dia chromium plated pillar cock 1½" dia c. p. basin waste chain plug, including making holes in walls, fitting wooden blocks & screws & mending good the damages etc. complete as per direction of the Engineer-in-charge.	Each.	942·00	942·00	942·00
5.	Supplying, fitting & fixing 24" × 5" plate glass shelf of ¼" thickness, with C. P. brackets, screws & frames, including making holes in walls and mending good the damages etc. complete as per direction of the Engineer in-charge.	Each.	75·00	75·00	75·00
6.	Supplying, fitting and fixing C. P. Towel rail of 24" × ¾" size with c. p. holder including making holes in walls and mending good the damages etc. complete as per direction of the Engineer-in-charge.	Each.	80·00	80·00	80·00

Sl. No.	Description of items	Unit of rate	Rate in Taka: All districts except Barisal & Patuakhali	Barisal	Patuakhali
7.	Supplying, fitting and fixing Belgium mirror 18″×12″ with hard board at the back in/c. making holes in the walls and mending good the damages etc. complete as per direction of the Engineer in-charge.	Each.	96·00	96·00	96·00
8. (a)	Supplying, fitting & fixing European type white glazed porcelain standing Urinal (Shanks or Twyford) and fitting, fixing the same in position after making holes in walls and floors, providing 1½″ dia plastic waste pipe upto the gratting below, ½″ dia plastic connection pipe, ½″ dia brass stop cock, including mending good the damages on the walls and floors etc. complete as per direction of the E/C.	Each.	1090·00	1090·00	1090·00
(b)	do do China, Thailand, or any other approved (brand) do	Each.	760·00	760·00	760·00
9. (a)	Supplying, fitting, fixing 4″ dia H.C.I. soil pipe with all fitting and specials like plain bend, Tees, reducing sockets, junctions, door bends, Cowels, antisyphone etc, in/c. gaskit & cement joints, making holes in walls, mending good the damages etc. complete as per direction of the Engr-in-charge. (The rate will be inclusive of 4″ cement concrete (6 : 3 : 1) alaround the soil pipe under ground upto the I. P. only and earth cutting wherever necessary).	per rft. per runnig foot.	84·00	84·00	84·00
(b)	Supplying, fitting and fixing 4″ dia Asbestos soil pipe with all fittings & specials like plain bend, Tees, reducing, sockets, junctions, door bends Cowels, antisyphonage etc. including gaskit and cement joints making holes in walls, mending good the damages etc. complete as per direction of the Engineer-in-charge (the rate will be inclusive 4″ cement concrete (6 : 3 : 1) alround the soil pipe under ground upto the I. P. only & earth cutting wherever necessary (To be used in temporary and unimpertant works).	per rft. per running foot.	42·75	42·75	42·75

Sl No.	Description of items	Unit of rate	Rate in Taka: All Districts except Barisal & Patuakhali	Barisal	Patuakhali
10.	(a) Supplying, fitting & fixing 2" dia H. C. I. ventilation pipe with all fittings & specials like plain bends, Tees, cowels etc. including gaskit & cement joints and mending good the damages etc. complete as per direction of the Engineer-in-charge.	per rft. per running foot.	50·50	50·50	50·50
	(b) Supplying, fitting & fixing 2" dia Asbestos Ventilation pipe with all fittings & specials like plain bend, Tees, Cowels etc. including gaskit & cement joints and mending good the damages etc. complete as per direction of the Engineer-in charge (To be used in temporary & unimportant works).	per rft. per running foot.	30·00	30·00	30·00
11.	Supplying, fitting & fixing and laying 6" dia R. C. C. pipe over 4" thick cement concrete (6 : 3 : 1) at base and sides including single brick flat soling in/c. gaskit and cement mortar joints cutting and filling trenches upto required depth complete in all respects as per type plan etc. complete as per direction of the Engineer-in-charge.	per rft. per running foot.	30·00	30·00	30·00
12.	Supplying, fitting and fixing 5" dia C. I. grating in traps or in drains including making holes in walls & floors and mending good the damages etc. complete as per direction of the Engineer-in-charge.	Each.	12·00	12·00	12·00
13.	Supplying, fitting & fixing 4" dia C. I. traps (Syphone trap or P. Trap) including making holes in walls and floors and mending good the damages etc. complete as per direction of the Engineer-in-charge.	Each.	173·00	173·00	173·00

Sl. No.	Description of items	Unit of rate	Rate in Taka: All districts except Barisal & Patuakhali	Barisal	Patuakhali
14.	(a) Supplying, fitting & fixing 30″×18″×10″ porcelain sink (Shanks or Twyford) fitted and fixed with heavy type C. I. brackets, ½″ dia C. P. Bib cock, C. P. Chain plug (1½″ dia) with 1½″ dia C. P. waste & 1¼″ dia P. V. waste water pipe upto 2′—6″ length including making holes in the walls & floors and mending good the damages etc. complete as per direction of the Engineer-in charge.	Each.	4,704·00	4,704·00	4,704·00
	(b) do do 24″×18″×8″ porcelain sink (Shanks or Twyford) do do	Each.	3,603·00	3,603·00	3,603·00
	(c) do do 24″×18″×8″ porcelain sink . (China, Thailand or any other) do do	Each.	1,513·00	1,513·00	1,513·00
	(d) Supplying fitting & fixing stainless steel single draining board sink of size 40″×20″ do do	Each.	2,503·00	2,503·00	2,503·00
15.	Supplying, fitting & fixing G. I. pipes with all specials such as bends, Elbows, Sockets, Reducing Sockets, Tees, Unions, Jumnuts etc. including cutting trenches where necessary and filling the same with earth duly rammed and fixing in walls with holder bats and making hole in floors and walls and consequent mending good the damages etc. complete in all respects as per direction of the Engineer-in-charge.	per rft. per running foot.			
	(a) 2″ dia	do	33·00	33·00	33·00
	(b) 1½″ dia	do	27·00	27·00	27·00
	(c) 1¼″ dia	do	25·85	25·85	25·85
	(d) 1″ dia	do	20·90	20·90	20·90
	(e) ¾″ dia	do	15·95	15·95	15·95
	(f) ½″ dia	do	14·30	14·30	14·30

Sl. No.	Description of items	Unit of rate	Rate in Taka: All districts except Barisal & Patuakhali	Barisal	Patuakhali
16.	Supplying, fitting & fixing best quality and heavy type bib cock ½″ dia.				
	(a) Brass bib cock	Each.	24·00	24·00	24·00
	(b) C. P. bib cock.	Each.	40·00	40·00	40·00
17.	Supp'ying, fitting & fixing best quality stop cock.				
	(a) (i) ¾″ dia (Brass) stop cock.	Each.	41·00	41·00	41·00
	(ii) ½″ dia (Brass) stop cock.	Each.	26·00	26·00	26·00
	(b) (i) ¾″ dia (C. P.) stop cock.	Each.	57·00	57·00	57·00
	(ii) ½″ dia (C. P.) stop cock.	Each.	46·00	46·00	46·00
18.	Supplying, fitting & fixing best quality G. M. peet valve.				
	(a) 2″ dia peet valve	Each.	165·00	165·00	165·00
	(b) 1½″ dia do	Each.	83·00	83·00	83·00
	(c) 1¼″ dia do	Each.	77·00	77·00	77·00
	(d) 1″ dia do	Each.	60·00	60·00	60·00
	(e) ¾″ dia do	Each.	49·00	49·00	49·00
	(f) ½″ dia do	Each.	40·00	40·00	40.00
19.	(a) Supplying, fitting & fixing 5″ dia C. P. shower rose.	Each.	45·00	45·00	45·00
	(b) Supplying, fitting & fixing foreign made Telephonic type shower rose (Japan made).	Each.	1,330·00	1,330·00	1,330·00
	(c) Supplying, fitting & fixing foreign made Telephonic type shower rose (Czchekoslovak, India, China, Thailand made).	Each.	1,990·00	1,990·00	1,990·00
20.	(a) Supplying, fitting & fixing 4′ × 4′ × 4′ size 16 guage G. I. over head Tank of 400 gallon capacity in/c. painting the tank with paint of approved colour & quality & providing G. I. cover on top with locking arrangement, providing inlet and outlet pipe with flanges & plug, Jam nuts etc. 1½″ dia ball valve complete in all respects with all other necessary fitting including over flow pipe ½″ dia upto 2′—6″ long.	Each.	4,100·00	4,100·00	4,100·00
	(b) do do 4′ × 4′ × 4′ size 18 guage G. I. over head tank do do	Each.	3,200·00	3,200.00	3,200·00

Sl. No.	Description of items	Unit of rate	Rate in Taka: All Districts except Barisal & Patuakhali	Barisal	Patuakhali
21. (a)	Construction of masonry Inspection pits inside measurement (2′× 2′) with 10″ thick brick work in cement mortar (4 : 1) & 4″ thick R. C. C. top slab (4 : 2 : 1) with necessary reinforcement, 18″ dia water sealed R. C. C. M. H. cover including necessary earth work, side filling & one brick flat soling, 3″ thick (6 : 3 : 1) base concrete for the preparation of the invert including making invert channel complete with ½″ thick (2 : 1) cement plaster and neat cement finishing etc. complete upto a depth of 2′—6′.	Each	827·00	865·00	868·00
(b)	do with 18″ dia water sealed C. I. manhole cover with locking arrangement including necessary earth work. do do do	Each.	1,007·00	1,045·00	1,048·00
22.	Painting C. I. cistern with anticorrosive paint of approved colour and quality.	Each.	14·00	14·00	14·00
23.	Painting 2 coats H. C. I. pipes (4′—2″ dia) with approved anticorrosive paint over a coat of priming including cleaning rust.	per rft.	1·65	1·65	1·65
24.	Painting G. I. pipes 3″ to ½″ dia with approved paint over coat of priming (av. 2″ dia) including cleaning rust.	per rft.	1·10	1·10	1·10
25.	Construction of septic tank of different sizes with brick work in cement mortar (6 : 1) as per approved plan over a brick flat soling & 6″ cement concrete flooring (4 : 2 : 1) with 5″ thick brick walls in partition & ¾″ thick cement plaster (4 : 1) to insides of walls with N. C. F. & 1″ thick patent stone (4 : 2 : 1) flooring with N. C. F. including supplying fitting & fixing of two R. C. C. Tees & providing 18″ dia water sealed heavy type C. I. manhole cover with locking arrangement & 4″ thick R. C. C. (4 : 2 : 1) cover slab with minimum 1% reinforcement including centering, shuttering, fabrication, casting & curing etc. complete upto required depth including necessary earth work in excavation & shoring, bailing out water, side filling and the cost of all materials, operations and incidental charges etc. complete as per design & direction of the Engineer-in-charge.				
(a)	for 200 users with 3 manhole covers.	Each.	24,220·00	25,360·00	25,450·00
(b)	for 100 users with 3 manhole covers.	do	16,890·00	17,700·00	17,770·00
(c)	for 50 users with 3 manhole covers.	do	11,690·00	12,250·00	12,290·00
(d)	for 30 users with 2 manhole covers.	do	7,500·00	7,700·00	7,890·00
(e)	for 10 users with 2 manhole covers.	do	5,020·00	5,240·00	5,260·00

Sl. No.	Description of items	Unit of rate	Rate in Taka: All Districts except Barisal & Patuakhali	Barisal	Patuakhali
26.	Construction of soak well of different sizes with 10" solid brick work & 10" honey comb brick work in cement mortar (6 : 1) as per design over R. C. C. (4 : 2 : 1) well curb with 1·5% reinforcement upto the depth as per drawing with 4" thick R. C. C. (4 : 2 : 1) cover slab with 1% reinforcement including supp'ying, fitting & fixing 18" dia water sealed heavy type C. I. manhole cover with locking arrangement, filling the well upto the required with graded khoa & sand inc. supplying & fabricating M. S. rod, casting, curing including necessary earth work in excavation, side filling & bailing out water, cost of all materials etc. complete as per drawing, design & direction of the E/Ch.				
	(a) for 200 users.	Each.	10,850·00	11,830·00	11,940·00
	(b) for 100 users.	do	6,650·00	7,110·00	7,160·00
	(c) for 50 users.	do	4 480·00	4,750·00	4,770·00
	(d) for 30 users.	do	4,480·00	4,750·00	4,770·00
	(e) for 20 users.	do	3,750·00	3,970·00	4,000·00
	(f) for 10 users	do	3,750·00	3,970·00	4,000·00
27.	Supplying & sinking $1\frac{1}{2}$" dia G. I. tube well pipe including trial boring and with all necessary fittings etc. complete as per direction of the E/Ch.				
	(a) (i) $1\frac{1}{2}$" dia pipe upto 200'—0"	per rft.	29·00	29·00	29·00
	(ii) $1\frac{1}{2}$" dia pipe from 200'—0" upto 450'—0"	do	40·00	40·00	40·00
	(b) Supplying, fitting & fixing $1\frac{1}{2}$" dia brass strainer 6'—0" long including supplying of all necessary fitting etc. complete as per direction of the E/Ch.	Each.	292·00	292·00	292·00
	(c) Supplying, fitting & fixing Maya/Hydari or such other No. 6 pump for $1\frac{1}{2}$" dia tube well with all necessary fittings etc. complete as per direction of the Engineer-in-charge.	Each.	528·00	528·00	528·00
	(d) Construction of platform with 3" thick cement concrete (6 : 3 : 1) over a brick flat soling and providing 5" × 3" brick band alaround, finished with $\frac{1}{2}$" thick cement plaster (2 : 1) complete with necessary outlet drain upto 10'—0"	per sft.	25·80	27·75	27·85

PLINTH AREA RATES OF BUILDING
EFFECTIVE FROM DECEMBER 15TH 1980

On the publication of the New Schedule of Rates effective from 15th December, 1980, rough estimates for all works, schemes, projects etc, should, from now on be prepared on the basis of the following plinth area rates :—

1. First class buildings built in bricks with four storied foundation with brick flat soling, cement concrete 6 : 3 : 1 and brick work 6 : 1 (including 1½" thick D. P. C.) in foundation and plinth : 10" thick brick-work in superstructure : doors and windows made of best local timber with standard window grilles, R. C. C. works 4 : 2 : 1 in roof slab, beams, lintels, stair-case, cornice, sunshade, railing, drop-walls ; patent stone floorings 4 : 2 : 1 including mosaic works in bath rooms and stair-cases, minimum ½" thick cement plaster 6 : 1 to both sides of superstructure walls, minimum ½" thick cement plaster 4 : 1 in plinth steps and dado, ½" C. P. 4 : 1 to ceilings, beams etc. white washing, colour washing and necessary earth work in foundation, earth and sand filling in plinth and other petty items as required.

(a) Foundation including plinth.	Tk. 70/- (seventy only) per square foot.
(b) Ground floor : (Superstructure only without foundation).	Tk. 130/- (one hundred & thirty) per square foot.
(c) First floor	Tk. 137/ (one hundred & thirty seven) per square foot.
(d) Second floor	Tk. 143/ (one hundred & forty three) per square foot.
(e) Third floor	Tk. 150/ (one hundred fifty) per square foot.
(f) Lime Terracing & parapet.	Tk. 12/- (Taka twelve) only per square foot.

(Item (f) to be added on the floor where top floor occurs).

If the building is of more than 4—stories, additional amount for foundation to be added as per requirement and design on the basis of actual calculation.

2. First class buildings built in bricks with general specifications as noted in item (I) together with special specification :
   (i) For mosaic work in all rooms : Add Taka 20/- (twenty) only per square foot for each floor over item No. 1.
   (ii) For mosaic work in all rooms doors and windows made of Teak wood with Sal wood Chowkats, designed window grills, distemper, snowcem and plastic painting. : Add Taka 40/- (forty) only per square foot for each floor over item No. 1.

3. Semi-permanent buildings with C. I. sheet roofing on best local timber truss, brick flat soling cement concrete 6 : 3 : 1 and brick works 6 : 1 (including 1½" thick D.P.C.) in foundation and plinth, 5" thick panel brick work in superstructure with 10" × 10" intermediate pillar at 8'—0" to 10'—0" C/C. doors and windows made of best local timber with standard window grills, R.C.C. work 4 : 2 : 1 in lintels, patent stone floorings 4 : 2 : 1, minimum ½" thick cement plaster 6 : 1 to both sides of superstructure walls and ½" thick cement plester 4 : 1 in plinth, steps and dado. white washing, colour washing and necessary earth work in foundation, earth and sand filling in plinth and other petty ittems, as required.

Taka—135/- (one hundred thirty five only) per square foot.

A-V-74

SCHEDULE OF RATES
FOR
TITAS GAS CONNECTION WORKS
Part—A (Low Pressure Line)

Item No. 1

Installation of 50 P . S. I. pipe line for supplying Titas gas including supplying and fitting fixing different size of M. S. pipe along with all necessary fittings, cutting trenches in any kind of soil, cleaning, coaltaring, wrapping and laying the pipes and back filling the trenches etc. all complete in all respect as per specification of the Titas Gas (T&D) Co. Ltd. and direction of the Engineer-in-charge.

(a) 3″ dia @ Tk. 94.00 per rft.
(b) 2″ dia @ Tk. 65·75 per rft.
(c) 1″ dia @ Tk. 37·00 per rft.
(d) $\frac{3}{4}$″ dia @ Tk 28·00 per rft.

Item No. 2

Providing Butt welded joints made above or below ground etc. all complete in all respect as per specification of the Titas Gas (T&D) Co. Ltd. and as per direction of the Engineer-in-charge.

(a) 3″ dia @ Tk. 93·50 each
(b) 2″ dia @ Tk. 74·00 each
(c) 1″ dia @ Tk. 58·50 each
(d) $\frac{3}{4}$″ dia @ Tk. 46·20 each

Item No . 3

Providing saddle welding for Branch of connection including fabricating the saddle, making holes with the help of gas cutter and welding the saddle as per specification of Titas Gas (T&D) Co. Ltd. and as per direction of the Engineer-in-charge.

@ Tk. 200·00 each

Item No. 4

Cutting and permanent re-instatement of the pucca road surface as per specification and mending good the damages etc. all complete in all respect as per direction of the Engineer-in-charge.

(i) for pucca road surface @ Tk. 13·00 per sft.
(ii) for brick road surface 10·00 per sft.

Item No. 5

Sand filling in trenches with fine sand in 6″ layers, watering and consolidating each layer upto finished level.

@ Tk. 200·00 per % cft.

Item No. 6

Cutting and re-levelling the pipes where necessary etc. all complete in all respects as per specification of Titas Gas (T&D) Co. Ltd. and direction of the Engineer-in-charge.

(a) 3″ dia @ Tk. 33·00 each
(b) 2″ dia @ Tk. 26·00 each
(c) 1″ dia @ Tk. 20·00 each
(d) ¾″ dia @ Tk. 16·00 each

Item No. 7

Welding of flanged Tee (T) to connect the pipe line with the Titas Gas Main pipe line etc. all complete in all respects as per specification of Titas Gas (T&D) Co. Ltd.

(a) 3″ dia @ Tk. 93·50 each
(b) 2″ dia @ Tk. 74·00 each

Item No. 8

Supplying fitting and fixing in position different dia (F/F) high presure valve including construction of standard size valve pits etc. all complete in all respect as per specification and direction of the Engineer-in-charge.

(a) 3″ dia @ Tk 3,000·00 each
(b) 2″ dia @ Tk. 2,000·00 each

Item No. 9

Testing the pipe lines properly as per specification of Titas Gas (T&D) Co. Ltd. and direction of the Engineer-in-charge.

@ Tk. 1·50 per rft.

Part—II (Domestic & Commercial line)

Item No. 1.

Installation of Domestic or Commercial House line for supplying Titas Gas including supplying and fitting fixing in position different sizes of G. I. pipe along with all necessary G. I. fittings and accessories, cutting trenches, wall floor etc. and back filling the trenches, restoring wall and floors etc. all complete in all respects as per specification of Titas Gas (T&D) Co. Ltd. and direction of the Engineer-in-charge.

(a) 2″ dia @ Tk. 33/- per rft.
(b) 1½″ dia @ Tk. 27/- per rft.
(c) 1¼″ dia @ Tk. 25/85 per rft.
(d) 1″ dia @ Tk. 20/90 per rft.
(e) ¾″ dia @ Tk. 15/95 per rft.
(f) ½″ dia @ Tk. 14/30 per rft.

Item No. 2

Supplying and fitting fixing in position different dia one-way gas stop cock made of brass (best quality and heavy type) etc. all complete in all respect as per specification of Titas Gas (T&D) Co. Ltd. and direction of the Engineer-in-charge.

(a) $\frac{3}{4}$" dia @ Tk. 70·00 each
(b) 1" dia @ Tk. 90·00 each

Item No. 3

Supplying and fitting fixing the following as per specification of Titas Gas (T&D) Co. Ltd. and direction of the Engineer-in-charge.

30" long

(a) Double burner 20 B. W. G. @ Tk. 440/- each
(b) Double burner 22 B. W. G. @ Tk. 385/- each
24 B. W. G. @ Tk. 352/- each

26" long

20 B. W. G. @ Tk. 363/- each
22 B. W. G. @ Tk. 330/- each
24 B. W. G. @ Tk. 300/- each

(b) Single Burner.

20 B. W. G @ Tk. 220/- each
22 B. W. G. @ Tk. 195/- each
24 B. W. G. @ Tk. 175/- each

(c) Commercial Burner.

(i) 100 cft. @ Tk. 550/- each
(ii) 75 cft. @ Tk. 415/. each
(iii) 45 cft. @ Tk. 360/- each
(iv) 25 cft. @ Tk. 305/- each

Item No. 4

Cutting the pucca road surface and mending good the damages etc. all complete in all respect as per specification and direction of the Engineer-in-charge.

(a) For pucca Road surface @ Tk. 13/- per sft
(b) For Brick Road surface @ Tk. 10/- per sft.

Item No. 5

Construction of standared size brick masonry platform in cement mortar (6 : 1) including minimum $\frac{1}{2}$" thick cement plaster (4 : 1) with neat cement finishing and curing etc all complete.

(a) For Commercial burner @ Tk. 754/- each
(b) For Double burner @ Tk. 400 /- each
(c) For Single burner @ Tk. 324/- each

Item No. 6

Testing & purging the House line etc. all complete as per specification of Titas Gas T&D , Co. Ltd. and direction of Engineer-in-charge.

@ Tk. 1·00 per rft.